

Appendix A. Software Processes

This appendix lists all ECS processes in alphabetical order by subsystem. Each process name is followed by a directory specification indicating where that process was defined. A brief description of the process may be given. This is followed by a list of classes and templates used by the process, if any, which are defined in that same directory. Finally, any Static and Shared Libraries linked into this process (other than system and COTS libraries) are also listed. These library names may be found in Appendix B.

It should be noted that this appendix contains processes that are in the Drop 6A.08 code as well as processes that are in later Drops but may not be fully operative until the delivery of the future Drops.

The first sentence of a class or library description is taken from the comments, if any, in the code for that class or library.

Subsystem DSS

The Data Server Subsystem (DSS) provides capabilities to store, search, retrieve, and distribute earth science and related data. The DSS provides data repositories and management capabilities necessary to safely store data on a permanent basis. The DSS stages data needed for data processing by the Data Processing Subsystem (DPS) or for retrieval by users at external locations. The DSS organizes and stores its data by data types, and provides advanced search capabilities and processing services on those data types in support of earth science data users. The DSS distributes data to users either electronically or on physical media. It also includes administrative capabilities to operate and manage its hardware and software.

process adtest

/ecs/formal/DSS/sdsrv/src/ad

Test program for SDSRV GUI libraries

Libraries (static)

- `agentevent` -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- `ccs` -- Define class methods and dbtools errorhandling function.
- `Common` -- The common directory contains classes for the `EcsToV0Server` and `V0ToEcsServer` executables.
- `CsEmMailRelA` -- This Library is used for the emails using sendmail utility.
- `CsFtFTPRelA` -- This library provides a Wrapper for FTP.
- `CsFtFTPSchedObj` -- This library provides functions to use FTP at a scheduled time by the User.

- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DsAd -- This library provides an administrative/M&O interface to science data server requests.
- DsBt -- This directory builds the DsBt library.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsCs -- This library is used by the HDFEOS server which supplies subsetting services to DLL or other clients.
- DsDb -- This library encapsulates the Sybase Open Client calls from the rest of the SDSRV.
- DsDc -- This library is used by subsetting code which make reformatting calls to convert HDF-EOS file format to HDF file format for subsetted HDF files.
- DsDdB -- This library contains base objects used in both the client and server components of DDIST.
- DsDdC -- The DsDdC library is the client side library.
- DsDdI -- Provides the socket interface for DsDdRequestManager Server.
- DsDe1 -- This internal library contains the methods to validate metadata, install ESDTs, send metadata to IOS and DMS, register events with SBSRV, and generate MCF files for insert.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsHc -- The library libDsHc(static and shared versions) provides a DCE-independent client interfaces for both Conformant and NonConformant subsetting.
- DsHr -- This library encapsulates all DCE exposure for the distributed objects and functions for both Conformant and NonConformant subsetting on the server side for HdfEos server.
- DsLg -- This library provides a utility to hide the details of the Logging system.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsMd2 -- This library contains the low level SDSRV code responsible for reading incoming "metadata" (md) from ODL files and storing it to the sybase database.
- DsMd3 -- This library contains the low level code for converting Search constraints to SQL, and recreating the metadata (GIParameterList and ODL format) from the database.
- DsMs -- This library is responsible for translating SDSRV client queries into the SQL needed by the database server.

- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSi -- The DsSi library provides database support for the persistent system information including system requests and service commands.
- DsSr -- This is an internal library for Science Data Server.
- DsStArClientSync -- This library libDsStArClientSync is used by synchronous clients of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStFtpClientSync -- This directory contains the source code for the client interface to the FTP Server.
- DsStMediaClientSync -- The library DsStMediaClientSync is used by the synchronous clients of the media to request media services.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientSync -- The library libDsStSdClientSync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- DsTl -- This library provides typed safe (smart) pointers / objects for RogueWave classes and a utility to make logging complex error messages easier.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDmDdClient -- The library establishes and maintains a session with the DDICT server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.

- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- GIo -- This library provides the operations for the gl objects to be read from or saved to a stream or file.
- hdfeos
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PGSTK
- Sock

- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDsCIMuQaMetadataUpdate

/ecs/formal/DSS/sdsrv/src/qa

Processes a list of granule UR's and associated QAFlag values. Updates the QAFlags in the granule metadata via calls to science data server.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsCI -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.

- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcDsDdDCLI

/ecs/formal/DSS/distribution/src/dcli

A command line interface to Distribution Server. It uses DDIST server, STMGT servers and MSS server (optional) to submit a distribution request.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.

- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDdB -- This library contains base objects used in both the client and server components of DDIST.
- DsDdC -- The DsDdC library is the client side library.
- DsDdI -- Provides the socket interface for DsDdRequestManager Server.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- DsStArClientSync -- This library libDsStArClientSync is used by synchronous clients of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStFtpClientSync -- This directory contains the source code for the client interface to the FTP Server.
- DsStMediaClientSync -- The library DsStMediaClientSync is used by the synchronous clients of the media to request media services.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientSync -- The library libDsStSdClientSync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.

- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.

- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock

process EcDsDdistGui

/ecs/formal/DSS/gui/src/ddist

This process enables operations to initiate, track, and manipulate distribution requests by using input GUI controls and database information.

Classes

- DsGuBusyCursor -- The constructor and destructor are always called in pairs to set/reset the cursor to indicate that the application is busy and unable to process user input in a window.
- DsGuDdEvents -- Created by Builder Xcessory Version 5.0.8.
- DsGuDdistMW -- Created by Builder Xcessory Version 5.0.8.
- DsGuDistRequest -- Created by Builder Xcessory Version 5.0.8.
- DsGuDistTimer
- DsGuErrorDialog -- Created by Builder Xcessory Version 5.0.8.
- DsGuFile -- Created by Builder Xcessory Version 5.0.8.
- DsGuOperatorMessage -- This Class is used to create the widget on the STMGT GUI which contains a Messages to be displayed to the operator alerting him of status of the system.
- DsGuPreamble -- Created by Builder Xcessory Version 5.0.8.
- DsGuSelectConfirm -- Created by Builder Xcessory Version 5.0.8.
- DsGuSysRequest -- .
- DsGuSystemSettings -- Created by Builder Xcessory Version 5.0.8.
- DsGuTapeOperation -- Created by Builder Xcessory Version 5.0.8.
- DsGuTapeTimer
- DsGuTimer -- Provides capabilities for X-Windows timer operations.
- UIComponent -- Base class for all C++/Motif UI components.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- Common -- The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.

- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DsAd -- This library provides an administrative/M&O interface to science data server requests.
- DsBt -- This directory builds the DsBt library.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsCs -- This library is used by the HDFEOS server which supplies subsetting services to DLL or other clients.
- DsDb -- This library encapsulates the Sybase Open Client calls from the rest of the SDSRV.
- DsDc -- This library is used by subsetting code which make reformatting calls to convert HDF-EOS file format to HDF file format for subsetted HDF files.
- DsDdB -- This library contains base objects used in both the client and server components of DDIST.
- DsDdC -- The DsDdC library is the client side library.
- DsDdI -- Provides the socket interface for DsDdRequestManager Server.
- DsDe1 -- This internal library contains the methods to validate metadata, install ESDTs, send metadata to IOS and DMS, register events with SBSRV, and generate MCF files for insert.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsHc -- The library libDsHc(static and shared versions) provides a DCE-independent client interfaces for both Conformant and NonConformant subsetting.
- DsHr -- This library encapsulates all DCE exposure for the distributed objects and functions for both Conformant and NonConformant subsetting on the server side for HdfEos server.
- DsLg -- This library provides a utility to hide the details of the Logging system.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsMd2 -- This library contains the low level SDSRV code responsible for reading incoming "metadata" (md) from ODL files and storing it to the sybase database.

- DsMd3 -- This library contains the low level code for converting Search constraints to SQL, and recreating the metadata (GIParameterList and ODL format) from the database.
- DsMs -- This library is responsible for translating SDSRV client queries into the SQL needed by the database server.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSi -- The DsSi library provides database support for the persistent system information including system requests and service commands.
- DsSr -- This is an internal library for Science Data Server.
- DsStArClientSync -- This library libDsStArClientSync is used by synchronous clients of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStFtpClientSync -- This directory contains the source code for the client interface to the FTP Server.
- DsStMediaClientSync -- The library DsStMediaClientSync is used by the synchronous clients of the media to request media services.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientSync -- The library libDsStSdClientSync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- DsTl -- This library provides typed safe (smart) pointers / objects for RogueWave classes and a utility to make logging complex error messages easier.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDmDdClient -- The library establishes and maintains a session with the DDICT server.

- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtGUI
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- GIIo -- This library provides the operations for the gl objects to be read from or saved to a stream or file.
- hdfeos
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.

- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PGSTK
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDsDistributionServer

/ecs/formal/DSS/distribution/src/server/main

This process provides the control and coordination for data distribution through request processing.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsDdB -- This library contains base objects used in both the client and server components of DDIST.
- DsDdC -- The DsDdC library is the client side library.
- DsDdFtpPush -- The FTP push media class is derived from DsDdMedia and is used to push the requested files to the indicated directory on a remote host.
- DsDdI -- Provides the socket interface for DsDdRequestManager Server.
- DsDdS -- The main directory holds the source code for most of the server program.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsStArClientSync -- This library libDsStArClientSync is used by synchronous clients of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.

- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStFtpClientSync -- This directory contains the source code for the client interface to the FTP Server.
- DsStMediaClientSync -- The library DsStMediaClientSync is used by the synchronous clients of the media to request media services.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientSync -- The library libDsStSdClientSync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStTmClient -- The library libDsStTmClientSh is used by STMGT Servers that are asynchronous clients of other STMGT Servers.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.

- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock

process EcDsHdfEosServer

/ecs/formal/DSS/sdsrv/src/hr

The EcDsHdfEosServer provides the services for both Conformant and NonConformant subsetting. It utilizes the EcDsScienceDataServer as its client for all the subsetting requests. The distributed functions are single-thread called by EcDsScienceDataServer. It provides ability to start more than one server with each corresponding server config file.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- Common -- The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPReLA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.

- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DsAd -- This library provides an administrative/M&O interface to science data server requests.
- DsBt -- This directory builds the DsBt library.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsCs -- This library is used by the HDFEOS server which supplies subsetting services to DLL or other clients.
- DsDb -- This library encapsulates the Sybase Open Client calls from the rest of the SDSRV.
- DsDc -- This library is used by subsetting code which make reformatting calls to convert HDF-EOS file format to HDF file format for subsetted HDF files.
- DsDdB -- This library contains base objects used in both the client and server components of DDIST.
- DsDdC -- The DsDdC library is the client side library.
- DsDdI -- Provides the socket interface for DsDdRequestManager Server.
- DsDe1 -- This internal library contains the methods to validate metadata, install ESDTs, send metadata to IOS and DMS, register events with SBSRV, and generate MCF files for insert.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and shared versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsHc -- The library libDsHc(static and shared versions) provides a DCE-independent client interfaces for both Conformant and NonConformant subsetting.
- DsHr -- This library encapsulates all DCE exposure for the distributed objects and functions for both Conformant and NonConformant subsetting on the server side for HdfEos server.
- DsLg -- This library provides a utility to hide the details of the Logging system.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsMd2 -- This library contains the low level SDSRV code responsible for reading incoming "metadata" (md) from ODL files and storing it to the sybase database.
- DsMd3 -- This library contains the low level code for converting Search constraints to SQL, and recreating the metadata (GIPParameterList and ODL format) from the database.
- DsMs -- This library is responsible for translating SDSRV client queries into the SQL needed by the database server.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.

- DsSi -- The DsSi library provides database support for the persistent system information including system requests and service commands.
- DsSr -- This is an internal library for Science Data Server.
- DsStArClientSync -- This library libDsStArClientSync is used by synchronous clients of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStFtpClientSync -- This directory contains the source code for the client interface to the FTP Server.
- DsStMediaClientSync -- The library DsStMediaClientSync is used by the synchronous clients of the media to request media services.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientSync -- The library libDsStSdClientSync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- DsTl -- This library provides typed safe (smart) pointers / objects for RogueWave classes and a utility to make logging complex error messages easier.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDmDdClient -- The library establishes and maintains a session with the DDICT server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.

- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- GllO -- This library provides the operations for the gl objects to be read from or saved to a stream or file.
- hdfs
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PGSTK
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDsScienceDataServer

/ecs/formal/DSS/sdsrv/src/sr

EcDsScienceDataServer is the core server of EOS system. It provides clients the basic functions: store and retrieve the EOS data with the cooperation by other subsystem servers. It allows client insert various types granules to storage and acquire them when they are needed. It keeps track of granules' information with direct access to a metadata database. With the help of other servers, it provides auxiliary services to clients so that they can use EOS system more efficiently and conveniently.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- Common -- The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DsAd -- This library provides an administrative/M&O interface to science data server requests.
- DsBt -- This directory builds the DsBt library.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsCs -- This library is used by the HDFEOS server which supplies subsetting services to DLL or other clients.
- DsDb -- This library encapsulates the Sybase Open Client calls from the rest of the SDSRV.
- DsDc -- This library is used by subsetting code which make reformatting calls to convert HDF-EOS file format to HDF file format for subsetted HDF files.
- DsDdB -- This library contains base objects used in both the client and server components of DDIST.
- DsDdC -- The DsDdC library is the client side library.
- DsDdI -- Provides the socket interface for DsDdRequestManager Server.

- DsDe1 -- This internal library contains the methods to validate metadata, install ESDTs, send metadata to IOS and DMS, register events with SBSRV, and generate MCF files for insert.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and shared versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsHc -- The library libDsHc(static and shared versions) provides a DCE-independent client interfaces for both Conformant and NonConformant subsetting.
- DsHr -- This library encapsulates all DCE exposure for the distributed objects and functions for both Conformant and NonConformant subsetting on the server side for HdfEos server.
- DsLg -- This library provides a utility to hide the details of the Logging system.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsMd2 -- This library contains the low level SDSRV code responsible for reading incoming "metadata" (md) from ODL files and storing it to the sybase database.
- DsMd3 -- This library contains the low level code for converting Search constraints to SQL, and recreating the metadata (GIParameterList and ODL format) from the database.
- DsMs -- This library is responsible for translating SDSRV client queries into the SQL needed by the database server.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSi -- The DsSi library provides database support for the persistent system information including system requests and service commands.
- DsSr -- This is an internal library for Science Data Server.
- DsStArClientSync -- This library libDsStArClientSync is used by synchronous clients of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStFtpClientSync -- This directory contains the source code for the client interface to the FTP Server.
- DsStMediaClientSync -- The library DsStMediaClientSync is used by the synchronous clients of the media to request media services.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.

- DsStSdClientSync -- The library libDsStSdClientSync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- DsTl -- This library provides typed safe (smart) pointers / objects for RogueWave classes and a utility to make logging complex error messages easier.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDmDdClient -- The library establishes and maintains a session with the DDICT server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.

- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- GllO -- This library provides the operations for the gl objects to be read from or saved to a stream or file.
- hdfs
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PGSTK
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDsSCLI

/ecs/formal/DSS/sdsrv/src/ci

Science Data Server Command Line Interface, provides a command line tool to allow external components to issue requests to the

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and a red versions.

- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.

- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcDsSdSrvGui

/ecs/formal/DSS/gui/src/sdsrv

The Science Data Server GUI provides the operator two major functions, the management of Earth Science Data Types and the monitoring of all types of requests the Science Data Server is involved with. The Data Types GUI allows operations to add and view the ESDTs offered by the Science Data Server; the System Requests GUI allows operators to monitor and change the priority for all the requests within each data server component.

Classes

- DsGuDssMW -- Created by Builder Xcessory Version 5.0.8.
- DsGuElement -- A way of keeping track of a queue.
- DsGuErrorDialog -- Created by Builder Xcessory Version 5.0.8.
- DsGuList
- DsGuMultiFile -- Created by Builder Xcessory Version 5.0.8.
- DsGuQueue -- This class stores elements of DsGuElement.
- DsGuSdDatatype -- Created by Builder Xcessory Version 5.0.8.
- DsGuSysRequest -- .
- DsGuSystemSettings -- Created by Builder Xcessory Version 5.0.8.
- UIComponent -- Base class for all C++/Motif UI components.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- Common -- The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.

- DsAd -- This library provides an administrative/M&O interface to science data server requests.
- DsBt -- This directory builds the DsBt library.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsCs -- This library is used by the HDFEOS server which supplies subsetting services to DLL or other clients.
- DsDb -- This library encapsulates the Sybase Open Client calls from the rest of the SDSRV.
- DsDc -- This library is used by subsetting code which make reformatting calls to convert HDF-EOS file format to HDF file format for subsetted HDF files.
- DsDdB -- This library contains base objects used in both the client and server components of DDIST.
- DsDdC -- The DsDdC library is the client side library.
- DsDdI -- Provides the socket interface for DsDdRequestManager Server.
- DsDe1 -- This internal library contains the methods to validate metadata, install ESDTs, send metadata to IOS and DMS, register events with SBSRV, and generate MCF files for insert.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and a red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsHc -- The library libDsHc(static and shared versions) provides a DCE-independent client interfaces for both Conformant and NonConformant subsetting.
- DsHr -- This library encapsulates all DCE exposure for the distributed objects and functions for both Conformant and NonConformant subsetting on the server side for HdfEos server.
- DsLg -- This library provides a utility to hide the details of the Logging system.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsMd2 -- This library contains the low level SDSRV code responsible for reading incoming "metadata" (md) from ODL files and storing it to the sybase database.
- DsMd3 -- This library contains the low level code for converting Search constraints to SQL, and recreating the metadata (GIPparameterList and ODL format) from the database.
- DsMs -- This library is responsible for translating SDSRV client queries into the SQL needed by the database server.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSi -- The DsSi library provides database support for the persistent system information including system requests and service commands.

- DsSr -- This is an internal library for Science Data Server.
- DsStArClientSync -- This library libDsStArClientSync is used by synchronous clients of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStFtpClientSync -- This directory contains the source code for the client interface to the FTP Server.
- DsStMediaClientSync -- The library DsStMediaClientSync is used by the synchronous clients of the media to request media services.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientSync -- The library libDsStSdClientSync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- DsTl -- This library provides typed safe (smart) pointers / objects for RogueWave classes and a utility to make logging complex error messages easier.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDmDdClient -- The library establishes and maintains a session with the DDICT server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.

- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtGUI
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- GllO -- This library provides the operations for the gl objects to be read from or saved to a stream or file.
- hdfeos
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PGSTK
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDsSt8MMServer

/ecs/formal/DSS/stmgt/src/media/server

This directory contains the source code for all media servers, including the DTF server, the 8 MM server, the DLT server, and the CDROM server. The source code creates both libraries and executables for the Sun platform.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSt8MMServer -- This directory contains the source code for all media servers, including the DTF server, the 8 MM server, the DLT server, and the CDROM server.
- DsStArClientAsync -- This library libDsStArClientAsync is used by asynchronous clients (ie other STMGT Servers) of the Archive Server to perform archive retrieves and archive stores.
- DsStCHSService -- This directory contains source code for service classes which provide access to devices, both for standalone and stacker-based devices.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStCmnServer -- The library libDsStCmnServer is used by STMGT Servers to access core server functionality including database access parameters and thread configuration.
- DsStDeviceService -- This directory contains source code for service classes which provide access to devices, both for standalone and stacker-based devices.
- DsStMediaClientAsync -- The library DsStMediaClientAsync is used by the asynchronous clients of the media to request media services.
- DsStMediaServers -- This directory contains the source code for all media servers, including the DTF server, the 8 MM server, the DLT server, and the CDROM server.
- DsStMediaService -- This directory contains source code for service classes which provide access to media, both for media distribution and media ingest purposes.

- DsStMediaStaging -- This directory contains source code to support local staging of data for all media servers.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientAsync -- The library libDsStSdClientASync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStTmClient -- The library libDsStTmClientSh is used by STMGT Servers that are asynchronous clients of other STMGT Servers.
- DsStTmServer -- The library libDsStTmServerSh is used by STMGT Servers to access core functionality for managing service threads, manager threads and request information.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.

- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcDsStArchiveServer

/ecs/formal/DSS/stmgt/src/archive

The Archive Server handles client request to put files into or take files out of the COTS archive product. As such, it provides an interface which hides the COTS implementation. Since there may be multiple archives served by different COTS or custom applications, there is an archive ID which is used to map data location into the archive and location in the archive for all files. The archive id is based on a server key and a logical volume identifier. The server key provides a means by which STMGT client supplied software can determine which archive server should be accessed. The logical volume specifier allows for a searching of one or more locations in the archive for the existence of a file. The logical specifier allows for handling multiple "directory paths" for the storage of logically connected data, e.g. all the data for a given ESDT. Currently, data storage is determined by ESDT.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsStArClientAsync -- This library libDsStArClientAsync is used by asynchronous clients (ie other STMGT Servers) of the Archive Server to perform archive retrieves and archive stores.

- DsStArServer -- This library libDsStArServer is used by the ArchiveServer to perform its core functions.
- DsStCmClient -- The library libDsStCmClient is used by CacheManager clients (EcDsStArchiveServer & EcDsStFtpServer) to access the functionality of the CacheManager Server.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStCmnServer -- The library libDsStCmnServer is used by STMGT Servers to access core server functionality including database access parameters and thread configuration.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientAsync -- The library libDsStSdClientASync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStTmClient -- The library libDsStTmClientSh is used by STMGT Servers that are asynchronous clients of other STMGT Servers.
- DsStTmServer -- The library libDsStTmServerSh is used by STMGT Servers to access core functionality for managing service threads, manager threads and request information.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.

- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcDsStCacheManagerServer

/ecs/formal/DSS/stmgt/src/cache

The CacheManager Server is used to monitor disk, file and directory usage in a cache. The CacheManager tracks disk usage by tracking files copied and ftp'd in and out of the managed cache. The CacheManager tracks files by recording links and liens against the files in the cache and directories by recording ownership and expiration times. The CacheManager replaces both the PullMonitor Server and the StagingMonitor Server. One cache is used to retrieve files from the archive and the other is used to house data ready for FtpPull.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReLA -- This library provides a Wrapper for FTP.

- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsStCmClient -- The library libDsStCmClient is used by CacheManager clients (EcDsStArchiveServer & EcDsStFtpServer) to access the functionality of the CacheManager Server.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStCmnServer -- The library libDsStCmnServer is used by STMGT Servers to access core server functionality including database access parameters and thread configuration.
- DsStCmServer -- The library libDsStCMServer is used by the CacheManager Server to access core functionality.
- DsStFtp -- The library libDsStFtp is used by STMGT Servers to perform file transfers using ftp.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientAsync -- The library libDsStSdClientASync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStTmClient -- The library libDsStTmClientSh is used by STMGT Servers that are asynchronous clients of other STMGT Servers.
- DsStTmServer -- The library libDsStTmServerSh is used by STMGT Servers to access core functionality for managing service threads, manager threads and request information.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.

- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcDsStDTFServer

/ecs/formal/DSS/stmgt/src/media/server

This directory contains the source code for all media servers, including the DTF server, the 8 MM server, the DLT server, and the CDROM server. The source code creates both libraries and executables for the Sun platform.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.

- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsStArClientAsync -- This library libDsStArClientAsync is used by asynchronous clients (ie other STMGT Servers) of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStCmnServer -- The library libDsStCmnServer is used by STMGT Servers to access core server functionality including database access parameters and thread configuration.
- DsStDeviceService -- This directory contains source code for service classes which provide access to devices, both for standalone and stacker-based devices.
- DsStDTFServer -- This directory contains the source code for all media servers, including the DTF server, the 8 MM server, the DLT server, and the CDRom server.
- DsStMediaClientAsync -- The library DsStMediaClientAsync is used by the asynchronous clients of the media to request media services.
- DsStMediaServers -- This directory contains the source code for all media servers, including the DTF server, the 8 MM server, the DLT server, and the CDRom server.
- DsStMediaService -- This directory contains source code for service classes which provide access to media, both for media distribution and media ingest purposes.
- DsStMediaStaging -- This directory contains source code to support local staging of data for all media servers.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientAsync -- The library libDsStSdClientASync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStStandaloneService -- This directory contains source code for service classes which provide access to devices, both for standalone and stacker-based devices.
- DsStTmClient -- The library libDsStTmClientSh is used by STMGT Servers that are asynchronous clients of other STMGT Servers.
- DsStTmServer -- The library libDsStTmServerSh is used by STMGT Servers to access core functionality for managing service threads, manager threads and request information.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.

- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcDsStErrorFilesGenerator

/ecs/formal/DSS/stmgt/src/cmn/logging

DsStErrorFilesGenerator is used to create a data file used by STMGT clients for accessing STMGT error codes and explanations. It also creates SQL files used to load the STMGT database.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.

- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcDsStFtpServer

/ecs/formal/DSS/stmgt/src/ftp/server

The EcDsStFtpServer provides its clients the ability to do push and pull distribution ftp from a server other than the one the client is on. This is important since, for ftp push, different underlying network architecture may be required for the push than is available to the DDIST server. DDIST is the only client for this server. In turn, this server is a client of the EcDsStCacheManagerServer.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.

- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsStCmClient -- The library libDsStCmClient is used by CacheManager clients (EcDsStArchiveServer & EcDsStFtpServer) to access the functionality of the CacheManager Server.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStCmnServer -- The library libDsStCmnServer is used by STMGT Servers to access core server functionality including database access parameters and thread configuration.
- DsStFtp -- The library libDsStFtp is used by STMGT Servers to perform file transfers using ftp.
- DsStFtpServer -- The code in the disftp directory provides the server side code for handling distribution ftp requests.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientAsync -- The library libDsStSdClientASync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStSecureCopyClient -- This library libDsStSecureCopyClient is used by client to perform secure copy .
- DsStTmClient -- The library libDsStTmClientSh is used by STMGT Servers that are asynchronous clients of other STMGT Servers.
- DsStTmServer -- The library libDsStTmServerSh is used by STMGT Servers to access core functionality for managing service threads, manager threads and request information.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.

- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcDsStmgtGui

/ecs/formal/DSS/gui/src/stmgt

The files in this directory comprise the software for the STGMT GUI process, EcDsStmgtGui. The GUI is the primary interface for operations staff to control and monitor STMGT processing. It can be used to help assemble requests for hard media distribution for which multiple media

are required. Error messages are sent to the operator GUI which indicate conditions encountered by STMGT processes that the operator needs to be aware of.

Classes

- DsGuStFileViewer -- Created by Builder Xcessory Version 5.0.8.
- DsGuStOperatorNotify -- This class provides the object to notify the operator of server events.
- DsGuStRequest -- Created by Builder Xcessory Version 5.0.8.
- UIComponent -- Base class for all C++/Motif UI components.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsStArClientAsync -- This library libDsStArClientAsync is used by asynchronous clients (ie other STMGT Servers) of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStCmnServer -- The library libDsStCmnServer is used by STMGT Servers to access core server functionality including database access parameters and thread configuration.
- DsStGuiCmn -- This static library provides Gui interface to stmgmt GUI.
- DsStMediaClientAsync -- The library DsStMediaClientAsync is used by the asynchronous clients of the media to request media services.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStTmClient -- The library libDsStTmClientSh is used by STMGT Servers that are asynchronous clients of other STMGT Servers.

- DsStTmServer -- The library libDsStTmServerSh is used by STMGT Servers to access core functionality for managing service threads, manager threads and request information.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtGUI
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.

- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcDsStRequestManagerServer

/ecs/formal/DSS/stmgt/src/reqmgr

The RequestManagerServer is used by STMGT clients to access STMGT Server using the DCE Interface. The Request Manager accepts requests via DCE, writes the requests to the database and wakes up the appropriate server for the request to be processed.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReLA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnDCE -- The library libDsStCmnDCE is used by STMGT Servers to access core DCE functionality.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStCmnServer -- The library libDsStCmnServer is used by STMGT Servers to access core server functionality including database access parameters and thread configuration.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStRmServer -- The library lib_DsStRmServer is used by the Request Manager to access core request functionality.

- DsStTmClient -- The library libDsStTmClientSh is used by STMGT Servers that are asynchronous clients of other STMGT Servers.
- DsStTmServer -- The library libDsStTmServerSh is used by STMGT Servers to access core functionality for managing service threads, manager threads and request information.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.

- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcDsStStagingDiskServer

/ecs/formal/DSS/stmgt/src/sdisk

The Staging Disk Server allocates and monitors shared RAID space between competing processes. Clients for which insufficient staging is available currently are queued in a priority based queue. Staging Disk Servers also use the server key to differentiate which of the multiple Staging Disk Servers are accessed. The server key will be available to the client either as part of the archive id or as part of an existing staging disk tag.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsStCmClient -- The library libDsStCmClient is used by CacheManager clients (EcDsStArchiveServer & EcDsStFtpServer) to access the functionality of the CacheManager Server.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStCmnServer -- The library libDsStCmnServer is used by STMGT Servers to access core server functionality including database access parameters and thread configuration.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.

- DsStSdClientAsync -- The library libDsStSdClientASync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStSdServer -- This directory contains the source code for the Staging Disk Server.
- DsStTmClient -- The library libDsStTmClientSh is used by STMGT Servers that are asynchronous clients of other STMGT Servers.
- DsStTmServer -- The library libDsStTmServerSh is used by STMGT Servers to access core functionality for managing service threads, manager threads and request information.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.

- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

Subsystem INS

The **Ingest Subsystem** supports the storing of data into ECS repositories. This data is accepted from a variety of external data providers in various formats and is predefined within ECS with regard to expected metadata and metadata characteristics, and is ingested in accordance with approved Interface Control Documents (ICDs). The **Ingest Subsystem** supports a variety of ingest requests and preprocesses the data for archiving into ECS. This preprocessing varies according to attributes of the ingested data such as data type, data format, and the level to which the ingested data has been processed from raw instrument data.

The data types are formally referred to as Earth Science Data Types (ESDTs). An ESDT is a defined data set associated with a given mission/instrument or identified grouping and is registered in an ESDT Baseline List. The ESDT is identified with a short name, a long name, a collection description, and information on file type, metadata, formats, and services provided such as sub-setting by a given attribute. An example of an ESDT is AST_L1A (short name) which is the ASTER Level 1 A data set which is reconstructed, unprocessed instrument digital counts with radiometric and geometric coefficients attached. ESDTs may also be ancillary data, algorithms, correlative and calibration data.

The **Ingest Subsystem** software is organized into collections of software processes which execute in a specific pattern depending on the ESDT being ingested. These processes include an automated ingest process, a polling ingest process, a media ingest process, and a cross mode ingest process. These ingest processes provide the virtual interface for the receipt of all external data to be archived within the archival system of the ECS Science Data Processing Segment (SDPS). Specific ingest process parameters can be modified as interface and mission requirements evolve. For a given incoming data set corresponding to an ESDT, Ingest performs data preprocessing, metadata extraction, and directs the DSSSDSRV to perform metadata validation.

***process* EclnEmailGWServer**

/ecs/formal/INGEST/InEmailGWServer/src/EmailGW

Receives email distribution notification messages, stores them into files which are then converted into PDRs which are placed into a Polling directory.

Classes

- InEmailGWServer -- The InEmailGWServer object class contains most of the functionality of the EcInEmailGWServer.
- InEmailParser -- The InEmailParser class is used to support the EcInEmailGWServer.
- InManagedServer -- This is an example how an application can use Process Frame Work to create a managed server.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsDdI -- Provides the socket interface for DsDdRequestManager Server.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsStArClientSync -- This library libDsStArClientSync is used by synchronous clients of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStFtp -- The library libDsStFtp is used by STMGT Servers to perform file transfers using ftp.
- DsStFtpClientSync -- This directory contains the source code for the client interface to the FTP Server.
- DsStMediaClientSync -- The library DsStMediaClientSync is used by the synchronous clients of the media to request media services.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.

- DsStSdClientSync -- The library libDsStSdClientSync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStSecureCopyClient -- This library libDsStSecureCopyClient is used by client to perform secure copy.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.

- InDBaccUt -- This library provides classes which allows access to the Ingest database.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcInGran

/ecs/formal/INGEST/GranServer/src/Server

Provides services to perform required preprocessing of data and subsequent insertion of the data into the appropriate Data Server. The preprocessing of data consists of converting the data (if needed), extracting the metadata into the standard ECS metadata format (if needed), performing required metadata existence and parameter range checks, and updating the metadata with ingest specific metadata (e.g., start and stop date/time for ingest). It is responsible for tracking the ingest requests and coordinating the ingest processing, which is comprised of transferring data, performing data preprocessing, and sending an insertion request to the appropriate Data Server. In addition, the EcInGran is responsible for updating the granule state, transferring data files into Ingest, building file lists, and grouping files with valid ESDTs.

Classes

- InDataTransferTask -- InDataTransferTask class conducts data transfer from the external sources into Ingest subsystem.
- InGranuleAsync_S -- The InGranuleAsync_S class is the server-side component of the asynchronous granule request capability.
- InGranuleDispatcher -- This is the customized version of the Ingest granule dispatcher object.
- InGranuleServer -- The InGranuleServer class listens for incoming granule request messages.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.

- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and shared versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- DsStArClientSync -- This library libDsStArClientSync is used by synchronous clients of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStFtp -- The library libDsStFtp is used by STMGT Servers to perform file transfers using ftp.
- DsStFtpClientSync -- This directory contains the source code for the client interface to the FTP Server.
- DsStMediaClientSync -- The library DsStMediaClientSync is used by the synchronous clients of the media to request media services.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientSync -- The library libDsStSdClientSync is used by the clients of the Staging Disk Server to allocate and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStSecureCopyClient -- This library libDsStSecureCopyClient is used by client to perform secure copy.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.

- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfeos
- InADPP -- This library provides the auxiliary data preprocessing code that extracts metadata from GRIB files and will convert certain GRIDs to HDF-EOS.
- InConfig -- This library provides a class which is used by each Ingest executable to obtain parameters from its configuration file.
- InDBaccUt -- This library provides classes which allows access to the Ingest database.
- InGranResource -- This library allocates/deallocates staging disk resources and calls the IngestFtpServer to transfer files.
- InGranuleC -- This library supports the client side of the SRF request.
- InMetadataToolAPI -- This library provides the class which accesses the PGS Toolkit from a non PGE C++ environment.
- InResource -- This library allocates/deallocates staging disk resources.
- InRmQueue -- This library contains code for Request Managers queue.

- InSnowIce -- This library provides the class which inserts all of the data sets extracted from the native format file into SDSs within HDF-EOS.
- InTOMS -- This library provides the class that is designed to pre-process TOMS data in CD-ROM format into the standard ECS Internal format.
- InUARS -- This library provides the classes that are designed to pre-process UARS data in CCSD format into the standard ECS Internal format.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- PGSTK
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EclnGUI

/ecs/formal/INGEST/GUI/src/gui

Provides operations personnel with the capability, via the GUI Interface, to perform physical media ingest; to monitor the ingest history log; to monitor the status of ongoing ingest requests; to cancel an ingest request or granule; to resume suspended ingest requests or granules and to modify Ingest configuration parameters.

Classes

- IngestMW -- Parent Class that controls/drives the other four ingest GUI.
- InHistoryLog -- Provides History Log GUI functionality.
- InMediaIngest -- Created by Builder Xcessory Version 5.0.8.
- InOperatorTools -- Created by Builder Xcessory Version 5.0.8.
- InReqCtrlBarGraph -- Created by Builder Xcessory Version 5.0.8.
- InRequestController -- Created by Builder Xcessory Version 5.0.8.
- UIComponent -- Base class for all C++/Motif UI components.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.

- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- DsStArClientSync -- This library libDsStArClientSync is used by synchronous clients of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStFtp -- The library libDsStFtp is used by STMGT Servers to perform file transfers using ftp.
- DsStFtpClientSync -- This directory contains the source code for the client interface to the FTP Server.
- DsStMediaClientSync -- The library DsStMediaClientSync is used by the synchronous clients of the media to request media services.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientSync -- The library libDsStSdClientSync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStSecureCopyClient -- This library libDsStSecureCopyClient is used by client to perform secure copy.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.

- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- InConfig -- This library provides a class which is used by each Ingest executable to obtain parameters from its configuration file.
- InDBaccUt -- This library provides classes which allows access to the Ingest database.
- InGuiUt -- This library provides generic GUI capabilities.
- InResource -- This library allocates/deallocates staging disk resources.
- InRmQueue -- This library contains code for Request Managers queue.

- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

Subsystem CLS

The Client Subsystem (CLS) provides a collection of components through which users access the services and data available in EOSDIS and other systems interoperable with EOSDIS. The Client Subsystem components fall into one of the following general categories: a) An intuitive desktop manager, which manages desktop objects (files) in the user's local file space, and which represent applications and data in the domain of the client; and b) Application programs accessible through user interfaces which implement the range of functionality available in the client.

process EcCIDtUserProfileGateway

/ecs/formal/CLS/DESKT/src/ProfileGateway

The User Profile Gateway acts as a user profile retrieval engine for the Science User Desktop. The server listens on a socket for calls from the desktop. It also supports updates to the profile from the EOS Data Gateway.

Classes

- CIDtBuildProfile -- For getting the User Profile Information.
- CIDtIKSocket -- This class encapsulates the IK library routines in a class and removes all global variables required to operate.
- CIDtManagedServer -- Extends the standard managed process-framework server to include requirements for the CIDtServer.
- CIDtProfileServer -- This class sets client data and socket address for User profile.
- CIDtRequestReceiver -- This class is takes in a socket descriptor and request id and executes the contents of the socket in the Gateway and returns the resultant request on the new socket id.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CIDtProfileToOdl -- This library is used to read and write ODL parameters specific for the User Profile Gateway.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.

- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- ik
- ims_odl
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.

- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock

process EcClOdAttachedDpr

/ecs/formal/CLS/ODFRM/src/cgi-src

This is a functionality for processing AsterOnDemand orders through ODFRM when launched from JDT. This is typically associated with a particular DARId.

Classes

- ClOdAttachedDpr -- This class contains the definition for processing AsterOnDemand orders through ODFRM when launched from JDT.
- ClOdUserLogin -- This class contains definitions for the User login to Odfrm.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- ClOdCommon -- This library contains utilities to read Cgi Variables, read HTML templates and build build HTML pages from the templates for ODFRM.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.

- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and shared versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- ECSAuthn -- This library provides a function EcUtMakeECSAuth(userID, password, ecsAuth), which converts the input of a userID and a password of this userID, and returns a string contains the encrypted authenticator ECSAuth.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.

- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- ik
- ims_odl
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- MD5Encrypt
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PIODMgrClient -- This library contains the objects needed for the EcPIODMgr application.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock

process EcClOdProductRequest

/ecs/formal/CLS/ODFRM/src/cgi-src

This is a process which enables to submit a High level Aster on Demand product request using ODFRM.

Classes

- ClOdDEMPProductRequest -- This class contains the definition to submit a DEM Product request.
- ClOdGCPOptions -- This class contains the definitions for selecting the GCP options.
- ClOdLIBProductRequest -- This class contains definition for creating a LIB product request.
- ClOdProductRequest -- This class contains definitions for submitting a Odfrm product request.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- ClOdCommon -- This library contains utilities to read Cgi Variables, read HTML templates and build build HTML pages from the templates for ODFRM.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.

- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- ECSAuthn -- This library provides a function EcUtMakeECSAuth(userID, password, ecsAuth), which converts the input of a userID and a password of this userID, and returns a string contains the encrypted authenticator ecsAuth.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.

- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- ik
- ims_odl
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- MD5Encrypt
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PlCore1 -- This library contains the first half of Planning's core functionality.
- PlCore2 -- This library contains the second half of Planning's core functionality.
- PlOdMgrClient -- This library contains the objects needed for the EcPlOdMgr application.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock

process EcClOdProductSelection

/ecs/formal/CLS/ODFRM/src/cgi-src

This is a process which enables to select a High level Aster on Demand product request using ODFRM.

Classes

- ClOdDEMPProductSelection -- This class contains definition to Select a DEM Product.
- ClOdGCPOptions -- This class contains the definitions for selecting the GCP options.
- ClOdL1BProductSelection -- This class contains definitions for selecting an L1B product.
- ClOdProductSelection -- This class contains definitions to Select a product in Odfm.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.

- ClOdCommon -- This library contains utilities to read Cgi Variables, read HTML templates and build HTML pages from the templates for ODFRM.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPReLA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
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- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.

- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- ECSAuthn -- This library provides a function EcUtMakeECSAuth(userID, password, ecsAuth), which converts the input of a userID and a password of this userID, and returns a string contains the encrypted authenticator ecsAuth.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
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- FoCl -- This library is responsible for parsing the command line.
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- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- ik
- ims_odl
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- MD5Encrypt
- Middleware -- This library is used by FOS application.
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- PIODMgrClient -- This library contains the objects needed for the EcPIODMgr application.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock

process EcClOdUserLogin

/ecs/formal/CLS/ODFRM/src/cgi-src

This process enables the User Login to ODFRM for Aster on Demand High level products.

Classes

- ClOdUserLogin -- This class contains definitions for the User login to Odfm.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- ClOdCommon -- This library contains utilities to read Cgi Variables, read HTML templates and build build HTML pages from the templates for ODFRM.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.

- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
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- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
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- DsSr -- This is an internal library for Science Data Server.
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- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- ECSAuthn -- This library provides a function EcUtMakeECSAuth(userID, password, ecsAuth), which converts the input of a userID and a password of this userID, and returns a string contains the encrypted authenticator ecsAuth.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.

- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- ik
- ims_odl
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- MD5Encrypt
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PIODMgrClient -- This library contains the objects needed for the EcPIODMgr application.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock

***process* EOSView**

/ecs/formal/CLS/EOSVIEW/src/XVT

This is a application used to view HDF images(Browse images in particular).

Libraries (static)

- hdfeos

Subsystem DMS

The Data Management Subsystem (DMS) receives service request (to search the inventory or directory databases, to browse search results or to order data) from a user's client (i.e., a GUI), translates it from ODL to ECS formats, forwards it to the SDSRV and vice versa.

process EcDmDdMaintenanceTool

/ecs/formal/DM/DDICT/src/ddmaint

Provides a graphical user interface (GUI) to insert, update, or delete schema information held in the DDICT database, allowing DAAC operations staff to maintain the data stored in the Data Dictionary database. The Data Dictionary Maintenance Tool also provides the following capabilities:

- * Import and Export of Valid: The tool allows DAAC operations staff to import and export data collection attribute valids to and from the ECS and V0 IMS for two-way catalog interoperability.
- * Data Collection Attribute and Keyword Mapping: Allows DAAC operations staff to map data collection attributes and keyword valids between the V0 IMS and ECS. The V0 GTWAY CSCI processes (EcDmEcsToV0Gateway and EcDmV0GatewayToEcs) to translate requests between these two systems use this information.

Classes

- DmDdMtAcronymEditor -- This class implements an editor, which allows operators to create, view and modify Acronyms in the Data Dictionary database.
- DmDdMtAction -- This is an abstract base class.
- DmDdMtActionQueue -- This class is designed to assist in the management of actions on the main window.
- DmDdMtAddAdvAction -- This class knows how to add database data elements.
- DmDdMtAddDataAction -- This class knows how to add database data elements.
- DmDdMtAddLinkAction -- This class is designed to assist in addition of links between database items.
- DmDdMtASTERDatasetGroup -- This class represents a dataset group construct, consisting of attribute and group value constructs associated with the collection that the dataset group represents.
- DmDdMtAsterV0DatasetGroup -- This class represents a dataset group construct, consisting of attribute and group value constructs associated with the collection that the dataset group represents.
- DmDdMtAttribute -- This class represents an attribute construct, consisting of an attribute name and one or more values associated with the instance.
- DmDdMtAttributeEditor -- This class implements an editor, which allows operators to create, view and modify Attributes in the Data Dictionary database.
- DmDdMtBooleanTuple -- This class provides specific support for the display and manipulation of boolean tuples.
- DmDdMtCollectionEditor -- This class implements an editor, which allows operators to create, view and modify Collections in the Data Dictionary database.

- DmDdMtCollInfo -- This class is more of a structure whose sole purpose in life is to contain some intermediate form of data - that is used for sorting the result set of a query by ArchiveName.
- DmDdMtComposite -- This class is an instance of the "Composite" design pattern and serves as a base class to be further derived to represent group and attribute structures.
- DmDdMtConfigItems -- This class will get items from Process Framework that have been read from the configuration file by PF.
- DmDdMtConvertCollection -- This class converts a DDICT collection to valids form, and a GIParameterList in valids form to a DDICT insert collection.
- DmDdMtDatabaseSelectionDialog -- This is a dialog, used to specify the database elements that the data dictionary maintenance operator wants to examine or update.
- DmDdMtDatasetGroup -- A class to generate V0 IMS dataset in ODL protocol.
- DmDdMtDatasetGroup2 -- This class is used as an inheritance class to be further derived to represent a dataset group in a common format.
- DmDdMtDBExtract -- This is an interface to the DDICT server while exporting Valids.
- DmDdMtDeleteDataAction -- This class knows how to delete database data elements.
- DmDdMtDeleteLinkAction -- This class is designed to assist in deletion of links between database items.
- DmDdMtDescriptionMapper -- Maps source constants to variable configuration file values to allow run time instead of compile time changes to the database schema.
- DmDdMtDialogDirector -- The Dialog Director is an abstract base class used to facilitate communication between a main window and a dialog class.
- DmDdMtEditDataAction -- This class knows how to edit database data elements.
- DmDdMtEditorDialogDirector -- The Editor Dialog Director is an abstract base class used to facilitate communication between a main window and an editor dialog class.
- DmDdMtExportAction -- This class knows how export collections.
- DmDdMtExportDeleteAction -- This class knows how delete items from the export list.
- DmDdMtExportFile -- Creates a V0 IMS export file of ECS metadata.
- DmDdMtExtendedDateTime -- Created by Builder Xcessory Version 5.0.8.
- DmDdMtFileDialogDirector -- FileDialogDirector is a concrete class based on the Dialog Director.
- DmDdMtFileSelectionDialog -- This class represents a standard Motif file selection dialog.
- DmDdMtGlossaryEditor -- This class implements an editor, which allows operators to create, view and modify Glossarys in the Data Dictionary database.
- DmDdMtGroup -- This class represents a group construct, consisting of a group name and one or more attribute and / or group values associated with the instance.
- DmDdMtInformationManagerEditor -- This class implements an editor, which allows operators to create, view and modify Information Managers in the Data Dictionary database.

- DmDdMtInfoToCollAction -- This class knows how to Map collections to info managers.
- DmDdMtInstrumentEditor -- This class implements an editor, which allows operators to create, view and modify Instruments in the Data Dictionary database.
- DmDdMtIntegerTuple -- This class provides specific support for the display and manipulation of integer tuples.
- DmDdMtItemIndex -- This class provides generic support for the display and storage of data tuples with a common name and varying values.
- DmDdMtKeywordEditor -- This class implements an editor, which allows operators to create, view and modify Keywords in the Data Dictionary database.
- DmDdMtListHelper -- This class is designed to assist in the management of lists on the main window.
- DmDdMtListItem -- This class is designed to assist in the management of lists on the main window.
- DmDdMtMainWindow -- This class provides GUI functions and dispatches control to the basic functionality of the Data Maintenance Tool.
- DmDdMtMapAction -- This class knows how to Map collections.
- DmDdMtMessageHelper -- This class is designed to assist in determining required elements in DDICT messages, such as insert and update messages.
- DmDdMtModifyAttributeAction -- This class knows how to Map collections.
- DmDdMtMultipleAction -- This class knows how to deal with multiple collections.
- DmDdMtNameMapper -- This class is designed to assist in mapping names from an external value to an internal value.
- DmDdMtPlatformEditor -- This class implements an editor, which allows operators to create, view and modify Platforms in the Data Dictionary database.
- DmDdMtRealTuple -- This class provides specific support for the display and manipulation of real tuples.
- DmDdMtReleaseAction -- This class knows how to release collections.
- DmDdMtSelectDialogDirector -- SelectDialogDirector is a concrete class based on the Dialog Director.
- DmDdMtSelectElistDialogDirector -- SelectElistDialogDirector is based on the Select Dialog Director.
- DmDdMtSensorEditor -- This class implements an editor, which allows operators to create, view and modify Sensors in the Data Dictionary database.
- DmDdMtStringIndex -- This class displays, maintains and creates a GIParameterList of GIStringPs with a common name.
- DmDdMtStringTuple -- This class provides specific support for the display and manipulation of string tuples.
- DmDdMtTab -- This class is designed to assist in the management of tabs on the main window.

- DmDdMtTabHelper -- This class is designed to assist in the management of tabs on the main window.
- DmDdMtTables -- This class is designed to describe the view of tables in the data dictionary, as provided to the maintenance tool operator.
- DmDdMtThreeWayToggle -- The ThreeWayToggle class provides a Motif radio box with three toggle buttons, representing true, false and unspecified values.
- DmDdMtTuple -- This class provides generic support for the display and manipulation of data tuples.
- DmDdMtUndoAction -- This class knows how to undo other actions.
- DmDdMtV0DatasetGroup -- This class represents a dataset group construct, consisting of attribute and group value constructs associated with the collection that the dataset group represents.
- DmDdMtValidGroup -- This class exports valids from ECS Data Dictionary using DmDdMaintenanceTool GUI and writes it to a user provided output file.
- DmDdMtValidFile -- This class represents a valids file construct, consisting of one or more valid group values associated with the instance that the valids file represents.
- DmDdMtValidGroup -- This class represents a valids group construct, consisting of one or more dataset group, attribute, and / or group values associated with the instance that the valids group represents.
- MainWindow
- UIComponent -- Base class for all C++/Motif UI components.

Templates

- DmDdMtGenericEditorDialogDirector -- The Generic Editor Dialog Director is a concrete class used to facilitate communication between a main window and an editor dialog class.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- Common -- The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.

- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and shared versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDmDdClient -- The library establishes and maintains a session with the DDICT server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtGUI
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.

- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- ik
- ims_odl
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Persistent -- The Persistent library provides the EcDmV0ToEcsGateway with an interface to the data dictionary.
- RequestProcessing -- The RequestProcessing library provides the EcDmV0ToEcsGateway with support for processing requests from the EDG client.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDmDictServer

/ecs/formal/DM/DDICT/src/ddserver

The ddserver directory contains classes that implements the server portion of the DDICT. It initializes the DDICT, connects to the Process Framework objects, and provides objects to process service requests from a client. It dispatches the received service requests and instantiates an object to process the request. When results of the request are received from the object processing the request, they are returned to the requester.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.

- DmDdReqProc -- The ddreqproc directory contains classes for the Data Dictionary request processing.
- DmDdServerJit -- The ddserver directory contains classes that implement the server portion of the DDICT.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to an extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.

- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDmV0ToEcsGateway

/ecs/formal/DM/GatewayCSCI/src/ProgFrame

The EcDmV0ToEcsGateway program runs the V0 Gateway server. This program initializes the ManagedServer class which listens for new requests over the socket. If a request comes in, a thread is spawned and the RequestReceiver class is instantiated. This class checks authentication and determines the type of request to be processed.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- Common -- The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.

- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDb -- This library encapsulates the Sybase Open Client calls from the rest of the SDSRV.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and shared versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.

- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- ik
- ims_odl
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Persistant -- The Persistant library provides the EcDmV0ToEcsGateway with an interface to the data dictionary.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PIODMgrClient -- This library contains the objects needed for the EcPIODMgr application.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- RequestProcessing -- The RequestProcessing library provides the EcDmV0ToEcsGateway with support for processing requests from the EDG client.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

Subsystem PLS

The Planning Subsystem (PLS) supports the operations staff in managing the data productions activities at a site. It assists with two major functions: Defining the data processing tasks (processes to run) to be performed at a site. Generating efficient data productions plans for the scheduling of those tasks. In addition, PLS coordinates its activities with the Data Server and Data Processing subsystems to achieve a highly automated production system.

process EcPIMsh

/ecs/formal/PDPS/PLS/PLANG/src/PWB/mh/make

The Message Handler GUI displays the messages generated by a program. The message may be an information, a warning, or an error.

process EcPIOdMgr

/ecs/formal/PDPS/PLS/PLANG/src/OdMgr

The EcPIOdMgr server utility is one of the components of the ASTER OnDemand processing functionality. Using the World Wide Web, customers are able to submit OnDemand production requests directly to the ECS system for processing. The EcPIOdMgr will process ASTER Highlevel, ASTER DEM, and ASTER NonStandard L1B requests.

Classes

- PIODMgr -- This class is the main application class for the OnDemand Manager.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- Common -- The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DmGwRegistryStub -- The libDmGwRegistryStub library contains definitions of methods residing in CSS.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.

- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDb -- This library encapsulates the Sybase Open Client calls from the rest of the SDSRV.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- DsStArClientSync -- This library libDsStArClientSync is used by synchronous clients of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientSync -- The library libDsStSdClientSync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.

- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDmDdClient -- The library establishes and maintains a session with the DDICT server.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.

- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- ik
- ims_odl
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Persistent -- The Persistent library provides the EcDmV0ToEcsGateway with an interface to the data dictionary.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PIODMgrClient -- This library contains the objects needed for the EcPIODMgr application.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- RequestProcessing -- The RequestProcessing library provides the EcDmV0ToEcsGateway with support for processing requests from the EDG client.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPIODMgrClient

/ecs/formal/PDPS/PLS/PLANG/src/OdMgr

The EcPIODMgrClient is a utility program which manually provides some client functionality for EcPIODMgr. Using this utility, operators are able to retrieve OnDemand order information from the PDPS database.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.

- ccs -- Define class methods and dbtools errorhandling function.
- Common -- The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DmGwRegistryStub -- The libDmGwRegistryStub library contains definitions of methods residing in CSS.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDb -- This library encapsulates the Sybase Open Client calls from the rest of the SDSRV.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and shared versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.

- DsSr -- This is an internal library for Science Data Server.
- DsStArClientSync -- This library libDsStArClientSync is used by synchronous clients of the Archive Server to perform archive retrieves and archive stores.
- DsStCmnDb -- The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.
- DsStCmnFileIO -- The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.
- DsStCmnLogging -- The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.
- DsStRmClient -- The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.
- DsStSdClientSync -- The library libDsStSdClientSync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.
- DsStTmShared -- The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDmDdClient -- The library establishes and maintains a session with the DDICT server.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.

- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- ik
- ims_odl
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Persistent -- The Persistent library provides the EcDmV0ToEcsGateway with an interface to the data dictionary.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PIODMgrClient -- This library contains the objects needed for the EcPIODMgr application.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.

- RequestProcessing -- The RequestProcessing library provides the EcDmV0ToEcsGateway with support for processing requests from the EDG client.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPIPREditor_IF

/ecs/formal/PDPS/PLS/PLANG/src/PRE_GUI

The production request editor GUI is a utility which provides operations personnel with the capability to define Production Requests (PRs) that are used as part of the planning process. This GUI is constructed with the aid of Builder Xcessory and combined with custom code which interfaces to the planning database for storage of PRs.

This utility application allows the users to enter production requests into the PDPS production system. The production requests are "exploded" into data processing requests, which may then be inspected within the GUI. This executable contains all the interfaces with the other subsystems.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.

- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtGUI
- EcUtHelp

- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPIPREditor_ReadOnly

/ecs/formal/PDPS/PLS/PLANG/src/PRE_GUI

The production request editor Read only GUI is a utility which provides operations personnel with the capability to view Production Requests (PRs) that are used as part of the planning process. This GUI is constructed with the aid of Builder Xcessory and combined with custom code which interfaces to the planning database for storage of PRs.

This utility application allows the users to view PRs and DPRs but it will not allow the users to delete or save PRs or DPRs using the production request editor Read only version.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.

- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtGUI
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.

- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPIPRGenerator

/ecs/formal/PDPS/PLS/PLANG/src/PRGenerator

Classes

- PIPrActivateRoutine -- The PIPrActivateRoutine class Creates and Activates the Production Requests.
- PIPrGenerator -- The PIPrGenerator class Creates and Activates the Production Requests.
- PIPrGeneratorClient -- The PIPrGeneratorClient class creates the log files of PIPrGenerator .

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.

- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).

- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPIProdStrat

/ecs/formal/PDPS/PLS/PLANG/src/PIGui

The EcPIProdStrat GUI allows the user/operator to have control over the strategies used to determine priorities of the Data Processing Requests that are in a plan. Each plan will have a

particular set of production strategies that are keyed to it, but the same production strategies can be used in multiple plans.

This GUI is developed with the aid of Builder xcessory (BX) and combined with custom code which interfaces to the planning database.

Production Strategies work on two levels. First the operator can update lists of DPR attributes such as PGE Type, Production Request Type and User Type. Each value an attribute can have is tied to a particular priority. Next the operator can change the weight that each attribute's priority is given. A weight is also given to the priority selected by the user who entered the request. In this way, a priority can be calculated for each DPR. There are number of deltas that can be added to the calculated priority based on certain conditions. For example, an operator may select to increase the priority of all jobs that produce data that is needed by other DAACs or that have been waiting in the production queue for more than a day.

Classes

- PIProdStratActive -- This class provides a dialog box for displaying the Active strategies screen as part of the Production Strategy GUI.
- PIProdStratClient -- End of code for accessing the main window. This class was created to make this program a client.
- PIProdStratClusterPriority -- This class provides a dialog box for displaying the Cluster Priorities screen as part of the Production Strategy GUI.
- PIProdStratDelete -- This class provides a dialog box for displaying the Delete screen as part of the Production Strategy GUI.
- PIProdStratExit -- This class provides a dialog box for displaying the Exit screen as part of the Production Strategy GUI.
- PIProdStratMainForm -- This class provides the Main window screen as part of the Production Strategy GUI.
- PIProdStratOpen -- This class provides a dialog box for displaying the open screen as part of the Production Strategy GUI.
- PIProdStratSaveAs -- This class provides a dialog box for displaying the SaveAs screen as part of the Production Strategy GUI.
- UIComponent -- Base class for all C++/Motif UI components.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.

- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.

- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtGUI
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.

- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPIRm

/ecs/formal/PDPS/PLS/PLANG/src/PWB/rm/src

The Resource Model is a background process to manage resources, activities, and plans through the model/view communication architecture and protocols, along with responsibility of interfacing with PDPS database. It constructs all the activity pools through the database interface, and also is responsible for handling the different kinds of manipulation requests from all its maintained pools, and keeping the consistency of pools among registered Noids.

Classes

- PIRmAppl -- Instances of PIRmAppl are resource model applications.
- PIRmCatalog -- An instance of PIRmCatalog is owned by a PIRmSrm client.
- PIRmSigHand -- Instances of PIRmSigHand are signal catchers for a resource model to detect termination signals and save our resource model states.
- PIRmSrm -- Instances of PIRmSrm are resource model editors that know about ECS notions, plan accesses, etc.
- PIRmSrmNoid -- The PIRmSrmNoid is an ipc msgAgent that services resource model requests.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.

- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.

- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- plac -- Activities.
- plcl -- Client resource model (rm) messages, and noid.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- pldb -- Database Interface.
- plip -- Interprocess Communication Agent.
- plmi -- Miscellaneous.
- plpl -- Plans.

- plrc -- Resources.
- plrm -- Resource Model.
- plsc -- The Schedulable resources perform the scheduling of the activities on resources.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPIRpre

/ecs/formal/PDPS/PLS/PLANG/src/RPL/sre

manages the Resource Editor GUI

Classes

- PIRpreAppl -- Instances of PIRpreAppl are derived PIRpreDiAppl's capable of using it's noid to request resources from the resource model.
- PIRpreAutosysWin -- An instance of this class provides a view of the details associated with the selected Autosys resource.
- PIRpreComputerWin -- An instance of this class provides a view of the details associated with the selected computer (host) resource.
- PIRpreConfirmWin -- An instance of the class brings up a confirmation window for deleting the resources.
- PIRpreDateDlg -- An instance of the class brings up a date entry dialog for the MSS resource baseline.
- PIRpreDiskWin -- An instance of this class provides a view of the details associated with the selected disk partition resource.
- PIRpreHardwareWin -- An instance of this class provides a view of the details associated with the selected hardware resource.
- PIRpreNoid -- Instances of PIRpreNoids handle resource planning related client noid messages.
- PIRpreRealComputerWin -- An instance of this class provides a view of the details associated with the selected realComputer resource.
- PIRpreSelBox -- An instance of this provides a message popup box for displaying information to the user.
- PIRpreStringWin -- An instance of this class provides a view of the details associated with the selected string resource.

- PIRpReWin -- This class is Motif Window for controlling the setup and display of the resource planning workbench.
- PIRpReWinAbs -- PIRpReWinAbs establishes protocol for System Resource Editor Windows.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPReLA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.

- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.

- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- plac -- Activities.
- PlCore1 -- This library contains the first half of Planning's core functionality.
- PlCore2 -- This library contains the second half of Planning's core functionality.
- plip -- Interprocess Communication Agent.
- plmi -- Miscellaneous.
- plpl -- Plans.
- PIRpAc -- Manages the scheduling activities.
- PIRpCl -- Manages the resource model clients.
- PIRpDb -- Accesses and modifies the database.
- PIRpDi -- Resource model client display application.
- PIRpRc -- Manages resources.
- PIRpRe -- Manages the Resource Editor GUI.
- PIRpRm -- Manages the resource model.
- PIRpSc -- Manages schedulable resources.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPIRpRm

/ecs/formal/PDPS/PLS/PLANG/src/RPL/srm

manages the resource model

Classes

- PIRpRmAppl -- Instances of PIRpRmAppl are resource model applications.
- PIRpRmCatalog -- An instance of PIRpRmCatalog is owned by a PIRpRmSrm client.

- PIRpRmSigHand -- Instances of PIRpRmSigHand are signal catchers for a resource model to detect termination signals and save our resource model states.
- PIRpRmSrm -- Instances of PIRpRmSrm are resource model editors that know about ecs notions, plan accesses, etc.
- PIRpRmSrmNoid -- The PIRpRmSrmNoid is an ipc msgAgent that services resource model requests.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.

- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.

- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- plac -- Activities.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- plip -- Interprocess Communication Agent.
- plmi -- Miscellaneous.
- plpl -- Plans.
- PIRpAc -- Manages the scheduling activities.
- PIRpCl -- Manages the resource model clients.
- PIRpDb -- Accesses and modifies the database.
- PIRpRc -- Manages resources.
- PIRpRm -- Manages the resource model.
- PIRpSc -- Manages schedulable resources.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPIRpSi

/ecs/formal/PDPS/PLS/PLANG/src/RPL/si

manages the Resource Scheduler GUI

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.

- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.

- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.

- oodce -- Contains DCE classes.
- plac -- Activities.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- plip -- Interprocess Communication Agent.
- plmi -- Miscellaneous.
- plpl -- Plans.
- PIRpAc -- Manages the scheduling activities.
- PIRpCl -- Manages the resource model clients.
- PIRpDb -- Accesses and modifies the database.
- PIRpDi -- Resource model client display application.
- PIRpRc -- Manages resources.
- PIRpRm -- Manages the resource model.
- PIRpSc -- Manages schedulable resources.
- PIRpSi -- Manages the Resource Scheduler GUI
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPIRpTI

/ecs/formal/PDPS/PLS/PLANG/src/RPL/tl

manages the scheduled Resources' Timeline GUI

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.

- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with Science Data Server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.

- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- plac -- Activities.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- plip -- Interprocess Communication Agent.

- plmi -- Miscellaneous.
- plpl -- Plans.
- PIRpAc -- Manages the scheduling activities.
- PIRpCl -- Manages the resource model clients.
- PIRpDb -- Accesses and modifies the database.
- PIRpRc -- Manages resources.
- PIRpSc -- Manages schedulable resources.
- PIRpTl -- manages the scheduled Resources' Timeline GUI
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPISns

/ecs/formal/PDPS/PLS/PLANG/src/PWB/ns/make

A name server for the Planning Workbench and The Resource Planning GUI.

process EcPISubMgr

/ecs/formal/PDPS/PLS/PLANG/src/SubsMgr

The Subscription Manager (EcPISubMgr) is used to manage the receipt of subscription notifications from the Data Server.

These notifications inform Planning of the arrival of input data required by a given PGE through Universal References to the data which is stored on the Data Server. The Subscription Manager updates data availability information within the PDPS database based on this notification, and releases jobs defined by Data Processing Request to the Processing Subsystem when all input data for a job becomes available. The Subscription Manager can also resubmit a subscription when a cancellation notification for that subscription is received, if the PDPS database indicate this data is still in need.

The Subscription Manager also has a "delayed query" feature which allows it to set up a timer for a query if the data is not available at the moment. Then when the timer goes off, the tool will query the Data Server for the data. The Subscription Manager can also support various production rules.

Classes

- PINotification
- PISubscriptionManager -- This class is the main application class for the subscription manager.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.

- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.

- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPISubsEdit

/ecs/formal/PDPS/PLS/PLANG/src/SubsEdit

The Subscription Editor is an PDPS/PLS tool for submitting the subscriptions to the Subscription Server.

The Subscription Editor(EcPISubsEdit) can submit subscriptions for the Subscription Manager or a general user who would like to be notified through e-mail. This tool looks for the advertisement of subscribable events through the Advertisement Server and then submit the subscription for that event to the Subscription Server. This is a command-line tool used as a backup for automatic submission of subscription by the Production Request Editor.

Classes

- PISubsEditProc -- This is the only class for program Subscription Editor, and it carries out all the required functionalities.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.

- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and a red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.

- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.

- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPITI

/ecs/formal/PDPS/PLS/PLANG/src/PWB/tl/src

The Timeline GUI is a tool to visualize the schedule of pre-selected resources for different kinds of activities which will eventually be sent to DPS for processing.

The appearance of a visualized plan can be customized by users through changing the time range and selecting the zoom options. Accordingly the configuration can be saved for future reuse. And also the colors of the activities lined-up for each resource can be customized for distinguishing the different PRs and Ground Events. The Timeline GUI is also capable of buffering customized plans, which enables users to quickly switch from one plan to another.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.

- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and shared versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.

- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- plac -- Activities.
- plcl -- Client resource model (rm) messages, and noid.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- pldb -- Database Interface.
- pldi -- Common Displayable (motif) components.
- plip -- Interprocess Communication Agent.
- plmi -- Miscellaneous.
- plpl -- Plans.
- plrc -- Resources.
- plrm -- Resource Model.
- plsc -- The Schedulable resources perform the scheduling of the activities on resources.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- pltl -- This library contains classes responsible for building the Timeline application which helps visualize the scheduled activities in a particular plan.

- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcPIWb

/ecs/formal/PDPS/PLS/PLANG/src/PWB/wb/src

The Planning Workbench GUI is a utility which allows the user/operator to create, manipulate, schedule, and finally activate a plan, based on the available Production Requests, and system Resources. A list of plans can be maintained at the same time. One can open, save, save as, and delete an individual plan from the PDPS database through this GUI. Production Requests, along with Ground Events, can be scheduled through it based on the available system resources. And finally a scheduled plan can be activated, which means sending the planned jobs to DPS for processing through Job Management Server. However only one active plan is allowed at one time. In addition, through this interface, a plan can be baselined and its priority can be changed too.

Classes

- PIWbAppl -- Instances of PIWbAppl are derived PIDiAppl's capable of using it's noid to request resources, plan names and activities from the resource model.
- PIWbCatalog -- The PIWbCatalog is a local process update catalog for updating the Scheduling System Interface pools.
- PIWbMotifNotifier -- Instances of PIWbMotifNotifier are Workbench specific Motif Event Notifiers which override the startPoll behavior.
- PIWbNoid -- Instances of PIWbNoids handle planning workbench related client noid messages.
- PIWbOppGen -- Instances of PIWbOppGen are opportunity generators for the production planning workbench.
- PIWbPlanWin -- A PIWbPlanWin is a dialog which allows selection of a plan.
- PIWbPriorityWin -- A PIWbPriorityWin is a window which allows selection of a priority production requests.
- PIWbQuestionWin -- Instances of PIWbQuestionWin are popup windows for presenting questions to user/operator, and taking answers.
- PIWbScheduler -- The PIWbScheduler is the scheduler for the production planning workbench.
- PIWbTimer -- Instances of PIWbTimer are timers used for scheduling timeouts and control.
- PIWbWin -- This class represents the main Motif Window for the production planning workbench.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.

- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.

- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- plac -- Activities.
- plcl -- Client resource model (rm) messages, and noid.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- pldb -- Database Interface.
- pldi -- Common Displayable (motif) components.
- plip -- Interprocess Communication Agent.
- plmi -- Miscellaneous.
- plpl -- Plans.
- plrc -- Resources.
- plrm -- Resource Model.
- plsc -- The Schedulable resources perform the scheduling of the activities on resources.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- plwb -- Planning Workbench.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

Subsystem DPS

The Data Processing Subsystem (DPS) executes Data Processing actions and manages the data processing resources at a provider site.

process EcDpAtBadFunc

/ecs/formal/PDPS/DPS/SSIT/src/PRO

This program is the command-line version of the Prohibited Function Checker tool. It allows the user to specify a source code file and checks for any prohibited functions within that file. The Prohibited Function Checker Tool (GUI or command line) uses the files named "prohibitedFunctions" (with the language appended) to determine the list of prohibited functions for a given source code file. It parses the source file, and compares non-commented code against

the prohibited function files. The output file from the command-line version of the Prohibited Function Checker Tool is placed in the destination specified in the Process Control File (PCF) for SSIT. To learn how to run the Prohibited Function Checker, see the file DpAtMgr_pro.html in ClearCase under SSIT/src/PRO, or on a machine where SSIT is installed under /usr/ecs//CUSTOM/WWW/DPS.

Classes

- DpAtMgrDirectory -- This class manages directory information.
- DpAtMgrProhibited -- This class manages prohibited function data.
- DpAtMgrSource -- This class holds parsed source code information.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReLA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.

- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfeos
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- PGSTK
- Sock

process EcDpAtBadFuncGui

`/ecs/formal/PDPS/DPS/SSIT/src/PRO`

This program is the graphical interface version of the Prohibited Function Checker tool. It allows the user to select one or more source code files and performs a check for any prohibited functions within those file(s). The Prohibited Function Checker Tool (GUI or command line) uses the files named "prohibitedFunctions" (with the language appended) to determine the list of prohibited functions for a given source code file. It parses the source file, and compares non-commented code against the prohibited function files. The output from the GUI version of the Prohibited Function Checker Tool appears in a window display and allows the user to cycle through any prohibited functions found. This output may also be written to a file. To learn how to run the Prohibited Function Checker, see the file `DpAtMgr_pro.html` in ClearCase under `SSIT/src/PRO`, or on a machine where SSIT is installed under `/usr/ecs//CUSTOM/WWW/DPS`.

Classes

- DpAtMgrDirectory -- This class manages directory information.
- DpAtMgrProhibited -- This class manages prohibited function data.
- DpAtMgrProhibitedFunctionGui -- This class defines the SSIT Prohibited Function GUI.
- DpAtMgrSource -- This class holds parsed source code information.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReLA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.

- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfeos
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- PGSTK
- Sock

process EcDpAtBinDiffGui

/ecs/formal/PDPS/DPS/SSIT/src/DIF

The Binary Difference Assistant GUI provides the SSIT operator with a graphical interface to create programs in C, FORTRAN, IDL and shell script for determining differences between binary files. Templates for C, FORTRAN, IDL and shell scripts are provided with the program and are accessible through the interface. The GUI allows the user to create and compile programs to compare binary files of various formats. To learn how to run the Binary Difference Assistant GUI, see the file DpAtMgr_bidiff.html in ClearCase under SSIT/src/DIF, or on a machine where SSIT is installed under /usr/ecs//CUSTOM/WWW/DPS.

Classes

- DpAtMgrBinDiffGuiEnterUniqueIDFORM -- Created by Builder Xcessory Version 5.0.8.
- DpAtMgrBinDiffGuihelpFORM -- This class defines the form for the help message on the SSIT Bin Diff GUI.
- DpAtMgrBinDiffGuiMainBBoard -- This class defines the Bulliten Board for the SSIT Bin Diff GUI.
- DpAtMgrBinDiffGuiScrollWindow -- This class defines the scroll bar for the SSIT Bin Diff GUI.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.

- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfs
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- PGSTK
- Sock

process EcDpAtCheckODL

/ecs/formal/PDPS/DPS/SSIT/src/Metadata

The Check ODL tool is a program that takes in a PGE name, version and Profile ID, and checks the ODL for that PGE for errors. The Check ODL Tool takes in information about the PGE: name, version and Profile ID, and searches the directories specified in the configuration file for ODL location, for PGE, ESDT and Production Rule specific ODL files. If the files are found they are are parsed and any errors displayed on the screen. To learn how to run the Check ODL tool, see the file DpAtMgr_checkodl.html in ClearCase under SSIT/src/Metadata, or on a machine where SSIT is installed under /usr/ecs//CUSTOM/WWW/DPS.

Classes

- DpAtDatabase -- This class's provides methods to update the PDPS database with PGE, ESDT and Production Rule operational and science metadata.
- DpAtOperationalMd -- This class's methods are callbacks for the PDPS/SSIT Database Update GUI, which updates the database with PGE operational metadata.
- DpAtScienceMd -- This class provides methods to read and validate all types of Science Metadata (ODL), PGE ODL, ESDT ODL and the various types of specific Production Rule ODL files.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.

- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.

- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfeos
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.

- PGSTK
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpAtCheckPCF

/ecs/formal/PDPS/DPS/SSIT/src/PCF

The PCF Checker tool is a GUI that allows the user to select a PGE's Process Control File (PCF) and have it checked for syntax errors. Any errors found are displayed to the screen or can be written to a file. The PCF Checker uses a Toolkit program to actually perform the check of the user-selected PCF. The SSIT portion of the PCF Checker is the GUI interface and the ability for the user to select files to be "checked" and to have the output sent to a window or a file. To learn how to run the PCF Checker, see the file DpAtMgr_pcf.html in ClearCase under SSIT/src/PCF, or on a machine where SSIT is installed under /usr/ecs//CUSTOM/WWW/DPS.

Classes

- DpAtMgrCheckPcfInputFORM -- This class provides the definition for the input window of the SSIT PCF Checker GUI.
- DpAtMgrCheckPcfOutputFORM -- This class defines the output window of the SSIT PCF Checker GUI.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.

- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfs
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.

- PGSTK
- Sock

process EcDpAtCreateODLTemplate

/ecs/formal/PDPS/DPS/SSIT/src/Metadata

The Create ODL Template tool is a program that takes as an argument a Process Control File (PCF) and generates a template version of the PGE ODL file. The Create ODL Template Tool takes in information about the PGE: name, version and Profile ID, along with the location of the PCF and where the output PGE ODL template file is to be placed. It then takes the inputs, outputs and runtime parameter information from the PCF and puts it in ODL format, leaving blank such things as ESDT names and versions, and scheduling information, anything that cannot be determined from the PCF. The user must then edit the produced template file to create a valid PGE ODL file. To learn how to run the Create ODL Template tool, see the file DpAtMgr_createodl.html in ClearCase under SSIT/src/Metadata, or on a machine where SSIT is installed under /usr/ecs//CUSTOM/WWW/DPS.

Classes

- DpAtDatabase -- This class's provides methods to update the PDPS database with PGE, ESDT and Production Rule operational and science metadata.
- DpAtOperationalMd -- This class's methods are callbacks for the PDPS/SSIT Database Update GUI, which updates the database with PGE operational metadata.
- DpAtScienceMd -- This class provides methods to read and validate all types of Science Metadata (ODL), PGE ODL, ESDT ODL and the various types of specific Production Rule ODL files.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.

- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.

- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfeos
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PGSTK
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.

- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpAtGetMCF

/ecs/formal/PDPS/DPS/SSIT/src/Dsrv

The Get MCF tool is a program that acquires a Metadata Control File (MCF) from the Data Server for a given ESDT and version. The Get MCF Tool takes in information about the ESDT for which the MCF is for, it's name and version, along with the directory where the MCF is to be placed. The tool then contacts the Data Server and requests the MCF for the specified ESDT. The MCF is placed in the directory specified by the caller. To learn how to run the Insert Exe Tar File tool, see the file DpAtMgr_getMCF.html in ClearCase under SSIT/src/Dsrv, or on a machine where SSIT is installed under /usr/ecs//CUSTOM/WWW/DPS.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DpAtDsrv -- This library holds the object (DpAtDsrv) through which SSIT calls to the Data Server are made.
- DpAtMetadata -- This library holds the objects (DpAtDatabase and DpAtOperationalMd) through which most SSIT PDPS database updates are performed.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with Science Data Server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.

- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and a red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).

- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfeos
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PGSTK
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpAtInsertExeTarFile

/ecs/formal/PDPS/DPS/SSIT/src/Dsrv

The Exe Tar File tool is a program that inserts PGE Tar files(the executable and any required Toolkit message files) into the Data Server. The Insert Exe Tar File Tool takes in information about the tar file and the PGE it is for, the PGE name and Science Software version, the name of executable within the tar file, and the name and location of the tar file and its metadata. It then checks the information, verifying that the PGE name and Science Software version exist in the PDPS database, that the file and metadata exist on the local disk and that the PGE executable exists in the tar file. If all information is valid, the tool contacts the Data Server and inserts the file. If the insert succeeds, the entry for the PGE Executable in the PDPS database (already created by another SSIT tool) is updated with the UR returned by Data Server. The PGE can then be acquired later when it is scheduled to run. To learn how to run the Insert Exe Tar File tool, see the file DpAtMgr_exetar.html in ClearCase under SSIT/src/Dsrv, or on a machine where SSIT is installed under /usr/ecs//CUSTOM/WWW/DPS.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DpAtDsrv -- This library holds the object (DpAtDsrv) through which SSIT calls to the Data Server are made.
- DpAtMetadata -- This library holds the objects (DpAtDatabase and DpAtOperationalMd) through which most SSIT PDPS database updates are performed.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.

- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).

- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfeos
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PGSTK
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpAtInsertStaticFile

/ecs/formal/PDPS/DPS/SSIT/src/Dsrv

The Insert Static File tool is a program that inserts Static Files (files that do not usually change from one run of the PGE to the next) into the Data Server. The Insert Static File Tool takes in information about the file, its ESDT name and version, the science group its associated with (how static files are linked with PGEs), the name and location of the file and its metadata. It then checks the information, verifying that the ESDT name and version, along with the science group exist in the PDPS database, and that the file and metadata exist on the local disk. If all information is validated, it contacts the Data Server and inserts the file. If the insert succeeds, a granule entry for the file will be created in the PDPS database. The file can then be acquired later when a PGE that requires it as input is scheduled to run. To learn how to run the Insert Static File tool, see the file `DpAtMgr_static.html` in ClearCase under `SSIT/src/Dsrv`, or on a machine where SSIT is installed under `/usr/ecs//CUSTOM/WWW/DPS`.

Libraries (static)

- `agentevent` -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- `ccs` -- Define class methods and dbtools errorhandling function.
- `CsEmMailRelA` -- This Library is used for the emails using sendmail utility.
- `CsFtFTPReIA` -- This library provides a Wrapper for FTP.
- `CsFtFTPSchedObj` -- This library provides functions to use FTP at a scheduled time by the User.
- `DpAt` -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- `DpAtDsrv` -- This library holds the object (`DpAtDsrv`) through which SSIT calls to the Data Server are made.
- `DpAtMetadata` -- This library holds the objects (`DpAtDatabase` and `DpAtOperationalMd`) through which most SSIT PDPS database updates are performed.
- `DpDeletionClient` -- The library containing the client side operations to issue requests to the deletion server.
- `DpPrDbPf` -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- `DpPrDM` -- This library supplies utility operations to manage data within DPS.
- `DpPrDssIF` -- This library contains the helper object for PDPS to interact with science data server.
- `DpPrEM` -- This library supplies utility operations to manage PGE execution within PRONG.
- `DpPrException` -- This library provides APIs to catch and handle signals.
- `DpPrJM` -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- `DpPrRM` -- This library supplies utility operations to manage computer resources for PDPS.
- `DpPrTools` -- This library contains global utility functions.

- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).

- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfeos
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PGSTK
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpAtInsertTestFile

/ecs/formal/PDPS/DPS/SSIT/src/Dsrv

The Insert Test Dynamic File tool is a program that inserts Dynamic Files (files based on time or space that are different from one run of the PGE to the next) into the Data Server. The Insert Test Dynamic File Tool takes in information about the file, its ESDT name and version and then inserts it into the Data Server. The file can then be acquired as an input to a PGE. This tool is mostly used for test purposes (hence the "Test" in the title). Files will be inserted by Ingest or by DPS in the operational system, so that the Insert Test Dynamic Tool will not have to be used. To learn how to run the Insert Static File tool, see the file DpAtMgr_dynamic.html in ClearCase under SSIT/src/Dsrv, or on a machine where SSIT is installed under /usr/ecs//CUSTOM/WWW/DPS.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DpAtDsrv -- This library holds the object (DpAtDsrv) through which SSIT calls to the Data Server are made.
- DpAtMetadata -- This library holds the objects (DpAtDatabase and DpAtOperationalMd) through which most SSIT PDPS database updates are performed.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.

- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and shared versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.

- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfs
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PGSTK
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpAtMgr

/ecs/formal/PDPS/DPS/SSIT/src/MGR

The SSIT Manager GUI is the primary interface to all SSIT tools. It is a graphic interface with an SSIT Checklist and menu choices for other SSIT programs. There is no web page for the SSIT Manager itself, but under the Help menu there are pages for most other SSIT functions, including one on how to use the checklist.

Classes

- DpAtMgrLog -- This class manages SSIT Manager log information.
- DpAtMgrLogGuiMainWindow -- This class defines the "Main" window for the SSIT MGR GUI.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.

- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfs
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- PGSTK
- Sock

process EcDpAtMgrLogDump

/ecs/formal/PDPS/DPS/SSIT/src/MGR

The SSIT Manager Log Dump tool allows a user to dump the SSIT Manager GUI checklist entries to a file for documentation purposes. The checklist entries are listed in the upper window of the SSIT Manager GUI and any comments about those entries are displayed in the lower window of the same GUI. The checklist is stored using the UNIX ndbm flat-file database utility, so the files that make up the checklist are not man-readable. The SSIT Manager Log Dump tool allows the user to dump the checklist information to an ASCII file that can be read, printed or stored to show the steps of SSIT that had been completed. To learn how to run the SSIT Manager Log Dump Tool, see the file DpAtMgr_log.html in ClearCase under SSIT/src/MGR, or on a machine where SSIT is installed under /usr/ecs//CUSTOM/WWW/DPS.

Classes

- DpAtMgrLog -- This class manages SSIT Manager log information.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.

- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfs
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- PGSTK
- Sock

process EcDpAtOpDbGui

/ecs/formal/PDPS/DPS/SSIT/src/MdGui

The SSIT Operational Metadata GUI is a graphic interface that allows the user to enter and update information about the PGE, including performance and memory requirements and Toolkit initialization strings. It also provides a mechanism to delete a PGE and to view the ODL for a PGE and any ESDTs that it uses. To learn how to run the SSIT Operational Metadata GUI, see the file DpAtMgr_opnlupdate.html in ClearCase under SSIT/src/MdGui, or on a machine where SSIT is installed under /usr/ecs//CUSTOM/WWW/DPS.

Classes

- DpAtOpDbMW -- This class defines the SSIT Operational Metadata GUI.
- DpAtOpDbTextDisMW -- This class defines a pop-up text window for the SSIT Operational Metadata GUI.
- UIComponent -- Base class for all C++/Motif UI components.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.

- DpAtMetadata -- This library holds the objects (DpAtDatabase and DpAtOperationalMd) through which most SSIT PDPS database updates are performed.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.

- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfeos
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.

- oodce -- Contains DCE classes.
- PGSTK
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PIGUIError -- This library contains the objects needed for SSIT and QA Monitor GUIs to display error messages.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpAtPrologs

/ecs/formal/PDPS/DPS/SSIT/src/PRO

The Prolog Extractor takes a source code file as input and extracts from it the comment prolog and places this prolog in a separate file. The Prolog Extractor expects the prolog to be in a very specific format. See the html page mentioned below for where that format is specified. To learn how to run the Prolog Extractor, see the file DpAtMgr_prolog.html in ClearCase under SSIT/src/PRO, or on a machine where SSIT is installed under /usr/ecs//CUSTOM/WWW/DPS.

Classes

- DpAtMgrDirectory -- This class manages directory information.
- DpAtMgrSource -- This class holds parsed source code information.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.

- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfs
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- PGSTK
- Sock

process EcDpAtRegisterPGE

/ecs/formal/PDPS/DPS/SSIT/src/Metadata

The Register PGE tool is a program that takes in a PGE name, version and Profile ID, and parses the ODL for that PGE. If no errors are found it stores the information in the PDPS database. The Register PGE Tool takes in information about the PGE: name, version and Profile ID, and searches the directories specified in the configuration file for ODL location, for PGE, ESDT and Production Rule specific ODL files. If the files are found they are are parsed and any errors displayed on the screen. If no errors are found, the information is stored in the PDPS database. To learn how to run the Register PGE tool, see the file DpAtMgr_sciupdate.html in ClearCase under SSIT/src/Metadata, or on a machine where SSIT is installed under /usr/ecs//CUSTOM/WWW/DPS.

Classes

- DpAtDatabase -- This class's provides methods to update the PDPS database with PGE, ESDT and Production Rule operational and science metadata.
- DpAtOperationalMd -- This class's methods are callbacks for the PDPS/SSIT Database Update GUI, which updates the database with PGE operational metadata.
- DpAtScienceMd -- This class provides methods to read and validate all types of Science Metadata (ODL), PGE ODL, ESDT ODL and the various types of specific Production Rule ODL files.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.

- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.

- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfeos
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PGSTK
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpAtSSAPGui

/ecs/formal/PDPS/DPS/SSIT/src/SsapGui

A GUI that allows the user to create, delete, and update Science Software Archive Packages (SSAPs).

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DpAtDsrv -- This library holds the object (DpAtDsrv) through which SSIT calls to the Data Server are made.
- DpAtSSAP -- This library contains the objects needed for the SSAP Editor application.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.

- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtGUI
- EcUtHelp

- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfs
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PGSTK
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpAtStageDAP

/ecs/formal/PDPS/DPS/SSIT/src/Dsrv

The Stage DAP tool is a program that acquires a granule(usually a DAP, but the tool will acquire anything) given the location of a flat file with a UR for that granule and a location where the granule is to be staged. The Stage DAP tool takes in a file and parses it for the Universal Reference (UR) of a granule. It then contacts the Data Server and gets the granule (along with its metadata) copied to the comand-line specified directory. The tool will check to make sure that the directory exists and is writeable. To learn how to run the Stage DAP, see the file

DpAtMgr_dap.html in ClearCase under SSIT/src/Dsrv, or on a machine where SSIT is installed under /usr/ecs//CUSTOM/WWW/DPS.

Classes

- DpAtDsrv -- This class's methods are the interface between the SSIT environment and the Data Server.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPReLA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpAt -- This DpAt library holds the SSIT classes that are called by various SSIT tools and programs.
- DpAtDsrv -- This library holds the object (DpAtDsrv) through which SSIT calls to the Data Server are made.
- DpAtMetadata -- This library holds the objects (DpAtDatabase and DpAtOperationalMd) through which most SSIT PDPS database updates are performed.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.

- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and shared versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.

- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- hdfs
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PGSTK
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpPrAm1EdosAncillary

/ecs/formal/PDPS/DPS/PRONG/src/PreProcess

This preprocesses EDOS L0 data into SDP Toolkit formatted attitude and ephemeris data files.

Classes

- DpPrAm1AncillaryPacket -- Data type representing an EOS-AM1 telemetry packet having an APID = 4 This type of packet contains ephemeris and attitude data for the AM1 spacecraft.
- DpPrAncPacketProcessor -- This class coordinates quality checking and the generation of HDF and native data sets for ephemeris and attitude data from the AM1 ancillary packets.
- DpPrAncQaParameters -- QA Parameters used for EOS-AM1 ephemeris and attitude preprocessing.
- DpPrCcsdsPacket -- This is an abstract class for telemetry packets that conform to the Consultive Committee for Space Data Systems standard for the Version 1 Telemetry Source Packet format.
- DpPrNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrPcfParameters -- Retrieves Runtime parameters from the current PCF.
- DpPrPlatformQualityFlags -- Handles the data quality flags for ephemeris and attitude preprocessing for the EOS-AM1 spacecraft.

Templates

- DpPrPacketVector -- DpPrPacketVector interface.

Libraries (static)

- PGSTK

process EcDpPrAm1EdosEphemerisRepair

/ecs/formal/PDPS/DPS/PRONG/src/PreProcess

This process searches a Toolkit ephemeris file for short data gaps and fills the gap with interpolated data.

Classes

- DpPrDataGaps -- This class represents the time-ordered set of reformatted ephemeris records, parsed from the TRMM L0 Ancillary Dataset ephemeris packet, undergoing gap filling.
- DpPrGapProcessingSet -- This class represents the set of ephemeris datasets involved in data gap filling.
- DpPrNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrPcfParameters -- Retrieves Runtime parameters from the current PCF.

Libraries (static)

- PGSTK

process EcDpPrAm1FddAttitudeDPREP_PGE

/ecs/formal/PDPS/DPS/PRONG/src/PreProcess

This program preprocesses FDD definitive attitude data into SDP Toolkit formatted attitude data files.

Classes

- DpPrAttitudeRecord -- Data type representing an FDD definitive attitude record.
- DpPrAttRecordVector -- DpPrAttRecordVector interface .
- DpPrNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrPcfParameters -- Retrieves Runtime parameters from the current PCF.
- DpPrPlatformQualityFlags -- Handles the data quality flags for ephemeris and attitude preprocessing for the EOS-AM1 spacecraft.
- DpPrQaParameters -- Parameters used for EOS-AM1 attitude preprocessing.
- DpPrRecordProcessor -- This class coordinates quality checking and the generation of HDF and native data sets for ephemeris and attitude data from the AM1 ancillary records.

Libraries (static)

- PGSTK

process EcDpPrAm1FddEphemerisDPREP_PGE

/ecs/formal/PDPS/DPS/PRONG/src/PreProcess

This program preprocesses FDD ephemeris data into SDP Toolkit formatted ephemeris files.

Classes

- DpPrEphCollectionHeader -- This class contains information pertaining to the header information for the HDF and native toolkit files.
- DpPrEphIOManager -- This class manages the many file pointers necessary for DPREP.
- DpPrEphMetadata -- This class represents the ephemeris metadata that are associated with the native and HDF hardware format ephemeris data.
- DpPrEphNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrEphPCFManager -- This class reads in and stores a PCF file for use by the PGE.
- DpPrEphRec -- A reformatted ephemeris record parsed from a single FDF Ephemeris Dataset EPHEM format record.
- DpPrFddDataset -- This class encapsulates the FDD dataset.
- DpPrNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrPcfParameters -- Retrieves Runtime parameters from the current PCF.

Libraries (static)

- PGSTK

process EcDpPrAm1ToolkitToHdf

/ecs/formal/PDPS/DPS/PRONG/src/PreProcess

This program reads a Toolkit ephemeris file and writes an HDF format file.

Classes

- DpPrNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrPcfParameters -- Retrieves Runtime parameters from the current PCF.

Libraries (static)

- PGSTK

process EcDpPrAuraAttitudeDPREP_PGE

/ecs/formal/PDPS/DPS/PRONG/src/PreProcess

Classes

- DpPrAttitudeRecord -- Data type representing an FDD definitive attitude record.
- DpPrAttRecordVector -- DpPrAttRecordVector interface.
- DpPrNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrPcfParameters -- Retrieves Runtime parameters from the current PCF.
- DpPrPlatformQualityFlags -- Handles the data quality flags for ephemeris and attitude preprocessing for the EOS-AM1 spacecraft.
- DpPrQaParameters -- Parameters used for EOS-AM1 attitude preprocessing.
- DpPrRecordProcessor -- This class coordinates quality checking and the generation of HDF and native data sets for ephemeris and attitude data from the AM1 ancillary records.

Libraries (static)

- PGSTK

process EcDpPrAuraEphemerisDPREP_PGE

/ecs/formal/PDPS/DPS/PRONG/src/PreProcess

Classes

- DpPrEphCollectionHeader -- This class contains information pertaining to the header information for the HDF and native toolkit files.
- DpPrEphIOManager -- This class manages the many file pointers necessary for DPREP.

- DpPrEphMetadata -- This class represents the ephemeris metadata that are associated with the native and HDF hardware format ephemeris data.
- DpPrEphNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrEphPCFManager -- This class reads in and stores a PCF file for use by the PGE.
- DpPrEphRec -- A reformatted ephemeris record parsed from a single FDF Ephemeris Dataset EPHEM format record.
- DpPrFddDataset -- This class encapsulates the FDD dataset.
- DpPrNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrPcfParameters -- Retrieves Runtime parameters from the current PCF.

Libraries (static)

- PGSTK

process EcDpPrDeletion

/ecs/formal/PDPS/DPS/PRONG/src/DataMgmt/DeletionPF

This DCE server accepts delete requests from clients and either issues delete requests to science data server upon expiration of the timer or deletes the specified granules from the disk and the PDPS database.

The server fulfills a function to remove interim granules after a specified period of time. It handles both long and short delete request in exactly the same manner, and has a single time checker thread that sleeps for the most part, but wakes periodically to check to see if a granule's time has expired. The destaging process is the only client to the deletion server, as that is where granules are checked to see if they are interim, and if so, the DPR checks to see if it needs to issue a delete request.

The server also fulfills a function to remove granules when the Production Request Editor is deleting Production Requests. When a Production Request is deleted, all granules associated with the underlying DPRs are deleted (excluding some specific types of data). Deletion Server accepts a list of such associated granules and removes them from the PDPS database and the disks on the science processors.

Classes

- DpDeletion -- This class is a dummy definition for the interface methods for Deletion Server.
- DpDeletionProxy -- Converts the data types into the required OODCE formats before calling the underlying OODCE client-side function and converts the return DCE data back to what's required.
- DpDeletionServer -- Deletion Server functionality.

Templates

- DpDeletionTableIf -- This class defines the Deletion Server interface to the PDPS database.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.

- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.

- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpPrDeletionClient

/ecs/formal/PDPS/DPS/PRONG/src/DataMgmt/DeletionPF

This is a test utility client to unit test the functionality encapsulated within the Deletion Server.

This executable requires some database setup (provided in ur_insert.sql) before running. It issues a delete request to deletion server, which will then set the absolute deletion time in the PDPS database. When the time arrives, the server will attempt to issue a delete request to science data server. This executable it thus used mostly for unit test purposes.

Classes

- DpDeletionProxy -- Converts the data types into the required OODCE formats before calling the underlying OODCE client-side function and converts the return DCE data back to what's required.
- DpPrDeletionClientPF -- This class inherits EcPfClient class to issue requests to the deletion server.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.

- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
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- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.

- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
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- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PlCore1 -- This library contains the first half of Planning's core functionality.
- PlCore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PlCore2 -- This library contains the second half of Planning's core functionality.

- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpPrDumpAttitudeDPREP

/ecs/formal/PDPS/DPS/PRONG/src/PreProcess

This program extracts Toolkit and HDF attitude files produced by AM-1 DPREP for analysis.

Classes

- DpPrNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrPcfParameters -- Retrieves Runtime parameters from the current PCF.

Libraries (static)

- PGSTK

process EcDpPrDumpEphemerisDPREP

/ecs/formal/PDPS/DPS/PRONG/src/PreProcess

This program extracts Toolkit and HDF ephemeris files produced by AM-1 DPREP for analysis.

Classes

- DpPrNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrPcfParameters -- Retrieves Runtime parameters from the current PCF.

Libraries (static)

- PGSTK

process EcDpPrEM

/ecs/formal/PDPS/DPS/PRONG/src/ExecMgmt

This program is responsible to manage pge execution.

This program has various command line options. Option "-alloc" is exercised by the allocation job (the first job in the job box in autosys, the one that ends with 'A'). This option will allocate the necessary computer resources to run the pge, and stage the pge executable to the machine where the pge is scheduled to run (if needed).

Option "-prep" is exercised by the Pre-Processing job (the third job in the job box in autosys, the one that ends with 'P'). This option creates the Process Control File (PCF), (See Toolkit's user manual for more information on PCF) obtains the MCF (Metadata Control File) from Science data server for each expected output of the pge. Also, other necessary files used by the PGE Wrapper executable are created. This job is run right before the pge is executed.

Option "-post" is exercised by the Post-Processing job (the fifth job in the job box in autosys, the one that ends with 'p'). This job is executed right after the pge is executed. It checks for the success/failure of the pge execution, records pge's resource usage information in the database. If the pge succeeds, then it creates production history file (which has information on the data lineage). If the pge fails, it creates a tar file which consists of pge's logs and pge's core file. This file is then archived through science data server.

Option "-dealloc" is the last job in the job box in autosys. (This ends with 'D'). This job is responsible for deallocating computer resources allocated and destroying any temporary directories/files created (such as the runtime directory). Also notifies job management server that the job box is complete and can be removed from autosys.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.

- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and shared versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.

- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpPrGE

/ecs/formal/PDPS/DPS/PRONG/src/ExecMgmt

This executable is the ground event executable.

A ground event takes a specified computer resource offline (unavailable for pges) for a specified period of time. This is accomplished by marking in the database that the resource is offline, then executing a system sleep command for the specified duration, and updating the database to reflect that the specified resource is now available.

This program has signal handling functionality built in, so that if a ground event is cancelled, then the database is updated to mark the resources online before exiting.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.

- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.

- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpPrJobMgmt

/ecs/formal/PDPS/DPS/PRONG/src/JobMgmtPF

The Job Management Server is an ECS Managed Server program that provides services to create, cancel and release production and ground event jobs. This program accepts messages from the Job Management Client Proxy routines and provides the following services: CreateDprJob - Creates a job directly in AutoSys, or on a queue if its data is not available. ReleaseDprJob - Sets the state of a job to "Released" -- it is then eligible to be placed in AutoSys by the server if there is room. CreateGEvntJob - Creates a ground event job directly in AutoSys. CancelGEvntJob - Cancels a ground event job. GetDprJobStatus - Gets the status of a job - started, success, failed, etc. CancelDprJob - Cancels a job - either removes it from the queue or removes it from AutoSys if it is there, with database cleanup. FreeAutoSys - Called whenever it is necessary to check the queue for jobs to put into Autosys -- this happens when a job is released, canceled, created or a job completes.

Classes

- MyManagedServer -- This is an example how an application can use Process Frame Work to create a managed server.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.

- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.

- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PlCore1 -- This library contains the first half of Planning's core functionality.
- PlCore2 -- This library contains the second half of Planning's core functionality.

- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock

process EcDpPrJobMgmtClient

/ecs/formal/PDPS/DPS/PRONG/src/JobMgmtPF

The Job Management Client program is used as a test tool to test the operation of the Job Management Server, and is capable of creating, cancelling and releasing jobs. Normally, these services are requested by the Planning subsystem Production Request Editor and Planning Workbench.

This program uses routines from the Job Management Client Proxy Library.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.

- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and shared versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.

- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpPrPm1AttitudeDPREP_PGE

/ecs/formal/PDPS/DPS/PRONG/src/PreProcess

This program preprocesses FDD definitive attitude data into SDP Toolkit formatted attitude data files.

Classes

- DpPrAttitudeRecord -- Data type representing an FDD definitive attitude record.
- DpPrAttRecordVector -- DpPrAttRecordVector interface .
- DpPrNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.

- DpPrPcfParameters -- Retrieves Runtime parameters from the current PCF.
- DpPrPlatformQualityFlags -- Handles the data quality flags for ephemeris and attitude preprocessing for the EOS-AM1 spacecraft.
- DpPrQaParameters -- Parameters used for EOS-AM1 attitude preprocessing.
- DpPrRecordProcessor -- This class coordinates quality checking and the generation of HDF and native data sets for ephemeris and attitude data from the AM1 ancillary records.

Libraries (static)

- PGSTK

process EcDpPrPm1FddEphemerisDPREP_PGE

/ecs/formal/PDPS/DPS/PRONG/src/PreProcess

This program preprocesses FDD ephemeris data into SDP Toolkit formatted ephemeris data files.

Classes

- DpPrEphCollectionHeader -- This class contains information pertaining to the header information for the HDF and native toolkit files.
- DpPrEphIOManager -- This class manages the many file pointers necessary for DPREP.
- DpPrEphMetadata -- This class represents the ephemeris metadata that are associated with the native and HDF hardware format ephemeris data.
- DpPrEphNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrEphPCFManager -- This class reads in and stores a PCF file for use by the PGE.
- DpPrEphRec -- A reformatted ephemeris record parsed from a single FDF Ephemeris Dataset EPHEM format record.
- DpPrFddDataset -- This class encapsulates the FDD dataset.
- DpPrNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrPcfParameters -- Retrieves Runtime parameters from the current PCF.

Libraries (static)

- PGSTK

process EcDpPrPm1GbadMetadataDPREP_PGE

/ecs/formal/PDPS/DPS/PRONG/src/PreProcess

Classes

- DpPrNodeCrossings -- This class handles the data for each node crossing encountered in the dataset currently being processed as well as the next dataset in the timeline.
- DpPrPcfParameters -- Retrieves Runtime parameters from the current PCF.

Libraries (static)

- PGSTK

process EcDpPrQaMonitorGUI

/ecs/formal/PDPS/DPS/PRONG/src/QaMonitorGUI

This is the name of the binary file for the QA Monitor GUI application. To invoke the QA Monitor GUI application requires five arguments: a) program name, b) the word "ConfigFile", c) the fullpathname of the configuration file which contains parameter names and values needed to run the QA Monitor GUI, the word "ecs_mode", and e) the mode the application will run in (i.e. operational, test, etc.).

Classes

- DpPrQaMmainWindow -- Created by Builder Xcessory Version 5.0.8.
- UIComponent -- Base class for all C++/Motif UI components.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.
- DpPrQaMonitor -- This library holds the functions and attributes that all the QA Monitor GUI to perform its various functions.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DpPrUpdateStatus -- This library provides functionality to update the status of a Request maintained in the MSS database.

- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDb -- This library encapsulates the Sybase Open Client calls from the rest of the SDSRV.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and shared versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsLg -- This library provides a utility to hide the details of the Logging system.
- DsMd1 -- This library contains the low level SDSRV code responsible for accessing the sybase database.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- DsTl -- This library provides typed safe (smart) pointers / objects for RogueWave classes and a utility to make logging complex error messages easier.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.

- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtGUI
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PIGUIError -- This library contains the objects needed for SSIT and QA Monitor GUIs to display error messages.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock

- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcDpPrRunPGE

/ecs/formal/PDPS/DPS/PRONG/src/PGEMgmt

This program monitors the growth of PGE output files and invokes the EcDpPrRusage program responsible for PGE invocation and collection of resource usage data.

process EcDpPrRusage

/ecs/formal/PDPS/DPS/PRONG/src/PGEMgmt

This program is responsible for PGE invocation and resource usage data collection.

process EcDpPrViewJobStates

/ecs/formal/PDPS/DPS/PRONG/src/JobMgmtPF/JMUserInterface

This program is responsible to extract the Job Names, and states from the database. This program is run from the Job Management Client. It is in the Ops Console GUI. You can select the Jobs Completed and the Jobs Waiting Buttons. This will then go to the database and find the appropriate jobs. Then a xemacs window is displayed with the data about the jobs. This program can also be run by the command line by using the appropriate arguments.

Classes

- DpPrListJobs -- This DpPrListJobs class is the interface class for obtaining lists of dprs requested from the Autosys Job Activity Console.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DpDeletionClient -- The library containing the client side operations to issue requests to the deletion server.
- DpPrDbPf -- This library contains the PDPS database interface classes for use with the Process Framework access to the database.
- DpPrDM -- This library supplies utility operations to manage data within DPS.
- DpPrDssIF -- This library contains the helper object for PDPS to interact with science data server.
- DpPrEM -- This library supplies utility operations to manage PGE execution within PRONG.
- DpPrException -- This library provides APIs to catch and handle signals.

- DpPrJM -- The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode.
- DpPrRM -- This library supplies utility operations to manage computer resources for PDPS.
- DpPrTools -- This library contains global utility functions.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDpJobMgmtClient -- The Job Management Client library provides the following public interfaces to the Job Management Server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.

- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- PICore1 -- This library contains the first half of Planning's core functionality.
- PICore1IF -- This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.
- PICore2 -- This library contains the second half of Planning's core functionality.
- PISSIT -- This library manages the Science Software Integration & Test PDPS DB interfaces.
- PIUtil -- This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process hdiff

/ecs/formal/PDPS/DPS/SSIT/src/DIF/HDIFF

This program supports the HDF Gui, and can be used standalone to compare HDF files.

Libraries (static)

- hdfs
- hdiff -- This library supports the program for the HDF Gui and command line version of the HDF comparison tool.

Subsystem CSS

The Communications Subsystem (CSS) provides for the interconnection of users and service providers, transfer of information within the Earth Observing System Data and Information System (EOSDIS) Core System (ECS) and between ECS and many EOSDIS components and management of all ECS communications components. It supports and interacts with the Management Support Subsystem (MSS), Flight Operations Segment (FOS) and the other ECS subsystems.

process analog

/ecs/formal/CSS/DOF/src/ALOGTools

process EcCsDcrp

/ecs/formal/CSS/DOF/src/dcrp

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtNoPF -- EcUtNoPF is a utility library for all the ECS applications that do not use Process Framework.

- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcCsEmailParser

/ecs/formal/CSS/DOF/src/RELB_GATEWAY/EmailParser

EcCsEmailParser program is developed to support automated delivery of Expedited Data Set (EDS) from ECS to ASTER GDS.

EDS subscription is first issued from ECS side at GSFC DAAC on behalf of ASTER GDS. When EDS is ready, Subscription Server sends email notification to EmailParser Gateway which in turn sends EDN to ASTER GDS through email after retrieving all the necessary information from SDSRV using the granule UR parsed from email notification. Once ASTER GDS gets the EDN, they can request EDS by sending EDR to EmailParser Gateway through email. EmailParser Gateway then parse the EDR to get the granule UR, it then does Acquire to SDSRV which will FTP push the files together with a signal file to ASTER GDS.

Classes

- EcCsEmailParser -- This class provides the functionality of getting UR from the Subscription Notification and using the UR to get the information for EDN from EcDsScienceDataServer and sending it to the EcMsAsAddHeader for notifying ASTER GDS, getting EDR from the EcMsAsRemoveHeader, storing and parsing subscriptions and EDR in /EDN, /EDR directory, sending an acquire request to the EcDsScienceDataServer via an RPC for an EDR request.
- EcCsManagedServer -- This is a managed server created through Process Frame Work.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.

- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.

- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock

process EcCsldarMain

/ecs/formal/CSS/DOF/src/RELB_GATEWAY/DAR/gds/server

This directory contains the source code for the GDS server simulator that was provided with the client library. The simulator was provided for testing purposes only.

process EcCsldNameServer

/ecs/formal/CSS/DOF/src/mdw/fos/NameServer/src

The Name Server allows servers to advertise their service and allows clients to locate the servers.

Classes

- FoNsCouplerCb -- \$RCSfile: FoNsCouplerCb.h,v \$Locker: \$.
- FoNsDbEndPoint -- Rogue Wave required declaration.
- FoNsDbRepository -- This class serves as an encapsulation of a table on a database containing end point information matching the format of an FoNsEndPoint instance.
- FoNsLocalRepository -- \$RCSfile: FoNsLocalRepository.h,v \$Locker: \$.
- FoNsNameServer -- This class represents an encapsulated name server.
- FoNsServiceRequestDecoder -- \$RCSfile: FoNsServiceRequestDecoder.h,v \$Locker: \$.
- FoNsSrvAppl -- This class is the Name Server application.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.

- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.

- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcCsMojoGateway

/ecs/formal/CSS/DOF/src/RELB_GATEWAY/MOJO/mojo

This program contains the MOJO Gateway Server. The MOJO Gateway provides a common interface and network address for all of the distributed ECS services accessible from the JAVA DAR Tool. The MOJO Gateway provides user session management, a secure gateway to DCE/OODCE security services, and the routing of user requests to the appropriate server.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- Common -- The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.

- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDmDdClient -- The library establishes and maintains a session with the DDICT server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcGwDAR -- This library is the DAR Communications client library which client applications should link with to communicate with the DAR Gateway.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- ECSAuthn -- This library provides a function EcUtMakeECSAuth(userID, password, ecsAuth), which converts the input of a userID and a password of this userID, and returns a string contains the encrypted authenticator ecsAuth.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.

- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- MD5Encrypt
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcCsMtMGateway

/ecs/formal/CSS/DOF/src/RELB_GATEWAY/MTMGW/src

The Machine to Machine Gateway Server provides an automated ordering capability to allow the Science Investigator-Led Process Systems to reprocess data externally from the ECS.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- Common -- The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.

- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDmDdClient -- The library establishes and maintains a session with the DDICT server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.

- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcCsRegistry

/ecs/formal/CSS/DOF/src/REGISTRY/registry

This program retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.

Classes

- EcRgRegistryServer_S
- EcRgRegistryServerLog -- Registry Server Log.
- EcRgTreeNode -- A RWTPtrSlist that holds Registry information.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.

- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcGwDARServer

`/ecs/formal/CSS/DOF/src/RELB_GATEWAY/DAR/dar`

This is the DAR Communications Gateway server executable, which will accept DAR submit, modify, and query requests and pass them on to GDS.

The main functionality of the ASTER DAR Gateway is to provide interoperability between the DAR Client GUI Tool and the DAR API which interfaces to the ASTER servers. The DAR Client GUI Tool is DCE compatible and based on X/Motif, while the DAR API is based on TCP/IP sockets. The DAR Communications Gateway receives calls from the DAR Client GUI Tool and dispatches them to the appropriate DAR API operations for remote services.

Classes

- EcGwDARGatewayDispatcher -- This class is the specialized dispatcher at the server side, which accepts a request and dispatches it to the appropriate method.
- EcGwDARGatewayManagedServer -- This class use Process Frame Work to create a managed server.
- EcGwDARGatewayRequest_S -- This class represents the server side of DARGateway.
- getSubxARStatusSrfRequest -- This message class, which is derived from the EcUtStreamable class, is used to transport the getSubxARStatus request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- getSubxARStatusSrfResult -- This message class, which is derived from the EcUtStreamable class, is used to transport the getSubxARStatus result message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- getSubxARStatusSrfStatus -- This message class, which is derived from the EcUtStreamable class, is used to transport the getSubxARStatus status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- getxARStatusSrfRequest -- This message class, which is derived from the EcUtStreamable class, is used to transport the getxARStatus request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- getxARStatusSrfResult -- This message class, which is derived from the EcUtStreamable class, is used to transport the getxARStatus result message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- getxARStatusSrfStatus -- This message class, which is derived from the EcUtStreamable class, is used to transport the getxARStatus status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- modifyDarSrfRequest -- This message class, which is derived from the EcUtStreamable class, is used to transport the modifyDar request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- modifyDarSrfResult -- This message class, which is derived from the EcUtStreamable class, is used to transport the modifyDar result message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- modifyDarSrfStatus -- This message class, which is derived from the EcUtStreamable class, is used to transport the modifyDar status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.

- queryxARContentsSrfRequest -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARContents request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARContentsSrfResult -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARContents result message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARContentsSrfStatus -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARContents status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARScenesSrfRequest -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARScenes request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARScenesSrfResult -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARScenes result message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARScenesSrfStatus -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARScenes status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARSummarySrfRequest -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARSummary request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARSummarySrfResult -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARSummary result message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARSummarySrfStatus -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARSummary status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- submitDarSrfRequest -- This message class, which is derived from the EcUtStreamable class, is used to transport the submitDar request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- submitDarSrfResult -- This message class, which is derived from the EcUtStreamable class, is used to transport the submitDar result message by the Server Request Framework (SRF),

which is utilized by the ASTER DAR Gateway client library and server for DCE communication.

- submitDarSrfStatus -- This message class, which is derived from the EcUtStreamable class, is used to transport the submitDar status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.

- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- IcDarApi -- This is the ASTER GDS client library which the DAR Communications Gateway links with to provide communication to the ASTER servers.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcLgLogCtrl

/ecs/formal/COMMON/CSCI_Util/src/Logging

This directory contains the source code for the utility library used by ECS applications. It provides Error Logging Mechanism, mechanism for passing and returning status code, reusable interface for objects which need to be transferred between processes, a unique identifier that is guaranteed to be unique within the ECS system, and uniquely identifies any RPC call between a client and a server process anywhere in the ECS enterprise.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.

- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.

- Sock

process EcSbGui

/ecs/formal/CSS/DOF/src/SUBSCRIPTION/OperatorGui

The Subscription GUI provides an operator interface for submitting, updating and deleting subscriptions.

Classes

- EcSbGui -- This is the main class utilized by the Subscription Server Operator GUI.
- EcSbGuiEvent -- This class is utilized by the Subscription Server Operator GUI.
- EcSbGuiMW -- This class is utilized by the Subscription Server Operator GUI.
- UIComponent -- Base class for all C++/Motif UI components.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.

- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbCl -- This library contains all the classes for Subscription Server client.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtGUI
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock

- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcSbSubServer

/ecs/formal/CSS/DOF/src/SUBSCRIPTION/sb

EcSbSubServer is subscription server program to provide subscription service. Subscription service defines three major roles for objects:1) Publisher role: Publishers produce event data. Subscription server stored them persistently and made them available through Advertisement Service. Therefore, subscribers use event data to register interest in products and services.2) Subscriber role: Accept subscription requests that specify an action to be taken and an event to initiate the action. Accept subscription update request to update stored subscriptions, validate subscription requests.3) Process subscriptions upon Event Notification: Identify all subscriptions of the specified event. Process any actions defined in the subscriptions, then notify subscribers.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- Common -- The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPReLA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.

- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDmDdClient -- The library establishes and maintains a session with the DDICT server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbSr -- This library consists of all subscription server side class objects.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.

- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process EcSeAuthnProg

/ecs/formal/CSS/DOF/src/AUTHN/authnprog

The AuthnProg GUI uses the EcSeCmi library to generate a randomized password for administration purposes. The GUI's only input is the seed. The tool is used primarily by administrators and M&O staff when setting up accounts for non-DCE components (i.e.: Sybase).

Classes

- Form -- This class implements a portion of the user interface.
- UIComponent -- Base class for all C++/Motif UI components.

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtNoPF -- EcUtNoPF is a utility library for all the ECS applications that do not use Process Framework.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.

process EcUtChecksum

/ecs/formal/COMMON/CSCI_Util/src/CopyProg

This Directory contains the EcUtCopyExec file. It is a standalone code, taking command line arguments. The EcUtCopyExec copies a file from source directory to destination.

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcUtCopyExec

/ecs/formal/COMMON/CSCI_Util/src/CopyProg

EcUtCopyExec is a binary for copying a source file to destination file. The source, destination files, block size for read/write, delay for retries are passed as arguments. This binary is called by the EcUtFileCopy Class.

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.

- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcUtDcrp

/ecs/formal/COMMON/CSCI_Util/src/GetPwd

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtNoPF -- EcUtNoPF is a utility library for all the ECS applications that do not use Process Framework.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EncryptPasswd

/ecs/formal/CSS/DOF/src/SUBSCRIPTION/encrypt

Requests account with random password for access to non-DCE services.

Classes

- Subscription -- .

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- Common -- The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDmDdClient -- The library establishes and maintains a session with the DDICT server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.

- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbSr -- This library consists of all subscription server side class objects.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process ent

/ecs/formal/CSS/DOF/src/ALOGTools

Classes

- Action
- Error
- Explan
- Filename
- FullText
- LineNum
- Mnemonic
- MnHash -- TypesOfObjects.
- Severity

process ftp_popen

/ecs/formal/CSS/DOF/src/FTP/ftp_popen

This Executable is started by CsFtFTPRelA class for the FTP needs. This process acts as interface for the FTP Wrapper class and actual FTP process. FTP commands are read/write using socket.

Libraries (static)

- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtNoPF -- EcUtNoPF is a utility library for all the ECS applications that do not use Process Framework.

process hdf2jpeg

/ecs/formal/COMMON/CSCI_Util/src/Hdf2Jpg

hdf2jpeg is a utility that extracts jpegs from a Browse file.

It contains the core hdf2jpeg functionality - except the instrument name is added to the jpeg file name.

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcUt -- EcUt is a utility library for all the ECS applications.

- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process LoadingTool

/ecs/formal/CSS/DOF/src/REGISTRY/PopulationTool

Insert attributes into Registry Server

Classes

- EcCsConfigDbLoader

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process mtmClientScript

/ecs/formal/CSS/DOF/src/RELB_GATEWAY/MTMGW/cli

Client script that provides inventory search, product request and integrated search.

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.
- EcCsMtMGateway -- This libaried provides an automated inventory search, product request, and integrated search and order capability.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process Sweeper

/ecs/formal/CSS/DOF/src/mdw/fos/FoSsw/src

The Sweeper is responsible for removing old/stale NameServer endpoints.

Classes

- FoSwSweeperAppl -- This class is the Sweeper application.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.

- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.

- oodce -- Contains DCE classes.
- Sock

process update1900

/ecs/formal/CSS/DOF/src/SUBSCRIPTION/Update1900

This is a subscription server tool used by operator to convert all subscriptions' start and/or expiration date to Y2K compliance.

Classes

- Subscription -- .

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- Common -- The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.

- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcDmDdClient -- The library establishes and maintains a session with the DDICT server.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSbSr -- This library consists of all subscription server side class objects.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.

- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock
- srf -- The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

process uuidgen

/ecs/formal/CSS/DOF/src/mdw/dot/src

Simple driver for UUID generator

Libraries (static)

- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- oodce -- Contains DCE classes.

Subsystem MSS

The System Management Subsystem (MSS) provides support software services in the fault, configuration, accountability, performance, and security management areas. It is implemented using some custom software but relies heavily on standards-based COTS products. In many cases, a COTS product needs no custom software to meet requirements. Where custom software is required it is saved in these directories.

process EcMsAcDAACRegUserGUI

/ecs/formal/MSS/MCI/Ac/src/MsAcDAACRegUserGUI

The graphical user interface enables the operator to retrieve ECS user profile information.

Classes

- EcAcTabState -- Create one instance of this for each tab in a tabstack.
- MsAcInformation -- Created by Builder Xcessory Version 5.0.8.
- MsAcManageExistingAccntMW -- Created by Builder Xcessory Version 5.0.8.
- MsAcProcessAccntReqMW -- Created by Builder Xcessory Version 5.0.8.
- MsAcRegUsrUtl -- The MsAcRegUsrUtl class is a set of static functions of general utility to the Register User GUI.
- MsAcUserAccountMngmtMW -- Created by Builder Xcessory Version 5.0.8.
- MsAcViewProfileDialog -- Created by Builder Xcessory Version 5.0.8.
- UIComponent -- Base class for all C++/Motif UI components.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtGUI
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.

- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock

process EcMsAcOrderGUI

/ecs/formal/MSS/MCI/Ac/src/EcAcOrderUI

This graphical user interface enables the user to retrieve the order and request from the Accountability database. The following functions are available: Retrieve order and request by order id or request id. Retrieve order and request by user name. Retrieval can be filtered by order and request status.

Classes

- EcAcBusyCursor -- The constructor and destructor are always called in pairs to set/reset the cursor to indicate that the application is busy and unable to process user input in a window.
- EcAcdataOrderTrackingMW -- The EcAcdataOrderTrackingMW class implements the main window for the Data Order Tracking GUI.
- EcAcOrderTrackingUtl -- The EcAcOrderTrackingUtl class is a set of static functions of general utility to the Order Tracking GUI.
- EcAcOrderUpdateForm -- Created by Builder Xcessory Version 5.0.8.
- EcAcReqInfoForm -- This class implements the Order Tracking GUI's Request Information list window.
- EcAcShipInfoForm -- The EcAcShipInfoForm class implements a window that displays shipping information for an ECS Data Order.
- EcAcVerifyUserForm -- Created by Builder Xcessory Version 5.0.8.

- UIComponent -- Base class for all C++/Motif UI components.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtGUI
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.

- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock

process EcMsAcOrderSrvr

/ecs/formal/MSS/MCI/Ac/src

The Data Order Tracking capability provides the means to tracking the order status throughout the life circle of an order, it centralize the order status in MSS database instead of go through each subsystem to collect the order and its associate request status. The Data Order Tracking Server provides public interfaces to other subsystem and capable to update order and request status in real time.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.

- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- ECSAuthn -- This library provides a function EcUtMakeECSAuth(userID, password, ecsAuth), which converts the input of a userID and a password of this userID, and returns a string contains the encrypted authenticator ECSAuth.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- MD5Encrypt
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.

- Sock

process EcMsAcRegUserSrvr

/ecs/formal/MSS/MCI/Ac/src

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- ECSAuthn -- This library provides a function EcUtMakeECSAuth(userID, password, ecsAuth), which converts the input of a userID and a password of this userID, and returns a string contains the encrypted authenticator ecsAuth.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.

- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- MD5Encrypt
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcMsAcSMCRegUserGUI

/ecs/formal/MSS/MCI/Ac/src/MsAcSMCRegUserGUI

The graphical user interface enables the operator to create, delete, update, and retrieve ECS user profile information.

Classes

- EcAcTabState -- Create one instance of this for each tab in a tabstack.
- MsAcInformation -- Created by Builder Xcessory Version 5.0.8.
- MsAcManageExistingAcctMW -- Created by Builder Xcessory Version 5.0.8.
- MsAcProcessAcctReqMW -- Created by Builder Xcessory Version 5.0.8.
- MsAcRegUsrUtl -- The MsAcRegUsrUtl class is a set of static functions of general utility to the Register User GUI.
- MsAcUserAccountMngmtMW -- Created by Builder Xcessory Version 5.0.8.
- MsAcViewProfileDialog -- Created by Builder Xcessory Version 5.0.8.
- UIComponent -- Base class for all C++/Motif UI components.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.

- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtGUI
- EcUtHelp
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.

- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- oodce -- Contains DCE classes.
- Sock

***process* MsTtHTMLItems**

/ecs/formal/MSS/MCI/Tt/src

Provide an interface for a user to submit, list, or see detailed Trouble Tickets.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.

- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- MsCg -- This library contains classes used for the HTML Trouble Ticket Services.
- oodce -- Contains DCE classes.
- Sock

process MsTtHTMLMenu

/ecs/formal/MSS/MCI/Tt/src

Provide a menu for the user to start from in using the Trouble Ticket service.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPoDbRW -- Contains methods that allow access to a RogueWave database together with the current list of connections to the database.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.

- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- MsCg -- This library contains classes used for the HTML Trouble Ticket Services.
- oodce -- Contains DCE classes.
- Sock

Subsystem DPL

process EcDIActionDriver

/ecs/formal/DPL/insert/dpad/src

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- DIAd
- DIQs
- DsDb -- This library encapsulates the Sybase Open Client calls from the rest of the SDSRV.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.

- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcDIDcrp

/ecs/formal/DPL/src

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.

- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtNoPF -- EcUtNoPF is a utility library for all the ECS applications that do not use Process Framework.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process fileincache

/ecs/formal/DPL/insert/amass/src

process fileVolume

/ecs/formal/DPL/insert/amass/src

process ms_time

/ecs/formal/DPL/src

Libraries (static)

- `ccs` -- Define class methods and dbtools errorhandling function.
- `EcAgInstrm` -- This library contains the instrumentation code which is linked into all ECS managed servers.
- `EcCf` -- The Config library provides the necessary software for the PF_Client Gu.
- `EcCsRegistry` -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- `EcFh` -- This library provides fault handling capabilities to ECS applications.
- `EcNsServiceLoc` -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- `EcNsServiceLocator` -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- `EcPtSpecialLock` -- This library provides classes for mutex operations and thread IDs.
- `EcRw` -- This library allows real to be stored and retrieved as RWCollectable.
- `EcSeCmi` -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- `EcUr` -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- `EcUtFactory` -- The `EcUtFactory` should be used when you dynamically create objects based on the a class identifier.
- `EcUtNoPF` -- `EcUtNoPF` is a utility library for all the ECS applications that do not use Process Framework.
- `FoCl` -- This library is responsible for parsing the command line.
- `FoIp` -- This library handles exception for the FOS Interprocess Communications.
- `FoNs` -- This library is used by NameServer and it's clients.
- `FoUt` -- This library handles internal error for FOS application.
- `Gl` -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- `MD5` -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- `Middleware` -- This library is used by FOS application.
- `oodce` -- Contains DCE classes.
- `Sock`

Subsystem OMS

process EcOmCryptoCliDriver

/ecs/formal/OMS/omServer/src/cryptoCli

Driver to test CsSeCryptoDes.

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtNoPF -- EcUtNoPF is a utility library for all the ECS applications that do not use Process Framework.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcOmOrderManager

/ecs/formal/OMS/omServer/src/server

This file contains the main routine for the EcOmOrderManager server. The main routine will: Create the OmServer object. Initialize the server object. Create the MiddleWare service object (OmSrOrderManagerIf). Start a thread to listen for incoming ODL product requests. Start the OmServer object.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.

- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DsDb -- This library encapsulates the Sybase Open Client calls from the rest of the SDSRV.
- DsDdI -- Provides the socket interface for DsDdRequestManager Server.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.

- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- ik
- ims_odl
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- OmSr -- This library contains the server class, the Middleware interface, the request classes, the action classes, the queue class, and all the other classes needed to do the work of the Om Server.
- oodce -- Contains DCE classes.
- Sock

process EcOmSrCLI

/ecs/formal/OMS/omServer/src/sdsrvCli

This program connects to SDSRV and submits an acquire request got from OmServer and returns the status back to OmServer.

It is PF client based standalone program.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsEmMailRelA -- This Library is used for the emails using sendmail utility.
- CsFtFTPRelA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DsCl -- This library contains classes which make up the Science Data Server's (SDSRV) public interface.
- DsCn -- This library is used to generate files which install ESDT configuration information for each ESDT previously.
- DsDb -- This library encapsulates the Sybase Open Client calls from the rest of the SDSRV.
- DsDe2 -- The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and a red versions.
- DsGe -- This library provides the public interface for access to all ESDT services and ESDT specifications.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.

- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcDcNotify -- This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- GIo -- This library provides the operations for the gl objects to be read from or saved to a stream or file.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.

- Middleware -- This library is used by FOS application.
- OmSr -- This library contains the server class, the Middleware interface, the request classes, the action classes, the queue class, and all the other classes needed to do the work of the Om Server.
- oodce -- Contains DCE classes.
- Sock

process EcOmSrCliDriver

/ecs/formal/OMS/omServer/src/unitTest

The EcOmSrCliDriver gets invoked from the command line, reads an ODL file which describes a distribution request, and then inserts the request information into the OM database. The distribution request should already exist in the MSS database before the EcOmSrCliDriver is invoked. The ODL file should contain the existing requestId and orderId, or just the orderId. One invocation of the EcOmSrCliDriver can process multiple distribution requests (different requests described by different ODL files). In general, there are two ways of putting requests into the OM database: the EcOmSrCliDriver and the V0 Gateway. Currently, the V0 Gateway is used more often. The EcOmSrCliDriver is to be used by DAAC extensions in the future.

Libraries (static)

- agentevent -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- ccs -- Define class methods and dbtools errorhandling function.
- CsFtFTPReIA -- This library provides a Wrapper for FTP.
- CsFtFTPSchedObj -- This library provides functions to use FTP at a scheduled time by the User.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- DmGwV0Util -- The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.
- DsDb -- This library encapsulates the Sybase Open Client calls from the rest of the SDSRV.
- DsSh -- This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.
- DsSr -- This is an internal library for Science Data Server.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.

- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPf -- The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.
- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcTiTime -- The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUt -- EcUt is a utility library for all the ECS applications.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtMisc -- This library contains miscellaneous utilities.
- event -- Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- ik
- ims_odl
- MD5 -- This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- MsAcClnt -- The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.
- MsAcComm -- This library contains classes used for both Accountability Server and Client.
- OmClient
- OmSr -- This library contains the server class, the Middleware interface, the request classes, the action classes, the queue class, and all the other classes needed to do the work of the Om Server.
- oodce -- Contains DCE classes.
- Sock

Subsystem OSS

/ecs/formal/OSS/HEG/gdtif

Libraries (static)

- hdfeos

/ecs/formal/OSS/HEG/hegtool/src

Libraries (static)

- hdfeos

/ecs/formal/OSS/HEG/resample/src

Libraries (static)

- hdfeos

/ecs/formal/OSS/HEG/swtif

Libraries (static)

- hdfeos

Subsystem SSS

process EcDIDcrp

/ecs/formal/SSS/src

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.

- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtNoPF -- EcUtNoPF is a utility library for all the ECS applications that do not use Process Framework.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcNbCryptoCliDriver

/ecs/formal/SSS/src

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
- EcNsServiceLocator -- The Service Locator library provides an implementation independent mechanism for specifying service locations.
- EcPtSpecialLock -- This library provides classes for mutex operations and thread IDs.
- EcRw -- This library allows real to be stored and retrieved as RWCollectable.

- EcSeCmi -- Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services (e.g., Sybase).
- EcUr -- A Universal Reference (UR) is created as a logical reference to a extant ECS object.
- EcUtFactory -- The EcUtFactory should be used when you dynamically create objects based on the a class identifier.
- EcUtNoPF -- EcUtNoPF is a utility library for all the ECS applications that do not use Process Framework.
- FoCl -- This library is responsible for parsing the command line.
- FoIp -- This library handles exception for the FOS Interprocess Communications.
- FoNs -- This library is used by NameServer and it's clients.
- FoUt -- This library handles internal error for FOS application.
- Gl -- This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes.
- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process EcNbValidateDate

/ecs/formal/SSS/src

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
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- MD5 -- This library takes as input a message of arbitrary length and produces as outputa 128-bit "fingerprint" or "message digest" of the input.
- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

process ms_time

/ecs/formal/SSS/src

Libraries (static)

- ccs -- Define class methods and dbtools errorhandling function.
- CsSeCryptoDes -- This library contains the APIs for the DES encryption algorithm.
- EcAgInstrm -- This library contains the instrumentation code which is linked into all ECS managed servers.
- EcCf -- The Config library provides the necessary software for the PF_Client Gu.
- EcCsRegistry -- This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.
- EcFh -- This library provides fault handling capabilities to ECS applications.
- EcNsServiceLoc -- This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.
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- Middleware -- This library is used by FOS application.
- oodce -- Contains DCE classes.
- Sock

Appendix B. Software Libraries

This appendix lists all ECS libraries in alphabetical order. Each library name is followed by a directory specification indicating where that process was defined. A brief description of the library may be given. This is followed by a list of classes and templates used by the library, if any, which are defined in that same directory. These libraries are linked into processes listed in Appendix A.

It should be noted that this appendix contains libraries that are in the Drop 6A.08 code as well as libraries that are in later Drops but may not be fully operative until the delivery of the future Drops.

The first sentence of a class description is taken from the comments, if any, in the code for that class.

library agentevent

/ecs/formal/CSS/DOF/src/LOGGING/agentlog

Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.

Classes

- EcUtAgentLogger -- This class is a subclass of EcUtLoggerRelA.

library ccs

/ecs/formal/CSS/DOF/src/mdw/common/ccs/src

Define class methods and dbtools errorhandling function.

Classes

- ccsdb -- Filename: ccsdb.h.
- CryptString -- The purpose of this class is to encrypt/decrypt string.

library CIDtProfileToOdl

/ecs/formal/CLS/DESKT/src/OdlProfile

This library is used to read and write ODL parameters specific for the User Profile Gateway.

Classes

- CIDtDataValue --
- CIDtDateTime --

- CIDtODLAggregate -- This class extracts aggregate information from input aggregate ODL tree.
- CIDtODLNonAggregate -- This class extracts non aggregate information from input aggregate ODL tree.
- CIDtODLParameter --
- CIDtODLTree --
- CIDtRSTAggregate --
- CIDtRSTNonAggregate --

library ClOdCommon

/ecs/formal/CLS/ODFRM/src/Common

This library contains utilities to read Cgi Variables, read HTML templates and build HTML pages from the templates for ODFRM.

Classes

- ClOdBase -- This class is the base class for all the Odform classes.
- ClOdCgiVars -- ClOdCgiVars class to parse arguments from a Web server for use by a cgi-bin program.
- ClOdGIFromODL -- This class builds/gets root node of an input ODL Tree.
- ClOdODLFromGI -- This class builds/gets root node of an input ODL Tree.

library Common

/ecs/formal/DM/GatewayCSCI/src/Common

The common directory contains classes for the EcsToV0Server and V0ToEcsServer executables.

Classes

- DmGwConfigItems -- This class will get items from Process Framework that have been read from the configuration file by PF.
- DmGwDataValue -- This class performs store and get the data value.
- DmGwDate -- This class stores a date/time instance using RWTime.
- DmGwDateTime -- This class performs the set time, date and get time, date.
- DmGwECSCircle -- This class performs get circle, radius, and center for the circle search.
- DmGwECSPoint -- This class performs get longitude and latitude for the point search.
- DmGwECSPolygon -- This class performs get polygon for polygon search.
- DmGwECSRectangle -- This class performs get rectangle, get north, south longitude and latitude for the rectangle search.
- DmGwEvent -- This class performs the logging events in Gateway managed server.
- DmGwExtendedSearch -- This class contains the Extended Search criteria values.

- DmGwGlobalGranulesOnly -- This class contains the GlobalGranulesOnly spatial extent values.
- DmGwGroup -- Base class.
- DmGwGuideUrl -- This class contains the definition for a GuideUrl group.
- DmGwIKSocket -- This class encapsulates the IK library routines in a class and removes all global variables required to operate.
- DmGwImageStream -- This class saves a binary image file.
- DmGwLineItem -- This class represents an instance of an ODL LINE_ITEM group construct.
- DmGwManagedServer -- This server class is built as a child of the Process Framework Managed server class.
- DmGwMediaFormat -- This class performs get media format, get parameter list.
- DmGwMediaHandlingFee -- This class contains the definition for a MediaHandlingFee group.
- DmGwMediaMaximumCapacity -- This class contains the definition for a MediaMaximumCapacity group.
- DmGwMediaType -- This class represents an instance of an ODL MEDIA_TYPE group construct.
- DmGwMiscUrl -- This class contains the definition for a MiscUrl group.
- DmGwODLAggregate -- This class performs get inventory search, get directory search, get browser request, get product request, get quit, get abort, get acknowledge, and extract informations from the input ODL tree.
- DmGwODLMutex -- This class provides a common mutex lock for the V0 IK/ODL code.
- DmGwODLNonAggregate -- This class performs extracting non aggregate informations from input aggregate ODL tree.
- DmGwODLParameter -- This class builds and gets parameters from ODL tree.
- DmGwODLTree -- This class builds/gets root node of an input ODL Tree.
- DmGwOrderOption -- This is a derived class of DmGwGroup which is instantiated by DmGwPackage object in order to create ORDER_OPTIONS group as a part of PACKAGE group in INVENTORY_RESULTS odl that is being sent by ECS data servers to both V0 and GDS clients.
- DmGwOrderSpec -- This class represents an instance of an ODL SUBSET_SPEC group construct.
- DmGwPackage -- This class supports the following operations.
- DmGwPathRowLoc -- This class represents the V0 Search group and consists functions to set and get the parameters for the Path Row Loc group.
- DmGwPointLoc -- This class contains the PointLoc spatial extent values.
- DmGwPolygonLoc -- This class contains the PolygonLoc spatial extent values.

- `DmGwProcessingOption` -- This is a derived class of `DmGwGroup` which is instantiated by `DmGwPackage` object in order to create `PROCESSING_OPTION` group as a part of `PACKAGE` group in `INVENTORY_RESULTS` odl that is being sent by ECS data servers to both V0 and GDS clients.
- `DmGwRangeLoc` -- This class contains the `RangeLoc` spatial extent values.
- `DmGwRequest` -- This is an abstract class for `DmV0Request`, and `DmAsGwEcsRequest` abstract classes which in turn serve as base classes for the request types that can be processed by `V0ToEcsGateway` and `EcsToAsterGateway` servers, respectively.
- `DmGwRequestReceiver` -- This class takes in a socket descriptor and request id and executes the contents of the socket in the Gateway and returns the resultant request on a new socket id.
- `DmGwResultGroup` -- This class contains the definition for a `ResultGroup` group.
- `DmGwRSTAggregate` -- This class builds all necessary ODL aggregates for the output ODL tree.
- `DmGwRSTNonAggregate` -- This class builds the non aggregate elements of the ODL tree for response messages.
- `DmGwSpatialExtent` -- Base Class extension for spatial extents.
- `DmGwSpecializedCriteria` -- This is a derived class of `DmGwGroup` which is instantiated by `DmGwLineItem` and `DmGwOrderOption` objects in order to create `SPECIALIZED_CRITERIA` group in both inventory and price estimate results.
- `DmGwSpecializedResult` -- This class contains the definition for a `SpecializedResult` group.
- `DmGwStatus` -- This class is an extension of `EcUtStatus` to provide the ability to Get / Set a text message associated with the status.
- `DmGwTemporal` -- This class constructs the temporal constraint, does conversion from V0 to ECS temporal constraint.
- `DmGwTemporalExtent` -- This class stores a time range represented by two `DmGWDate` instances.
- `DmGwTemporalVec` -- This class supports the conversion of V0 temporal type which includes startday of the year and stop day of the year to multiple ECS date ranges.
- `StringVec` -- This class holds a lists of string pointers and forms a comma separated list when required for SQL construction.

library CsEmMailRelA

`/ecs/formal/CSS/DOF/src/EMAIL/email`

This Library is used for the emails using sendmail utility.

Classes

- `CsBBMailRelA` -- Implements `CsBBMailRelA` class for interactive(for operators) and development(API, for applications) interfaces to manage electronic post messages.
- `CsEmMailRelA` -- Implements `CsEmMailRelA` class for interactive(for operators) and development(API, for applications) interfaces to manage electronic mail messages.

library CsFtFTPReIA

/ecs/formal/CSS/DOF/src/FTP/ftp

This library provides a Wrapper for FTP.

Classes

- CsFtFTPReIA -- By instantiating a CsFtFTPReIA object and sending the object messages, a program can perform programmed dialogue with a ftp process and effectively control it.

library CsFtFTPSchedObj

/ecs/formal/CSS/DOF/src/FTPSCHEM

This library provides functions to use FTP at a scheduled time by the User.

Classes

- CsFtFileListObj -- This class contains all the information provided by the scheduleFileTransfer function.
- CsFtFTPSchedObj -- This class is designed to be created by the Managed Process Framework to allow developers to schedule file transfers at a given time.

library CsSeCryptoDes

/ecs/formal/CSS/DOF/src/CRYPTO

This library contains the APIs for the DES encryption algorithm.

Classes

- CsSeCryptoDes -- This class implements both standard and modified forms of the NBS Data Encryption Standard (DES).

library DIAd

/ecs/formal/DPL/insert/dpad/src

Classes

- DIAdAction -- The DIAdAction class is an abstract base class designed to represent actions taken by the DIAdDispatchQueue class.
- DIAdArchiveQueue -- The DIAdArchiveQueue class is responsible for ordering and dispatching actions for a single archive host.
- DIAdDbInterface -- The DIAdDbInterface class is a lightweight wrapper around the DsDbInterface class.
- DIAdDispatchQueue -- Prioritized scheduler for DIAdAction objects.
- DIAdInsertAction -- Class derived from DIAdScriptAction to implement the execution of DataPool Insert Utility (DPIU) actions.

- DIAdInsertActionStatus -- This class is represents the possible exit states of a DIAdInsertAction object.
- DIAdNonCacheQueue -- The DIAdNonCacheQueue class is responsible for ordering and dispatching actions that are not expected to be in the amass cache.
- DIAdScriptAction -- Derived class of DIAdAction provides the implementation of an action that is performed by the execution of a UNIX script.
- DIAdServer -- The DIAdServer class provides the server implementation of the DPAD.
- DIAdTimePriorityList
- timeEntry
- timeList

library DIQs

/ecs/formal/DPL/insert/quickServer/src

Classes

- DIQsClient

library DmDdReqProc

/ecs/formal/DM/DDICT/src/ddreqproc

The ddreqproc directory contains classes for the Data Dictionary request processing. These classes are used to send delete, insert, update, and search requests to the Data Dictionary. The input GIParameterList is converted to SQL and sent to the Data Dictionary. After the request is processed, the results are sent back.

Classes

- DmDdArgInfoTbl -- This class is used to store/process data regarding whether or not the table has the fields collectionId, siteId, and attributeId.
- DmDdGIHelper -- This class contains methods that help in the processing of a GIParameterList.
- DmDdGroupTbl -- This class is used to store/process data for groups.
- DmDdJoinTable -- This class is used to manipulate joins.
- DmDdJPairsTbl -- This class is used to store/process data for joinable pairs table information.
- DmDdLevel1Tbl -- This class is used to store/process data for level 1 information.
- DmDdLevel2Tbl -- This class is used to store/process data for joinable pairs table information.
- DmDdLevel2TblEntry -- This class is used to store/process data for level 2 table information.
- DmDdLevel3Tbl -- This class is used to store/process data for joinable pairs table information.

- DmDdLevel3TblEntry -- This class is used to store/process data for joinable pairs table information.
- DmDdMapper -- This class performs the valid mapping for all collections in the Data Dictionary.
- DmDdParser -- This class is intended to be used in parsing the request submitted to the DDICT.
- DmDdTables -- This class is used to store/process data from the tables.
- DmDdTblCols -- This class is used to store/process data for joinable pairs table information.
- DmDdValidsMapping -- This class contains the entry for each mapping.
- DmDdValidsMappingTable -- This class is used to store/process data for valid mapping.
- DmDdXrefTbl -- This class is used to store/process data for cross-reference information.
- DmDdXrefTblEntry -- This class is used to store/process data for joinable pairs table information.

library DmDdServerJit

/ecs/formal/DM/DDICT/src/ddserver

The ddserver directory contains classes that implement the server portion of the DDICT. It initializes the DDICT, connects to the Process Framework objects, and provides objects to process service requests from a client. It dispatches the received service requests and instantiates an object to process the request. When results of the request are received from the object processing the request, they are returned to the requester.

Classes

- DmDdDispatcher -- This is the customized version of the dispatcher object.
- DmDdManagedServer -- This is an example how an application can use Process Framework to create a managed server.
- DmDdRequest -- This serves as a base class for all the Data Dictionary server requests (DmDdSchemaRequest, DmDdSearchRequest, DmDdUrRequest). It has virtual functions for Submitting SQL to Data Dictionary server, executing the SQL and Creating Result.
- DmDdSchemaRequest -- This is a derived class of DmDdRequest to handle EcsCollection insertion request.
- DmDdSearchRequest -- This class receives search messages submitted to the DDICT.
- DmDdUrRequest -- This class is used by the server to process the client UR request.

library DmGwRegistryStub

/ecs/formal/DM/SIM/src/CSS

The libDmGwRegistryStub library contains definitions of methods residing in CSS. Specifically any method used by DMS servers that incur a remote procedure call. This allows us to generate test executables that link to this stub library that have IDENTICAL DMS source code, thus improving the reliability of unit testing within DMS.

Classes

- EcRgSubsetOptions

library DmGwV0Util

/ecs/formal/DM/GatewayCSCI/src/V0Util

The DmGwV0Util library contains the implementation of functions used by the ECS to V0 Gateway for client/server interfaces.

library DpAt

/ecs/formal/PDPS/DPS/SSIT/src/LIB

This DpAt library holds the SSIT classes that are called by various SSIT tools and programs. The DpAt library contains classes and methods that provide UNIX system call capabilities, GUI exception/error handling and Process Framework initialization/environmental setup.

Classes

- DpAtDirectoryInfo -- This class provides access to the UNIX directory structure.
- DpAtMgrGuiException -- This class manages GUI message popup windows.
- DpAtMgrMessageDialog -- This defines a Message Dialog box for the SSIT Manager and other SSIT GUIs.
- DpAtMgrSystemCall -- This class manages data for making system calls.
- DpAtPflnit -- This class's methods are used to initiate Process Framework in SSIT.
- UIComponent -- Base class for all C++/Motif UI components.

library DpAtDsrv

/ecs/formal/PDPS/DPS/SSIT/src/Dsrv

This library holds the object (DpAtDsrv) through which SSIT calls to the Data Server are made. The DpAtDsrv class provides insert, acquire and query interfaces. All three insert tools in SSIT (EcDpAtInsertStaticFile, EcDpAtInsertTestFile and EcDpAtInsertExeTarFile) as well as the EcDpAtStageDAP tool and the EcDpAtSSAPGui tool call this library for all Data Server interfaces.

Classes

- DpAtDsrv -- This class's methods are the interface between the SSIT environment and the Data Server.

library DpAtMetadata

/ecs/formal/PDPS/DPS/SSIT/src/Metadata

This library holds the objects (DpAtDatabase and DpAtOperationalMd) through which most SSIT PDPS database updates are performed. It also contains the object (DpAtScienceMd) which parses and validates the ODL that defines PGEs to PDPS. The DpAtDatabase class is called by the ODL parsing programs to insert new PGE information and update existing PGEs in the PDPS

database. DpAtOperationalMd provides checking and updating of the data from the Operational Metadata GUI. DpAtScienceMd provides ODL parsing and validation.

Classes

- DpAtDatabase -- This class's provides methods to update the PDPS database with PGE, ESDT and Production Rule operational and science metadata.
- DpAtOperationalMd -- This class's methods are callbacks for the PDPS/SSIT Database Update GUI, which updates the database with PGE operational metadata.
- DpAtScienceMd -- This class provides methods to read and validate all types of Science Metadata (ODL), PGE ODL, ESDT ODL and the various types of specific Production Rule ODL files.

library DpAtSSAP

/ecs/formal/PDPS/DPS/SSIT/src/SsapGui

This library contains the objects needed for the SSAP Editor application.

It contains the objects that make up the SSAP Editor GUI itself, as well as objects that provide SSAP Management (DpAtSSAPManager), SSAP Component handling (DpAtEditSSAPFilesList), SSAP Metadata (DpAtSSAPMetadata), batch file processing (DpAtBatchFile), UNIX directory movement (DpAtDirectoryInfo) and access control (DpAtAccess).

Classes

- DpAtAccess -- This class provides access control and access logs for the current user of the SSAP GUI.
- DpAtBatchFile -- This class provides access to SSAP commands in a file.
- DpAtEditSSAPFileList -- This class provides the functionality for adding & deleting files from the specified SSAP.
- DpAtSSAPACFORM -- This class defines the Associated Collections window for the SSIT SSAP Editor GUI.
- DpAtSSAPBatchModeFILE -- This class defines the Batch File Window for the SSIT SSAP Editor GUI.
- DpAtSSAPCreateFORM -- This class defines the Create Window for the SSIT SSAP Editor Gui.
- DpAtSSAPCreateWithFORM -- This class defines the Create With window for the SSIT SSAP Editor GUI.
- DpAtSSAPDateHelper -- This class provides the operations needed to convert from one date string to another.
- DpAtSSAPFrame -- This class defines most of the SSIT SSAP Editor GUI.
- DpAtSSAPManager -- This class provides the primary access from SSIT to the Science Software Archive Packages stored at the Data Server.

- DpAtSSAPMetadata -- This class provides access from SSIT to the Science Software Archive Package metadata.
- DpAtSSAPUIComponent -- Base class for all C++/Motif UI components.

library DpDeletionClient

/ecs/formal/PDPS/DPS/PRONG/src/DataMgmt/DeletionPF

The library containing the client side operations to issue requests to the deletion server.

This library contains two client usable APIs: one to issue a delete request on short and long delete times and another to delete a list of granules from the PDPS database. This first API is used by EcDpPrDM in the destage job, to issue deletes for interim granules. The second API is used by Production Request Editor, when deleting DPRs (and their associated granules).

Classes

- DpDeletionProxy -- Converts the data types into the required OODCE formats before calling the underlying OODCE client-side function and converts the return DCE data back to what's required.

library DpPrDbPf

/ecs/formal/PDPS/DPS/PRONG/src/Common

This library contains the PDPS database interface classes for use with the Process Framework access to the database.

Classes

- DpPrDbColVal -- This class is used to create a column-value structure so that the database interface class can use to map the object attribute to appropriate column in the table.
- DpPrDbColValList -- This class contains a list of DpPrDbColVal objects.
- DpPrDbConnectRecord -- This class is used to support searching and retrieval of information from the database.
- DpPrDbIF -- Must undefine external definition of status before defining it below.
- DpPrDbMaster -- This base class monitors all the connections to the database.

Templates

- DpPrDbInterface -- This class provides necessary methods to manipulate database table from C++ application program.

library DpPrDM

/ecs/formal/PDPS/DPS/PRONG/src/DataMgmt

This library supplies utility operations to manage data within DPS.

These operations are used for the two threads within the administrative job, EcDpPrDM: those of staging and destaging data, and managing their disc resources via calls to resource manager.

There are no static operations, so an object must be instantiated to take advantage of the public operations available.

Classes

- DpPrDataGransGroup -- This class defines attributes and operations for a group of data granules based on groupId and DataType name.
- DpPrDataManager -- This class defines attributes and operations for initializing and managing data granules required by a PGE during its execution.
- DpPrDMPfClient -- This class invokes stage and destage jobs in the AUTOSYS job box.
- DpPrFile -- Since this class is a persistent class, it defines attributes and operations for manipulating the instances of objects as the entries in the Sybase DataBase.
- DpPrGranuleLocator -- This class provides an interface to the DpPrGranuleLocation table and some convenience methods for determining whether or not data is local (in the DAAC and visible), nearby (in the DAAC but not visible), or need to be staged from the DSS.

library DpPrDssIF

/ecs/formal/PDPS/DPS/PRONG/src/DssIF

This library contains the helper object for PDPS to interact with science data server.

Clients use this object, rather than making a direct call, so that the interface can be encapsulated within a single class for maintainability. This library includes calls to APIs from both DSS and IOS.

Classes

- DpPrDSSInterface -- This class provides a central (NON-PF-CLIENT) class for all interactions with either DSS or the DSS simulator.
- DpPrRpcID -- This class encapsulates the EcUtRpcID for PDPS.

library DpPrEM

/ecs/formal/PDPS/DPS/PRONG/src/ExecMgmt

This library supplies utility operations to manage PGE execution within PRONG.

This library is mostly used by DpPrEM.cxx, which creates the program EcDpPrEM. Using this library, through the instation of DpPrExecutionManager and using its public API, allocation, deallocation, pre- and post-processing can be accomplished when running a PGE.

Additionally, using the DpPrPge class, the current state of a particular dpr, whether it has finished allocating resources or whether it has post processed the pge's outputs etc., can be obtained.

Also, several of DpPrUtil class's methods are static methods. These methods can be used to execute a system command, such as to obtain unix file information.

Classes

- DpPrExecutable -- This class is used to maintain the state of the science software components which are crucial to support the proper runtime operation of a PGE.
- DpPrExecutionManager -- This DpPrExecutionManager class is the interface class for other classes which require execution services.
- DpPrLock -- This class provides general purpose semaphore for critical sections of code.
- DpPrPcf -- This class is used to maintain the state of the Process Control File (PCF), which provides critical runtime information to the PGE, while the science software is executing.
- DpPrPcfGran
- DpPrPge -- This class is used to maintain the state of the completed PGE and as such provides for the insertion and deletion of the science software for the local machine and controls execution of the PGE on that platform.
- DpPrUtil -- This class provides utility methods used by EM.
- PlCompletion -- This class is used to maintain the termination results of a DPR run.

library DpPrException

/ecs/formal/PDPS/DPS/PRONG/src/Exception

This library provides APIs to catch and handle signals.

Exception is a misleading name. This library does not catch C++ exceptions. It catches unix signals (mainly SIGHUP) and programs which use this library can perform any cleanup before exiting.

Classes

- DpPrInterrupt -- This class manages PRONG administrative job's process interrupt state.

library DpPrJM

/ecs/formal/PDPS/DPS/PRONG/src/JobMgmt

The Job Management library provides service routines for the Job Management Server to manage the flow of jobs in all AutoSys instances for a given mode. These services include creating jobs, canceling jobs, releasing queued jobs, getting the status of jobs and controlling job execution through AutoSys. These routines are not called directly by clients, instead, a proxy library is provided with similar interfaces to the methods defined in this library.

The Job Management Library is composed of four main components: Routines to manage AutoSys (DpPrCotsManager.C). Routines to communicate with AutoSys (DpPrJIL.C). Routines to create production jobs, ground event jobs and to cancel these jobs (DpPrScheduler.C). Routines to control the queue of jobs waiting to get into AutoSys and to manage multiple AutoSys instances (DpPrAutosysMap.C, DpPrAutosysMapList.C, DpPrAutosysMapList.C, DpPrCreationQueue.C, DpPrCreateQObj.C).

Classes

- DpPrAutosysMap -- This class assigns and retrieves the maps between resource strings and the IDs of AutoSyses managing jobs running on them.
- DpPrAutosysMapList -- This persistent class stores and provides access methods to the list of AutoSys ID <-> string name mappings.
- DpPrCotsManager -- This class provides an interface to the AutoSys COTS product to add, delete, and modify jobs and machines; control job processing; retrieve job definition and processing status; generate reports; and send alarms.
- DpPrCreateQObj -- The DpPrCreateQObj class contains information necessary for constructing AutoSys jobs.
- DpPrCreationQueue -- This class manages queues of CreateDprJob parameters waiting to be used to create jobs in AutoSys.
- DpPrCreationQueueByAutosys -- This is a priority queue (sorted vector) of CreateDprJob parameter lists.
- DpPrDbTableIf -- This class defines the interface to Sybase for the DpPrDbInterface class.
- DpPrJIL -- AutoSys JIL interface.
- DpPrMaxJobs -- This is the persistent class that defines the attributes and operations for manipulating the instances of objects that are stored in the DpPrMaxJobs database table.
- DpPrScheduler -- This class provides PLANG Planning Workbench and Subscription Manager components a programmatic interface to the PRONG.

library DpPrQaMonitor

/ecs/formal/PDPS/DPS/PRONG/src/QaMonitor

This library holds the functions and attributes that all the QA Monitor GUI to perform its various functions.

The actual GUI code is in a separate section, the classes within this library provide the function to the QA Monitor GUI.

Classes

- DpPrQaDataGranule -- It defines attributes and operations of data parameters returned from DataServer when operator tries to query data for a particular data type during a period of starting and ending day.
- DpPrQAGranuleQaFlags -- These methods and attributes support display and update of granule parameters.
- DpPrQaMonitor -- The DpPrQaMonitor is what the Quality Assurance (QA) position uses to query all data granules for a particular data type within a date interval, retrieve data granules from Data Server to local disk, and to view data products created with QA metadata using EOSVIEW tool.

library DpPrRM

/ecs/formal/PDPS/DPS/PRONG/src/RsrcMgmt

This library supplies utility operations to manage computer resources for PDPS.

There is only ever one instance of a Resource Manager active at any one time. A resource lock prevents other operations from creating multiple Resource Manager objects.

Classes

- DpPrComputer -- This class is used to represent the set of computer hardware that is being used for science software processing within the Processing System.
- DpPrCpuRamAllocation -- This class is used to maintain the individual records of CPU and RAM usage, which are used to maintain the integrity of processor and memory allocations and deallocations.
- DpPrDiskAllocation -- This class is used to maintain the individual records of disk storage usage which are used to maintain the integrity of storage allocations and deallocations.
- DpPrDiskPartition -- This class is used to represent the set of disk storage devices that are being used to contain the files needed to run a collective set of software known as a PGE.
- DpPrResource -- This base class is used to capture the similar features of the derived classes, and to provide for future expansion.
- DpPrResourceLock -- This class is used to implement locking of the Resource Management database tables on a per-job basis.
- DpPrResourceManager -- This interface class provides an abstract set of operations for effectively managing the collection of processing and storage resources.
- DpPrString -- Abstract representation of one or more actual machines.

library DpPrTools

/ecs/formal/PDPS/DPS/PRONG/src/Tools

This library contains global utility functions.

This library contains global utility functions to get directory listing, space available on a given device, ability to set the application log file name etc.

library DpPrUpdateStatus

/ecs/formal/PDPS/DPS/PRONG/src/Common

This library provides functionality to update the status of a Request maintained in the MSS database.

Classes

- DpPrUpdateStatus -- This class provides functionality to update the status of a Request maintained in the MSS database.

library DsAd

/ecs/formal/DSS/sdsrv/src/ad

This library provides an administrative/M&O interface to science data server requests.

Classes

- DsAdCallback
- DsAdDataTypeCollector -- This class provides a collection mechanism for retrieving and manipulating multiple Earth Science Data Type descriptors.
- DsAdSciRequest -- Provides an interface to access Science Data Server Request information like request ids, priority, domain and state request information as well as command service, command category and number of commands.
- DsAdSciRequestInterface -- This class provides an administrative/M&O interface to science data server requests.

library DsBt

/ecs/formal/DSS/sdsrv/src/bt

This directory builds the DsBt library.

Classes

- DsBtEventCleanUpJob -- This is the DsBtEventCleanUpJob header file.
- DsBtJob -- This is the DsBtJob header file.
- DsBtJobManager -- This is the DsBtJobManager header file.
- DsBtRequestCleanUpJob -- This is the DsBtRequestCleanUpJob header file.
- DsBtSbsrvNotifier -- This class (actually a collection of static functions and variables) implements a thread which notifies the subscription server of events.
- DsBtSystemMonitor -- This is the DsBtSystemMonitor header file.

library DsCI

/ecs/formal/DSS/sdsrv/src/cl

This library contains classes which make up the Science Data Server's (SDSRV) public interface.

Classes

- DsCIAcquireCommand -- Provides an encapsulated mechanism for transporting ESDT acquire command parameters through the SDSRV client interface.
- DsCICommand
- DsCIDescriptor -- Client side class that provides an interface to the descriptor.
- DsCIESDTAddRequest -- This class is used to add an ESDT Reference to the ESDTReferenceCollector as well as adding an ESDT to the working collection.
- DsCIESDTReference
- DsCIESDTReferenceCollector -- This class contains the specialized functions that pertain to management of state (the working collection on the server side) by mimicing that state on the client machine.

- DsCsDimMap -- This class fetches the mappings from the HDFEOS input file and can define them in the output HDFEOS file.
- DsCsDimMgr -- This is an abstract class which is the superclass of the classes DsCsSwathMgr and DsCsGridMgr.
- DsCsDimSum -- This is a summary of all dimension information.
- DsCsField -- This class stores all information related to a HDFEOS field.
- DsCsGridMgr -- This class is responsible for creating grids resulting from subsetting, including creating new grid names, dimension names, field names and dimension map names etc..
- DsCsHDFEOSImp -- This class provides a placeholder for the grid, swath and point data objects in HDFEOS files.
- DsCsHdfEosSDS
- DsCsHDFEOSUtil -- This class is for utilities common to HDFEOS users.
- DsCsIdxMap -- This class fetches the indexed mappings from HDFEOS input file and defines them in the output HDFEOS file.
- DsCsMask -- All masks which are available for inter-DAAC compression are stored as members of this class.
- DsCsMetadataUpdate -- This class implements updating the inventory metadata in the HDFEOS output file after subsetting calls made to the HDFEOS server, as well as copying necessary attributes (e.g. global attributes) and their values to the subsetted output file.
- DsCsMgr -- This class provides the framework for the subclasses to perform various subsetting functions, to create output objects to accommodate the subsetting results, to write the new objects into files etc.
- DsCsNonConformant -- This interface is for products which do not use the naming conventions in the subsetting white papers.
- DsCsNonConformantImp -- This class implements operations for the NonConformant file subsetting interface.
- DsCsNonHDFEOSImp -- This class provides a placeholder for non-HEDEOS data objects in the file.
- DsCsOutputDimSDS -- This class provides the required interfaces with Grid and Swath objects in HDFEOS as well as SDS in HDF output files.
- DsCsOutputFile -- This class is used by the DsCsHDFEOSImp class and provides operations that interface with staging disk classes for storage management.
- DsCsOutputGrid -- This class provides all required interfaces (defining, creating, writing etc.) with grid data objects in HDFEOS output files.
- DsCsOutputPoint -- This class provides all required interfaces (defining, creating, writing etc.) with point data objects in HDFEOS output files.
- DsCsOutputSDS

- DsCsOutputSwath -- This class provides all required interfaces (defining, creating, writing etc.) with swath data objects in HDFEOS output files.
- DsCsPointMgr -- This class is responsible for creating the output points based on the constraint parameters.
- DsCsProjection -- This class is used to extract, store and define grid projection information like projection type, zone code, spheroid type, projection parameters, pixel location and origin of data.
- DsCsPtLevel -- DsCsPtLevel class is responsible for storing all the level information for a level in the output point.
- DsCsSrcDimSDS -- This class provides the required interfaces with Grid and Swath objects in HDFEOS as well as SDS in HDF source files.
- DsCsSrcGrid -- This class provides all required interfaces (inquiring, reading etc.) with grid data objects in HDFEOS source file.
- DsCsSrcPoint -- This class provides all required interfaces (inquiring, reading, extracting etc.) with grid data objects in HDFEOS source file.
- DsCsSrcSDS -- This is a superclass with subclasses DsCsSrcDimSDS and DsCsSrcPoint.
- DsCsSrcSwath -- This class provides all required interfaces (inquiry, reading, extracting etc.) with swath data objects in HDFEOS source files.
- DsCsSwathMgr -- This class is responsible for creating swaths resulting from subsetting, including creating new swath names, dimension names, field names and dimension map names etc..
- ESDTAnyProduct -- This is the public interface used by the Client to provide subsetting functionality.

library DsDb

/ecs/formal/DSS/sdsrv/src/db

This library encapsulates the Sybase Open Client calls from the rest of the SDSRV. All SDSRV database access is made through this this library (both dynamic SQL and Stored Procedure calls). As well as DsDbInterface, this library also contains code for the DsDbAttributeToTable, DsDbAttributeTableXref, DsDbAttributeToTableVector, DsDbProductDbXref, DsDbGranuleToDbVector, and ResultDesc.

Classes

- DsDbAttributeTableXref -- Attribute table entry class.
- DsDbAttributeToTableVector -- Attribute to table hash table class.
- DsDbInterface -- Database (Sybase) interface class to encapsulate database related services such as: connect, execute, fetch result.

library DsDc

/ecs/formal/DSS/sdsrv/src/l7_dcs

This library is used by subsetting code which make reformatting calls to convert HDF-EOS file format to HDF file format for subsetted HDF files. At present, it is only for Landsat7 data conversion.

library DsDdB

/ecs/formal/DSS/distribution/src/base

This library contains base objects used in both the client and server components of DDIST.

Classes

- DsDdDbConnectionPool -- DDIST base class for the database connection pool.
- DsDdDbInterface -- Database Interface class.
- DsDdDistFileB -- Holds the client side file-level information for the distribution request.
- DsDdDistListB -- Implements the client side of the distribution request, holding the list of granules for the request.
- DsDdDistRequestB -- DDIST base class for the client-server requests; holds information relating to the request.
- DsDdGranuleB -- Holds the client side granule-level information and the list of files which comprise the granule; files can be from archives or working areas under STMGT control.
- DsDdLog -- Dont forget to inline.
- DsDdRequestListB -- The DDIST base class for the client-server request list.
- DsDdSetLogFname -- This class logs the function name to the log by assigning log object's "fname" to the specified function name.
- DsDdUtilB -- General utility class for servers and clients.

library DsDdC

/ecs/formal/DSS/distribution/src/client

The DsDdC library is the client side library.

Classes

- DsDdDistFileC -- Holds the client side file-level information for the distribution request.
- DsDdDistListC -- Implements the client side of the distribution request, holding the list of granules for the request.
- DsDdDistRequestC -- DDIST client side of request client-server interface; holds information relating to the request.
- DsDdEventLogC -- Implements the client side of the Event Logging error/messages into the data distribution database.
- DsDdEventLogListC -- Implements the client side of the Event Log's client list.
- DsDdGranuleC -- Holds the client side granule-level information and the list of files which comprise the granule; files can be from archives or working areas under STMGT control.

- DsDdRequestListC -- DDIST class for the client request list.
- DsDdRequestMgrBaseC -- Client-side request list for DDIST client-server interface.
- DsDdRequestMgrC -- Client-side request list subclass for DDIST client-server interface.
- DsDdRequestMgrCFhExecutor -- This class invokes the fault handler for DCE exceptions.
- DsDdTapeIdC -- Implements the client side of the Tape ID's associated with a distribution request.
- DsDdTapeIdListC -- Implements the client side of the Tape ID's client list associated with a distribution request.
- DsDdTapeRequestListC -- DDIST class for the client 4 mm or 8 mm request list.
- DsDdTestSuite -- The DsDdTestSuite is a collection of test methods collected into a class for ease of maintenance and testing.

library DsDdFtpPush

/ecs/formal/DSS/distribution/src/server/push

The FTP push media class is derived from DsDdMedia and is used to push the requested files to the indicated directory on a remote host.

Classes

- DsDdFtpPushMedia -- The FTP push media class is derived from DsDdMedia and is used to push the requested files to the indicated directory on a remote host.

library DsDdl

/ecs/formal/DSS/distribution/src/idl

Provides the socket interface for DsDdRequestManager Server.

Classes

- DsDdMedia -- Base class for defining media-specific processing associated with a particular media type.

library DsDdS

/ecs/formal/DSS/distribution/src/server/main

The main directory holds the source code for most of the server program. The sibling directories contain specialized code for the different media types. The notable classes are:

DsDdRequestMgrServer: Main server class. Contains instances of the DsDdPriorityQueue, DsDdActiveQueue, DsDdReadyToShipQueue, DsDdDoneQueue, DsDdHoldQueue, DsDdConfiguration, DsDdMediaFactory, DsDdScheduler, DsDdDbConnectionPool, DsDdRequestListS, and DsDdPfConfigFile.

DsDdBaseQueue: This class is the base class for queues. It contains some non-virtual functions along with some virtual functions which the derived classes can define.

DsDdActiveQueue: This is the class for the queue of active data distribution requests. It is implemented as a Singleton (standard design component) class.

DsDdDoneQueue: This class is the class for the queue of shipped data distribution requests. It is implemented as a Singleton (standard design component) class.

DsDdHoldQueue: This class is the class for the queue of holding data distribution requests. It is implemented as a Singleton (standard design component) class.

DsDdPriorityQueue: This class is the class for the queue of pending data distribution requests. It is implemented as a Singleton (standard design component) class.

DsDdReadyToShipQueue: This class is the class for the queue of data distribution requests which are ready to ship. It is implemented as a Singleton (standard design component) class.

DsDdConfiguration: The DsDdConfiguration class is a singleton class which manages configuration information for the DDIST subsystem. It maintains a list of media types and their DLL locations (filename and path). It also maintains the thread limit, age threshold, base path, request path, and response path from the configuration file.

DsDdDCERequestMgrConcrete: This class provides (server-side) definitions for the distributed functions for a widget. This class's job is to contain/convert all DCE signatures and types, using the DCE-independent functions of DsDdRequestMgrReal to actually perform the various operations. This usually involves some conversion of parameters between DCE and non-DCE types.

DsDdDistFileS: Holds the client side file-level information for the distribution request.

DsDdDistListS: Implements the server side of the distribution request, holding the list of granules for the request and estimation information.

DsDdDistRequestS: DDIST server side of request client-server interface; holds information relating to the request. Actual communications with the DDIST server is done up in the DsDdRequestMgrC class and the subclasses of the class.

DsDdDistStatus: The DsDdDistStatus class defines the status information associated with a distribution request.

DsDdGranuleS: Holds the server-side granule-level information and the list of files which comprise the granule; files can be from archives or working areas under STMGT control.

DsDdLogging: The DsDdLogging class is a singleton class, which handles the logging of information and error messages into a particular activity log. It retrieves a list of logging messages, their severity level, and log id and writes the current logging information into the Distribution Activity Log or the System Activity Log.

DsDdMedia: Base class for defining media-specific processing associated with a particular media type. It contains some non-virtual methods which implement common services along with some pure virtual services which the derived classes must define.

DsDdMediaBuilder: Handles loading the shared object executable file for media-specific processing and creating an object instance of the specific class.

DsDdMediaDist: DDIST packaging class which holds a list of granules which will be distributed on the media. This packages the distribution request into media-sized portions, and

manages the distribution of the data for the specific media. A request will have one instance for each media required to fulfill the full request.

DsDdMediaFactory: The DsDdMediaFactory class is a singleton class which handles the creation of DsDdMedia-based classes by loading and managing entry points to DLLs which hold each of the DsDdMedia-based class code, structure, constructors, destructors, methods, attributes, etc.

DsDdPfConfigFile: Database configuration class.

DsDdRequestListS: DDIST class for the server request list. The request list contains a collection of pointers implemented as a linked list to DistRequestS objects.

DsDdRequestMgrMain: No class; contains the main() function.

DsDdRequestMgrReal: This class represents the server-side DCE-independent widget. It is the class that finally performs the distributed operations. It is recommended that all distributed function names are prefixed with "Dist". It is common to provide many functions which aren't distributed (after all, this is the "regular" interface for the class on the server side), since clients usually only need a subset of the services that the server itself needs from a distributed object. Naming the distributed functions with a "Dist" prefix makes it easy to distinguish them from non-distributed functions, and may eventually allow a tool to automatically generate the underlying communications code required for distributed classes.

DsDdRequestStatus: Class for defining the status of a request from the view of DDist down. One status for ddist; another for stmgt.

DsDdScheduler: This class is responsible for multi-threading requests.

DsDdTestSuiteS: The DsDdTestSuite is a collection of test methods collected into a class for ease of maintenance and testing. While it is not part of the production deliverables it will be useful as long as the DsDd* classes are in use; it will become part of the test legacy for the system.

Classes

- DsDdActiveQueue -- This class is the class for the queue of active data distribution requests.
- DsDdAuxState -- Class designed to support auxiliary state info with persistence for recovery and for request resumption.
- DsDdBaseQueue -- This class is the base class for queues.
- DsDdCBCache -- This class stores the capacity and block size for each media type.
- DsDdConfiguration -- The DsDdConfiguration class is a singleton class which manages configuration information for the DDIST subsystem.
- DsDdDistFileS -- Holds the client side file-level information for the distribution request.
- DsDdDistListS -- Implements the server side of the distribution request, holding the list of granules for the request and estimation information.
- DsDdDistRequestS -- DDIST server side of request client-server interface; holds information relating to the request.

- DsDdDistStatus -- The DsDdDistStatus class defines the status information associated with a distribution request.
- DsDdDoneQueue -- This class is the class for the queue of shipped data distribution requests.
- DsDdGranuleS -- Holds the server-side granule-level information and the list of files which comprise the granule; files can be from archives or working areas under STMGT control.
- DsDdHoldQueue -- This class is the class for the queue of holding data distribution requests.
- DsDdMedia -- Base class for defining media-specific processing associated with a particular media type.
- DsDdMediaDist -- DDIST packaging class which holds a list of granules which will be distributed on the media.
- DsDdMediaFactory -- The DsDdMediaFactory class is a singleton class which handles the creation of DsDdMedia-based classes by loading and managing entry points to DLLs which hold each of the DsDdMedia-based class code, structure, constructors, destructors, methods, attributes, etc.
- DsDdOrderTracking -- Class DsDdOrderTracking.
- DsDdPfConfigFile -- The DsDdPfConfigFile class is a singleton class.
- DsDdPriorityQueue
- DsDdReadyToShipQueue -- This class is the class for the queue of data distribution requests which are ready to ship.
- DsDdRequestListS -- DDIST class for the server request list.
- DsDdRequestMgrReal -- This class represents the server-side DCE-independent widget.
- DsDdRequestMgrServer
- DsDdRequestStatus -- File: DsddRequestStatus.h.
- DsDdScheduler -- This class is responsible for multi-threading requests.
- DsDdTestSuiteS -- The DsDdTestSuite is a collection of test methods collected into a class for ease of maintenance and testing.
- DsDdThreadPool -- Locking: assumed to be used by done explicitly by clients with their own locks.
- DsDdUtilS -- General utility class for distribution server.

library DsDe1

/ecs/formal/DSS/sdsrv/src/de1

This internal library contains the methods to validate metadata, install ESDTs, send metadata to IOS and DMS, register events with SBSRV, and generate MCF files for insert.

Classes

- DsDeCustomizer -- Base class that provides the ability to customize features of an ESDT.
- DsDeCustomizerVector -- This is a container class for customizers for a given datatype.
- DsDeDataDictController -- This class encapsulates SDSRV's interaction with DDICT.

- DsDeDDCustomizer -- This class provides the ability to customize the data dictionary information for an ESDT.
- DsDeDescriptor -- This is the server side class that provides an interface to the descriptor.
- DsDeDescriptorBuilder -- This class reads in the ASCII file that defines the descriptor for a particular type.
- DsDeDescriptorImp -- This class contains all of the attributes and associated implementation of the descriptor class.
- DsDeDescriptorModifier -- This class provides the ability to contain the modified information of descriptor for an ESDT.
- DsDeDescriptorSet -- DsDeDescriptorSet is the keeper of all descriptors.
- DsDeEventCustomizer -- This class provides the ability to configure the an event recognized by the ESDT.
- DsDeEventCustomizerVector -- This is a container class for the set of event customizers for a given datatype.
- DsDeEventTable -- This class holds the cross reference of event names to event IDs.
- DsDeExpressionRule -- Contains the functions common to all expression rules including real and symbolic.
- DsDeMetadataCustomizer -- This class provides the ability to customize metadata attributes for an ESDT.
- DsDeMetadataCustomizerVector -- This is a container class for the set of metadata customizers for a given datatype.
- DsDeRealRuleFactory -- This class is a specialization of the RuleFactory class.
- DsDeRule -- This is an abstract base class for all validation rules.
- DsDeRuleFactory -- This class provides the interface by which all rules are created.
- DsDeServiceCustomizer -- Provides the ability to customize the services that an ESDT recognizes.
- DsDeStructCustomizer -- This class provides the ability to customize the CSDT type and format that an ESDT is implemented with.
- DsDeStructCustomizerVector -- Provides the ability to configure the CSDT implementation of a datatype.
- DsDeSymbolicExpressionRule -- Specifies an expression for value validation.
- DsDeSymbolicMatchRule -- Specifies a set of valid values for an attribute.
- DsDeSymbolicRangeRule -- Specifies a valid range which includes a minimum value and a maximum value.
- DsDeSymbolicRule -- This is an abstract base class that provides the interface for creating concrete symbolic rules.
- DsDeSymbolicRuleFactory -- This class is used to create symbolic rules of the correct type.

Templates

- DsDeRealExpressionRule -- This template is used to specify an expression for validation.
- DsDeRealMatchRule -- This template is used to specify a set of valid values for an attribute.
- DsDeRealRangeRule -- This template is used to specify a valid range which includes a minimum value and a maximum value.

library DsDe2

/ecs/formal/DSS/sdsrv/src/de2

The De1, De2 directory builds on library, DsDe1, DsDe2, which has static and sa red versions.

Classes

- DsDeAttNode -- Holds a single metadata attribute and provides services with respect to that attribute.
- DsDeConvert -- Used to do various types of conversions that are needed by the descriptor.
- DsDeDDAttribute -- Holds the dictionary information for DID 311 attributes.
- DsDeDDContent -- Holds the dictionary information for container objects.
- DsDeDictionary -- This class is used to hold the DID311 dictionary information.
- DsDeESDTCreator -- This class is used to add a new ESDT to the system.
- DsDeGroupNode -- Provides services with respect to the set of attributes.
- DsDeMCFBuilder -- Writes the MCF to a stream and also is capable of filtering out sections of the MCF.
- DsDeMCFtoODL -- Generates the MCF file in ODL.
- DsDeNode -- Holds any kind of metadata attribute part and is used to make arbitrary nested metadata constructs.
- DsDePSGroup -- Holds product specific metadata attributes.
- DsDePSNode -- Provides services for a single product specific metadata attribute.
- DsDeRealRule -- Provides the interface to creating concrete rules.

library DsGe

/ecs/formal/DSS/sdsrv/src/ge

This library provides the public interface for access to all ESDT services and ESDT specifications.

Classes

- DsGeDynamicLibrary -- Class that implements the dynamic library loading.
- DsGeECSDDataProduct -- Inherit from the public ESDT class, which provides basic ESDT functionality.
- DsGeESDT -- Inherit from the public class - provides basic ESDT functionality.

- DsGeESDTCConfiguration -- This class is used to determine ESDT configuration information.
- DsGeESDTCConfiguredType -- This struct is used to hold the information for a ESDT type.
- DsGeESDTDynamicLibrary -- This class performs runtime loading of ESDT libraries for a data type.
- DsGeESDTSERVICEProvider -- This abstract base class provides all of the truly public methods for ESDTs and ESDT Wrappers.
- DsGeESDTEWrapper -- This class encapsulates the ESDT functionality and provides the public interface for access to all ESDT services.
- DsGeMetadataUpdate -- This class models the update of metadata, specifically for update during a subsetting operation on a ESDT object.
- DsGeOID -- This class provides a mechanism for uniquely identifying a data granule within a DataServer.
- DsGeScienceData -- Inherit from the public ESDT class, which provides basic ESDT functionality.

library DsHc

/ecs/formal/DSS/sdsrv/src/hc

The library libDsHc(static and shared versions) provides a DCE-independent client interfaces for both Conformant and NonConformant subsetting.

Classes

- DsHcClient -- This is the definition of HDF client that can use Process Frame Work.
- DsHcConformant -- Provides a DCE independent interface for Conformant Subsetting.
- DsHcNonConformant -- Provides a DCE independent interface for the NonConformant Subsetting.

library DsHr

/ecs/formal/DSS/sdsrv/src/hr

This library encapsulates all DCE exposure for the distributed objects and functions for both Conformant and NonConformant subsetting on the server side for HdfEos server. It also provides a client Proxy interface to the server's distributed objects. It contains the mechanisms for asynchronization and rebinding.

Classes

- DsHrAsynchRequest -- Contains the mechanisms of asynchronous requests to accommodate long requests such as WriteFile().
- DsHrConformantProxy -- Provides a client interface to the server's distributed object.
- DsHrDCEConformantConcrete -- Encapsulates all DCE exposure for the connection objects on the server side.

- DsHrDCENonConfConcrete -- Encapsulates all DCE exposure for the connection objects on the server side.
- DsHrEnv -- This class provides the ability to check and get environment variables that are required by HDF operations.
- DsHrEvent -- Represents an event on which the restart manager will work off.
- DsHrFhExecutor -- This is Fault handler class for DsHrConformantProxy and DsHrNonConfProxy.
- DsHrHdfEosListener -- This class is to compare the current memory size with the previous and according to some established policy, restart the HdfEos server or shut down the HdfEos server.
- DsHrListener -- The class is an abstract class which is instantiated by its derived class - DsHrHdfEosListener.
- DsHrManagedServer -- This class is derived from EcPfManagedServer and invoked by HDFEOS server.
- DsHrNonConfProxy -- Provides a client interface to the server's distributed object.
- DsHrQuit -- Server-side class that implements code to shutdown the Hdf Eos Server.
- DsHrRestartManager -- Manages server restart upon receiving events and signals.
- DsHrTools -- Provides common functions needed by both Proxy and Concrete.
- DsTHrBoundingBox -- This class represent for boundary Latitude and Longitude.
- DsTHrInterval -- This DsTHrInterval class represent for IntervalStartTime and IntevalStopTime.
- DsTHrLatLon -- This class represent for specified region (Latitude and Longitude) for floating scences Acquire.
- DsTHrSwathScan -- This class represent for startscan and stopscan numbers in floating scences acquire.

library DsLg

/ecs/formal/DSS/sdsrv/src/lg

This library provides a utility to hide the details of the Logging system.

library DsMd1

/ecs/formal/DSS/sdsrv/src/md

This library contains the low level SDSRV code responsible for accessing the sybase database.

Classes

- DsMdAttributeList -- This singleton class stores the description of a stored procedure or dynamic SQL statement associated with Insert, Update, or Retrieval of a GIParameList to the database.
- DsMdCatalogBase -- This class is used to write entities to the Sybase database.

- DsMdCollDictionary -- This singleton class is used to cache the collection level metadata for ESDTs stored within the SDSRV.
- DsMdID -- This class serves as a wrapper class around the database ID.
- DsMdJoinTable -- This singleton class is used to store all the possible joins between the various tables in the database.

library DsMd2

/ecs/formal/DSS/sdsrv/src/md

This library contains the low level SDSRV code responsible for reading incoming "metadata" (md) from ODL files and storing it to the sybase database.

Classes

- DsMdCatalog -- This class controls the metadata transactions: Insert, Update, Retrieve, and Search.
- DsMdCollDictionary -- This singleton class is used to cache the collection level metadata for ESDTs stored within the SDSRV.
- DsMdESDTConstraint -- This class contains the definitions for the DsMdESDTConstraint class.
- DsMdESDTConstraintArray
- DsMdGRingPoint -- This class supports GPolygon metadata insert by providing a class whose objects can be sorted by the "SequenceNumber" of the point.
- DsMdMetadata -- This class serves as a wrapper around the GIPParameterList containing the metadata attributes.
- DsMdODL -- This class holds an ODL structure from an external file in memory and provides interfaces to manipulate this structure.

library DsMd3

/ecs/formal/DSS/sdsrv/src/md

This library contains the low level code for converting Search constraints to SQL, and recreating the metadata (GIPParameterList and ODL format) from the database.

Classes

- DsMdAttr -- This class is not currently used by the system but is intended to help with porting from Sybase to other database systems.
- DsMdBaseDep -- Contains the list of tables to be processed as part of a metadata DeletePhysical.
- DsMdCommand -- Supports DeletePhysical by translating logical action names and table names to the corresponding Stored Procedure to execute.
- DsMdConvertToFromSQL -- This takes standard format input and converts to Database SQL commands.

- DsMdInsertSeq -- Contains the list of metadata lists to be processed as part of a metadata Insert.
- DsMdLookuptableBase -- A base class and derived singleton classes for maintaining lookup tables initially loaded from the database.
- DsMdOperator -- Translates from a logical operator name to the actual physical string required by the DBMS.
- DsMdUnloadList -- Contains the list of metadata lists to be processed as part of a metadata Retrieval.
- DsMdUpdateXrefList -- Contains the list of metadata lists to be processed as part of a metadata Update.

library DsMs

/ecs/formal/DSS/sdsrv/src/ms

This library is responsible for translating SDSRV client queries into the SQL needed by the database server.

Classes

- DsMsANDConstraint
- DsMsAttributeInfo
- DsMsConstant
- DsMsConstraint
- DsMsDatetimeConstraint
- DsMsFloatConstraint
- DsMsIntConstraint
- DsMsNullConstraint
- DsMsORConstraint
- DsMsReachablePair
- DsMsSearch
- DsMsSpatialConstraint
- DsMsStringConstraint
- DsMsTableInfo -- Enumerations.
- DsMsUtility

library DsSh

/ecs/formal/DSS/sdsrv/src/sh

This library provides underlying DCE (OODCE) mechanism and fundamental implementation for both client and server side of SDSRV.

Classes

- DsShByteBuffer -- This class is used to manage the saving and restoring of data buffers to and from a stream.
- DsShCommHandle -- This class uses registered context handling for requests between SDSRV and its clients.
- DsShCommList -- This class is a singleton container class for the DsShCommandHandle object.
- DsShCompression -- Defines the type of compression.
- DsShConnectionFhExecutor
- DsShConnectionProxy -- This class provides a client interface to the server's connection distributed object.
- DsShConnectionReal -- This class provides a server interface to the server's connection distributed object.
- DsShConVar -- Provides a condition variable class that encapsulates (and provides roughly the same functionality as) the underlying (currently DCE/pthreads) condition variable implementation.
- DsShDCEConnectionConcrete -- This class encapsulates all DCE exposure for the connection objects on the server-side.
- DsShDCEDescriptorConcrete -- This class encapsulates all of the DCE behavior and signatures for Descriptors and Descriptor collectors.
- DsShDCEInterface -- This class encapsulates DCE implementations of DO interface functions, and adds other functions needed by other DCE implementation objects.
- DsShDCEsRequestConcrete -- This server-side class encapsulates all of the DCE behavior and signatures for srequests, and communicates with an associated DsShSRequestReal in a "DCE-clean" manner.
- DsShDescriptorFhExecutor
- DsShDescriptorProxy -- This class provides a DCE-independent interface to the Descriptor object and to the set of descriptor objects.
- DsShDescriptorReal -- This class provides a server interface to the server's request distributed object.
- DsShError -- This class is used for exceptions and error reporting in dataserver functions.
- DsShErrorDetails -- DsShErrorDetails is an accessor class for obtaining detailed information about an error code received from downstream.
- DsShESDTProvider -- This class is a shell provider for the ESDT UR.
- DsShESDTUR -- A UR is a persistent, transportable identifier that refers to C++ objects.
- DsShGate -- Class declarations for DsShGate.
- DsShGateKey
- DsShLogging -- This class logs all DSS messages to a log, the definition of the severity level of messages logged, and a definition of the event types logged.

- DsShManagedClient -- DSS client which uses Process Frame Work.
- DsShMutex -- This class provides a mutex class that encapsulates the underlying (currently DCE) mutex implementation.
- DsShMutexLock -- DsShMutexLock.
- DsShODLMutex -- This mutex will protect access to single thread ODL lib.
- DsShQuitProxy -- Client interface to the server shutdown class.
- DsShQuitReal -- This is a server-side class that implements code to shutdown the dataserver.
- DsShRequest -- This is the core data of every command.
- DsShSciServerUR -- Universal Reference for binding information to Science Data Server.
- DsShServerUR -- Generic Server UR.
- DsShServerURProvider -- Provides URs to clients.
- DsShSRequestProxy -- This class provides a client interface to the server's request distributed object, and translates the data types into the required DCE formats before calling the underlying DCE client-side request object.
- DsShSRequestReal -- DsShSRequestReal.
- DsShThread -- This class provides a thread class that encapsulates (and provides roughly the same functionality as) the underlying (currently DCE/pthreads) thread implementation.
- DsShTSSStorage -- This class provides a thread specific storage service.
- DsShTypeID -- This class represents a unique ESĐT.

library DsSi

/ecs/formal/DSS/sdsrv/src/si

The DsSi library provides database support for the persistent system information including system requests and service commands.

Classes

- DsSiMemMonitor -- This class is used to reserve and monitor free memory conditions within the process.
- DsSiSysDataCatalog

library DsSr

/ecs/formal/DSS/sdsrv/src/sr

This is an internal library for Science Data Server.

Classes

- DsSrConnectionMaker -- Provides a specialized NewConnection function for DsShDCEConnectionConcrete to create DsSrSession objects.
- DsSrDescriptorMaker -- Provides specialized services for creation of server side descriptor objects.

- DsSrEnv -- This class provides the ability to check and get environment variables that are required by DSS operations.
- DsSrGenCatalogPool -- A pool of catalogs is maintained by DsSrGenCatalogPool, an example of the singleton pattern.
- DsSrGenCatalogWrapper -- Used by data server objects to obtain access to a catalog.
- DsSrHDFServerPool -- Used by the Science Data Server to obtain access to the HDF EOS Servers.
- DsSrHDFServerToken -- Used by the Science Data Server to obtain access to the HDF EOS Servers.
- DsSrManagedServer -- Hides the interface between MSS and the application by instantiating the EcAgManager object.
- DsSrRequest -- Server side object that represents a request to the Science Data Server.
- DsSrSession -- A specialization of the DsSrGenQueuedConnection class that adds DsSrWorkingCollection-oriented behavior to the connection.
- DsSrSysCatalogPool -- Used by Science Data Server objects to obtain access to a System Catalog.
- DsSrSysCatalogWrapper -- Used by Science Data Server objects to obtain access to a System Catalog.
- DsSrWarmStartManager -- Processes the unfinished asynchronous acquire requests that were left over the last time the Science Data Server was operating.
- DsSrWorkingCollection -- Executes commands by category.

library DsSt8MMServer

/ecs/formal/DSS/stmgt/src/media/server

This directory contains the source code for all media servers, including the DTF server, the 8 MM server, the DLT server, and the CDROM server. The source code creates both libraries and executables for the Sun platform.

Classes

- DsSt8MMReal -- This class is used for thread management for 8 MM server providing priority queueing for all requests.
- DsSt8MMServiceThread -- This class provides functionalities for 8 MM services.

library DsStArClientAsync

/ecs/formal/DSS/stmgt/src/archive

This library libDsStArClientAsync is used by asynchronous clients (ie other STMGT Servers) of the Archive Server to perform archive retrievals and archive stores.

Classes

- DsStArchiveAsyncIF --

- DsStArchiveRequest -- Contains the methods used by the synchronous and asynchronous client library to create requests.
- DsStArchiveRestoreParams -- This class restores parameters.
- DsStArchiveResult -- Contains the methods used by the asynchronous client library to retrieve request results.
- DsStArchiveRPCQueue -- This class performs storing or retrieving data in memory queue.
- DsStArchiveRPCReadQueue -- DsStArchiveRPCQueue.h.
- DsStArchiveRPCWriteQueue -- This class derived from DsStArchiveRPCQueue.
- DsStArchiveSuspendQueue -- A queue which stores a list of suspended Archive Server request.
- DsStFileParameters -- Provides basic CSDT functionality.

library DsStArClientSync

/ecs/formal/DSS/stmgt/src/archive

This library libDsStArClientSync is used by synchronous clients of the Archive Server to perform archive retrieves and archive stores.

Classes

- DsStArchive
- DsStArchiveRequest -- Contains the methods used by the synchronous and asynchronous client library to create requests.
- DsStArchiveRestoreParams -- This class restores parameters.
- DsStArchiveResult -- Contains the methods used by the asynchronous client library to retrieve request results.
- DsStArchiveRPCQueue -- This class performs storing or retrieving data in memory queue.
- DsStArchiveRPCReadQueue -- DsStArchiveRPCQueue.h.
- DsStArchiveRPCWriteQueue -- This class derived from DsStArchiveRPCQueue.
- DsStArchiveSuspendQueue -- A queue which stores a list of suspended Archive Server request.
- DsStFileParameters -- Provides basic CSDT functionality.

library DsStArServer

/ecs/formal/DSS/stmgt/src/archive

This library libDsStArServer is used by the ArchiveServer to perform its core functions.

Classes

- DsStArchive
- DsStArchiveDBIF -- This class interfaces with DsStCommonDBIF to perform DB queries.

- DsStArchiveReadReal -- This class is used for thread management, providing priority queueing for all requests.
- DsStArchiveReadThread -- This class provides thread services for read operations.
- DsStArchiveReal -- This class provides a server interface to the server's request distributed object.
- DsStArchiveRPCInfo -- This class provides a central point of reading the attributes from the database, and provides controlled mechanisms for updating these attributes in the database for archive server.
- DsStArchiveRPCQueue -- This class performs storing or retrieving data in memory queue.
- DsStArchiveRPCReadQueue -- DsStArchiveRPCQueue.h.
- DsStArchiveRPCWriteQueue -- This class derived from DsStArchiveRPCQueue.
- DsStArchiveServiceThread -- This class performs various operations required by the requests.
- DsStArchiveSuspendQueue -- A queue which stores a list of suspended Archive Server request.
- DsStArchiveWriteReal -- This class is used for thread management for write operation, providing priority queueing for all requests.
- DsStArchiveWriteThread -- This class provides thread services for write operations.
- DsStFileParameters -- Provides basic CSDT functionality.

library DsStCHSService

/ecs/formal/DSS/stmgt/src/media/service/device

This directory contains source code for service classes which provide access to devices, both for standalone and stacker-based devices. The source code produces libraries for the Sun platform.

Classes

- DsStCHSElemSpec -- Provides a data structure to store the element status obtained from CHS command.
- DsStCHSStackerLib -- This class provides functionalities to control the Exabyte 8 mm tape stacker devices via system calls to Cartridge Handling System (CHS) commands.

library DsStCmClient

/ecs/formal/DSS/stmgt/src/cache

The library libDsStCmClient is used by CacheManager clients (EcDsStArchiveServer & EcDsStFtpServer) to access the functionality of the CacheManager Server.

Classes

- DsStCacheManagerAsyncIF -- Contains the methods used by clients as the asynchronous interface to the Cache Manager (PullMonitor or StagingMonitor)

- DsStCacheManagerRequest -- Contains the methods used by the asynchronous client library to create requests.
- DsStCacheManagerResult -- Contains the methods used by the asynchronous client library to retrieve request results.

library DsStCmnDb

/ecs/formal/DSS/stmgt/src/cmn/db

The library libDsStCmnDb is used by STMGT Servers to access core database functionality including database connection, stored procedure execution and database transaction processing.

Classes

- DsStCommonDBIF -- If a global instance is needed which is outside of a class declare the variable static.
- DsStDbConnection -- This class creates the database connection.
- DsStDbConnectionManager -- This class manages database connections.
- DsStDbInterface -- Database (Sybase) interface class to encapsulate database related services such as: connect, execute, fetch result.
- DsStDictionary -- Data dictionary that maps a string name to a string value.
- DsStParameter -- Represents a value of a parameter.
- DsStParameterList
- DsStStoredProcedures -- This class is used for executing stored procedures in database.
- DsStStProcTable -- This is a singleton used to create a dictionary that associates a stored procedure name with a list of parameters in the order that they appear in the stored procedure declaration.

library DsStCmnDCE

/ecs/formal/DSS/stmgt/src/cmn/dce

The library libDsStCmnDCE is used by STMGT Servers to access core DCE functionality.

Classes

- DsStBaseCFhExecutor -- All custom stmgt executors will inherit from this class.
- DsStDCEServer -- Security.
- DsStServerConcrete -- Declarations for DsStServerConcrete class which is a pure virtual base class used to invoke the Startup() method.

library DsStCmnFileIO

/ecs/formal/DSS/stmgt/src/cmn/fileio

The library libDsStCmnFileIO is used by STMGT Servers to access core io functionality including checksumming, copying and compression.

Classes

- DsStChecksumService -- Class declaration to calculate check sum.
- DsStCompressCreator -- This class is to return the object of the type of compression requested.
- DsStCopyService -- Class declaration to copy files.
- DsStFileCompress -- This class is to compress files.
- DsStUnixCompress -- This class is used to do Unix compression.
- DsStUtility -- This class performs various utility functions for file IO.

library DsStCmnLogging

/ecs/formal/DSS/stmgt/src/cmn/logging

The library libDsStCmnLogging is used by STMGT Servers to access error code and logging functionality.

Classes

- DsStErrorDetails -- DsStErrorDetails is an accessor class for obtaining detailed information about an error code received from downstream.
- DsStLogging -- This class provides a logging mechanism for storage management.
- DsStPerfLogger -- This class is a wrapper around the EcUtPerfData class which allows it's users to avoid having to include the EcUtPerfData.h file.

library DsStCmnServer

/ecs/formal/DSS/stmgt/src/cmn/server

The library libDsStCmnServer is used by STMGT Servers to access core server functionality including database access parameters and thread configuration.

Classes

- DsStProcess -- This class is used by all the of the storage management servers to bring up the server process.
- DsStTestDriver -- .

library DsStCmServer

/ecs/formal/DSS/stmgt/src/cache

The library libDsStCMServer is used by the CacheManager Server to access core functionality.

Classes

- DsStCacheManagerReal -- This class provides the cache manager server interface to process requests.

- DsStCacheManagerRPCInfo -- This class provides a central point of reading the attributes from the database, and provides controlled mechanisms for updating these attributes in the database for cache manager server.
- DsStCacheManagerServiceThread -- Contains the methods used by the CacheManager server to process requests.

library DsStDeviceService

/ecs/formal/DSS/stmgt/src/media/service/device

This directory contains source code for service classes which provide access to devices, both for standalone and stacker-based devices. The source code produces libraries for the Sun platform.

Classes

- DsStDeviceService -- This base class describes a service of a device.
- DsStStackerDBIF
- DsStStackerLib -- This class provided a rather abstract interface for Stacker Hardware.
- DsStStackerService -- The DsStStackerService is derived from the DsStDeviceService class and is used by the servers to process stacker media request.

library DsStDTFServer

/ecs/formal/DSS/stmgt/src/media/server

This directory contains the source code for all media servers, including the DTF server, the 8 MM server, the DLT server, and the CDROM server. The source code creates both libraries and executables for the Sun platform.

Classes

- DsStDTFReal -- It inherits thread management capability from DsStBaseReal as well as providing a basic framework for DTF server on queueing all requests.
- DsStDTFServiceThread -- Overload device dependent operations such as MountTape and UnMountTape for DTF device.

library DsStFtp

/ecs/formal/DSS/stmgt/src/ftp/service

The library libDsStFtp is used by STMGT Servers to perform file transfers using ftp.

Classes

- DsStFtpService -- Library for ftpd clients.(libftp).

library DsStFtpClientSync

/ecs/formal/DSS/stmgt/src/ftp/client

This directory contains the source code for the client interface to the FTP Server.

Classes

- DsStFtpClient -- Clients will be indirectly using objects of this class through DsStResourceProvider object DsStFtpClient class provides functions to allocate and deallocate devices, submit requests, and mounting and removing media on drive.
- DsStFtpRequest -- This class provides mechanisms for distribution pull and push requests and also for requests from ingest server by the DsStFtpClient class.
- DsStFtpRestoreParams -- This class reconstitutes the status from the result set of a trivial request.
- DsStFtpResult -- This class captures the result of a ftp transaction.

library DsStFtpServer

/ecs/formal/DSS/stmgt/src/ftp/server

The code in the disftp directory provides the server side code for handling distribution ftp requests. The server utilizes the CSS provided ftp interface to provide the ftp push services. The ftp pull services also utilize the CSS provided interface to ftp in order to push the files to the pull cache area where they are monitored by the Pull Monitor server (code found in the pull subdirectory under src). This code will run on both Sun and SGI platforms.

Classes

- DsStFtpReal -- This class is used for thread management for ftp server providing priority queueing for all requests.
- DsStFtpRPCInfo -- This class defines the attributes associated with FTP requests.
- DsStFtpServiceThread -- This class performs various operations required by the requests in ftp server including services for ftp push and ftp pull.

library DsStGuiCmn

/ecs/formal/DSS/gui/src/cmn

This static library provides Gui interface to stmgt GUI.

Classes

- DsGuBusyCursor -- The constructor and destructor are always called in pairs to set/reset the cursor to indicate that the application is busy and unable to process user input in a window.
- DsGuErrorDialog -- Created by Builder Xcessory Version 5.0.8.
- DsGuExtendedList -- This class provides utility routines for use with the BX extended list widget.
- DsGuIntegerControl -- The DsGuIntegerControl class represents an editable widget that is used to store integers.
- DsGuOperatorMessage -- This Class is used to create the widget on the STMGT GUI which contains a Messages to be displayed to the operator alerting him of status of the system.
- DsGuRealControl -- Created by Builder Xcessory Version 5.0.8.

- DsGuStreetLight -- Created by Builder Xcessory Version 5.0.8.
- UIComponent -- Base class for all C++/Motif UI components.

library DsStMediaClientAsync

/ecs/formal/DSS/stmgt/src/media/client

The library DsStMediaClientAsync is used by the asynchronous clients of the media to request media services.

Classes

- DsStMediaAsyncIF -- This class provides to the client of the media an asynchronous interface.
- DsStMediaRequest -- This class creates a media request object which is used by DsStMediaClient class.
- DsStMediaRestoreParams -- This class reconstitutes the status from the result set of a trivial request.
- DsStMediaResult -- This class serves to get the results of a request from the database.
- DsStStackerRequest -- This class is used to create a request for a stacker device.
- DsStStackerResult -- This class serves to get the results of a request from the database.

library DsStMediaClientSync

/ecs/formal/DSS/stmgt/src/media/client

The library DsStMediaClientSync is used by the synchronous clients of the media to request media services.

Classes

- DsStMediaClient -- Clients will be indirectly using objects of this class through DsStResourceProvider object.
- DsStMediaRequest -- This class creates a media request object which is used by DsStMediaClient class.
- DsStMediaRestoreParams -- This class reconstitutes the status from the result set of a trivial request.
- DsStMediaResult -- This class serves to get the results of a request from the database.
- DsStResourceProvider -- This class is the parent class for all the resources such as DLT, D3 , 8 mm tape drive, ftp.
- DsStStackerRequest -- This class is used to create a request for a stacker device.
- DsStStackerRestoreParams -- This class provides functionalities for retrieving parameters included in a DsStResultSet object.
- DsStStackerResult -- This class serves to get the results of a request from the database.

library DsStMediaServers

/ecs/formal/DSS/stmgt/src/media/server

This directory contains the source code for all media servers, including the DTF server, the 8 MM server, the DLT server, and the CDROM server. The source code creates both libraries and executables for the Sun platform.

Classes

- DsStMediaRPCInfo -- This class defines the attributes associated with Media requests.
- DsStMediaServiceThread

library DsStMediaService

/ecs/formal/DSS/stmgt/src/media/service/media

This directory contains source code for service classes which provide access to media, both for media distribution and media ingest purposes. The source code produces libraries for the Sun platform.

Classes

- DsStMediaService -- Class DsStMediaService works as a root class to enable that all overridden member functions in the subclasses can be polymopohically referenced in DsStMediaServiceThread level.
- DsStStackerDBIF
- DsStTapeService -- This class distributes files from staging disk to tape media.
- DsStTarFormat

library DsStMediaStaging

/ecs/formal/DSS/stmgt/src/media/staging

This directory contains source code to support local staging of data for all media servers. The source code creates libraries for the Sun platform.

Classes

- DsStMediaStagingReal -- This class is used for thread management for media server providing priority queueing for all requests.
- DsStMediaStagingServiceThread -- This class is used by the media server to process requests.

library DsStRmClient

/ecs/formal/DSS/stmgt/src/reqmgr

The library libDsStRmClient is used by STMGT clients to access STMGT servers through the DCE Interface.

Classes

- DsStRequestManager -- This is the base class for all client interfaces to STMGT servers.
- DsStRequestManagerProxy -- This is the base class for all client-side DCE interfaces to STMGT servers.

library DsStRmServer

/ecs/formal/DSS/stmgt/src/reqmgr

The library lib_DsStRmServer is used by the Request Manager to access core request functionality. This includes thread management and request processing.

Classes

- DsStHousekeeper -- This class provides a thread to check for completed requests.
- DsStRequest -- This class describes all possible states of a request.
- DsStRequestCleaner -- This class is used for cleaning requests from the database.
- DsStRequestManagerConcrete -- This class provides (server-side) definitions for the distributed functions for a widget.
- DsStRequestManagerReal -- This class used for thread management for Request Manager server providing priority queueing for all requests.
- DsStRequestManagerServiceThread -- This class manages all the service threads.
- DsStRequestQueue -- This class provides queueing mechanism for DsStRequest objects.
- DsStThreadInfo -- Contains information for cleaning requests from the database.

library DsStSdClientAsync

/ecs/formal/DSS/stmgt/src/sdisk

The library libDsStSdClientASync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.

Classes

- DsStStagingDiskAsyncIF -- It provides the clients of staging servers an asynchronous interface.
- DsStStagingDiskFile -- This class describes a staging disk file with its name and size.
- DsStStagingDiskRequest -- Contains the methods used by the synchronous and asynchronous client library to create requests.
- DsStStagingDiskRestoreParams -- Contains the methods used by the client library to reconstitute return values.
- DsStStagingDiskResult -- Contains the methods used by the asynchronous/synchronous client library to retrieve result results.

library DsStSdClientSync

/ecs/formal/DSS/stmgt/src/sdisk

The library libDsStSdClientSync is used by the clients of the Staging Disk Server to allocated and attach to staging disks, copy and link files in staging disks and to create subdirectories in staging disks.

Classes

- DsStStagingDisk -- DsStStagingDisk class allows access to files and directories on the working storage disk space managed by the storage management software.
- DsStStagingDiskController -- This class allows another class to update the Staging Disk remaining space and have access to the path for the staging Disk Users of this class take explicit responsibility for the updates to the size of the staging disk.
- DsStStagingDiskFile -- This class describes a staging disk file with its name and size.
- DsStStagingDiskRequest -- Contains the methods used by the synchronous and asynchronous client library to create requests.
- DsStStagingDiskRestoreParams -- Contains the methods used by the client library to reconstitute return values.
- DsStStagingDiskResult -- Contains the methods used by the asynchronous/synchronous client library to retrieve result results.
- DsStStream -- Wrapper around the fstream object class to allow for users to update files on staging disk while a count of the number of bytes added to or subtracted from the file is maintained so that the remaining size of the staging disk is maintained correctly.

library DsStSdServer

/ecs/formal/DSS/stmgt/src/sdisk

This directory contains the source code for the Staging Disk Server. Both client interface code and the server itself are located in this directory. The source code creates both libraries and executables for the Sun and SGI platforms.

Classes

- DsStStagingDiskReal
- DsStStagingDiskRPCInfo -- This class provides a central point of reading the attributes from the database, and provides controlled mechanisms for updating these attributes in the database for staging server.
- DsStStagingDiskServiceThread -- Contains the methods used by the StagingDisk server to process requests.
- DsStStagingDiskTable -- The DsStStagingDiskTable class is the interface to the staging disk table and the inventory table in the database.

library DsStSecureCopyClient

/ecs/formal/DSS/stmgt/src/secure/client

This library libDsStSecureCopyClient is used by client to perform secure copy.

Classes

- DsStSecureCopy -- Contains the methods for the secure copy.
- DsStSecureCopyClient

library DsStStandaloneService

/ecs/formal/DSS/stmgt/src/media/service/device

This directory contains source code for service classes which provide access to devices, both for standalone and stacker-based devices. The source code produces libraries for the Sun platform.

Classes

- DsStStandaloneService -- This class controls the media allocation and deallocation for D3 Ingest and DoDistribution.

library DsStTmClient

/ecs/formal/DSS/stmgt/src/threadmgr

The library libDsStTmClientSh is used by STMGT Servers that are asynchronous clients of other STMGT Servers.

Classes

- DsStBaseAsyncIF -- This class is a base class which is inherited by all storage management servers.
- DsStPatron -- DsStPatron's sole reason for existence is to provide a static method, AwakenRemoteServer, which attempts to make a connection to a server.
- DsStRemoteServer -- DsStRemoteServer contains information necessary to make a socket connection to a remote server for the purposes of waking up the server.

library DsStTmServer

/ecs/formal/DSS/stmgt/src/threadmgr

The library libDsStTmServerSh is used by STMGT Servers to access core functionality for managing service threads, manager threads and request information.

Classes

- DsStBaseReal -- This is the base class for all STMGT servers.
- DsStRandomDelay -- DsStRemoteServer.
- DsStReceptionist -- This class provides the common mechanism for one server to awaken another, where both servers are based on the thread manager architecture.

- DsStRPCInfo -- This class defines the attributes associated with any request in Storage Management.
- DsStServiceThread -- This is a base class for thread service.

library DsStTmShared

/ecs/formal/DSS/stmgt/src/threadmgr

The library libDsStTmSharedSh is used by STMGT Servers to access functionality necessary to process remote and local transactions.

Classes

- DsStDBIFTransaction -- Class declaration to execute a remote transaction via common DBIF.
- DsStRemoteSP -- This class represents a remote stored procedure.
- DsStRemoteTransaction -- This class handles the remote transactions for stored procedure call.
- DsStResultSet -- This class is a data dictionary that maps a string name to a string value. Constructor takes in flatten resultset and then reconstructs a result set from the string format.
- DsStResultValue -- This class represents the type and value of an object.

library DsTI

/ecs/formal/DSS/sdsrv/src/tl

This library provides typed safe (smart) pointers / objects for RogueWave classes and a utility to make logging complex error messages easier.

library EcAgInstrm

/ecs/formal/MSS/MACI/src

This library contains the instrumentation code which is linked into all ECS managed servers.

Classes

- EcAgConfigFile -- This class embodies the characteristics and operations of the management configuration file.
- EcAgConfigMetric -- This metric contains configuration data.
- EcAgEvent -- EcAgEvent is not an abstract class.
- EcAgException -- Binds error messages to DCE return codes.
- EcAgFaultMetric -- This metric contains fault data.
- EcAgLockableFile -- This class encapsulates the stdio FILE* struct, encapsulating the UNIX file locking mechanism.
- EcAgMetric -- This is an abstract class that defines the common operations such as (un-) Lock, save/restoreGuts.
- EcAgNamedList -- This class represents a RW singly linked list that has a text name.

- EcAgPerfMetric -- This metric contains performance data.
- EcAgRcvFile -- This is a specialized version of RWFile which contains recoverability capabilities.
- EcAgResettingPerfMetric -- This metric contains performance data.
- EcAgTuple -- This class represents a tuple which will be stored in an EcAgEvent.
- MsAgCfgFileInfo -- This class is used to put into a temporary vector so that when MsAgDiscoverer compares what's installed and what's in the subagent's table, it can do this easily.
- MsAgIntConfigMetric -- This class is a specialized class of EcAgConfigMetric.
- MsAgLockableObject -- The first class is used to lock objects such as the lockable queue.
- MsAgLockableQueue -- Lockable queue object inherits from MsAgLockableObject and RWSlistCollectablesQueue.
- MsAgLockableSList -- Lockable list object inherits from MsAgLockableObject and RWSlistCollectables.
- MsAgLockableSortedVector -- Lockable sorted vector object inherits from MsAgLockableObject and RWSortedVector.
- MsAgPathFinder -- This function builds the path and filename of subagent related files and CDS names.
- MsAgProcPerfMetric -- This class is a special performance metric that contains either cpu, memory, various RPC information, the number of threads, or the number of disk I/O.
- MsAgUpdateConfigMetric

library EcCf

/ecs/formal/CSS/DOF/src/CF/cf

The Config library provides the necessary software for the PF_Client Gu.

Classes

- EcPfConfigFile -- This class is used to read the Configuration file that holds the values of attributes needed for the process Framework.
- ListAndNameCollect -- This class is used to create collectable nodes whose fields are the attribute name and the linked list of the values for the respective attribute.

library EcCsMtMGateway

/ecs/formal/CSS/DOF/src/RELB_GATEWAY/MTMGW/src

This libaried provides an automated inventory search, product request, and integrated search and order capability.

Classes

- EcCsMtMAcctSrvMgr -- This class encapsulates the services of ECS Account Management Server.

- EcCsMtMAttributeDict -- This class reads in XML DTD file and keeps in the format of AttributeName in RWTValHashDictionary.
- EcCsMtMConn -- This class encapsulates a structure that is established for each connection event.
- EcCsMtMDaemonState -- EcCsMtMDaemonState holds information pertinent to the daemon as a whole.
- EcCsMtMDataServerMgr -- This class is an abstraction wrapping up all the operations Data Server provides.
- EcCsMtMECSOrderProxy -- This class works as a surrogate for MTMGW in handling order request The public interface ProcessRequest() overriding that in parent class takes care of order request.
- EcCsMtMECSProxy -- Define a virtual interface by which the various ECS service facilities are invoked.
- EcCsMtMECSSearchOrderProxy -- This class works as a surrogate for MTMGW in handling search and order request.
- EcCsMtMECSSearchProxy -- This class works as a surrogate for MTMGW in handling search request.
- EcCsMtMGIToXMLConverter -- This class is a concrete class to EcCsMtMMsgConverter.
- EcCsMtMManagedSrv -- This is an application of the Process Framework(PF).
- EcCsMtMMessage -- This class is used as parsing class.
- EcCsMtMMessageCatalog -- EcCsMtMMessageCatalog is a singleton object which provides the look up table for the error code and its message used through out the MTM Gateway.
- EcCsMtMOption -- These are options set from the server command line or configuration file or whatever.
- EcCsMtMOrderImp -- This class handles the concrete order implementation that could be easily coupled or decoupled with its interface, here which is EcCsMtMECSOrderProxy.
- EcCsMtMProxy -- EcCsMtMProxy defines an interface by which the various ECS service facilities are invoked.
- EcCsMtMProxyCreator -- EcCsMtMProxyCreator defines an interface for creating an object of type EcCsMtMProxy, but let subclasses decide which class to instantiate.
- EcCsMtMSdsrvMgr -- This class is a derived class of EcCsMtMDataServerMgr.
- EcCsMtMSearchImp -- This class handles the concrete search implementation that could be easily coupled or decoupled with its interface, where with is EcCsMtMECSSearchProxy.
- EcCsMtMSearchOrderImp -- This class handles the concrete search and order request implementation that could be easily coupled or decoupled with its interface, here which is EcCsMtMECSSearchOrderProxy.
- EcCsMtMSocketSrv -- This class does the basic socket listen operation.

library EcCsRegistry

/ecs/formal/CSS/DOF/src/REGISTRY/registry

This library retrieves configuration attribute-value pairs and distribution options from the Configuration Registry Database.

Classes

- EcRgDistOptions -- This class requests the distribution media options from the EcCsRegistryServer.
- EcRgRegistryServer_C -- Registry Server for client side.
- EcRgSubOptions

library EcDcNotify

/ecs/formal/CSS/DOF/src/MP_OODCE_NO1/notify/notify

This library consists of classes used by Subscription Server to send notifications, which are used by Subscription Server only.

Classes

- EcCsNotify -- Class used by Subscription Server for its notifications.

library EcDmDdClient

/ecs/formal/DM/DDICT/src/ddclient

The library establishes and maintains a session with the DDICT server.

Classes

- DmDdCIRequest -- This is the signature of the callback function for asynchronous communication (via the Submit function).
- DmDdCIRequestServer -- This class is used by a client to initiate a DDICT session.
- DmDdCISchemaRequest -- This is the signature of the callback function for asynchronous communication (via the Submit function).
- DmDdCIUrRequest -- This is the signature of the callback function for asynchronous communication (via the Submit function).

library EcDpJobMgmtClient

/ecs/formal/PDPS/DPS/PRONG/src/JobMgmtPF

The Job Management Client library provides the following public interfaces to the Job Management Server. CreateDprJob - Creates a job directly in AutoSys, or on a queue if its data is not available. ReleaseDprJob - Sets the state of a job to "Released", it is then eligible to be placed in AutoSys by the Job Management server if there is room. CreateGEvntJob - Creates a ground event job directly in AutoSys. CancelGEvntJob - Cancels a ground event job. GetDprJobStatus - Gets the status of a job: started, success, failed, etc. CancelDprJob - Cancels a job - either removes it from the queue or removes it from AutoSys if it is there, with database

cleanup. FreeAutoSys - Called whenever it is necessary to check the queue for jobs to put into Autosys -- this happens when a job is released, canceled, created or a job completes. These library routines convert input into a message packet form suitable for communicating with the Job Management Server and then call OODCE routines to initiate and confirm the communication. The format of the messages is specified in the DpPrSchedulerDObj.idl file.

Classes

- DpPrSchedulerProxy
- groundEvent -- This class defines the attributes of the ground event.

library EcFh

/ecs/formal/CSS/DOF/src/FH/src

This library provides fault handling capabilities to ECS applications.

Classes

- EcFhExecutor -- This class invokes the HandleDCEOSFException depending on the policy associated with this executor.
- EcFhFaultHandler -- This class knows how to handle exceptions of type DCEOSFException.
- EcFhPolicy -- This class creates the policy for fault handling.

library EcGwDAR

/ecs/formal/CSS/DOF/src/RELB_GATEWAY/DAR/dar

This library is the DAR Communications client library which client applications should link with to communicate with the DAR Gateway.

Classes

- EcGwDARGetSubxARStatusRequest_C -- This class represents the client side of DARGateway GetSubxARStatus.
- EcGwDARGetxARStatusRequest_C -- This class represents the client side of DARGateway GetxARStatus.
- EcGwDARModifyDarRequest_C -- This class represents the client side of DARGateway ModifyDar.
- EcGwDARQueryxARContentsRequest_C -- This class represents the client side of DARGateway QueryxARContents.
- EcGwDARQueryxARScenesRequest_C -- This class represents the client side of DARGateway QueryxARScenes.
- EcGwDARQueryxARSummaryRequest_C -- This class represents the client side of DARGateway QueryxARSummary.
- EcGwDARSubmitDarRequest_C -- This class represents the client side of DARGateway SubmitDar.

- `getSubxARStatusSrfRequest` -- This message class, which is derived from the `EcUtStreamable` class, is used to transport the `getSubxARStatus` request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- `getSubxARStatusSrfResult` -- This message class, which is derived from the `EcUtStreamable` class, is used to transport the `getSubxARStatus` result message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- `getSubxARStatusSrfStatus` -- This message class, which is derived from the `EcUtStreamable` class, is used to transport the `getSubxARStatus` status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- `getxARStatusSrfRequest` -- This message class, which is derived from the `EcUtStreamable` class, is used to transport the `getxARStatus` request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- `getxARStatusSrfResult` -- This message class, which is derived from the `EcUtStreamable` class, is used to transport the `getxARStatus` result message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- `getxARStatusSrfStatus` -- This message class, which is derived from the `EcUtStreamable` class, is used to transport the `getxARStatus` status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- `modifyDarSrfRequest` -- This message class, which is derived from the `EcUtStreamable` class, is used to transport the `modifyDar` request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- `modifyDarSrfResult` -- This message class, which is derived from the `EcUtStreamable` class, is used to transport the `modifyDar` result message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- `modifyDarSrfStatus` -- This message class, which is derived from the `EcUtStreamable` class, is used to transport the `modifyDar` status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- `queryxARContentsSrfRequest` -- This message class, which is derived from the `EcUtStreamable` class, is used to transport the `queryxARContents` request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- `queryxARContentsSrfResult` -- This message class, which is derived from the `EcUtStreamable` class, is used to transport the `queryxARContents` result message by the

Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.

- queryxARContentsSrfStatus -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARContents status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARScenesSrfRequest -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARScenes request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARScenesSrfResult -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARScenes result message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARScenesSrfStatus -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARScenes status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARSummarySrfRequest -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARSummary request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARSummarySrfResult -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARSummary result message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- queryxARSummarySrfStatus -- This message class, which is derived from the EcUtStreamable class, is used to transport the queryxARSummary status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- submitDarSrfRequest -- This message class, which is derived from the EcUtStreamable class, is used to transport the submitDar request message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- submitDarSrfResult -- This message class, which is derived from the EcUtStreamable class, is used to transport the submitDar result message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.
- submitDarSrfStatus -- This message class, which is derived from the EcUtStreamable class, is used to transport the submitDar status message by the Server Request Framework (SRF), which is utilized by the ASTER DAR Gateway client library and server for DCE communication.

library EcNsServiceLoc

/ecs/formal/CSS/DOF/src/NS/naming

This library contains both the client and server side APIs to allow servers to advertise their services and to allow clients to locate the servers.

Classes

- EcNsServiceLoc -- This class captures the common operations and state used by the client and server derivatives of this class.
- EcNsServiceLocClient -- The class supports multiple constructors to accomodate various means of specifying a service.
- EcNsServiceLocServer -- This class constructs a CDS path for a server, allows that path to be added to an RPC group and allows both the RPC group and the server path to exported to CDS.

library EcNsServiceLocator

/ecs/formal/CSS/DOF/src/NS/service_locator

The Service Locator library provides an implementation independent mechanism for specifying service locations.

Classes

- EcNsLocatorMapper -- This class maps long CDS entries like cell names and server group entries to and from short representations.
- EcNsServiceLocator -- This Class provide technology independant means of describing an ECS service.

library EcPf

/ecs/formal/CSS/DOF/src/PF/pf

The process Framework (PF) provides the necessary infrastructure related software for the client & the server applications.

Classes

- EcPfClient -- Class that provides wrappers for OODCE and DCE functionality.
- EcPfGenProcess -- EcPfGenProcess is an abstract class which represents the process framework for a generic process.
- EcPfGenServer -- The class will provide the generic DCEServer capabilities and some enhanced features as well.
- EcPfManagedServer -- This class provides the functionality of hiding the interface between the MSS and the application by instantiating the EcAgManger object and making calls to it for the application, and it also provides an interface for the MSS to call on the application.
- EcPfProxy -- Currently does not maintain any information or provide any functionality.

- EcPfUnmanagedServer -- This class inherits from the EcGenServer call and should be inherited from by the application.
- ObjectLinkList -- This class maintains a linked list of structures ObjectLink whose fields are DCEObject and a pointer to the next structure in the list.

library EcPoDbRW

/ecs/formal/COMMON/CSCI_DBWrapper/src

Contains methods that allow access to a RogueWave database together with the current list of connections to the database. Uses RogueWave APIs.

Classes

- EcPoConnectionsRW -- This class provides access to specific global objects by providing the handle for them.
- EcPoDb -- Objects of this class represent an RWDB Database together with the connections in use by the database.
- EcPoError -- This class provides a series of miscellaneous.
- EcPoStrategy -- Objects of this class represent error recovery strategies.
- EcPoThread -- Objects of this class represent a single RWDB connection and the thread ID of the thread that claimed the connection.

library EcPtSpecialLock

/ecs/formal/CSS/DOF/src/THREAD/locks

This library provides classes for mutex operations and thread IDs.

Classes

- EcPtSharedLock -- EcPtSharedLock is a class of shared/exclusive mutexes.
- EcPtThreadId -- This is an ID for a thread.
- EcPtUnlockingMutex -- EcPtUnlockingMutex is a class of self unlocking mutexes.

library EcRw

/ecs/formal/CSS/DOF/src/mdw/fos/EcRw/src

This library allows real to be stored and retrieved as RWCollectable.

Classes

- EcRwCollectable -- The EcRwCollectable class is an abstract base class derived from Rogue Wave's collectable class.
- EcRwCollectableReal -- The EcRwCollectableReal class holds a real, is used in a collection.

library ECSAuthn

/ecs/formal/COMMON/CSCI_Util/src/EcsAuthenticator

This library provides a function `EcUtMakeECSAuth(userID, password,ecsAuth)`, which converts the input of a `userID` and a password of this `userID`, and returns a string contains the encrypted authenticator `ecsAuth`.

library EcSbCI

/ecs/formal/CSS/DOF/src/SUBSCRIPTION/cl

This library contains all the classes for Subscription Server client.

Classes

- `EcCICancelAllSubscriptionsCb` -- Class for obtaining subscription data.
- `EcCICancelEventIDSubscriptionsCb` -- Client callback class for cancelling subscriptions with an event ID.
- `EcCICancelExpDateSubscriptionsCb` -- Client callback class for cancelling subscriptions with an expiration date.
- `EcCICancelSubCb` -- Client callback class for cancelling a subscription.
- `EcCICancelUserIDSUBscriptionsCb` -- Class for obtaining subscription data.
- `EcCIEvent` -- Event class represented on the client side.
- `EcCIEventCollector` -- This class provides a collection mechanism for retrieving and manipulating multiple events.
- `EcCIGetAllEventsCb` -- Class for obtaining subscription data.
- `EcCIGetAllSubscriptionsCb` -- Class for obtaining subscription data.
- `EcCIGetCatEventsCb` -- Class for obtaining subscription data.
- `EcCIGetCreatorEventsCb` -- Class for obtaining subscription data.
- `EcCIGetEventDataCb` -- Client callback class for obtaining event data.
- `EcCIGetEventIDSubscriptionsCb` -- Class for obtaining subscription data.
- `EcCIGetExpDateSubscriptionsCb` -- Class for obtaining subscription data.
- `EcCIGetSubDataCb` -- Class for obtaining subscription data.
- `EcCIGetUserIDSUBscriptionsCb` -- Class for obtaining subscription data.
- `EcCIRegisterEventCb` -- Callback class for registering events.
- `EcCIRestartNotifyCb` -- Callback class for Subscription Server restart notification.
- `EcCISubmitSubCb` -- Callback class for submit a new subscription.
- `EcCISubscription` -- Client side subscription.
- `EcCISubscriptionCollector` -- This class provides a collection mechanism for retrieving and manipulating multiple subscriptions.
- `EcCITriggerEventCb` -- Callback class for triggering an event.

- EcCIUnregisterAllEventsCb -- Class for obtaining subscription data.
- EcCIUnregisterCatEventsCb -- Class for obtaining subscription data.
- EcCIUnregisterCreatorEventsCb -- Class for obtaining subscription data.
- EcCIUnregisterEventCb -- Callback class for unregistering an event.
- EcCIUpdateEventCb -- Callback class for updating an event.
- EcCIUpdateSubCb -- Callback class for updating a subscription.

library EcSbSr

/ecs/formal/CSS/DOF/src/SUBSCRIPTION/sb

This library consists of all subscription server side class objects. It is used by EcSbSubServer program only.

Classes

- EcSbCancelAllSubsRequest -- Handles a request of cancelling all subscription by the server.
- EcSbCancelEventIDSubsRequest -- Handles a request of cancelling all subscription associated with a given event by the server.
- EcSbCancelEventRequest -- Handles a request of cancelling a specified event by the server.
- EcSbCancelExpDateSubsRequest -- Handles a request of cancelling all subscription whose expiration date is beyond specified date.
- EcSbCancelSubRequest -- Handles a request of cancelling a specified subscription by the server.
- EcSbCancelUserIDSubsRequest -- Handles a request of cancelling all subscription subscribed by a specified user.
- EcSbDbInterface -- This class provides utilities to access to database and the interface to execute sql and stored procedures.
- EcSbEvent -- This is the server side event representation, customized to implement the actual operations supported by the server.
- EcSbEventDispatcher -- This is the customized version of the dispatcher object.
- EcSbEventHandler -- This class provides the interface to work with multiple events (i.e., aggregate behaviour) on the server side.
- EcSbEventRServer -- This is a wrapper class to wrape up EcSrRequestServer_S for the Event Server Object.
- EcSbEventStore -- This class provides the means for adding events to the persistent store, instantiating events from the persistent store, and passing the events to the subscription server via EcSbEventHandler.
- EcSbGetAllEventsRequest -- Handles a request of getting all events by the server.
- EcSbGetAllSubsRequest -- Handles a request of getting all subscription by the server.
- EcSbGetCatEventsRequest -- Handles a request of getting an event by given event category.

- EcSbGetCreatorEventsRequest -- Handles a request of getting all events created by a given user.
- EcSbGetEventIDSubsRequest -- Handles a request of getting all subscription associated with given event id.
- EcSbGetEventRequest -- Handles a request of getting all events from server.
- EcSbGetExpDateSubsRequest -- Handles a request of getting all subscription by given expiration data.
- EcSbGetSubRequest -- Handles a request of getting all subscription by the server.
- EcSbGetUserIDSubsRequest -- Handles a request of retrieve subscription subscribed by a given user.
- EcSbManagedServer
- EcSbPersistWorkThreads -- This class keeps track of EcSbPersistWorkThreads table.
- EcSbRegisterEventRequest -- This class represent an event register request in subscription server.
- EcSbRestartNotifyRequest
- EcSbSubmitSubRequest -- Handles a request of submitting a subscription a client.
- EcSbSubscription -- This is the server side subscription representation.
- EcSbSubscriptionDispatcher
- EcSbSubscriptionHandler -- This class provides the mechanism for collecting and passing around EcSbSubscriptions.
- EcSbSubscriptionRServer -- This is the server wrapper class.
- EcSbSubscriptionStore -- This class provides the means for adding subscriptions to the persistent store, instantiating subscriptions from the persistent store, and passing the subscriptions to the subscription server via EcSbSubscriptionHandler.
- EcSbTimeKeeper -- This class keeps track of time as the subscription server runs and makes sure that anything linked to time (such as the expiration of subscriptions) occurs.
- EcSbTriggerEventRequest -- Handles a request of triggering an event by the server.
- EcSbTriggerRequest -- This class process requests and insert requests into EcSbTriggerRequest table.
- EcSbUnregisterAllEventsRequest -- Handles a request of cancelling all events by the server.
- EcSbUnregisterCatEventsRequest -- Handles a request of cancelling all events related to specified category.
- EcSbUnregisterCreatorEventsRequest -- Handle a a request of cancelling all event related to a specified user.
- EcSbUpdateEventRequest -- Handles a request of updating an event by the server.
- EcSbUpdateSubRequest -- Handles a request of updating a subscription by server.

library EcSeCmi

/ecs/formal/CSS/DOF/src/AUTHN/authn

Cryptographic Management Interface (CMI) provides a means for processes to obtain randomized passwords with which to gain access to non-DCE services(e.g., Sybase).

Classes

- EcSeCmi -- This class will generate a user ID and password based on a given application key.

library EcTiTime

/ecs/formal/CSS/DOF/src/TIME/time

The library EcTiTime comprises the EcTiTime class is used to obtain the current time in various formats, and manipulate the time.

Classes

- EcTiTimeService -- This class is used to obtain the current time in various formats, and manipulate the time.

library EcUr

/ecs/formal/COMMON/CSCI_UR/src/UR/framework

A Universal Reference (UR) is created as a logical reference to a extant ECS object.

Classes

- EcUrServerUR -- The EcUrServerUR class, which is inherited from the EcUrUR class, holds additional attributes and overrides EcUrUR methods in order to support Server URs.
- EcUrServerURProvider -- The EcUrServerURProvider class, which is inherited from the EcUrURProvider class, holds additional attributes and overrides EcUrURProvider methods in order to support Server UR providers.
- EcUrUR -- The Universal Reference (UR) is the abstract base class for all references to UR Providers.
- EcUrURMaker -- This class has the responsibility to aid working with objects that subclass UR that are either abstract or whose type is not known.
- EcUrURProvider -- This class is the abstract base class for all things referred to by Universal Reference (UR)s.
- EcUrURProviderMaker -- This class supports the creation of fully reconstituted UR providers given a UR.

library EcUt

/ecs/formal/COMMON/CSCI_Util/src/Logging

EcUt is a utility library for all the ECS applications.

Classes

- EcLgErrorEvent -- This object provides a simple mechanism for converting a light-weight uuid_s_ok error message object (EcLgErrorMsg) into an EcAgEvent.
- EcUtErrorDetails -- EcUtErrorDetails is an accessor class for obtaining detailed information about an error code received from downstream.
- EcUtRpcID -- EcUtRpcID is used to uniquely identify any RPC call between a client and a server process anywhere in the ECS enterprise.
- EcUtStreamable -- The EcUtStreamable class provides an reusable interface for objects which need to be transferred between processes.
- EcUtUniqueID -- This class generate an unique identifier that is guaranteed to be unique within the ECS system.

library EcUtFactory

/ecs/formal/COMMON/CSCI_Util/src/Factory

The EcUtFactory should be used when you dynamically create objects based on the a class identifier.

Classes

- EcUtClassID -- This object allows an class identifier to be created with a value, this identifier to be assigned, compared, and checks if it is valid.

Templates

- EcUtFactory -- This class supports the registering and execution of functions to create subclasses of <BaseClass>.
- EcUtGuardedFactory -- This class supports the creation of subclasses of <BaseClass> in a threaded environment.

library EcUtGUI

/ecs/formal/COMMON/CSCI_GUI/src

The GUI library is a collection of reusable GUI components, and commonly used utility functions.

Classes

- EcRwCollectable -- The EcRwCollectable class is an abstract base class derived from Rogue Wave's collectable class.
- EcUtDateEntry -- Created by Builder Xcessory Version 5.0.8.
- EcUtDateInterval -- Created by Builder Xcessory Version 5.0.8.
- EcUtDb1SelBox -- Created by Builder Xcessory Version 5.0.8.
- EcUtEpakTable -- This file was created by Builder Xcessory.
- EcUtIntegerTextField -- Created by Builder Xcessory Version 5.0.8.

- EcUtListbox -- Created by Builder Xcessory Version 5.0.8.
- EcUtRangeCheck -- This class is used to check that a value is within a certain range.
- EcUtRealTextField -- Created by Builder Xcessory Version 5.0.8.
- EcUtSelectableItem -- It contains an identifying string and points to a contained object.
- EcUtSelectableItemContainer -- This class is intended to store a list of EcUtSelectableItems.
- EcUtSelectableItemState
- EcUtSetTabChildSaved
- EcUtSetTextWidgetEditable -- This class is part of CSCI GUI.
- EcUtTextField -- Created by Builder Xcessory Version 5.0.8.
- EcUtTimeOnlyEntry -- Created by Builder Xcessory Version 5.0.8.
- EcUtTimeOnlyInterval -- Created by Builder Xcessory Version 5.0.8.
- TimeEntry
- TimeInterval

library EcUtGUI

/ecs/formal/COMMON/CSCI_GUI/src

Classes

- EcRwCollectable -- The EcRwCollectable class is an abstract base class derived from Rogue Wave's collectable class.
- EcUtDateEntry -- Created by Builder Xcessory Version 5.0.8.
- EcUtDateInterval -- Created by Builder Xcessory Version 5.0.8.
- EcUtDbSelBox -- Created by Builder Xcessory Version 5.0.8.
- EcUtEpakTable -- This file was created by Builder Xcessory.
- EcUtIntegerTextField -- Created by Builder Xcessory Version 5.0.8.
- EcUtListbox -- Created by Builder Xcessory Version 5.0.8.
- EcUtRangeCheck -- This class is used to check that a value is within a certain range.
- EcUtRealTextField -- Created by Builder Xcessory Version 5.0.8.
- EcUtSelectableItem -- It contains an identifying string and points to a contained object.
- EcUtSelectableItemContainer -- This class is intended to store a list of EcUtSelectableItems.
- EcUtSelectableItemState
- EcUtSetTabChildSaved
- EcUtSetTextWidgetEditable -- This class is part of CSCI GUI.
- EcUtTextField -- Created by Builder Xcessory Version 5.0.8.
- EcUtTimeOnlyEntry -- Created by Builder Xcessory Version 5.0.8.
- EcUtTimeOnlyInterval -- Created by Builder Xcessory Version 5.0.8.

- TimeEntry
- TimeInterval

library EcUtHelp

/ecs/formal/COMMON/CSCI_HELP/src/HelpClass

This library consists of two parts; HelpClass and HelpCompiler. The HelpClass part provides a mechanism to automatically display context sensitive help with minimum programming required by the developers. The HelpCompiler part converts your application's tagged help files to keyed(b-tree) file for easy runtime processing by the EcUtCIHelp class

Classes

- EcUtCIHelp -- Comment ReadOnlyBTree, use RWBTree instead.

library EcUtHelp

/ecs/formal/COMMON/CSCI_HELP/src/HelpClass

Classes

- EcUtCIHelp -- Comment ReadOnlyBTree, use RWBTree instead.

library EcUtMisc

/ecs/formal/COMMON/CSCI_Util/src/Misc

This library contains miscellaneous utilities.

Classes

- EcUtFileCopy
- EcUtFileManager -- This class supports expanding special characters in filenames.
- EcUtPerfData -- Log Performance Data.

library EcUtNoPF

/ecs/formal/COMMON/CSCI_Util/src/Logging

EcUtNoPF is a utility library for all the ECS applications that do not use Process Framework. It provides following services:

- Error Logging Mechanism.
- Passing and returning status code.
- Resuable interface for objects which need to be transferred between processes.
- Provides a unique identifier that is guaranteed to be unique within the ECS system.
- Uniquely identifies any RPC call between a client and a server process anywhere in the ECS enterprise.

Classes

- EcUtErrorDetails -- EcUtErrorDetails is an accessor class for obtaining detailed information about an error code received from downstream.
- EcUtRpcID -- EcUtRpcID is used to uniquely identify any RPC call between a client and a server process anywhere in the ECS enterprise.
- EcUtStreamable -- The EcUtStreamable class provides an reuseable interface for objects which need to be transferred between processes.
- EcUtUniqueID -- This class generate an unique identifier that is guaranteed to be unique within the ECS system.

library event

/ecs/formal/CSS/DOF/src/LOGGING/clientlog

Purpose of this library is to provide a framework for MSS Agent to store information to the MSS log file and rename the file when the file is full.

Classes

- EcUtClientLogger -- EcUtClientLogger is used for Application logs.
- EcUtLoggerRelA -- This class provides a mechanism for logging information.

library FoCI

/ecs/formal/CSS/DOF/src/mdw/fos/FoCI/src

This library is responsible for parsing the command line.

Classes

- FoCICmdLine -- This class is responsible for parsing the command line.

library Folp

/ecs/formal/CSS/DOF/src/mdw/fos/FoIp/src

This library handles exception for the FOS Interprocess Communications.

Classes

- FoIpBadEndPoint -- This class is the exception class for the FOS Interprocess Communications.
- FoIpCommExcept -- LORAL AeroSys, Copyright 1996.
- FoIpConnectFailed -- This class is the exception class for the FOS Interprocess Communications.
- FoIpConnectLost -- This class is the exception class for the FOS Interprocess Communications.
- FoIpDbBindingInfo -- Rogue Wave required declaration.
- FoIpEndPoint -- Rogue Wave required declaration.

- FoIpIfAttributes -- Rogue Wave required declaration.
- FoIpIfMgr -- LORAL AeroSys, Copyright 1996.
- FoIpIfMgrBase -- LORAL AeroSys, Copyright 1996.
- FoIpIfMgrImp -- LORAL AeroSys, Copyright 1996.
- FoIpInitExcept -- This class is the exception class for the FOS Interprocess Communications.
- FoIpPortalProxy -- This is a base class for a proxy that has complete control of its portal.
- FoIpPortalStreambuf -- FoIpPortalStreambuf: A streambuf which is also a portal.
- FoIpProxyBase -- This class is the base class for proxies.
- FoIpProxyExcept -- This class is the exception class for FoIpProxyBase.
- FoIpPtToPtBindingInfo -- Rogue Wave required declaration.
- FoIpPtToPtCoupler -- Rogue Wave required declaration.
- FoIpPtToPtCouplerImp -- Rogue Wave required declaration.
- FoIpPtToPtPortal -- Rogue Wave required declaration.
- FoIpPtToPtPortalImp -- Rogue Wave required declaration.
- FoIpReconnectProxy -- This is a base class for proxies.
- FoIpSocketStreambuf -- A streambuf which is also a socket.
- FoIpUnixIfMgr -- LORAL AeroSys, Copyright 1996.
- FoIpUnixIfMgrImp -- LORAL AeroSys, Copyright 1996.

library FoNs

/ecs/formal/CSS/DOF/src/mdw/fos/FoNs/src

This library is used by NameServer and it's clients.

Classes

- FoNsEndPointList -- Rogue Wave required declaration.
- FoNsEndPointResolveMessage -- Rogue Wave required declaration.
- FoNsNameServerProxy -- This class provides a proxy for the real FoNsNameServer class, and is used by client applications as an interface to the NameServer.
- FoNsRmsNameServerProxy -- This class provides a proxy for the real FoNsNameServer class, and is used only by an RMS client application as an interface to the NameServer.
- FoNsServiceRequestMessage -- Rogue Wave required declaration
RWDECLARE_COLLECTABLE(FoNsServiceRequestMessage).

library FoUt

/ecs/formal/CSS/DOF/src/mdw/fos/FoUt/src

This library handles internal error for FOS application.

Classes

- FoUtAppl -- This class is the base class for FOS applications.
- FoUtInternalErr -- This class handles internal error for FOS application.
- FoUtIpcMgrAppl -- This is a base class for a server that consists of an interface manager, one coupler call back, and one portal call back.
- FoUtServerAppl -- This is a base class for a server that consists of an interface manager, one coupler call back, and one portal call back.

library GI

/ecs/formal/DSS/sdsrv/src/gl

This library is used by many subsystems to provide a general purpose list object for storing various scalar and complex datatypes. The list and its elements can be read from or saved to a stream or file. This facilitates exchange of information (parameters) between processes.

Classes

- GIBinaryP -- This class provides a specialization of the GIParameter for storing Binary data.
- GICircleP -- This class is a specialized parameter that represents a circle.
- GIClient -- This is a specialized parameter that represents a client.
- GIDateP -- GIDateP // specialization of GIParameter for dates.
- GIDoubleP -- Specialization of GIParameter for doubles.
- GIGPolygonP
- GILocalMemMgr -- This class provides a local storage alternative to using new/malloc for a list of objects.
- GILog -- Place-holder for full-fledged log.
- GILongP -- Specialization of GIParameter for type long.
- GIParameter -- Provides type-safe casting, add a virtual X* GetX(); for every derived type.
- GIParameterBase -- This base class is the real RWCollectable, but since the RW macros don't allow pure virtual functions, GIParameter inherits from this and is not, in fact, a truly macro-ized RWCollectable.
- GIParameterList -- This class provides a way to collect and manipulate GIparameter objects.
- GIParameterNameTable -- This is intended only to be used as a static member object of the GIParameterBase class.
- GIPfxstream
- GIPfxstreambuf -- Specialized streambuf that adds the start-of-line state and emits the given prefix at the beginning of each line.
- GIPoint -- Light weight data structure for spatial 2 D point.
- GIPointP -- This is a specialized parameter that represents a point.
- GIPointSet -- This class provides a light weight data structure for a set of 2 D points.

- `GlPolygon` -- Light weight data structure for a polygon derived from `GlPointSet`.
- `GlPolygonP` -- This class is a specialized parameter that represents a polygon.
- `GlPolygonSet` -- This class is a light weight data structure for a set of polygons.
- `GlPolygonSetP` -- `PolygonSet` as `GlParameter`.
- `GlRectangleP` -- This class is a specialized parameter for rectangle.
- `GlSpatialP` -- This is an abstract base class for spatial objects.
- `GlStringP` -- Specialization of `GlParameter` for strings.
- `GlTimeP` -- Specialization of `GlParameter` for time data.
- `GlTransfer` -- This class contains the specialized `Flatten` and `Restore` operations for `RWCCollectibles`, which are necessary to portably send them across the network to other machines with potentially different architectures.

library GIo

`/ecs/formal/DSS/sdsrv/src/gl`

This library provides the operations for the `gl` objects to be read from or saved to a stream or file.

library hdiff

`/ecs/formal/PDPS/DPS/SSIT/src/DIF/HDIFF`

This library supports the program for the HDF Gui and command line version of the HDF comparison tool.

library IcDarApi

`/ecs/formal/CSS/DOF/src/RELB_GATEWAY/DAR/gds/api`

This is the ASTER GDS client library which the DAR Communications Gateway links with to provide communication to the ASTER servers. This is not ECS developed source code, it was developed by GDS.

library InADPP

`/ecs/formal/INGEST/ADPP/src/NMC`

This library provides the auxiliary data preprocessing code that extracts metadata from GRIB files and will convert certain GRIDs to HDF-EOS.

Classes

- `InGRIBData` -- This class defines the high level routines used in the decoding of GRIB data.
- `InPpGRIBHDF` -- Define the class for preprocessing GRIB HDF data.
- `InPpGRIBMetadata` -- Define the class for preprocessing GRIB metadata.
- `InPpGRIBScienceData` -- Define the class for preprocessing GRIB science data.

library InConfig

/ecs/formal/INGEST/common/src/config

This library provides a class which is used by each Ingest executable to obtain parameters from its configuration file.

Classes

- InConfig -- The InConfig class is used by each Ingest executable to obtain parameters from its configuration file.

library InDBaccUt

/ecs/formal/INGEST/common/src/DBaccess

This library provides classes which allows access to the Ingest database.

Classes

- InCurrentDataTypeMap -- The InCurrentDataTypeMap class provides a mapping of current versionID to valid Ingest data types.
- InDataTypeTemplate -- The InDataTypeTemplate class provides the valid Ingest data types.
- InDBAccess -- The InDBAccess class provides access to the Ingest database.
- InDBAccessPool -- The InDBAccessPool class is used by Ingest to obtain a connection to the Ingest database.
- InEDPAddressMap -- The InEDPAddressMap class provides a mapping of external data Provider with given IP address to valid Ingest externaldataproducer.
- InExternalDataProviderInfo -- The InExternalDataProviderInfo class provides the valid Ingest external data provider information.
- InFileTypeTemplate -- The InFileTypeTemplate class provides the file type information for each data type.
- InFileTypeTemplateError -- The InFileTypeTemplateError class is the the error handler for the InFileTypeTemplate class.
- InGranuleQueue -- The InGranuleQueue class contains a priority queue of granules for each Granule Server.
- InGranuleServerInfo -- The InGranuleServerInfo class provides the Ingest Granule Server information.
- InMediaType -- The InMediaType class provides the Ingest media types.
- InNextAvailableID -- The InNextAvailableID class keeps track of and issues the next available number for RequestIDs.
- InRequestFileInfo -- The InRequestFileInfo class provides checkpoint storage of file information associated with a given data granule within a given Ingest request.
- InRequestProcessData -- The InRequestProcessData contains real-time process information regarding Data Types within a given request currently being processed or waiting to be processed by the system.

- InRequestProcessHeader -- The InRequestProcessHeader class contains real-time process information regarding Ingest requests currently being processed or waiting to be processed by the system.
- InRequestSummaryData -- The InRequestSummaryData class provides long-term storage of summary data type statistics associated with a given data granule in a given Ingest request.
- InRequestSummaryHeader -- The InRequestSummaryHeader class provides long-term storage of summary request-level statistics associated with a given Ingest request.
- InSourceMCF -- The InSourceMCF class contains metadata extraction information.
- InSourceMCFError -- The InSourceMCFError class is the error handler for the InSourceMCF class.
- InSystemParameters -- The InSystemParameters class provides the Ingest system-level tunable parameters.
- InTDbDataTypeTemplate -- Structure containing the data in row of the DataTypeTemplate table.
- InTDbDDNFileInfo -- Structure containing the DDN data needed for one row of the RequestFileInfo table.
- InValDataGranuleState -- The InValDataGranuleState class provides the valid data granule states.
- InValNotifyType -- The InValNotifyType class provides the valid notify types.
- InValRequestState -- The InValRequestState class provides the valid request states.

library InGranResource

/ecs/formal/INGEST/Resource/src/resource

This library allocates/deallocates staging disk resources and calls the IngestFtpServer to transfer files.

Classes

- InFile -- It transfers an ingested file.
- InGranResourceIF -- Serves as an interface from Granule Server to resource/device services (e.g., device allocation, data transferring, and file information) which is provided by the Storage Management Subsystem.

library InGranuleC

/ecs/formal/INGEST/GranServer/src/Server

This library supports the client side of the SRF request.

Classes

- InGranuleAsync_C -- The InGranuleAsync_C object provides bi-directional communications with the InGranuleAsync_S object which resides in the server address space.
- InGranuleList -- This class contains granule information pertaining to a DAN request.

library InGuiUt

/ecs/formal/INGEST/GUI/src/guiUtil

This library provides generic GUI capabilities.

Classes

- InGUICommonRPUtil -- This class provides common service used by the other GUI classes.
- InHistoryLogRPUtil -- This Class allows the operator to view (history) status of previous request.
- InOperatorToolsRPUtil -- This Class allows the operator to manipulate the INGEST (the external dataprovider table and system table) via the INGEST GUI.
- InRequestControllerRPUtil -- This class allows the operator to cancel or resume a request or granule.

library InMetadataToolAPI

/ecs/formal/INGEST/ADPP/src/PGS

This library provides the class which accesses the PGS Toolkit from a non PGE C++ environment.

Classes

- InMetadataToolAPI -- This class encapsulates the TOOLKIT's "c" language library call and extends the TOOLKIT functionality.

library InResource

/ecs/formal/INGEST/Resource/src/resource

This library allocates/deallocates staging disk resources.

Classes

- IndataTypeList -- The set of data types associate with the ingest files.
- InResourceIF -- Serves as an interface to resource/device services (e.g., device allocation, data transferring, and file information) which is provided by the Data Server Subsystem.

library InRmQueue

/ecs/formal/INGEST/RequestMgr/src/Request

This library contains code for Request Managers queue.

Classes

- InGranuleServersQueue -- This class defines the singleton queue InGranuleServersQueue used by the Request Manager to keep track of pending requests for all available Granule Servers.

- InRequest -- This object class contains information provided by the requester or the external data source requesting ingest of data to ECS.
- InTDbDataProvInfoStruct -- This class is a container for holding Data provider information.

library InSnowIce

/ecs/formal/INGEST/ADPP/src/SnowIce

This library provides the class which inserts all of the data sets extracted from the native format file into SDSs within HDF-EOS.

Classes

- InSnowIceData -- The InSnowIceData class provides the operations for extracting and reformatting the data from a NESDIS EDR Masterfile.
- InSnowIceHDFMgr -- The InSnowIceHDFMgr class inserts all of the data sets extracted from the native format file into SDSs with HDF-EOS.

library InTOMS

/ecs/formal/INGEST/ADPP/src/TOMS

This library provides the class that is designed to pre-process TOMS data in CD-ROM format into the standard ECS Internal format.

Classes

- InTOMSData -- This class is used to process TOMS data.
- InTOMSHDF -- This class is used to process TOMS HDF data.

library InUARS

/ecs/formal/INGEST/ADPP/src/NCEPUARS

This library provides the classes that are designed to pre-process UARS data in CCSD format into the standard ECS Internal format.

Classes

- InUARSData -- This class is used to process NCEP UARS data.

library MD5

/ecs/formal/CSS/DOF/src/mdw/dot/src/md5

This library takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.

library MD5Encrypt

/ecs/formal/COMMON/CSCI_Util/src/md5

library Middleware

/ecs/formal/CSS/DOF/src/mdw/ccsmdw/src

This library is used by FOS application.

Classes

- CCSDispatchee
- CCSMdwCouplerCB -- Filename: CCSMdwCouplerCB.h.
- CCSMdwDebugProcess -- The purpose of this class is to have the same debug functions that are defined in the PF(Process Framework), but without using them directly in the Middleware code.
- CCSMdwEndPoint -- Identifies a CCSMdwService.
- CCSMdwEnvelope -- Filename: CCSMdwEnvelope.h.
- CCSMdwIfMgr -- Filename: CCSMdwIfMgr.h.
- CCSMdwMesgIf -- Filename: CCSMdwMesgIf.h.
- CCSMdwNameServer -- Filename: CCSMdwNameServer.h.
- CCSMdwNsEndPointList -- Rogue Wave required declaration.
- CCSMdwProxy -- Base class for Proxy connections.
- CCSMdwRwNetCouplerCB -- Filename: CCSMdwRwNetCouplerCB.h.
- CCSMdwRwNetProxy -- Provides client side network communications using FOS middleware framework build on RwNet++ Network Communication class library.
- CCSMdwRwNetService -- Provides server side network communications using FOS middleware framework build on RwNet++ Network communication class library.
- CCSMdwServiceAndProxy -- Class providing both Service and Proxy functionality.
- CCSMdwTimer -- Filename: CCSMdwTimer.h.

library MsAcInt

/ecs/formal/MSS/MCI/Ac/src

The Accountability Management Service provides classes for orders, requests, and user profiles (such as mailing address, access permission) management capabilities to various subsystems.

Classes

- EcAcOrderCMgr -- EcUtStatus Error Code Used.
- EcAcProfileMgr -- This class represents client side manager for user profile which submit a request to retrieve, insert, update delete a user profile.
- EcAcRegUserMgr -- This class represents client manager for a registered user which submit request to retrieve, create, update, delete a register user.
- EcAcUsrRequestMgr -- This class represents the client side manager to submit a request to MsAcRegUserMgr to retrieve, insert, update, delete a user request.

- MsAcManagedClient -- A class which is derived from EcPfClient.

library MsAcComm

/ecs/formal/MSS/MCI/Ac/src

This library contains classes used for both Accountability Server and Client.

Classes

- EcAcOrder -- This class represents an EcAcOrder class and get/set method for each attributes.
- EcAcOrderList
- EcAcOrderStatusCode -- This class represents an Order Status Code object and retrieve methods.
- EcAcOrderStatusCodeList -- This class represents a list of EcAcOrderStatusCode objects.
- EcAcRequest -- This class represents an request object.
- EcAcRequestList
- MsAcAddress -- This class represents an aggregate of the MsAcUsrProfile and MsAcOrder.
- MsAcDatabaseError
- MsAcError -- This class is used as an exception object.
- MsAcPathFinder -- This function builds the path and filename of accountability related files and CDS names.
- MsAcRegUser
- MsAcRegUserList
- MsAcSybaseTime -- This class get time and date string that can insert into sybase date format.
- MsAcUsrName -- This class represents an aggregate of the MsAcUsrProfile and MsAcOrder.
- MsAcUsrProfile -- This class represents the user profile information.
- MsAcUsrProfileList
- MsAcUsrRequest -- This class represents the user request information.
- MsAcUsrRequestList
- MsAcUsrResUsage -- This class stores system resource usage information for a registered user.

library MsCg

/ecs/formal/MSS/Cg/src

This library contains classes used for the HTML Trouble Ticket Services.

Classes

- CGI_Element -- Creates the CGI Element.

- CGI_ElementKey -- Creates the Key for the CGI_Element.
- CGI_Vars -- Loads CGI Elements.
- TMPL_Element -- Template Element for create a HTML templates.
- TMPL_ElementKey -- Identify the key element for the template.
- TMPL_Vars -- Process the HTML Files.

library OmClient

/ecs/formal/OMS/omServer/src/unitTest

Classes

- OmCommandLine
- OmMsMgr

library OmSr

/ecs/formal/OMS/omServer/src/library

This library contains the server class, the Middleware interface, the request classes, the action classes, the queue class, and all the other classes needed to do the work of the Om Server.

Classes

- OmAddress -- The OmAddress class is a place holder for ECS address information.
- OmDsDbInterface -- Database (Sybase) interface class to encapsulate database related services such as: connect, execute, fetch result.
- OmPDSIf -- The OmPDSIf class is derived from OmSrOdlAction class and OmSrDistributionRequest class.
- OmSdsrvIf -- The OmSdsrvIf class is responsible to create the SDSRV related Request , The parametes will be used for invoking the OmSrCLI program, which communicates with SDSRV server.
- OmServer -- The OmServer class is.
- OmSrAction -- The OmSrAction class is an abstract base class designed to represent actions taken by the OmSrQueue class.
- OmSrDbInterface – This class is responsible for providing C++ functions that access the order manager database.
- OmSrDbPool -- The OmSrDbPool class manages and dispatches a pool of OmDsDbInterface objects.
- OmSrDispatchQueue -- The OmSrDispatchQueue class is responsible for Queuing and dispatching actions.
- OmSrDistributionRequest -- The OmSrDistributionRequest class represents a distribution request in the OM database.
- OmSrEmailRequest -- The OmSrEmailRequest class is responsible for constructing and sending an email notification to a user.

- OmSrFileCLI -- This class adds functionality of maintaining a file list to the class hierarchy.
- OmSrGranule -- The OmSrGranule class represents a single granule that is part of an order manager request.
- OmSrMedia -- The OmSrMedia class represents the media options for a distribution request.
- OmSrMediaType -- The OmSrMediaType class represents one media type from the database table OmMediaType.
- OmSrOdlAction -- The OmSrOdlAction class is derived from OmSrThreadAction class, which is designed to handle ODL message, such as send/receive odl message through IK lib within a thread scope.
- OmSrOrderManagerIf -- The OmSrOrderManagerIf class is a MiddleWare service class.
- OmSrQueue -- Prioritized scheduler for OmSrAction objects.
- OmSrScriptAction -- Derived class of OmSrAction provides the implementation of an action that is performed by the execution of a UNIX script.
- OmSrThreadAction -- Derived class of OmSrAction provides the implementation of an action that is performed by the execution of a UNIX script.
- OmSrTimer -- This class provides a timer functionality for OmSrAction object.
- OmSrV0InputIf -- The OmSrV0InputIf class is designed to receive ODL message from V0Gateway and save information into OMS DB and send ODL response message back to V0Gateway.
- OmSrValidateAction -- The OmSrValidateAction class represents an OmActionQueue item for a request that needs to be validated.

library oodce

/ecs/formal/CSS/DOF/src/mdw/dot/src

Contains DCE classes.

Classes

- DCEBinding
- DCECfErr
- DCECmaErr
- DCEDirErr
- DCEErr
- DCEException
- DCEInterface
- DCEInterfaceMap
- DCEInterfaceMapErr
- DCEInterfaceMapErrConstructionFailed
- DCEInterfaceMapErrLockFailure

- DCEInterfaceMgr
- DCEKeyRetriever
- DCELoginErr
- DCELoginErrConstructionFailed
- DCELoginErrLockFailure
- DCEMemPassword -- inherits from DCEPassword.
- DCEMgmtAuthorizer
- DCEObj --
- DCEObjectReference
- DCEObjErr
- DCEObjErrConstructionFailed
- DCEObjErrInvalidInterface
- DCEObjErrLockFailed
- DCEObjRefErr
- DCEObjRefErrConstructionError
- DCEOSFException
- DCEPassword
- DCEPasswordErr -- This class handles password error.
- DCEPasswordErrInvalidPassword -- This class handles invalid password.
- DCEPasswordErrNoKeyTabFile -- This class handles no key tab file error.
- DCEPasswordErrTermIOFailed -- This class handles password error term I/O failed.
- DCEPthread -- DCEPthread thread class.
- DCEPthreadAttr -- DCEPthread attribute class.
- DCEPthreadCond -- DCEPthread Condition Variable. The class DCEPthreadCond encapsulates the DCEPthread condition variable.
- DCEPthreadInterval
- DCEPthreadLock -- PthreadLock.
- DCEPthreadMutex -- DCEPthreadMutex: Holds a single pthread mutex.
- DCEPthreadMutexAttr -- Holds the locking algorithm selection for a mutex.
- DCEPthreadTime
- DCERpcErr
- DCESecErr
- DCEServer -- Make arg to unimplmented privte ctor const.
- DCEServerErr
- DCEServerErrConstructionFailed

- DCEServerErrInvalidInterface
- DCEServerErrInvalidOperation
- DCEServerErrInvalidState
- DCEServerErrNoInterfaces
- DCEThisPthread -- Provides access to the current thread.
- DCEUuid -- This class generates unique uuid.
- DCEUuidErr
- DCEUuidErrInvalidIndex

***library* Persistent**

/ecs/formal/DM/GatewayCSCI/src/Persistent

The Persistent library provides the EcDmV0ToEcsGateway with an interface to the data dictionary.

It is used for both the directory and inventory search for resolving queries at a metadata level. The library provides a tailored, abstracted query interface to a database. This is implemented using the DBTools interface of RogueWave.

Classes

- DmAsGwAsterDirResult -- A container class that holds the results of a directory search.
- DmGwAttributeMap -- It's public view consists of two constructors, one taking a collection id for the DDICT and the other taking a ShortName.
- DmGwDirectoryQuery -- This class builds a SQL query using the input search parameters and submits it to the Data Dictionary database.
- DmGwDirectoryResult -- A container class that holds the results of a directory search.
- DmGwKeywordSearch -- This class contains the mechanism for extracting keywordNames from the Data Dictionary database for a given set of collectionId and siteId.
- DmGwQuery -- This is an interface class to the Sybase DB library.

***library* plac**

/ecs/formal/PDPS/PLS/PLANG/src/PWB/ac/src

Activities

This library contains the classes of schedulable activities which include basic activity along with its derived objects, such as Disk Activity, Dpr, Pr and Ground Event activities.

Classes

- PlAcActivity -- An instance of a PlAcActivity represents a request to change the configuration of a resource.
- PlAcDiskAct -- Instances of PlAcDiskAct are activities that are directed specifically at the disk resource.

- PIACDpr -- Instances of PIACDpr are activities which represent Data Processing Requests.
- PIACForceLink -- Instances of PIACForceLink are dummy classes, used to trick the linker into linking classes which are usually not known at compile time.
- PIACGroundEvent -- Instances of PIACGroundEvent are activities which model ground events on resources.
- PIACPr -- Instances of PIACPr are complex activities which represent Production Requests.

library plcl

/ecs/formal/PDPS/PLS/PLANG/src/PWB/cl/src

Client resource model (rm) messages, and noid.

This library contains inherited classes responsible for setting up client communication with the resource model through specialized messages.

Classes

- PICIAppl -- A PICIAppl is an ECS resource model client application class It is responsible for setting up communication to a resource model and initializing the entire process.
- PICIForceLink -- Instances of PICIForceLink are used to force linkage of ECS resource model message classes which may not be present at link time.
- PICISrmNoid -- Instances of PICISrmNoid are HNoids that manage the finding, requests to, and receiving information from the system srm within the era process.

library PICore1

/ecs/formal/PDPS/PLS/PLANG/src/CoreLib

This library contains the first half of Planning's core functionality. The CoreLib provides functionality for all areas of Planning. It was divided in half due to its large size.

Classes

- PIConfig -- This file defines a helper class to manage getting and setting parameters from the process framework configuration file.
- PIDataGranInsOrdCollectable -- The sole purpose of this class is to provide a way for other classes in this library to use the functionality of the RWGranuleCollectable classes without being derived from RWCollectable themselves.
- PIDataGranule -- This class describes an individual instance of an ESDT or data file within the PDPS, it may describe either predicted Data Granules, or Granules that are known to exist within the Science Data Server so that they may be.
- PIDataGranuleCollection -- This class provides a collection of either static or dynamic granules based on selected criteria.
- PIDataScheduled -- This class is a specialization of the PIPge class and accounts for PGEs that are scheduled on the condition that the optional output of a previous Dpr exist.

- `PIDataSource` -- `PIDataSource` is an abstract base class which declares attributes and function prototypes for all operations of `PIDataSource` and its subclasses.
- `PIDataSourceFactory` -- This class provides simple methods to construct the correct type of Data Source object from the persistent data in the database.
- `PIDataType` -- This class describes a Data Type known to the PDPS and is used to describe the input or output data of a PGE.
- `PIDataTypeReq` -- This class captures the attributes that describe the input relationship between a PGE and a Data Type The class is used when selecting input data for the PGE from the predictions of Data Granules.
- `PIDbIfManager` -- This file defines a helper class to manage the various database interfaces.
- `PIDpr` -- This class describes a Data Processing Request.
- `PIDprData` -- This class associates Data-Granules with DPRs.
- `PIOrder` -- This class provides important information about an Ondemand Order.
- `PIOutputYield` -- This class captures the attributes that describe the output relationship between a PGE and a Data Type The class is used when predicting the output data for the PGE that will be produced for a given Data Processing Request.
- `PIPerformance` -- This class describes the performance statistics of PGE.
- `PIPge` -- This class is the base class within a generalization hierachy that describes Product Generation Executives (PGEs) to the PDPS software, it defines the abstract operations required in order that Planning Subsystem can work out when a PGE requires to be scheduled.
- `PIPgeFactory` -- This class provides simple methods to construct the correct type of PGE object from the persistent data in the database.
- `PIProductionRequest` -- A Production Request describes the need for the scheduling of some PGE to produce a series of Data Granules.
- `PISnapshotScheduled` -- This class is a specialization of the `PIPge` class and accounts for PGEs that are scheduled to process data for regular time period, this class accounts for all the PGEs that can be planned and scheduled in Release A.
- `PITileScheduled` -- This class is a specialization of the `PIPge` class and accounts for PGEs that are scheduled to process data for regular time period for a series of tiles.
- `PITileSchema` -- The `PITileSchema` class is a table used by `PITileScheduled` for getting the spatial definitions of tiles.
- `PITimer` -- This class initiates a timer to alert the subscription manager of the expiration of a wait time for alternate input activation.
- `PITimeScheduled` -- This class is a specialization of the `PIPge` class and accounts for PGEs that are scheduled to process data for regular time period, this class accounts for all the PGEs that can be planned and scheduled in Release A.

library PICore1IF

/ecs/formal/PDPS/PLS/PLANG/src/CoreLib

This library contains the Science Data Server, advertisement, and subscription server interfaces that are needed to run the Production request editor.

Classes

- **PIConfig** -- This file defines a helper class to manage getting and setting parameters from the process framework configuration file.
- **PIDataGranInsOrdCollectable** -- The sole purpose of this class is to provide a way for other classes in this library to use the functionality of the **RWGranuleCollectable** classes without being derived from **RWCollectable** themselves.
- **PIDataGranule** -- This class describes an individual instance of an ESDT or data file within the PDPS, it may describe either predicted Data Granules, or Granules that are known to exist within the Science Data Server so that they may be.
- **PIDataGranuleCollection** -- This class provides a collection of either static or dynamic granules based on selected criteria.
- **PIDataScheduled** -- This class is a specialization of the **PIPge** class and accounts for PGEs that are scheduled on the condition that the optional output of a previous Dpr exist.
- **PIDataSource** -- **PIDataSource** is an abstract base class which declares attributes and function prototypes for all operations of **PIDataSource** and its subclasses.
- **PIDataSourceFactory** -- This class provides simple methods to construct the correct type of Data Source object from the persistent data in the database.
- **PIDataType** -- This class describes a Data Type known to the PDPS and is used to describe the input or output data of a PGE.
- **PIDataTypeReq** -- This class captures the attributes that describe the input relationship between a PGE and a Data Type The class is used when selecting input data for the PGE from the predictions of Data Granules.
- **PIDbIfManager** -- This file defines a helper class to manage the various database interfaces.
- **PIDpr** -- This class describes a Data Processing Request.
- **PIDprData** -- This class associates Data-Granules with DPRs.
- **PIOrder** -- This class provides important information about an Ondemand Order.
- **PIOutputYield** -- This class captures the attributes that describe the output relationship between a PGE and a Data Type The class is used when predicting the output data for the PGE that will be produced for a given Data Processing Request.
- **PIPerformance** -- This class describes the performance statistics of PGE.
- **PIPge** -- This class is the base class within a generalization hierachy that describes Product Generation Executives (PGEs) to the PDPS software, it defines the abstract operations required in order that Planning Subsystem can work out when a PGE requires to be scheduled.

- PIPgeFactory -- This class provides simple methods to construct the correct type of PGE object from the persistent data in the database.
- PIProductionRequest -- A Production Request describes the need for the scheduling of some PGE to produce a series of Data Granules.
- PISnapshotScheduled -- This class is a specialization of the PIPge class and accounts for PGEs that are scheduled to process data for regular time period, this class accounts for all the PGEs that can be planned and scheduled in Release A.
- PITileScheduled -- This class is a specialization of the PIPge class and accounts for PGEs that are scheduled to process data for regular time period for a series of tiles.
- PITileSchema -- The PITileSchema class is a table used by PITileScheduled for getting the spatial definitions of tiles.
- PITimer -- This class initiates a timer to alert the subscription manager of the expiration of a wait time for alternate input activation.
- PITimeScheduled -- This class is a specialization of the PIPge class and accounts for PGEs that are scheduled to process data for regular time period, this class accounts for all the PGEs that can be planned and scheduled in Release A.

library PICore2

/ecs/formal/PDPS/PLS/PLANG/src/CoreLib

This library contains the second half of Planning's core functionality. The CoreLib provides functionality for all areas of Planning. It was divided in half due to its large size.

Classes

- PIAAlternate -- This class defines an alternate data input to a PGE.
- PIComputer -- The PIComputer class, which is inherited from PIResource.
- PIDASDelta -- This class provides the list of the maximum acceptable deltatimes for each data type used in determining a replan.
- PIDASDifferent -- This object is used to compare a newly-received DAS (Data Availability Schedule) or PDAS (Predicted Data Availability Schedule) to the previous one of the same type.
- PIDATRecord -- The PIDATRecord class maintains all the information the predicted availability times of data granules and some of the attributes of the data granules used to generate such predictions.
- PIDbIfManager -- This file defines a helper class to manage the various database interfaces.
- PIDEMOrder -- This class describes a DEM on demand order.
- PIDEMPR -- This class describes a DEM on demand production request.
- PIHighLevelOrder -- PIHighLevelOrder is a subclass of PIOrder which provides the functionality specific to creating a high level order for ASTER on-Demand.
- PIMetaDataChecks -- These friend functions are needed by DB IF template.

- `PINonRoutineArrival` -- This class provides a framework for handling data which arrives in a non-routine or random fashion.
- `PINonStandardOrder` -- This class describes a non-standard L1B on demand order.
- `PINonStandardPR` -- This class describes a non-standard L1B on demand production request.
- `PIOnDemandPR` -- This class derives from the `PIProductionRequest` class and provides some additional functionality specific to an `ONDemandPR`.
- `PIOnDemandStore`
- `PIOrderErr` -- This class is created to save the detailed error message that causes an `OnDemand` order to fail.
- `PIOrderErrTransporter` -- This class is created to create, maintain and provide access to the `PIOrderErr` object which tracks the detailed error message related to the failed `OnDemand` order. The implementation is generalized to provide extensibility for possible future enhancement to `OdMgr` (e.g. multi-threading).
- `PIOrderFactory` -- This class is an abstract factory which creates an instance of the proper `PIOrder` subclass given the available information.
- `PIPGECollection` -- This class handles collections of PGEs.
- `PIPgeDbQuery` -- This class provides functionality to handle specific queries to the PDPS database on behalf of PGEs.
- `PIPgePriority` -- This class is part of the production strategies which relates a particular PGE to a particular priority.
- `PIPrActivator` -- This interface class provides attributes and function prototypes of all operations that allow the User to add a Production Request (PR) to the list of PR's to be scheduled for activation, schedule DPR's in a given Production Request for activation, and find if required inputs for a DPR in a given Production Request are available before being activated.
- `PIPrAlternateInputValues` -- This class defines an alternate input to a PGE.
- `PIPRFactory` -- This class is an abstract factory which creates an instance of the proper Production Request subclass given the available information.
- `PIPrMetaDataValues` -- These friend functions are needed by DB IF template.
- `PIProdStrat` -- This class describes the production strategies used by the DAAC to determine data processing request priorities.
- `PIProfile` -- This is a simple class to create a single instance of the client information class required by DSS when using any of it's client interfaces.
- `PIPRPriority` -- This class describes a table in the PDPS database that matches the types of production requests (on-demand, standard and reprocessing) and the priority assigned to requests of that type.
- `PIReplanCriteria`
- `PIRescUseThresh` -- This class provides methods for evaluating resource usage of a Production Request vis-a-vis the threshold usage values from the `PIRescUseThresh` table in the PDPS Database.

- PIResource -- This class is the base class in a generalization heirachy describing the production resource.
- PIResourceChange -- This class is used to compare an old resource plan with the current resource plan.
- PIResourceRequirement -- This class defines resource requirements.
- PIRoutineArrival -- Persistent attributes as defined in the schema.
- PIStandingOrder -- The class PIStandingOrder is created to Support standing order (attached DPR) Ondemand capability.
- PIStandingOrderGranules -- The PIStandingOrderGranules class save the standing order granule information in this database table after subscription manager determines it is a standing order granule from the notification it received from the SubServer.
- PIUserParameters -- This class allows for manipulation of the run time parameters that may be defined for a PGE.
- PIUserParametersCollection -- This class defines methods and operations to allow access to all of the User Parameters associated to a particular PGE.
- PIUserPriority -- This class is part of the production strategies which relates a particular user to a particular priority.

library pldb

/ecs/formal/PDPS/PLS/PLANG/src/PWB/db/src

Database Interface.

This library contains classes which build the database interface for ECS specific processes. Its classes are responsible for reading, writing from/to the database and construnting the corresponding objects.

Classes

- PIDbDatabaseCfg -- PIDbDatabaseCfg serves as a base class for all HCL database interface.
- PIDbDatabaseInfo -- PIDatabaseInfo serves as an encapsulation of the database schema and stores database login information.
- PIDbDprCfg -- PIDbDprCfg allows loading and saving data processing request (DPR) activities (PIAcDpr) from and to the database tables.
- PIDbGroundEventCfg -- PIDbGroundEventCfg allows loading and saving ground event activities (PIAcGroundEvent) from and to the database tables.
- PIDbPlanCfg -- PIDbPlanCfg allows loading and saving of Plan information (PIPIPlan) from and to the database tables.
- PIDbPrCfg -- PIDbPrCfg allows loading and saving Production Request activities (PIAcPr) from and to the database tables.
- PIDbResourceCfg -- PIDbResourceCfg allows loading the resource pool from the database tables and saving to the database tables from the resource pool.

library pldi

/ecs/formal/PDPS/PLS/PLANG/src/PWB/di/src

Common Displayable (motif) components.

This library contains inherited classes responsible for implementing display capabilities for the client application.

Classes

- PIDiAppl -- An instance of this class is a type of resource model client display application.
- PIDiDateTimePanel -- Instances of PIDiDateTimePanel are displayable panels of MOTIF widgets for the entry or display of date values in a "yy/ddd" format and time values in a "<hours>::<minutes>::<seconds>" format. Seconds can be entered or displayed to 1 millisecond resolution.
- PIDiMotifNotifier -- Instances of PIDiMotifNotifier are Motif Notifiers for client display application which handle the watch set behavior.

library PIGUIError

/ecs/formal/PDPS/PLS/PLANG/src/GUIError

This library contains the objects needed for SSIT and QA Monitor GUIs to display error messages. PLS is not using this library.

Classes

- DpAtMessageDialog -- This class provides the text messages for EcsError GUI popup message boxes.
- EcsError -- This class provides the means for displaying GUI popup message boxes.

library plip

/ecs/formal/PDPS/PLS/PLANG/src/PWB/ip/src

Interprocess Communication Agent.

This library contains classes which implement PLS communication among different processes.

Classes

- PIIpAgent -- Instances of PIIpAgent are HNoidAgents that have chosen a particular NameServAbs implementation, register their HAddress with said NameServAbs, and interact with the global HSigMgr to install a HNSigHand to take over in the event of disaster.

library plmi

/ecs/formal/PDPS/PLS/PLANG/src/PWB/mi/src

Miscellaneous

This library contains miscellaneous classes that are useful to multiple processes. The class PIMiAppl in this library is the base class for all applications.

Classes

- PIMiAppl -- Instances of PIMiAppl are base application classes for all ECS applications.
- PIMiTextConvertor -- Instances of PIMiTextConvertor are responsible for string-to-binary and binary-to-string conversions of integer, floating and other binary values.
- PIMiTimeCvtr -- Instances of PIMiTimeCvtr provides additional time conversion operations.

library PIODMgrClient

/ecs/formal/PDPS/PLS/PLANG/src/OdMgr

This library contains the objects needed for the EcPIODMgr application. The EcPIODMgr server utility is one of the components of the ASTER OnDemand processing functionality.

library plpl

/ecs/formal/PDPS/PLS/PLANG/src/PWB/pl/src

Plans.

This library represents the concepts of plans. Plans are collections of scheduled production activities on available resources.

Classes

- PIPiForceLink -- Instances of PIPiForceLink are used to force linkage of ECS plan classes which may not be present at link time.
- PIPiPlan -- Instances of the class PIPiPlan are the production plans.

library plrc

/ecs/formal/PDPS/PLS/PLANG/src/PWB/rc/src

Resources.

This library contains ECS specific resource related classes. Resources represent the actual physical or virtual entities that perform the production runs. These resources are computers, disks, strings, etc. They maintain a representation of their state through time running state lists.

Classes

- PIRcActIdFact -- Instances of PIRcActIdFact are activity ID generators.
- PIRcActState -- Instances of PIRcActState model the state of a resource during which that resource is in the process of executing an activity.
- PIRcAutosys -- Resources to hold a place in the pool for the autosy(s).
- PIRcComputer -- Instances of PIRcComputer are multi-processors with a known configuration of associated disks.
- PIRcCpu -- Instances of PIRcCpu are processors associated with a particular computer and are of a certain type (Sun, SGI, etc.).
- PIRcDataArrivalState -- Instances of PIRcDataArrivalState models the current data arrival state of a resource.

- PIRcDataServer -- Instances of PIRcDataServer provide data server information.
- PIRcDisk -- Instances of PIRcDisk are computer resources capable of providing disk storage and disk capacity information.
- PIRcForceLink -- Instances of PIRcForceLink are used to force linkage of ECS resource model classes which may not be present at link time.
- PIRcIdFactAbs -- Instances of PIRcIdFactAbs are abstract base class id generators.
- PIRcLocalDisk -- Instances of PIRcLocalDisk are Disk storage units which are "Locally" or directly attached to a Computer and are therefore owned by that computer.
- PIRcMultiActState -- This class is a RRsState that can keep track of associations between it and multiple RActivity 'tasking' requests.
- PIRcProcessState -- Instances of PIRcProcessState are classes that represent the current processing state of the CPU.
- PIRcResource -- Instances of PIRcResource are classes from which all other Planning Workbench specific resource classes inherit.
- PIRcResourceIdFact -- Instances of PIRcResourceIdFact are activity ID generators.
- PIRcState -- Instances of PIRcState are generic activity states which simply contains the name of the generic state.
- PIRcStorageState -- Instances of PIRcStorageState are states for storage utilization for a disk.
- PIRcString -- Instances of PIRcString are logical groupings of computers.

library plrm

/ecs/formal/PDPS/PLS/PLANG/src/PWB/rm/src

Resource Model.

The resource model is the heart of the Production Planning tool. It is a representation of database in memory, and the interface for reading and updating to the database, and a maintainer for an up-to-date representation of the states of resource, plans and activities in the system. It is also the hub of message switching process.

Classes

- PIRmAppl -- Instances of PIRmAppl are resource model applications.
- PIRmCatalog -- An instance of PIRmCatalog is owned by a PIRmSrm client.
- PIRmSigHand -- Instances of PIRmSigHand are signal catchers for a resource model to detect termination signals and save our resource model states.
- PIRmSrm -- Instances of PIRmSrm are resource model editors that know about ECS notions, plan accesses, etc.
- PIRmSrmNoid -- The PIRmSrmNoid is an ipc msgAgent that services resource model requests.

library PIRpAc

/ecs/formal/PDPS/PLS/PLANG/src/RPL/ac

Manages the scheduling activities.

Classes

- PIRpAcActivity -- An instance of a PIRpAcActivity represents a request to change the configuration of a resource.
- PIRpAcAlloc -- An instance of a PIRpAcAlloc is an allocation containing information as to when the allocation was created, and any parameters that have been modified from the default parameters.
- PIRpAcDpr -- Instances of PIRpAcDpr are activities which represent Data Processing Requests.
- PIRpAcForceLink -- Instances of PIRpAcForceLink are dummy classes, used to trick the linker into linking classes which are usually not known at compile time.
- PIRpAcGroundEvent -- Instances of PIRpAcGroundEvent are activities which model ground events on resources.
- PIRpAcInterval -- This class defines attributes and operations [get/set] for PIRpAcInterval.
- PIRpAcResourceReservation -- This class defines attributes and operations for PIRpAcResourceReservation.
- PIRpAcSchedInfo -- Instances of PIRpAcSchedInfo are objects that contain information related to how an activity will/was scheduled.
- PIRpAcTimeInfo -- Instances of PIRpAcTimeInfo are base class objects for scheduling time information.

library PIRpCI

/ecs/formal/PDPS/PLS/PLANG/src/RPL/cl

Manages the resource model clients.

Classes

- PIRpCIAppl -- A PIRpCIAppl is an ECS resource model client application class It is responsible for setting up communication to a resource model and initializing the entire process.
- PIRpCIForceLink -- Instances of PIRpCIForceLink are used to force linkage of ECS resource model message classes which may not be present at link time.
- PIRpCISrmNoid -- Instances of PIRpCISrmNoid are HNoids that manage the finding, requests to, and receiving information from the system srm within the era process.

library PIRpDb

/ecs/formal/PDPS/PLS/PLANG/src/RPL/db

Accesses and modifies the database.

Classes

- PIRpDbCommentsCfg -- PIRpDbCommentsCfg class allows loading the comments for a resource from the database tables and saving the comment to the database tables from the GUI.
- PIRpDbDatabaseCfg -- PIRpDbDatabaseCfg class serves as a base class for all HCL database interface classes.
- PIRpDbDatabaseInfo -- PIRpDbDatabaseInfo class serves as an encapsulation of the database schema and stores database login information.
- PIRpDbDprCfg -- PIRpDbDprCfg allows loading and saving data processing request (DPR) activities (PIRpAcDpr) from and to the database tables.
- PIRpDbGroundEventCfg -- PIRpDbGroundEventCfg allows loading and saving ground event activities (PIRpAcGroundEvent) from and to the database tables.
- PIRpDbMMSRsCfg -- The PIRpDbMMSRsCfg class contains the control identification values from the configuration file received from Baseline Manager (MSS).
- PIRpDbPlanCfg -- PIRpDbPlanCfg allows loading and saving of Plan information (PIRpPlan) from and to the database tables.
- PIRpDbReservationCfg -- PIRpDbReservationCfg allows loading and saving reservation activities (PIRpAcResourceReservation) from and to the database tables.
- PIRpDbResourceCfg -- PIRpDbResourceCfg class allows loading the resource pool from the database tables and saving to the database tables from the resource pool.
- PIRpDbRsCfg -- The PIRpDbRsCfg class is the interface between Resource Planning and Baseline Manager (MSS).

library PIRpDi

/ecs/formal/PDPS/PLS/PLANG/src/RPL/di

Resource model client display application.

Classes

- PIRpDiAppl -- An instance of this class is a type of resource model client display application.

library PIRpRc

/ecs/formal/PDPS/PLS/PLANG/src/RPL/rc

Manages resources.

Classes

- PIRpRcActIdFact -- Instances of PIRpRcActIdFact are activity ID generators.
- PIRpRcActState -- Instances of PIRpRcActState model the state of a resource during which that resource is in the process of executing an activity.
- PIRpRcAllocIdFact -- Instances of PIRpRcAllocIdFact are allocation ID generators.
- PIRpRcAutosys -- Instances of PIRpRcAutosys are logical groupings of strings.

- PIRpRcComputer -- Instances of PIRpRcComputer are multi-processors with a known configuration of associated disks.
- PIRpRcCpu -- Instances of PIRpRcCpu are processors associated with a particular computer and are of a certain type (Sun, SGI, etc.).
- PIRpRcDisk -- Instances of PIRpRcDisk are computer resources capable of providing disk storage and disk capacity information.
- PIRpRcForceLink -- Instances of PIRpRcForceLink are used to force linkage of ECS resource model classes which may not be present at link time.
- PIRpRcIdFactAbs -- Instances of PIRpRcIdFactAbs are abstract base class id generators.
- PIRpRcLocalDisk -- Instances of PIRpRcLocalDisk are Disk storage units which are "Locally" or directly attached to a Computer and are therefore owned by that computer.
- PIRpRcMultiActState -- This class is a RRsState that can keep track of associations between it and multiple RActivity 'tasking' requests.
- PIRpRcNetworkDisk -- Instances of PIRpRcNetworkDisk are Disk storage units which are "Network Attached" and behave like NFS mounted disks.
- PIRpRcProcessState -- Instances of PIRpRcProcessState are classes that represent the current processing state of the CPU.
- PIRpRcRealComputer -- Instance of PIRpRcRealComputer is a physical collection of virtual computers.
- PIRpRcResource -- Instances of PIRpRcResource are base class for string, computer and disk resources.
- PIRpRcResourceIdFact -- Instances of PIRpRcResourceIdFact are unique activity ID generators.
- PIRpRcState -- Instances of PIRpRcState are generic activity states which simply contains the name of the generic state.
- PIRpRcStorageState -- Instances of PIRpRcStorageState are states for storage utilization for a disk.
- PIRpRcString -- Instances of PIRpRcString are logical groupings of computers.

library PIRpRe

/ecs/formal/PDPS/PLS/PLANG/src/RPL/sre

Manages the Resource Editor GUI.

Classes

- PIRpReAppl -- Instances of PIRpReAppl are derived PIRpDiAppl's capable of using it's noid to request resources from the resource model.
- PIRpReAutosysWin -- An instance of this class provides a view of the details associated with the selected Autosys resource.
- PIRpReComputerWin -- An instance of this class provides a view of the details associated with the selected computer (host) resource.

- PIRpReConfirmWin -- An instance of the class brings up a confirmation window for deleting the resources.
- PIRpReDateDlg -- An instance of the class brings up a date entry dialog for the MSS resource baseline.
- PIRpReDiskWin -- An instance of this class provides a view of the details associated with the selected disk partition resource.
- PIRpReHardwareWin -- An instance of this class provides a view of the details associated with the selected hardware resource.
- PIRpReNoid -- Instances of PIRpReNoids handle resource planning related client noid messages.
- PIRpReRealComputerWin -- An instance of this class provides a view of the details associated with the selected realComputer resource.
- PIRpReSelBox -- An instance of this provides a message popup box for displaying information to the user.
- PIRpReStringWin -- An instance of this class provides a view of the details associated with the selected string resource.
- PIRpReWin -- This class is Motif Window for controlling the setup and display of the resource planning workbench.
- PIRpReWinAbs -- PIRpReWinAbs establishes protocol for System Resource Editor Windows.

library PIRpRm

/ecs/formal/PDPS/PLS/PLANG/src/RPL/srm

Manages the resource model.

Classes

- PIRpRmAppl -- Instances of PIRpRmAppl are resource model applications.
- PIRpRmCatalog -- An instance of PIRpRmCatalog is owned by a PIRpRmSrm client.
- PIRpRmSigHand -- Instances of PIRpRmSigHand are signal catchers for a resource model to detect termination signals and save our resource model states.
- PIRpRmSrm -- Instances of PIRpRmSrm are resource model editors that know about ecs notions, plan accesses, etc.
- PIRpRmSrmNoid -- The PIRpRmSrmNoid is an ipc msgAgent that services resource model requests.

library PIRpSc

/ecs/formal/PDPS/PLS/PLANG/src/RPL/sc

Manages schedulable resources.

Classes

- PIRpScAllImpct -- Instances of PIRpScAllImpct add the knowledge of oversubscription to the impact scheduler.
- PIRpScComputer -- Instances of PIRpScComputer are schedulable computer resources.
- PIRpScCpu -- Instances of PIRpScCpu are schedulable CPU resources.
- PIRpScForceLink -- Instances of PIRpScForceLink are used to force linkage of schedule resource model classes which may not be present at link time.
- PIRpScLocalDisk -- Instances of PIRpScLocalDisk are schedulable local disk resources.
- PIRpScResource -- This class sets up protocol for all ECS schedulable resources.

library PIRpSi

/ecs/formal/PDPS/PLS/PLANG/src/RPL/si

Manages the Resource Scheduler GUI

Classes

- PIRpSiActType -- PIRpSiActType is the same of one row in ACTIVITY_TYPE table.
- PIRpSiAppl -- Instance of PIRpSiAppl is derived from PIRpDiAppl.
- PIRpSiCloseWin -- An instance of this class display reservation that has approved status.
- PIRpSiEditWin -- An instance of this class provides a view of the details associated with the selected reservation resource.
- PIRpSiIntervalSelWin -- (Show Reservation's unSelected and Selected intervals windows).
- PIRpSiNoid -- I'm a noid who is only interested in handling resource related SrmClient messages.
- PIRpSiOppGen -- Instances of PIRpSiOppGen are derived from SsiOppGen.
- PIRpSiResourceSelWin -- An instance of this class shows those resources available and associated with the reservation.
- PIRpSiScheduler -- The PIRpSiScheduler is a generic Scheduling System user interface.
- PIRpSiWin -- An instance of the class is a Motif window to setup and display the reservation plan.
- PIRpSiWinAbs -- An instance of this class shares static attributes for all windows.

library PIRpTI

/ecs/formal/PDPS/PLS/PLANG/src/RPL/tl

Manages the scheduled Resources' Timeline GUI

Classes

- PIRpTIApDefsCfg -- Instances of PIRpTIApDefsCfg handle configuration files for default display resource settings for the timeline.

- PIRpTlAppl -- PIRpTlAppl is the main application class for the timeline.
- PIRpTlColChgList -- Instances of PIRpTlColChgList are lists which are part of the color mapper dialog.
- PIRpTlColChgSt -- Instances of PIRpTlColChgSt map colors to types.
- PIRpTlColChngr -- Instances of PIRpTlColChngr can be used to specify colors for types.
- PIRpTlConfig -- PIRpTlConfig is the base class for all configuration files.
- PIRpTlDefsConfig -- Instances of PIRpTlDefsConfig load and save basic timeline configuration files.
- PIRpTlFileDiag -- An instance of the class is a base dialog for loading and saving the configuration files.
- PIRpTlFileSelDiag -- This is a derived DFileSelectBox that AUTOMATICALLY creates a FileSelectionDialog (i.e. both the FileSelectionBox widget and its DialogShell parent are created no matter what create function you call.) In addition, this class adds behavior to make sure the DialogShell parent behaves just like a DPopup.
- PIRpTlMainRegion -- A PIRpTlMainRegion is a `_TLMainRegion_` that implements "timeline" mouse tracking behavior.
- PIRpTlPanel -- This class, which is derived from TLPanel, adds capabilities for interactively changing colors and resources, and for saving and loading from different configuration files.
- PIRpTlPlanWinChgr -- Instances of PIRpTlPlanWinChgr are dialogs for selecting a plan.
- PIRpTlRsConfig -- Instances of PIRpTlRsConfig are responsible for loading a set of names of resources to be displayed on the timeline.
- PIRpTlRsEditor -- Instances of PIRpTlRsEditor are dialogs for choosing the set of resources to be displayed on the timeline.
- PIRpTlSimpleEvent -- Instances of PIRpTlSimpleEvent provide base class behavior that all timeline simple events will provide.
- PIRpTlSliderPup -- Instances of PIRpTlSliderPup are popup windows which display a start time and stop time for the corresponding plan region.
- PIRpTlSrmNoid -- Instances of PIRpTlSrmNoid are timeline resource model client noids.
- PIRpTlStatusBar -- Instances of PIRpTlStatusBar provide a line at the bottom of the timeline for displaying messages.
- PIRpTlStplConfig -- Instances of PIRpTlStplConfig handle stipple keywords in configuration files.
- PIRpTlStplEv -- Instances of PIRpTlStplEv are stipple events.
- PIRpTlStplEvent -- Instances of PIRpTlStplEvent are stipple events associated with resource states.
- PIRpTlStplView -- Instances of PIRpTlStplView are views associated with stipple events.
- PIRpTlStplVw -- Instances of PIRpTlStplVw are views of stipple events.
- PIRpTlTypesConfig -- Instances of PIRpTlTypesConfig handle configuration files which can contain class names which are added to the list of the timeline's known types.

- PIRpTIValEvent -- This class is a derived TLEvent which is used for displaying values versus time data graphically on a TLEventSubRegion over a specific interval of time.
- PIRpTIValView -- This class is the base class for views that display value versus time information graphically in a timeline subregion.
- PIRpTIWindow -- PIRpTIWindow are main windows used by the PIRpTIAppl class.
- PIRpTIXtl -- Instances of PIRpTIXtl are planning timeline displays.
- PIRpTIZmBar -- Instances of PIRpTIZmBar are zoom bars which know how to pop up a plan interval window.

library plsc

/ecs/formal/PDPS/PLS/PLANG/src/PWB/sc/src

The Schedulable resources perform the scheduling of the activities on resources. For each resource, there must be a corresponding schedulable resource with it.

Classes

- PIScAllImpct -- Instances of PIScAllImpct add the knowledge of oversubscription to the impact scheduler.
- PIScComputer -- Instances of PIScComputer are schedulable computer resources.
- PIScCpu -- Instances of PIScCpu are schedulable CPU resources.
- PIScForceLink -- Instances of PIScForceLink are used to force linkage of schedule resource model classes which may not be present at link time.
- PIScLocalDisk -- Instances of PIScLocalDisk are schedulable local disk resources.
- PIScResource -- This class sets up protocol for all ECS schedulable resources.

library PISSIT

/ecs/formal/PDPS/PLS/PLANG/src/CoreLib

This library manages the Science Software Integration & Test PDPS DB interfaces.

Classes

- PIAlternateCollection -- It allow for all PIAlternate database records associated with a given PgeId to be retrieved from the database.
- PIDataTypeFiles -- This class captures the attributes that describe the relationship between Names of File Types (within a granule) and the integer value of that file type used by PDPS.
- PIDataTypeFilesCollection -- This class constructs a collection of parameters for a Pge given a specific DataTypeId.
- PIDataTypeReqCollection -- This class constructs a collection of parameters for a given Pge based on a specified PgeId.
- PIDbIfManager -- This file defines a helper class to manage the various database interfaces.
- PExitDependency -- This class provides access to the name/version (SswId), exit code, and condition of another PGE on which this PGE depends.

- `PIExitDependencyCollection` -- This class provides a list of names/versions (SswIDs), exit codes, and conditions of PGEs on which this PGE depends.
- `PIExitMessage` -- This class creates descriptive messages which are associated with exit codes generated after PGE processing.
- `PIExitMessageCollection` -- This class provides a list of PGE exit code messages for a given PGE name/version (SswId).
- `PIMetaDataChecksCollection` -- This class provides lists of metadata parameter values for PGEs.
- `PIOutputYieldCollection` -- This class selects all the parameters from the database that are associated with a given `PgeId` and constructs a collection of these parameters.

library pltl

`/ecs/formal/PDPS/PLS/PLANG/src/PWB/tl/src`

This library contains classes responsible for building the Timeline application which helps visualize the scheduled activities in a particular plan. Almost all the classes are for building GUI, except the application and noid classes.

Classes

- `PITIApDefsCfg` -- Instances of `PITIApDefsCfg` handle configuration files for default display resource settings for the timeline.
- `PITIAppl` -- An `PITIAppl` is the main application class for the timeline.
- `PITIColChgList` -- Instances of `PITIColChgList` are lists which are part of the color mapper dialog.
- `PITIColChgSt` -- Instances of `PITIColChgSt` map colors to types.
- `PITIColChngr` -- Instances of `PITIColChngr` can be used to specify colors for types.
- `PITIconfig` -- `PITIconfig` is the base class for all configuration files.
- `PITIDefsConfig` -- Instances of `PITIDefsConfig` load and save basic timeline configuration files.
- `PITIFileDiag` -- Instances of `PITIFileDiag` are base classes dialogs for handling the loading and saving of configuration files.
- `PITIFileSelDiag` -- This is a derived `DFileSelectBox` that creates a `FileSelectionDialog` (i.e. both the `FileSelectionBox` widget and its `DialogShell` parent are created no matter what create function you call.) In addition, this class adds behavior to make sure the `DialogShell` parent behaves just like a `DPopup`.
- `PITILoadDiag` -- Instances of `PITILoadDiag` are dialogs for loading saved timeline configuration files.
- `PITIMainRegion` -- A `PITIMainRegion` is a `_TLMainRegion_` that implements "timeline" mouse tracking behavior.
- `PITIPanel` -- This class, which is derived from `TLPanel`, adds capabilities for interactively changing colors and resources, and for saving and loading from different configuration files.

- PITIPlanSelDiag -- This is a derived DSelectionBox that creates a PlanSelectionDialog (i.e. both the SelectionBox widget and its DialogShell parent are created no matter what create function you call.) In addition, this class adds behavior to make sure the DialogShell parent behaves just like a DPopup.
- PITIPlanWinChgr -- Instances of PITIPlanWinChgr are dialogs for selecting a plan.
- PITIRsConfig -- Instances of PITIRsConfig are responsible for loading a set of names of resources to be displayed on the timeline.
- PITIRsEditor -- Instances of PITIRsEditor are dialogs for choosing the set of resources to be displayed on the timeline.
- PITISaveDiag -- Instances of PITISaveDiag are dialogs for saving timeline configuration files.
- PITISimpleEvent -- Instances of PITISimpleEvent provide base class behavior that all timeline simple events will provide.
- PITISliderPup -- Instances of PITISliderPup are popup windows which display a start time and stop time for the corresponding plan region.
- PITISrmNoid -- Instances of PITISrmNoid are timeline resource model client noids.
- PITIStatusBar -- Instances of PITIStatusBar provide a line at the bottom of the timeline for displaying messages.
- PITIStplConfig -- Instances of PITIStplConfig handle stipple keywords in configuration files.
- PITIStplEv -- Instances of PITIStplEv are stipple events.
- PITIStplEvent -- Instances of PITIStplEvent are stipple events associated with resource states.
- PITIStplView -- Instances of PITIStplView are views associated with stipple events.
- PITIStplVw -- Instances of PITIStplVw are views of stipple events.
- PITITypesConfig -- Instances of PITITypesConfig handle configuration files which can contain class names which are added to the list of the timeline's known types.
- PITIValEvent -- This class is a derived TLEvent which is used for displaying values versus time data graphically on a TLEventSubRegion over a specific interval of time.
- PITIValView -- This class is the base class for views that display value versus time information graphically in a timeline subregion.
- PITIWindow -- PITIWindow are main windows used by the PITIAppl class.
- PITIXtl -- Instances of PITIXtl are planning timeline displays.
- PITIZmBar -- Instances of PITIZmBar are zoom bars which know how to pop up a plan interval window.

library PIUtil

/ecs/formal/PDPS/PLS/PLANG/src/CoreLib

This library contains utilities dealing with current time, time periods, time boundaries, time windows, time intervals, spacecraft, orbit, instruments, and also manages their DB interfaces.

Classes

- `PIBoundary` -- This class is used to describe boundaries for data acquisition and data processing within PGEs.
- `PIDbIfManager` -- This file defines a helper class to manage the various database interfaces.
- `PIInterval` -- This class provides methods for evaluating and manipulating time intervals based on start and stop times.
- `PIOrbitBoundary` -- The goal of this class is to encapsulate the knowledge of how to determine boundary times.
- `PIOrbitModel` -- The `PIOrbitModel` class is a table used by `PIOrbitScheduled` for calculating the estimated times for an orbit.
- `PIOrbitPeriod` -- The goal of this class is to store the platform of in a period such that the `PITime` class can perform Period
- `PIPathModel` -- This class will give us one to one mapping of our current absolute path number to instrument-specific path number.
- `PIPeriod` -- A period may be specified as either a number of seconds Or built from a `RWCString` format such as `MONTHS=1, DAYS=7, HOURS=1` From which either the number of seconds are calculated, or an internal format is stored in the case that there are not a standard number of seconds in the period.
- `PITime` -- This class is a utility class for management of Time within the PDPS, it is derived from the standard Rogue Wave class but overrides it's behavior to expect as a standard to be constructed from UTC, and to format to UTC, which is the standard that is used in specifying data acquisition periods etc.
- `PITimeService` -- Helper class to return ensure that only one instance of the `EcTiTimeService` class is initialized, so that when an application runs in the DCE environment it can use DCE time.

Templates

- `PIObjectPool`

library plwb

`/ecs/formal/PDPS/PLS/PLANG/src/PWB/wb/src`

Planning Workbench.

This library contains classes responsible for building the user interface of planning Workbench. These classes provide the users with the capability of creating candidate plans and schedule different activities (production requests) on them.

Classes

- `PIWbAppl` -- Instances of `PIWbAppl` are derived `PIDiAppl`'s capable of using it's noid to request resources, plan names and activities from the resource model.

- PIWbCatalog -- The PIWbCatalog is a local process update catalog for updating the Scheduling System Interface pools.
- PIWbMotifNotifier -- Instances of PIWbMotifNotifier are Workbench specific Motif Event Notifiers which override the startPoll behavior.
- PIWbNoid -- Instances of PIWbNoids handle planning workbench related client noid messages.
- PIWbOppGen -- Instances of PIWbOppGen are opportunity generators for the production planning workbench.
- PIWbPlanWin -- A PIWbPlanWin is a dialog which allows selection of a plan.
- PIWbPriorityWin -- A PIWbPriorityWin is a window which allows selection of a priority production requests.
- PIWbQuestionWin -- Instances of PIWbQuestionWin are popup windows for presenting questions to user/operator, and taking answers.
- PIWbScheduler -- The PIWbScheduler is the scheduler for the production planning workbench.
- PIWbTimer -- Instances of PIWbTimer are timers used for scheduling timeouts and control.
- PIWbWin -- This class represents the main Motif Window for the production planning workbench.

library RequestProcessing

/ecs/formal/DM/GatewayCSCI/src/RequestProcessing

The RequestProcessing library provides the EcDmV0ToEcsGateway with support for processing requests from the EDG client.

It supports the following requests:

- (i) Directory Search (ii) Inventory Search (iii) Search by Granule ID (iv) Price Estimate Request (v) Integrated Browse (vi) FTP Browse (vii) Product Request

Classes

- DmGwAbortRequest -- This class extracts the Abort Request ODL message, processes the request and formulates the result ODL message for the client.
- DmGwAcquireItem -- This class combines the distribution parameters and the URs for each acquire request to be submitted to the data server.
- DmGwAcquireRequest -- This class supports basic product requests processing.
- DmGwBrowseRequest -- This Class contains all the information and the operations required to submit a Browse request to the data server.
- DmGwCollectionLevelSearch -- This class interacts with the database and returns the collection level metadata associated with the given queryable parameters.
- DmGwDataDictionaryQuery -- This class contains the query interaction with the Data Dictionary database.

- DmGwDatapoolProxy -- This class supports the following operations.
- DmGwDirectoryRequest -- This class performs abort, submit, extract header, and build output information for the directory request.
- DmGwErrorResult -- This class performs build error and return error.
- DmGwExternalAcquireRequest -- This class extends DmGwAcquireRequest to support Billable product requests processing.
- DmGwGranuleLevelSearch -- This class contains the query interaction with the Science Data Server.
- DmGwInternalAcquireRequest -- This class extends DmGwAcquireRequest and supports non-billable Product Acquire processing.
- DmGwInventoryRequest -- This class extracts the Inventory Request ODL message, processes the request and formulates the result ODL message for the client.
- DmGwInventoryResult -- This class contains the definition for a InventoryResult group.
- DmGwODLLabelIO -- DmGwODLLabelIO class provides threadsafe interface to read/write the ASCII ODL definitions from/to ODL tree.
- DmGwOrderStatusUpdateRequest -- This class extracts the OrderStatusUpdate Request ODL message, processes the request and formulates the result ODL message for the client.
- DmGwPlangAcquireRequest
- DmGwPriceEstimateRequest -- This is used in Price Estimate Request for Floating scene.
- DmGwProductRequest -- This class extracts the Product Request ODL message, processes the request and formulates the result ODL message for the client.
- DmGwScanSizeUtility -- This class contains calculates the size in scans of the floating scene in a subinterval.
- DmGwSdsrvQuery -- This class constructs and performs a granule level search via the Science Data Server.
- DmGwSearchByGranuleRequest -- This class extracts the Inventory Request ODL message, processes the request and formulates the result ODL message for the client.
- DmGwSearchRequest -- This class contains all the information and the operations required to submit a search request to the data server for production history or ancillary data UR.
- DmGwV0BrowseRequest -- This class extract the Browse Request parameters from the ODL tree, submits the requests.
- DmGwV0ECSMapper -- This class maps the V0 types to ECS types and vice versa.
- DmGwV0EcsRequestReceiver -- This is a derived class of DmGwRequestReceiver which receives inventory, directory, browse, price estimate and product requests from V0 client such as EDG and instantiates appropriate request objects to process the requests by ECS data servers.
- DmGwV0ProductRequest -- This class is an interface for DmGwServerConnection to connect to DORRAN to send billable Product Requests.

- DmGwV0Request -- This is the base class for the request types that can be processed by V0 gateway.

library Sock

/ecs/formal/CSS/DOF/src/mdw/common/sockets/src

Classes

- socketServer -- This class provides the common socket interface methods for API.

library srf

/ecs/formal/COMMON/CSCI_SRF/src/srf

The SRF library provides the necessary mechanism for the application to communicate asynchronously with another application.

Classes

- EcSrAsynchRequest_C -- This class represents the context of an SRF request currently in execution.
- EcSrAsynchRequest_S
- EcSrIDTime
- EcSrRequestDispatcher
- EcSrRequestServer_C -- This class represents the clients view of an SRF server.
- EcSrRequestServer_S

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