

**800-TP-001-001**

# **Ir-1 Installation Plan for the ECS Project**

**Technical Paper**

**Technical Paper—Not intended for  
formal review or government approval.**

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Prepared Under Contract NAS5-60000

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## Abstract

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This installation plan describes the activities and schedules associated with the installation of ECS Release Ir-1 (TRMM Infrastructure Development) hardware and software. The plan is published to inform DAAC personnel and the installation team of requirements, coordination, and preparation needed to ensure the equipment and software installation is accomplished on schedule and with the least possible disruption to ongoing DAAC site operations. The plan contains a description of the activities, installation schedule, planned LAN configuration, software and hardware configurations, a bill of materials, and planned equipment layouts.

**Keywords:** Installation, Configuration, Equipment, Floor Plan, LAN, Planning, Procedures, Receiving, Testing, Shipment.

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# **1. Introduction**

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## **1.1 Purpose**

This installation plan describes the tasks and personnel required to install the ECS Release Ir-1 (TRMM Infrastructure Development) hardware and software. The plan is published to inform DAAC personnel and the installation team of requirements, coordination, and preparation needed to ensure the equipment and software installation is accomplished on schedule and with the least possible disruption to ongoing DAAC and site operations. The plan contains a description of the activities, installation schedule, planned LAN configuration, software and hardware configurations, a bill of materials, and planned equipment layouts.

## **1.2 Scope**

This plan contains the information from a site survey conducted in April, 1995. The plan describes the activities for the installation of the Ir-1 materials only. It does not address the total DAAC requirements that have been presented in the ECS Facilities Plan for the ECS Project dated June 1994. That document provided the requirements for space, power, air conditioning and the necessary working environments for equipment and people for the total project years. A white paper update to that plan was published on May 15, 1995 called Facilities Plan for Ir-1 and Release A for the ECS Project. The latest requirements for the Ir-1 equipment and people were presented to the DAACs at the end of the site surveys in April 1995.

## **1.3 References**

423-41-01	ECS Statement of Work, February 16, 1993
193-003-C04-001	ECS Government Furnished Property, September 1993
193-501-PA1-001	Performance Assurance Implementation Plan for the ECS Project
194-302-DV2-001	ECS Facilities Plan for the ECS Project
194-602-OP1-001	Property Management Plan for the ECS Project, July 1994
440-TP-007-001	Production Platform Families for the ECS Project, May 1995
800-WP-001-001	Facilities Plan for IR-1 and Release A for the ECS Project, March 1995

## **1.4 Organization**

This paper is organized as follows:

Section 1 provides the purpose, scope, references, organization, and review /approval.

Section 2 provides the Ir-1 design.

Section 3 provides the schedule.

Section 4 provides the installation activities.

The appendices contain site unique information. There is a separate appendix for each site. Each has the DAAC Location, Equipment Configurations, Equipment Specifications, Installation Support Requirements, Floor Plans, LAN Connectivity, and a Bill of Materials.

## **1.5 Review and Approval**

This Technical Paper is an informal document approved at the Office Manager level. It does not require formal Government review or approval; however, it is submitted with the intent that review and comments will be forthcoming. Questions regarding information contained within this paper should be addressed to Roger D. Nelson, ECS Facilities and Installations Planner, (301) 925-0708, rnelson@eos.hitc.com

Questions concerning distribution or control of this document should be addressed to:

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Landover, MD 20785

## **2. Ir-1 Design**

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The Ir-1 design provides for a single vendor solution for each processor category across all sites. Equipment selected are solid performers already being used by scientists at the DAACs and the ECS developers within the EDF. This equipment has the capability to be upgraded at Release A to provide increased processing power and/or throughput.

### **2.1 DAAC Configurations**

The Ir-1 HW and SW configurations to be installed at the sites are described in the following Appendices to this plan:

- GSFC -- Appendix A
- LaRC -- Appendix B
- MSFC -- Appendix C
- EDC -- Appendix D

#### **2.1.1 Science Processors**

The Silicon Graphics Power Challenge XL was selected as the science processor at all sites except MSFC, where an SGI Indy will be installed. All processors are configured with a CD-ROM and 8mm tape stacker. SGI PC XLs are multiprocessors and will have SCSI-attached RAID.

#### **2.1.2 Science SW Integration and Test (SSIT) Workstations**

Two Sun Sparc 20/50 workstations running Solaris 2.4 will support SSIT activities per site; one workstation with 64MB RAM and 2GB local disk; one DBMS server with 128MB RAM and 4GB local disk to ensure effective performance of Sybase and the scheduler SW, compilers (C, C++, F77, F90 and Ada) and the development environment (SparcWorks).

#### **2.1.3 Ingest Server**

The ingest server will be the SGI Indigo running Irix 5.3 with 6GB SCSI-attached disk, 8mm tape stacker, and internal CD ROM. It will be closely related to the data server solution to be implemented at Release A. EDC will not have an ingest server at Ir-1.

#### **2.1.4 Printers**

Two Hewlett Packard LaserJet 4M+ printers with 14MB RAM are provided for each site. This printer is rated at 12 pages per minute.

### **2.1.5 MSS Server**

The MSS server at each site will be the Sun Sparc 20/50 running Solaris 2.4. Its primary purpose is to provide software configuration management support at the site. At the EDF, the HP 755 server will be installed for shadow management of the V0 network. Using HP Open View, it will monitor each site and provide windows to view performance. At Release A, the Sun Sparc 20/50s will be replaced with an HP 755-class server to support management services. The MSS server installed at GSFC serves as the backup DCE cell to the EDF MSS Server.

### **2.1.6 CSS Server**

The CSS communications server, at the EDF only, will be an HP 755. Backup services will be provided by the GSFC MSS server.

### **2.1.7 Bulletin Board Server**

A Sun Sparc 20/50 server will be provided at the EDF to host prototyping efforts related to bulletin board services.

### **2.1.8 Ir-1 Network Connectivity**

Ir-1 configurations will rely exclusively on each DAAC's existing V0 LAN and WAN until Release A when an FDDI LAN will be installed. Ir-1 equipment will be installed on a 10BaseT segment attached to the DAAC's V0 hub, except for EDC where ECS will provide the hub. LAN connectivity diagrams for each site are shown in the site-specific appendices to this plan (i.e. paragraph 2 of the applicable appendix).

## **3. Installation Schedule**

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### **3.1 Ir-1 Installation Schedule**

Ir-1 installation activities will be accomplished at the Ir-1 sites according to the schedule shown in Figure 3.1-1.

### **3.2 Pre-Installation Survey**

Pre-installation surveys will be conducted on the dates indicated in Figure 3.1-1 to verify that the DAAC sites are prepared to receive the equipment and to effect final coordination prior to sending the equipment and team to accomplish the installation. Action items discussed in the April '95 site surveys and host facility preparations (listed in paragraph x4 of each appendix to this plan) should have been completed prior to the pre-installation surveys. Pre-installation surveys will be conducted by one person, who will coordinate with the site's ECS DAAC liaison prior to arrival.

### **3.3 Installation Hours**

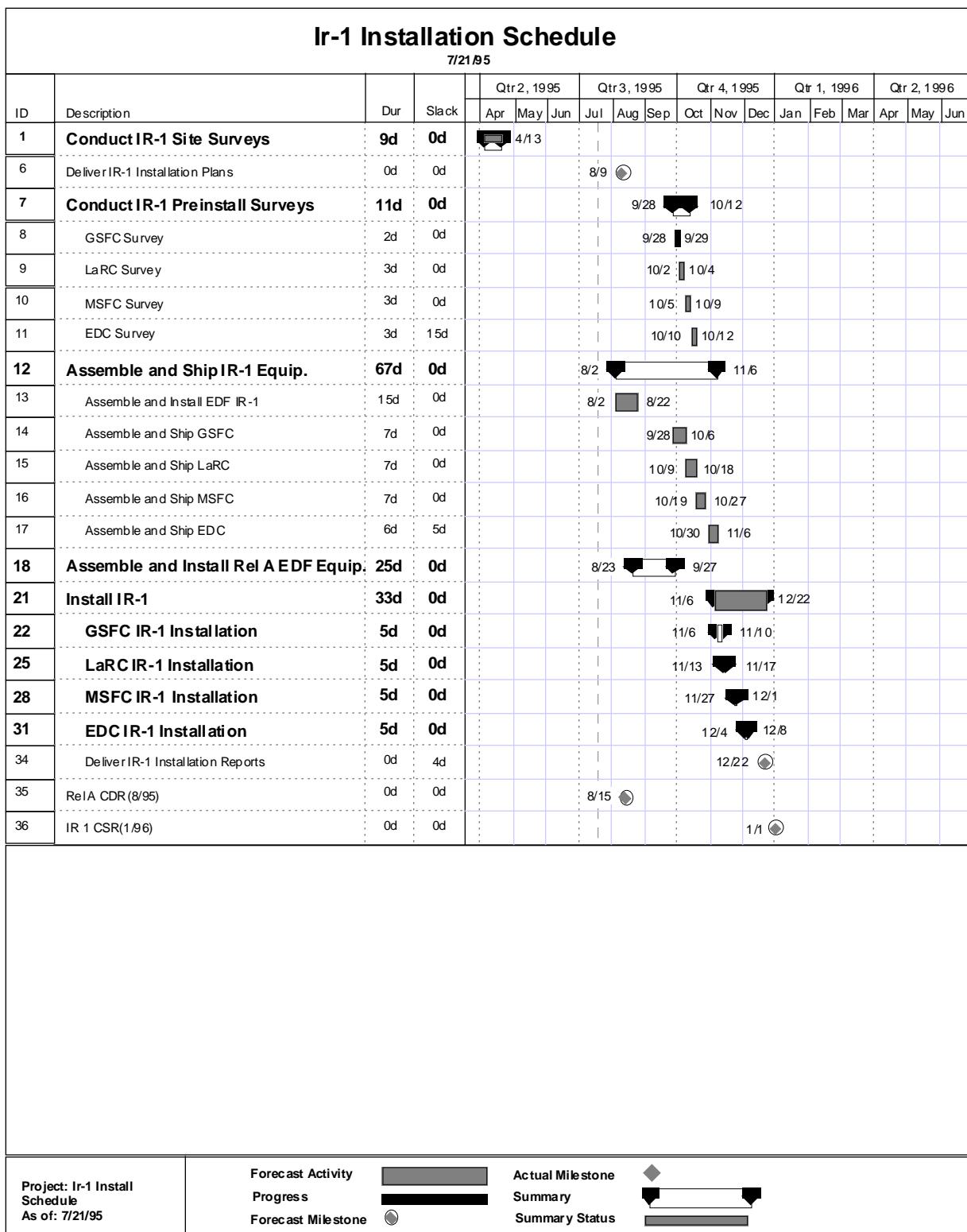
Ir-1 installations will be performed during the DAAC's normal working hours. Although not expected, if installation activities must extend beyond normal work hours, the team leader will coordinate with the ECS DAAC liaison for after-hours access to the facility.

The team leader will keep the ECS DAAC liaison informed of work to be performed and report progress at the end of each day. ECS DAAC liaisons should keep the DAAC manager informed, as appropriate. If the team leader expects the installation to fall behind schedule, he will inform the ECS DAAC liaison and the ECS ILS Manager.

### **3.4 Host Facility Preparation**

Preliminary facility requirements were presented in the ECS Facilities Plan, dated June 1994, and updated in the Facilities Plan White Paper for Ir-1 and Release A, dated March 1995. Detailed host facility requirements for the Ir-1 installation were addressed with the DAAC Managers during site surveys conducted in April 1995. Based upon the surveys and subsequent detailed installation planning, host facilities are requested to provide the following in support of the Ir-1 installation:

- Computer floor and office space for the Ir-1 equipment and personnel;
- Conditioned power, heating, and air conditioning;
- Storage for technical documentation, master copies of COTS SW, and consumables;
- V0 LAN connectivity. (Assistance is needed from V0 network engineer to support connectivity of Ir-1 equipment to the VO network);



**Figure 3.1-1. Ir-1 Installation Schedule**

- Materials handling equipment ;
- Physical security (reference Facilities Plan for Ir-1 and Release A White Paper, section 2.5.1, page 2-5).

Details regarding these support requirements are contained in the site-specific appendices to this plan.

### **3.5 Consumables**

Ir-1 equipment will be delivered with sufficient consumables (i.e. supplies) to support the equipment for approximately 90 days. These consumables include printer toner cartridges, 8mm storage tapes, and 8mm head cleaner tapes. DAACs should prepare to provide the initial printer paper to sustain operations for the initial 90days and all consumables after that initial period.

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## **4. Installation Activities**

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### **4.1 Installation Team Composition**

The Ir-1 installation team will be comprised of the following personnel:

- Team Leader - Bob Byrnes
- Communications Engineer - Billy Maurer
- Installation Engineers - Craig Johnson and Ron Parham
- Silicon Graphics Installation Personnel (qty and names to be determined)

### **4.2 Installation Team Responsibilities**

Following are ECS installation team member functions:

- Team Leader --Manages and coordinates installation activities and resources to ensure successful completion of the installation on schedule. The team leader will keep the DAAC management informed (through the ECS DAAC liaison) of the installation progress.
- Communications Engineer--Installs the LAN cables and provides connectivity of Ir-1 equipment to the V0 LAN. This includes labeling, installing, and testing the cables and coordinating connection to the V0 LAN. The communication engineer works with the V0 Network administrator to ensure device names are in the domain name server and that all the IP addresses are active. At the completion of the installation he will verify connectivity to the EDF and coordinate activation of the DCE cells.
- Installation Engineers -- Responsible for the installation of computers, peripherals, system configuration, and unit and integration testing. They will install the devices in the locations specified in the floor plan developed by the ECS team and approved by the DAAC manager.
- Vendor Engineers -- Silicon Graphics technicians will install the SGI equipment and software under supervision of the ECS installation team leader. Names of vendor installation personnel will be furnished to the ECS DAAC liaison prior to the installation date. ECS DAAC liaisons should coordinate with local security personnel for team access to the site and/or facility.

### **4.3 Equipment Staging at the EDF**

Ir-1 HW and SW will be staged at the EDF prior to being shipped to the sites. Upon receipt at the EDF, equipment is inspected, inventoried, tagged, assembled into the approved design configuration, burned in, tested, and then reboxed to await shipment to the site. Any non-conforming or inoperable components are identified, replaced by the OEM, and verified operable

prior to shipment to the site. Most of the administration (i.e. establishment of property records, tagging, inventory) will have been completed prior to material being shipped to the site, thereby expediting the site installation process.

NASA property tags are applied to the major equipment items and model/serial numbers are recorded in an ECS database to provide configuration and property management personnel the means to monitor their status and location as Government property. SW licenses will be maintained at the EDF.

## **4.4 HW/SW Assembly and Test**

Ir-1 equipment and software are assembled at the EDF in conformance with the Performance Assurance Implementation Plan, dated Dec. 1994. Upon completion of receipt and inventory, the equipment is assembled, and configured according to the Ir-1 design specifications of the development organization. Following are procedures that will be followed:

### **4.4.1 System Set-up and Burn-in.**

Using the manufacturer's set-up procedures, the system name, date and time, and SW are entered. SW license codes, if needed, are obtained from the vendor. The system will remain powered up for 72 hours to identify any early failures of components.

### **4.4.2 Software and Peripherals**

All SW purchased for the equipment is loaded and configured based upon the configuration specifications provided by the development organization. Distributed Computing Environment (DCE) software will be installed on all Ir-1 systems. Only modules licensed for the equipment will be installed. Peripherals, including disk drives, CD-ROM, tape drives, RAID devices, and printers, are tested and verified to be properly configured and in working order.

### **4.4.3 Preparation for Shipment**

Equipment, software, and documentation are repackaged to await shipment to the site. Equipment will be shipped to arrive at the site just prior to or on the day of the installation team's arrival.

## **4.5 Shipment Notices**

Shipping notices will be sent to the ECS Contracting Officer, the ECS DAAC liaisons, and the DAAC managers 10 working days prior to the scheduled shipment date. Notices will identify number of boxes, weight, ship-to address, carrier name, and bill of lading number. Ir-1 equipment will be marked for delivery to the ECS DAAC liaison.

## **4.6 Site Receiving Inspection**

If equipment arrives at the site prior to arrival of the installation team, the ECS DAAC liaison should verify against the bill of lading that all containers were received; inspect the exterior of

the containers to determine if there is evidence of damage; and move the containers to an area that is secure and protected from the weather. The original shippers bill of lading should be retained for delivery to the installation team leader upon arrival. If the shipment is delivered while the installation team is present, the team will accomplish the receiving inspection.

## **4.7 HW/SW Installation**

The installation team will arrive at the DAAC facility at 8:30 AM on the scheduled installation date. Their initial activity will consist of an inbrief to and coordination of schedule with the ECS DAAC liaison and movement of Ir-1 material from its temporary storage to its planned installation location. It will then be unboxed, condition verified, and shipping materials removed.

### **4.7.1 LAN**

Local network cables will be the first thing to be installed. The facility's V0 network engineer should be available to brief the team on any specifics for connecting Ir-1 equipment to the V0 network equipment and to assist where needed. This activity should take approximately 4 hours.

### **4.7.2 Installation of SGI Processors**

The SGI science processors will be installed by SGI factory trained technicians, currently planned to start on the second day. Their activity at the site will be coordinated and supervised by ECS installation team leader.

### **4.7.3 Unit and Integration Testing**

Equipment and SW will be installed, configured, and tested for proper operation and integration with the network and associated peripherals.

### **4.7.4 Network Test to Landover, MD. (EDF)**

When the installation is finished, connectivity through the VO LAN to the EDF in Upper Marlboro, MD will be verified. The EDF network engineer will activate the DCE cells to the Ir-1 equipment.

## **4.8 Configuration Verification**

After unit and integration testing is complete, the installed configurations and documentation will be jointly inventoried by the installation team leader and the ECS DAAC liaison. The ECS DAAC liaison will sign for the configurations to acknowledge that all has been delivered and verified as operational. At that time the ECS DAAC liaison becomes the property administrator is accountable for the Ir-1 HW and SW and will follow procedures contained in the ECS Property Management Plan. Inventories must include a visual inspection of all material being signed for by the ECS liaison.

## **4.9 Clean Up**

The installation team will remove waste material from the installation site daily. Since there will be shipping containers and packing materials to dispose of, DAACs should provide means for its disposal.

## **4.10 Team Departure**

The installation team will depart the site once unit and integration tests have concluded that the equipment is operational, properly configured, and the ECS DAAC liaison has signed off for the equipment, SW, and documentation. If completed ahead of schedule, the team will depart the site on the first available flight out.

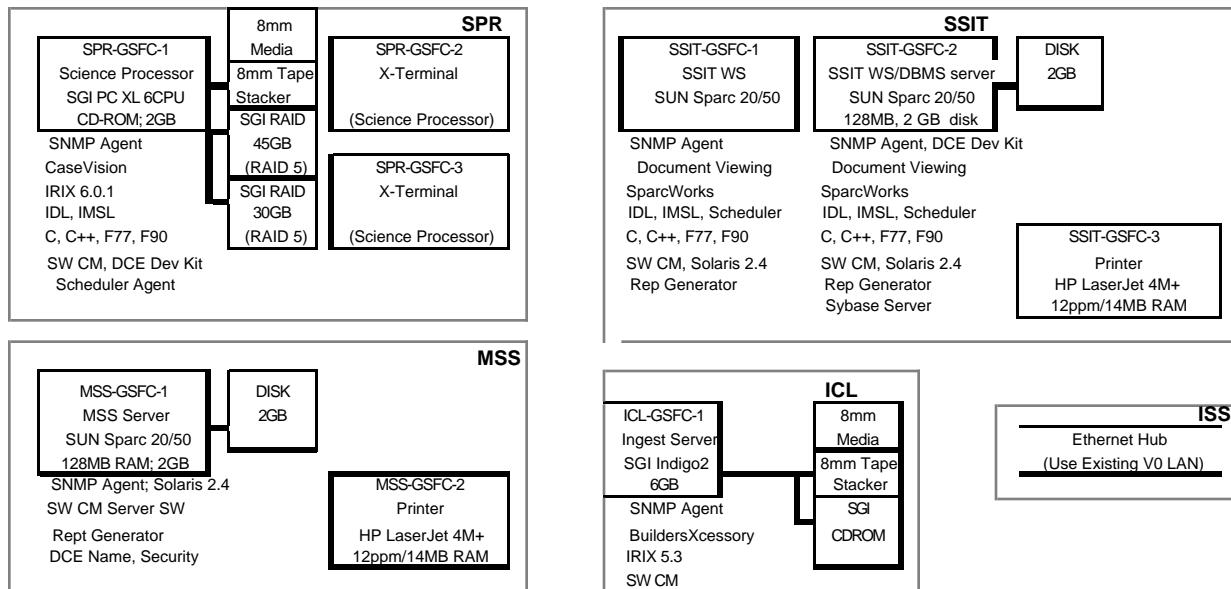
# Appendix A. GSFC Installation

## A.1 Installation Location

Equipment will be shipped to and installed at Goddard Space Flight Center, Building 32, Soil Conservation Road, Greenbelt, MD 20771. Equipment will be delivered to the loading dock at the rear of Building 32 and marked for ECS, Attn.: Carolyn Whitaker, Tel (301)286-3997. Vendors delivering material to the GSFC DAAC will be advised that delivery drivers must report to Building 16 on Soil Conservation Road to obtain a truck pass before they will be admitted to the grounds of Building 32. Delivery is currently planned between 7:30 AM and 3:30 PM Friday, 3 November. Special arrangements will be made with GSFC security if weekend delivery is required.

## A.2 GSFC Equipment Configurations

Figure A.2-1 identifies the Ir-1 hardware and software to be installed at the GSFC DAAC. The drawing summarizes the hardware and software configuration for each subsystem.



**Figure A.2-1. GSFC Ir-1 Configuration**

## A.3 Equipment Specifications

Table A.3-1 identifies the power, space, and BTU specifications for Ir-1 equipment.

**Table A.3-1. Ir-1 GSFC Equipment Specifications**

	Equipment Description	Qty	Vendor	Model	KVA	BTU (000)	Width (In)	Dept h (In)	Height (In)	Sq. Ft.	Weight (Lbs)	Volts	Amps	Phase	Type Receptacle
<i>Science Processing</i>															
	Science Processor w/6CPU	1	SGI	Pwr. Challenge XL	4.2	14.6	27.0	48.0	62.3	9.0	400.0	208	20	1	NEMA L6-30R
	RAID Storage (75GB) See NOTE*	2	SGI	Challenge RAID	0.9	3.0	14.0	30.0	24.8	2.9	176.0	120	8	1	NEMA 5-15R
	Tape Stacker (8mm)	1	EXABYTE	EXB-210TW/8505S	0.2	0.8	10.0	22.0	22.0	1.5	78.5	120	2	1	NEMA 5-20R
	X-Terminal	2	NCD	HMX20	0.2	0.7	20.0	20.0	21.0	2.8	80.9	115	2	1	NEMA 5-15R
<i>Alg. Integ. &amp; Test</i>															
	Workstation	2	SUN	Sparc 20/50	0.9	3.0	19.0	20.0	22.0	2.6	107.3	115	7.3	1	NEMA 5-15R
	Disk Storage (2GB)	1	SUN	Desktop	0.1	0.3	9.5	10.5	3.0	0.7	4.0	115	0.8	1	NEMA 5-15R
	Printer (12ppm)	1	HP	Laserjet 4M+	1.1	3.8	17.0	16.0	12.0	1.9	37.0	115	9.4	1	NEMA 5-15R
<i>Ingest</i>															
	Server	1	SGI	Indigo 2	0.3	1.0	19.0	20.0	24.0	2.8	111.6	120	2.4	1	NEMA 5-20R
	CDROM	1	SGI	P-CDR-4A	0.04	0.1	7.5	12.0	3.0	0.6	4.0	120	0.3	1	NEMA 5-20R
	Tape Stacker (8mm)	1	EXABYTE	EXB-210TW/8505S	0.2	0.8	10.0	22.0	22.0	1.5	78.5	120	2	1	NEMA 5-20R
<i>Mgt. Subsystem</i>															
	MSS Server	1	SUN	Sparc 20/50	0.9	3.0	19.0	20.0	22.0	2.6	107.3	115	7.3	1	NEMA 5-15R
	Disk Storage (2GB)	1	SUN	Desktop	0.1	0.3	9.5	10.5	3.0	0.7	4.0	115	0.8	1	NEMA 5-15R
	Printer (12ppm)	1	HP	Laserjet 4M+	1.1	3.8	17.0	16.0	12.0	1.9	37.0	115	9.4	1	NEMA 5-15R
NOTE = 75GB requires two cabinets															

## A.4 Installation Support Requirements

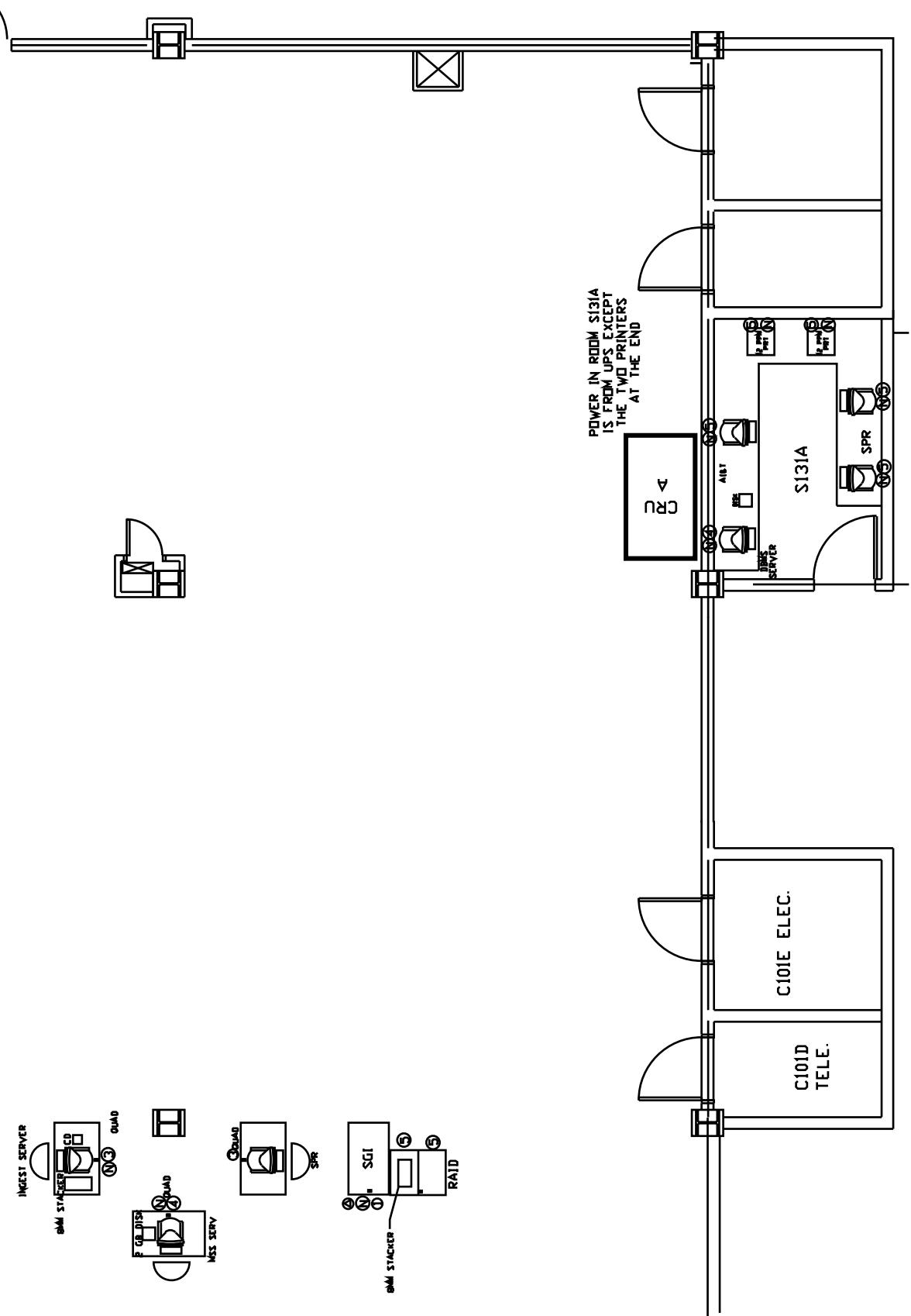
Table A.4-1 identifies the support required from the host site to accomplish the GSFC Ir-1 installation.

**Table A.4-1. GSFC Installation Support Requirements**

Qty	Description	Code*	Date Req'd
<b>Items required for rooms C101 and S131A</b>			
5	4" cutouts in floor tiles	#	Sept. 25,1995
9	Network Nodes	N	Sept. 25,1995
1	NEMA L6-30R Receptacle	1	Sept. 25,1995
2	NEMA 5-20R Quad. Receptacles	3	Sept. 25,1995
2	NEMA 5-15R Quad. Receptacles	4	Sept. 25,1995
7	NEMA 5-15R Duplex. Receptacles	5	Sept. 25,1995
3	Computer Table 48" x 30"	NA	Sept. 25,1995
3	Swivel Office Chair	NA	Sept. 25,1995
4	Bookcase 3'W x 6'H 10"D (for technical documentation)	NA	Sept. 25,1995
2	Storage Cabinet (5 shelf) (for consumables/SW)	NA	Sept. 25,1995
<b>Part No.**</b>			
2	72" L X 36" W Work Bench	778342	Oct. 15, 1995
2	72" Bench Riser	254754C	Oct. 15, 1995
2	Work Bench Power Center	778442	Oct. 15, 1995
1	24"WX36"L Service Cart	498531	Oct. 15, 1995
1	52"HX10X3.50 Hand Truck	277030	Oct. 15, 1995
1	30" Nose Extension	277029	Oct. 15, 1995
* Notes:			
* Codes correspond to codes on the floor plan at Figure A.5-1.			
** Equipment listed in the Global Industrial Equip. Corp. catalog. Tel (800)645-1232			

## **A.5 Floor Plan for GSFC**

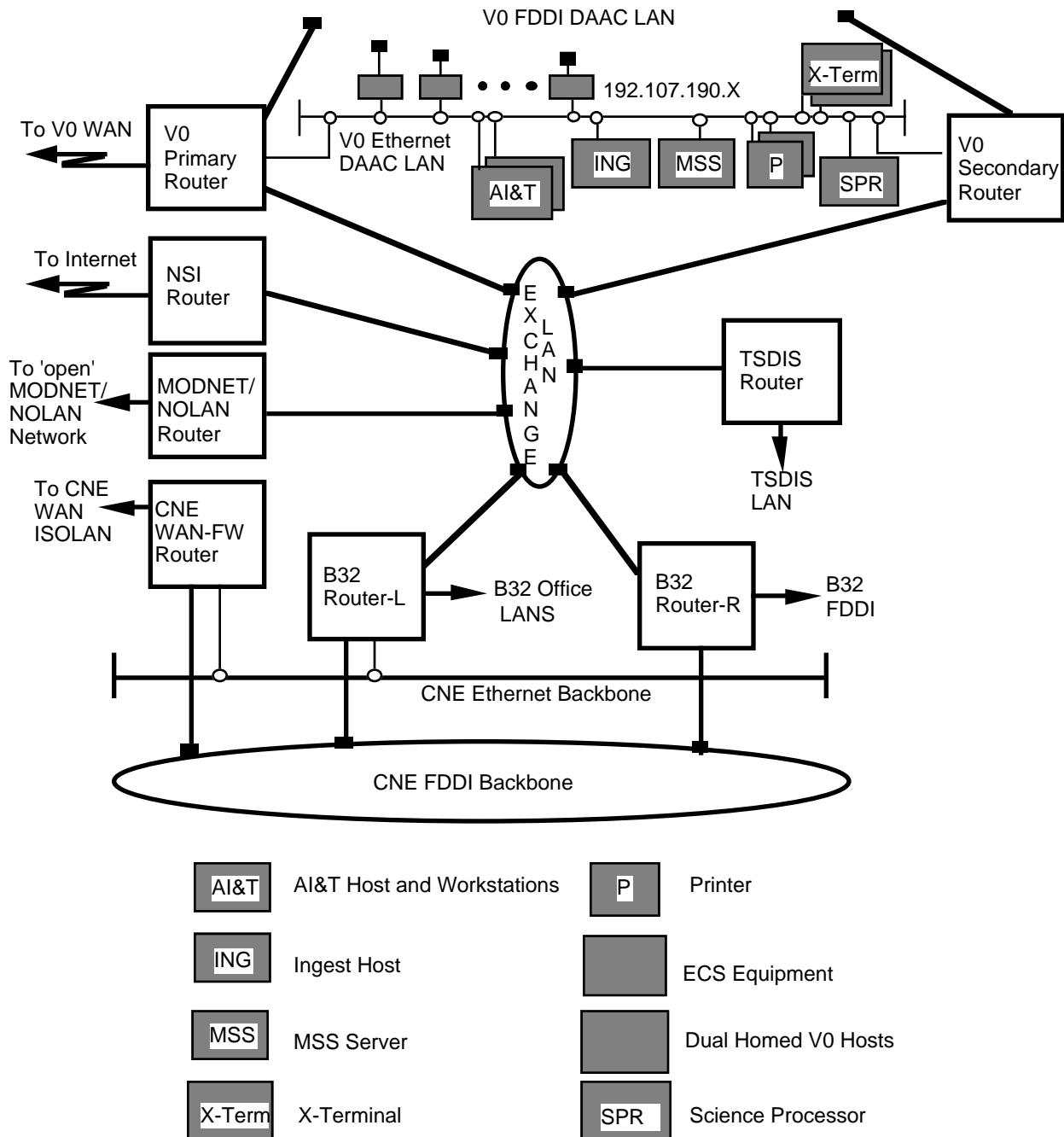
Figure A.5-1 depicts the planned placement of Ir-1 equipment in the GSFC facility and identifies the locations at which floor tile cutouts and power receptacles must be placed.



**Figure A.5-1.** GSFC Ir-1 Computer Floor Plan

## A.6 LAN Connectivity

Figure A.6-1 identifies the planned Ir-1 equipment connectivity with the DAAC's V0 LAN.



**Figure A6-1 GSFC Ir-1 Network Configuration**

## A.7 GSFC Bill of Materials

Table A.7-1 contains the detailed bill of materials for equipment and software to be installed. It will be used to configure the subsystems and to verify that all HW and SW has been installed and correctly configured.

**Table A.7-1. Bill of Materials (1 of 5)**

Config ID	Type	Description	Qty	Vendor	Host
SSIT-GSFC-1	C	Sparc20/50 Workstation (1CPU)	1	SUN	SUN
SSIT-GSFC-1	CH	1.05GB internal SCSI disk	1	SUN	SUN
SSIT-GSFC-1	CH	20" Color Monitor	1	SUN	SUN
SSIT-GSFC-1	CH	32MB memory	1	SUN	SUN
SSIT-GSFC-1	CH	SX-24bit Graphics	1	SUN	SUN
SSIT-GSFC-1	CS	Solaris 2.x user Environment	1	SUN	SUN
SSIT-GSFC-1	H	1.05GB SCSI Expansion Disk	1	SUN	SUN
SSIT-GSFC-1	H	32MB mem expansion(32MB SIMM)	1	SUN	SUN
SSIT-GSFC-1	H	SunCD 2Plus Internal CD-ROM drive	1	SUN	SUN
SSIT-GSFC-1	H	Type 5 Country Kit	1	SUN	SUN
SSIT-GSFC-1	M	Silver Support	1	SUN	SUN
SSIT-GSFC-1	M	Sol 2.x Hardcopy Doco(Full Doc set)	1	SUN	SUN
SSIT-GSFC-1	M	Sol 2.x media for New Systems only	1	SUN	SUN
SSIT-GSFC-1	S	C products (Ver 3.0.1)	1	SUN	SUN
SSIT-GSFC-1	S	C++ Products (Ver 4.0.1)	1	SUN	SUN
SSIT-GSFC-1	S	Development Products A La Carte	1	SUN	SUN
SSIT-GSFC-1	S	FORTRAN 77 Products (Ver 3.0.1)	1	SUN	SUN
SSIT-GSFC-1	S	SNMP Agent	1	SUN	SUN
SSIT-GSFC-1	SC	SoftWindows	1	Insignia	SUN
SSIT-GSFC-1	SC	MS Office	1	M Soft	SUN
SSIT-GSFC-1	SC	FORTRAN 90	1	NAG	SUN
SSIT-GSFC-1	SC	IDL	1	RSI	SUN
SSIT-GSFC-1	SC	Sybase Client (OpenClient)	1	Sybase	SUN
SSIT-GSFC-1	SC	DCE Client	1	TransArc	SUN
SSIT-GSFC-1	SC	DCE Development kit	1	TransArc	SUN
SSIT-GSFC-1	SC	IMSL	1	VisualNm	SUN
SSIT-GSFC-1	SF	Document Viewing	1	Freeware	SUN
SSIT-GSFC-1	SU	Configuration Management S/W client	1	Atria	SUN
SSIT-GSFC-1	SU	Scheduler Agent	1	AutoSys	SUN
<b>SSIT-GSFC-2</b>	<b>C</b>	<b>Sparc20/50 Workstation (1CPU)</b>	<b>1</b>	<b>SUN</b>	<b>SUN</b>
SSIT-GSFC-2	CH	1.05GB internal SCSI disk	1	SUN	SUN
SSIT-GSFC-2	CH	20" Color Monitor	1	SUN	SUN

**Table A.7-1. Bill of Materials (2 of 5)**

Config ID	Type	Description	Qty	Vendor	Host
SSIT-GSFC-2	CH	32MB memory	1	SUN	SUN
SSIT-GSFC-2	CH	SX-24bit Graphics	1	SUN	SUN
SSIT-GSFC-2	CS	Solaris 2.x user Environment	1	SUN	SUN
SSIT-GSFC-2	H	1.05GB SCSI Expansion Disk	1	SUN	SUN
SSIT-GSFC-2	H	2.1GB Desktop Disk	1	SUN	SUN
SSIT-GSFC-2	H	32MB mem expansion(32MB SIMM)	3	SUN	SUN
SSIT-GSFC-2	H	SunCD 2Plus Internal CD-ROM drive	1	SUN	SUN
SSIT-GSFC-2	H	Type 5 Country Kit	1	SUN	SUN
SSIT-GSFC-2	M	Silver Support	1	SUN	SUN
SSIT-GSFC-2	M	Sol 2.x media for New Systems only	1	SUN	SUN
SSIT-GSFC-2	S	C products (Ver 3.0.1)	1	SUN	SUN
SSIT-GSFC-2	S	C++ Products (Ver 4.0.1)	1	SUN	SUN
SSIT-GSFC-2	S	Development Products A La Carte	1	SUN	SUN
SSIT-GSFC-2	S	FORTRAN 77 Products (Ver 3.0.1)	1	SUN	SUN
SSIT-GSFC-2	S	SNMP Agent	1	SUN	SUN
SSIT-GSFC-2	SC	SoftWindows	1	Insignia	SUN
SSIT-GSFC-2	SC	MS Office	1	M Soft	SUN
SSIT-GSFC-2	SC	FORTRAN 90	1	NAG	SUN
SSIT-GSFC-2	SC	IDL	1	RSI	SUN
SSIT-GSFC-2	SC	Sybase Client (OpenClient)	1	Sybase	SUN
SSIT-GSFC-2	SC	Sybase Server (OpenSQL Server)	1	Sybase	SUN
SSIT-GSFC-2	SC	DCE Client	1	TransArc	SUN
SSIT-GSFC-2	SC	IMSL	1	VisualNm	SUN
SSIT-GSFC-2	SF	Document Viewing	1	Freeware	SUN
SSIT-GSFC-2	SU	Configuration Management S/W client	1	Atria	SUN
SSIT-GSFC-2	SU	Scheduler Agent	1	AutoSys	SUN
SSIT-GSFC-3	P	HP 8MB Memory Expansion	1	Mcbride	NA
<b>SSIT-GSFC-3</b>	<b>P</b>	<b>HP LaserJet 4M+ PS LUL2 6GB</b>	<b>1</b>	<b>Mcbride</b>	<b>NA</b>
ICL-GSFC-1	C	Indigo2 XZ graphics, 128MB mem, 2GB sysdisk, 20" monitor	1	SGI	SGI
ICL-GSFC-1	CH	External 4x CD ROM SCSI drive	1	SGI	SGI
ICL-GSFC-1	CH	Internal 3.5" 4.3GB fast SCSI-2 disk	1	SGI	SGI
ICL-GSFC-1	CH	Internal 5.25" 2GB Fast SCSI-2 disk	1	SGI	SGI
ICL-GSFC-1	CM	CD-ROM update media option - For Spt only	1	SGI	SGI
ICL-GSFC-1	CM	IRIX admin, IRIX Admin man pages, NetLS admin, NFS/NIS admin, diskless (6.X)	1	SGI	SGI

**Table A.7-1. Bill of Materials (3 of 5)**

Config ID	Type	Description	Qty	Vendor	Host
ICL-GSFC-1	CM	Support price for S/W options for systems w/ IDO Full/basic/IRIX is required	1	SGI	SGI
ICL-GSFC-1	H	Exabyte 210T Stacker w/ 8508 drive	1	Mcbride	SGI
ICL-GSFC-1	H	SCSI Cable ( ) M	1	Mcbride	SGI
ICL-GSFC-1	H	SCSI Terminator	1	Mcbride	SGI
ICL-GSFC-1	H	Data Cart Data Grade BX 5	1	Mcbride	SGI
ICL-GSFC-1	H	20" color monitor	1	SGI	SGI
ICL-GSFC-1	HC	8mm Tape media	100	IBS	SGI
ICL-GSFC-1	S	DCE for Irix Executive Ver 1.0 w/ Doco	1	SGI	SGI
ICL-GSFC-1	S	ONC2/NFS for IRIX 5.3	1	SGI	SGI
ICL-GSFC-1	S	SNMP Agent	1	SGI	SGI
ICL-GSFC-1	SC	Builders Xcessory	1	Mcbride	SGI
ICL-GSFC-1	SU	Configuration Management S/W client	1	Atria	SGI
<b>MSS-GSFC-1</b>	<b>C</b>	<b>Sparc20/50 Workstation (1CPU)</b>	<b>1</b>	<b>SUN</b>	<b>SUN</b>
MSS-GSFC-1	CH	1.05GB internal SCSI disk	1	SUN	SUN
MSS-GSFC-1	CH	20" Color Monitor	1	SUN	SUN
MSS-GSFC-1	CH	32MB memory	1	SUN	SUN
MSS-GSFC-1	CH	SX-24bit Graphics	1	SUN	SUN
MSS-GSFC-1	CS	Solaris 2.x user Environment	1	SUN	SUN
MSS-GSFC-1	H	1.05GB SCSI Expansion Disk	1	SUN	SUN
MSS-GSFC-1	H	2.1GB Desktop Disk	1	SUN	SUN
MSS-GSFC-1	H	32MB mem expansion(32MB SIMM)	3	SUN	SUN
MSS-GSFC-1	H	SunCD 2Plus Internal CD-ROM drive	1	SUN	SUN
MSS-GSFC-1	H	Type 5 Country Kit	1	SUN	SUN
MSS-GSFC-1	M	Silver Support	1	SUN	SUN
MSS-GSFC-1	M	Sol 2.x media for New Systems only	1	SUN	SUN
MSS-GSFC-1	S	SNMP Agent	1	SUN	SUN
MSS-GSFC-1	SC	SoftWindows	1	Insignia	SUN
MSS-GSFC-1	SC	MS Office	1	M Soft	SUN
MSS-GSFC-1	SC	DCE CDS server	1	TransArc	SUN
MSS-GSFC-1	SC	DCE Client	1	TransArc	SUN
MSS-GSFC-1	SC	DCE Security server	1	TransArc	SUN
MSS-GSFC-1	SM	DCE Media Maunal Kit for Solaris 2.3	1	TransArc	SUN
MSS-GSFC-1	SU	Configuration Management S/W Server	1	Atria	SUN
MSS-GSFC-2	P	HP 8MB Memory Expansion	1	Mcbride	NA
<b>MSS-GSFC-2</b>	<b>P</b>	<b>HP LaserJet 4M+ PS LUL2 6GB</b>	<b>1</b>	<b>Mcbride</b>	<b>NA</b>

**Table A.7-1. Bill of Materials (4 of 5)**

Config ID	Type	Description	Qty	Vendor	Host
SPR-GSFC-1	C	Power Challenge XL rack Server 4x75 CPUs, 64MB 1 IMB, 2GB disk	1	SGI	SGI
SPR-GSFC-1	H	10baseT transceiver	1	Branch	SGI
SPR-GSFC-1	H	First 2GB Super Density 4 way, 2 IMB for chal	1	SGI	SGI
SPR-GSFC-1	H	Additional 2x75MH R800 CPU bd	1	SGI	SGI
SPR-GSFC-1	H	RAID5 enclosure w/1 controller 2 power supplies, 5x4.3GB drives	2	SGI	SGI
SPR-GSFC-1	H	5 - 4.3GB drives for install in RAID5 Cabinet only	3	SGI	SGI
SPR-GSFC-1	H	SCSI-2 diff. mezzanine card for challenge	1	SGI	SGI
SPR-GSFC-1	H	Upgrade 2GB to 4.3GB F/W system disk	1	SGI	SGI
SPR-GSFC-1	H	680MB Quad speed CD-ROM for challenge	1	SGI	SGI
SPR-GSFC-1	H	110 VAC Prog Terminal for challenge systems	1	SGI	SGI
SPR-GSFC-1	HC	8mm Tape media	100	IBS	SGI
SPR-GSFC-1	HC	SCSI Cable ( ) M	1	Mcbride	SGI
SPR-GSFC-1	HC	SCSI Terminator	1	Mcbride	SGI
SPR-GSFC-1	HC	Data Cart Data Grade BX 5	1	Mcbride	SGI
SPR-GSFC-1	HC	Exabyte 210T Stacker w/ 8508 drive	1	Mcbride	SGI
SPR-GSFC-1	M	Installation for all challenge systems	1	SGI	SGI
SPR-GSFC-1	M	IRIS Dev Manual-IRIS 6.0.1(hard copy of online doco shipped w/ IDO 6.0.1)	1	SGI	SGI
SPR-GSFC-1	M	IRIX admin, IRIX Admin man pages, NetLS admin, NFS/NIS admin, diskless (6.X)	1	SGI	SGI
SPR-GSFC-1	M	Motif Dev Manuals	1	SGI	SGI
SPR-GSFC-1	M	ANSI C Programming Manuals(6.X)	1	SGI	SGI
SPR-GSFC-1	M	MIPSpro Power FORTRAN Manuals (6.X)	1	SGI	SGI
SPR-GSFC-1	M	C++ Translator Manuals (6.X)	1	SGI	SGI
SPR-GSFC-1	M	MIPSpro F77 Manuals (6.X)	1	SGI	SGI
SPR-GSFC-1	M	IRIS Power C Manual (6.X)	1	SGI	SGI
SPR-GSFC-1	M	ProDev/Workshop Manuals (5.x,6.x)	1	SGI	SGI
SPR-GSFC-1	M	IRIX Device Driver Prog Guide & Ref pages (5.3, 6.x)	1	SGI	SGI
SPR-GSFC-1	M	Postscript Manuals (5.2, 6.0.1)	1	SGI	SGI
SPR-GSFC-1	M	IRIX Progamming Manuals (6.x)	1	SGI	SGI
SPR-GSFC-1	M	Desktop Intergration Guide (6.x)	1	SGI	SGI
SPR-GSFC-1	M	IRIS Software Installation Guide (6.x)	1	SGI	SGI
SPR-GSFC-1	M	CD-ROM update media option - For Support only	1	SGI	SGI
SPR-GSFC-1	M	Destination Kit for XL series 220VAC/1P	1	SGI	SGI

**Table A.7-1. Bill of Materials (5 of 5)**

Config ID	Type	Description	Qty	Vendor	Host
SPR-GSFC-1	M	Support price for S/W options for systems w/ IDO Full/basic/IRIX is required	1	SGI	SGI
SPR-GSFC-1	M	IRIX 6.0.1 Operating system S/W and Manuals for Power Challenge servers	1	SGI	SGI
SPR-GSFC-1	S	ProDev/C Bundle for C Dev (5 RTU) of Workshop & IDO for IRIX 6.0.1, 1 set CDs, Mans	1	SGI	SGI
SPR-GSFC-1	S	MIPSpro Power FORTRAN 77 Analyzer for IRIX 6.0.1	1	SGI	SGI
SPR-GSFC-1	S	MIPSpro Power C Analyzer for IRIX 6.0.1	1	SGI	SGI
SPR-GSFC-1	S	ProDev/C Bundle for C Dev. WorkShop an IDO for IRIX 6.0.1	1	SGI	SGI
SPR-GSFC-1	S	MIPSpro FORTRAN 77 Compiler for IRIX 6.0.1	1	SGI	SGI
SPR-GSFC-1	S	DCE for Irix Executive version 1.0	1	SGI	SGI
SPR-GSFC-1	S	DCE Development Software Version 1.0	1	SGI	SGI
SPR-GSFC-1	S	FORTRAN 90 license	1	SGI	SGI
SPR-GSFC-1	S	SNMP Agent	1	SGI	SGI
SPR-GSFC-1	S	MIPSpro C++ Compiler for IRIX 6.0.1	1	SGI	SGI
SPR-GSFC-1	S	NFS software for IRIX 6.0.1	1	SGI	SGI
SPR-GSFC-1	SC	IDL	1	RSI	SGI
SPR-GSFC-1	SC	Sybase Client (OpenClient)	1	Sybase	SGI
SPR-GSFC-1	SC	IMSL	1	VisualNm	SGI
SPR-GSFC-1	SU	Configuration Management S/W client	1	Atria	SGI
SPR-GSFC-1	SU	Scheduler Agent	1	AutoSys	SGI
<b>SPR-GSFC-2</b>	<b>H</b>	<b>HMX Xterm w/20"clr, 8MB ram, UTP</b>	<b>1</b>	<b>Mcbride</b>	<b>NCD</b>
SPR-GSFC-2	H	NCDware Boot Software w/CD media	1	Mcbride	NCD
SPR-GSFC-2	H	Xterminal Software RTU	1	Mcbride	NCD
<b>SPR-GSFC-3</b>	<b>H</b>	<b>HMX Xterm w/20"clr, 8MB ram, UTP</b>	<b>1</b>	<b>Mcbride</b>	<b>NCD</b>
SPR-GSFC-3	H	Xterminal Software RTU	1	Mcbride	NCD

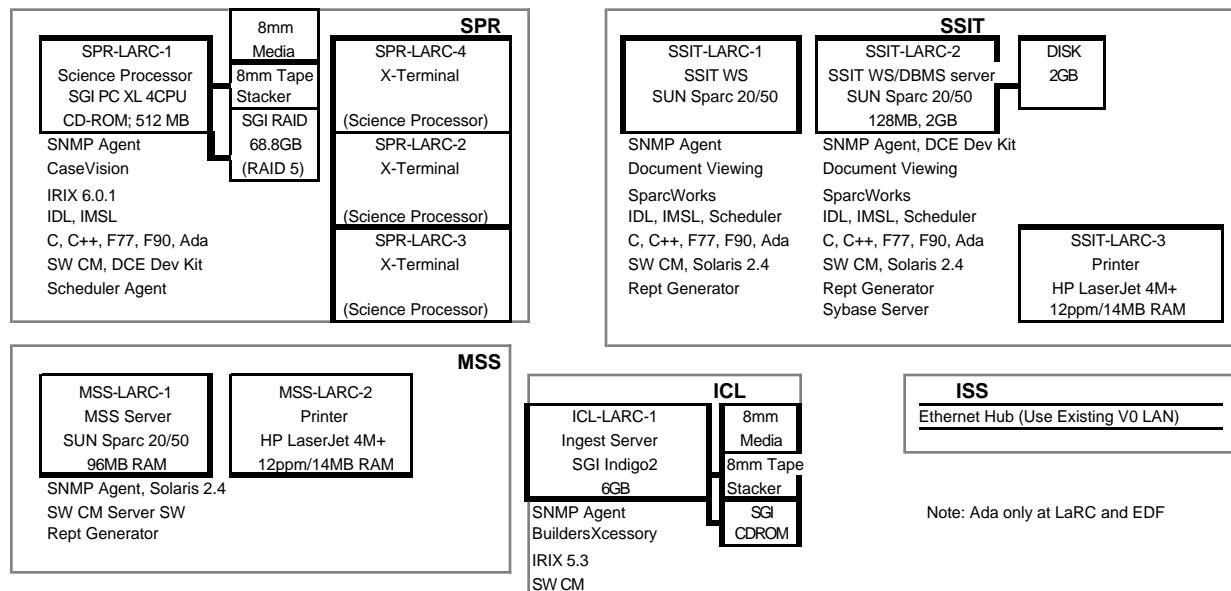
# Appendix B. LaRC Installation

## B.1 Installation Location

Equipment will be shipped to and installed at the following address: NASA/LaRC, Building 1268A 24 West Taylor Street, Hampton, VA. 23681. Equipment will be delivered to the loading dock on 24 West Taylor Street at the rear of Building 1268A and marked for ECS, Attn.: Dan Chrisman, Tel. (804)864-8889. Vendors delivering material direct to the LaRC DAAC will be advised that the drivers must report to main gate Security Office to obtain a truck pass before they will be admitted to the grounds of Langley Research Center. Delivery is currently planned between 8 AM and 11 AM Monday, 13 November. Special arrangements will be made with LaRC security if weekend delivery is required.

## B.2 LaRC Equipment Configurations

Figure B.2-1 identifies the Ir-1 hardware and software to be installed at the LaRC DAAC. The drawing summarizes the hardware and software configuration for each subsystem.



**Figure B.2-1. LaRC Ir-1 Configuration**

## B.3 Equipment Specifications

Table B.3-1 identifies the power, space, and BTU specifications for Ir-1 equipment.

**Table B.3-1. Ir-1 LaRC Equipment Specifications**

Equipment Description	Qty	Vendor	Model	KVA	BTU (000)	Width (In)	Depth (In)	Height (In)	Sq. Ft.	Wt (Lbs)	Volts	Amps	Phase	Type Receptacle
<i>Science Processing</i>														
Science Processor w/4CPU	1	SGI	Pwr. Challenge XL	4.2	14.6	27.0	48.0	62.3	9.0	400.0	208	20	1	NEMA L6-30R
RAID Storage (68.8GB)	1	SGI	Challenge RAID	0.9	3.0	14.0	30.0	24.8	2.9	176.0	120	8	1	NEMA 5-15R
Tape Stacker (8mm)	1	EXABYTE	EXB-210TW/8505S	0.2	0.8	10.0	22.0	22.0	1.5	78.5	120	2	1	NEMA 5-20R
X-Terminal	3	NCD	HMX20	0.2	0.7	20.0	20.0	21.0	2.8	80.9	115	2	1	NEMA 5-15R
<i>Alg. Integ. &amp; Test</i>														
Workstation	2	Sun	Sparc 20/50	0.9	3.0	19.0	20.0	22.0	2.6	107.3	115	7.3	1	NEMA 5-15R
Disk Storage (2GB)	1	SUN	Desktop	0.1	0.3	9.5	10.5	3.0	0.7	4.0	115	0.8	1	NEMA 5-15R
Printer (12ppm)	1	HP	Laserjet 4M+	1.1	3.8	17.0	16.0	12.0	1.9	37.0	115	9.4	1	NEMA 5-15R
<i>Ingest</i>														
Server	1	SGI	Indigo 2	0.3	1.0	19.0	20.0	24.0	2.8	111.6	120	2.4	1	NEMA 5-20R
CD-ROM	1	SGI	P-CDR-4A	0.04	0.1	7.5	12.0	3.0	0.6	4.0	120	0.3	1	NEMA 5-20R
Tape Stacker (8mm)	1	EXABYTE	EXB-210TW/8505S	0.2	0.8	10.0	22.0	22.0	1.5	78.5	120	2	1	NEMA 5-20R
<i>Mgt. Subsystem</i>														
MSS Server	1	Sun	Sparc 20/50	0.9	3.0	19.0	20.0	22.0	2.6	107.3	115	7.3	1	NEMA 5-15R
Printer (12ppm)	1	HP	Laserjet 4M+	1.1	3.8	17.0	16.0	12.0	1.9	37.0	115	9.4	1	NEMA 5-15R

## B.4 Installation Support Requirements

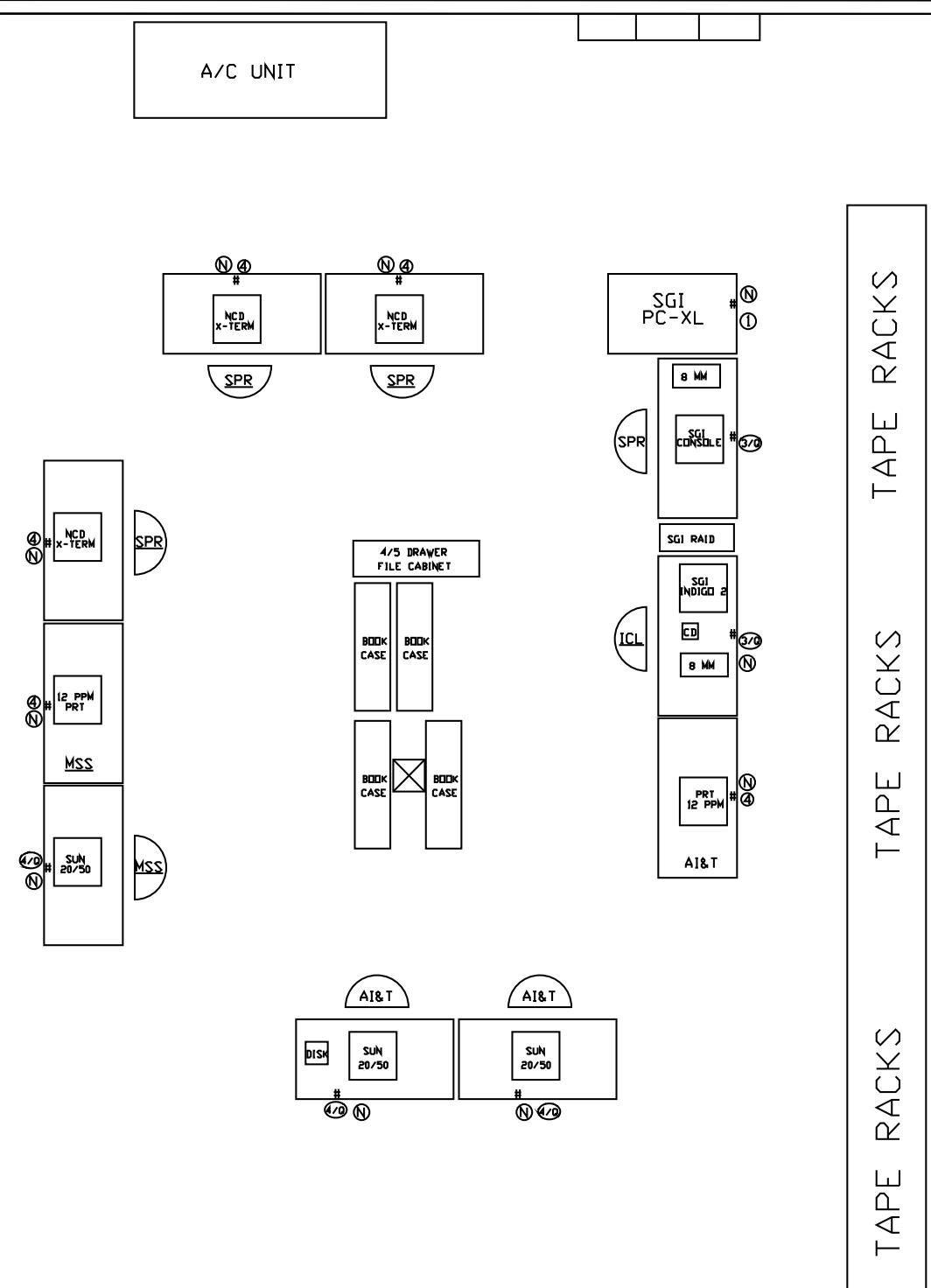
Table B.4-1 identifies the support required from the host site to accomplish the LaRC Ir-1 installation.

**Table B.4-1. LaRC Installation Support Requirements**

Qty	Description	Code*	Date Req'd
<b>Items required for computer room and offices in Bldg. 1268A</b>			
11	4" cutouts in floor tiles	#	Sept. 27,1995
10	Network Nodes	N	Sept. 27,1995
1	NEMA L6-30R Receptacle	1	Sept. 27,1995
2	NEMA 5-20R Quad. Receptacles	3/Q	Sept. 27,1995
3	NEMA 5-15R Quad. Receptacles	4/Q	Sept.27,1995
5	NEMA 5-15R Duplex. Receptacles	4	Sept. 27,1995
10	Computer Table 48" x 30"	NA	Oct. 16,1995
8	Swivel Office Chair	NA	Oct. 16,1995
4	Bookcase 3'W x 6'H 10"D (for technical documentation)	NA	Oct. 16,1995
2	Storage Cabinet (5 shelf) (for consumables/SW)	NA	Oct. 16,1995
1	Two-wheel Hand Truck	NA	Oct. 16, 1995
1	Pallet Jack	NA	Oct. 16, 1995
Notes:			
* Codes correspond to codes on the floor plan at Figure B.5-1.			

## B.5 Floor Plan for LaRC

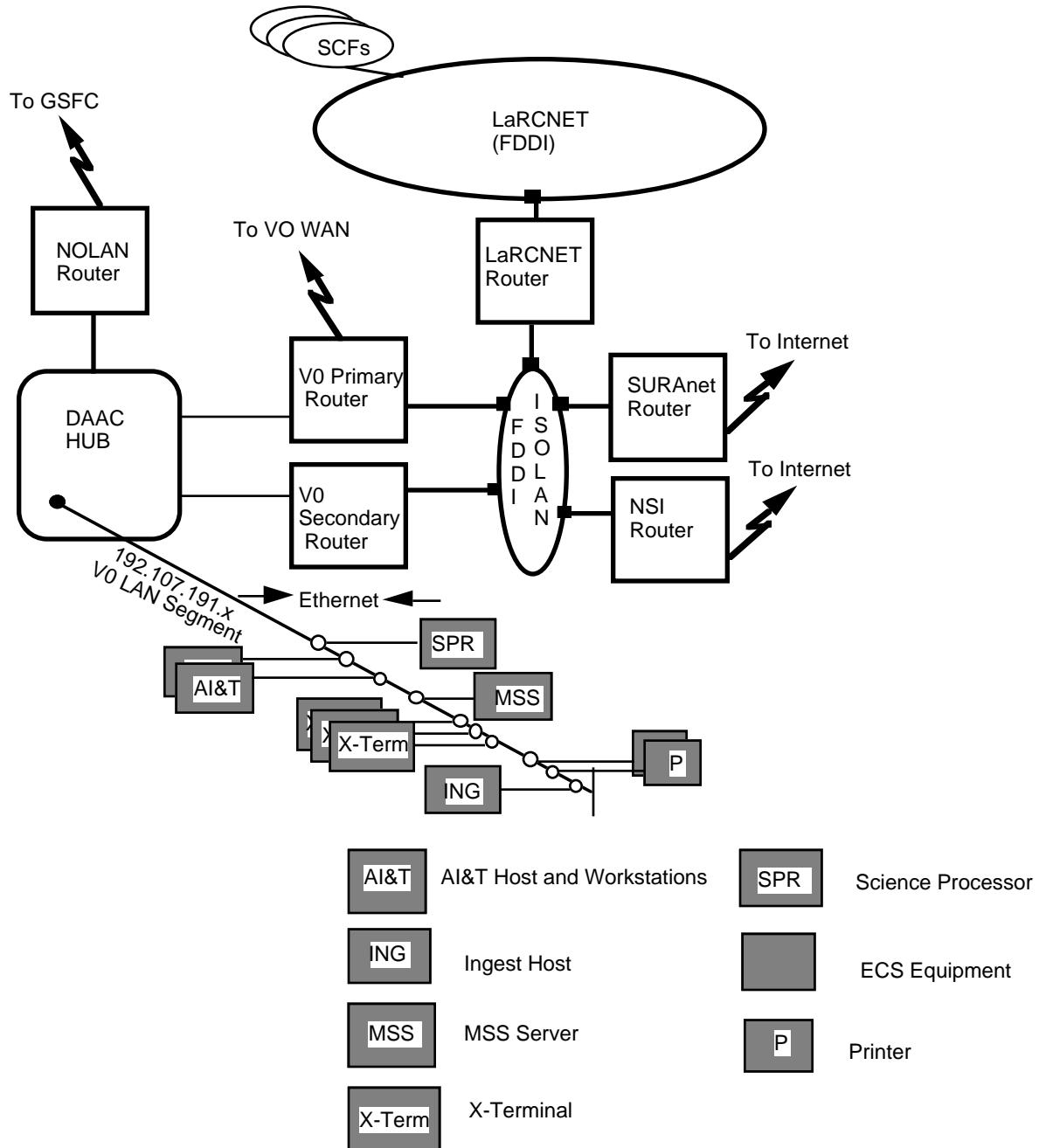
Figure B.5-1 depicts the planned placement of Ir-1 equipment in the LaRC facility and identifies the locations at which floor tile cutouts and power receptacles must be placed.



**Figure B.5-1. LaRC Ir-1 Computer Floor Plan**

## B.6 LAN Connectivity

Figure B.6-1 identifies the planned Ir-1 equipment connectivity with the DAAC's V0 LAN.



**Figure B.6-1. LaRC Ir-1 Network Configuration**

## B.7 LaRC Bill of Materials

Table B.7-1 contains the detailed bill of materials for equipment and software to be installed. It will be used to configure the subsystems and to verify that all HW and SW has been installed and correctly configured.

**Table B.7-1. Bill of Materials (1 of 5)**

Config ID	Type	Description	Qty	Vendor	Platform
<b>SSIT-LARC-1</b>	C	<b>Sparc20/50 Workstation (1CPU)</b>	1	<b>SUN</b>	<b>SUN</b>
SSIT-LARC-1	CH	1.05GB internal SCSI disk	1	SUN	SUN
SSIT-LARC-1	CH	20" Color Monitor	1	SUN	SUN
SSIT-LARC-1	CH	32MB memory	1	SUN	SUN
SSIT-LARC-1	CH	SX-24bit Graphics	1	SUN	SUN
SSIT-LARC-1	CS	Solaris 2.x user Environment	1	SUN	SUN
SSIT-LARC-1	H	1.05GB SCSI Expansion Disk	1	SUN	SUN
SSIT-LARC-1	H	32MB mem expansion(32MB SIMM)	1	SUN	SUN
SSIT-LARC-1	H	SunCD 2Plus Internal CD-ROM drive	1	SUN	SUN
SSIT-LARC-1	H	Type 5 Country Kit	1	SUN	SUN
SSIT-LARC-1	M	Silver Support	1	SUN	SUN
SSIT-LARC-1	M	Sol 2.x Hardcopy Doco(Full Doc set)	1	SUN	SUN
SSIT-LARC-1	M	Sol 2.x media for New Systems only	1	SUN	SUN
SSIT-LARC-1	S	Ada 2.1 Products (Ver 2.1.1)	1	SUN	SUN
SSIT-LARC-1	S	C products (Ver 3.0.1)	1	SUN	SUN
SSIT-LARC-1	S	C++ Products (Ver 4.0.1)	1	SUN	SUN
SSIT-LARC-1	S	Development Products A La Carte	1	SUN	SUN
SSIT-LARC-1	S	FORTRAN 77 Products (Ver 3.0.1)	1	SUN	SUN
SSIT-LARC-1	S	SNMP Agent	1	SUN	SUN
SSIT-LARC-1	SC	SoftWindows	1	Insignia	SUN
SSIT-LARC-1	SC	MS Office	1	M Soft	SUN
SSIT-LARC-1	SC	FORTRAN 90	1	NAG	SUN
SSIT-LARC-1	SC	IDL	1	RSI	SUN
SSIT-LARC-1	SC	Sybase Client (OpenClient)	1	Sybase	SUN
SSIT-LARC-1	SC	DCE Client	1	TransArc	SUN
SSIT-LARC-1	SC	DCE Development Kit	1	TransArc	SUN
SSIT-LARC-1	SC	IMSL	1	VisualNm	SUN
SSIT-LARC-1	SF	Document Viewing	1	Freeware	SUN
SSIT-LARC-1	SU	Configuration Management S/W client	1	Atria	SUN
SSIT-LARC-1	SU	Scheduler Agent	1	AutoSys	SUN
<b>SSIT-LARC-2</b>	C	<b>Sparc20/50 Workstation (1CPU)</b>	1	<b>SUN</b>	<b>SUN</b>
SSIT-LARC-2	CH	1.05GB internal SCSI disk	1	SUN	SUN
SSIT-LARC-2	CH	20" Color Monitor	1	SUN	SUN

**Table B.7-1. Bill of Materials (2 of 5)**

Config ID	Type	Description	Qty	Vendor	Platform
SSIT-LARC-2	CH	32MB memory	1	SUN	SUN
SSIT-LARC-2	CH	SX-24bit Graphics	1	SUN	SUN
SSIT-LARC-2	CS	Solaris 2.x user Environment	1	SUN	SUN
SSIT-LARC-2	H	1.05GB SCSI Expansion Disk	1	SUN	SUN
SSIT-LARC-2	H	2.1GB Desktop Disk	1	SUN	SUN
SSIT-LARC-2	H	32MB mem expansion(32MB SIMM)	3	SUN	SUN
SSIT-LARC-2	H	SunCD 2Plus Internal CD-ROM drive	1	SUN	SUN
SSIT-LARC-2	M	Silver Support	1	SUN	SUN
SSIT-LARC-2	M	Sol 2.x media for New Systems only	1	SUN	SUN
SSIT-LARC-2	S	Ada 2.1 Products (Ver 2.1.1)	1	SUN	SUN
SSIT-LARC-2	S	C products (Ver 3.0.1)	1	SUN	SUN
SSIT-LARC-2	S	C++ Products (Ver 4.0.1)	1	SUN	SUN
SSIT-LARC-2	S	Development Products A La Carte	1	SUN	SUN
SSIT-LARC-2	S	FORTRAN 77 Products (Ver 3.0.1)	1	SUN	SUN
SSIT-LARC-2	S	SNMP Agent	1	SUN	SUN
SSIT-LARC-2	S	Type 5 Country Kit	1	SUN	SUN
SSIT-LARC-2	SC	SoftWindows	1	Insignia	SUN
SSIT-LARC-2	SC	MS Office	1	M Soft	SUN
SSIT-LARC-2	SC	FORTRAN 90	1	NAG	SUN
SSIT-LARC-2	SC	IDL	1	RSI	SUN
SSIT-LARC-2	SC	Sybase Client (OpenClient)	1	Sybase	SUN
SSIT-LARC-2	SC	Sybase Server (OpenSQL Server)	1	Sybase	SUN
SSIT-LARC-2	SC	DCE Client	1	TransArc	SUN
SSIT-LARC-2	SC	IMSL	1	VisualNm	SUN
SSIT-LARC-2	SF	Document Viewing	1	Freeware	SUN
SSIT-LARC-2	SU	Configuration Management S/W client	1	Atria	SUN
SSIT-LARC-2	SU	Scheduler Agent	1	AutoSys	SUN
SSIT-LARC-3	P	HP 8MB Memory Expansion	1	Mcbride	ALL
<b>SSIT-LARC-3</b>	<b>P</b>	<b>HP LaserJet 4M+ PS LUL2 6GB</b>	<b>1</b>	<b>Mcbride</b>	<b>ALL</b>
ICL-LARC-1	C	Indigo2 XZ graphics, 128MB mem, 2GB sysdisk, 20" monitor	1	SGI	SGI
ICL-LARC-1	CH	External 4x CD ROM SCSI drive	1	SGI	SGI
ICL-LARC-1	CH	Internal 3.5" 4.3GB fast SCSI-2 option disk for Indigo2	1	SGI	SGI
ICL-LARC-1	CH	Internal 5.25" 2GB Fast SCSI-2 option disk for Indigo2	1	SGI	SGI
ICL-LARC-1	CM	CD-ROM update media option - For Support only	1	SGI	SGI
ICL-LARC-1	CM	IRIX admin, IRIX Admin man pages, NetLS admin, NFS/NIS admin, diskless (6.X)	1	SGI	SGI

**Table B.7-1. Bill of Materials (3 of 5)**

Config ID	Type	Description	Qty	Vendor	Platform
ICL-LARC-1	CM	Support price for S/W options for systems w/ IDO Full/basic/IRIX is required	1	SGI	SGI
ICL-LARC-1	H	Exabyte 210T Stacker w/ 8508 drive	1	Mcbride	SGI
ICL-LARC-1	H	SCSI Cable ( ) M	1	Mcbride	SGI
ICL-LARC-1	H	SCSI Terminator	1	Mcbride	SGI
ICL-LARC-1	H	Data Cart Data Grade BX 5	1	Mcbride	SGI
ICL-LARC-1	H	20" color monitor	1	SGI	SGI
ICL-LARC-1	HC	8mm Tape media	100	IBS	SGI
ICL-LARC-1	S	DCE for Irix Executive Ver 1.0 w/ Doco	1	SGI	SGI
ICL-LARC-1	S	ONC2/NFS for IRIX 5.3	1	SGI	SGI
ICL-LARC-1	S	SNMP Agent	1	SGI	SGI
ICL-LARC-1	SC	Builders Xcessory	1	Mcbride	SGI
ICL-LARC-1	SU	Configuration Management S/W client	1	Atria	SGI
<b>MSS-LARC-1</b>	<b>C</b>	<b>Sparc20/50 Workstation (1CPU)</b>	<b>1</b>	<b>SUN</b>	<b>SUN</b>
MSS-LARC-1	CH	1.05GB internal SCSI disk	1	SUN	SUN
MSS-LARC-1	CH	20" Color Monitor	1	SUN	SUN
MSS-LARC-1	CH	32MB memory	1	SUN	SUN
MSS-LARC-1	CH	SX-24bit Graphics	1	SUN	SUN
MSS-LARC-1	CS	Sol 2.x media for New Systems only	1	SUN	SUN
MSS-LARC-1	CS	Solaris 2.x user Environment	1	SUN	SUN
MSS-LARC-1	H	1.05GB SCSI Expansion Disk	1	SUN	SUN
MSS-LARC-1	H	32MB mem expansion(32MB SIMM)	2	SUN	SUN
MSS-LARC-1	H	SunCD 2Plus Internal CD-ROM drive	1	SUN	SUN
MSS-LARC-1	H	Type 5 Country Kit	1	SUN	SUN
MSS-LARC-1	M	Silver Support	1	SUN	SUN
MSS-LARC-1	S	SNMP Agent	1	SUN	SUN
MSS-LARC-1	SC	SoftWindows	1	Insignia	SUN
MSS-LARC-1	SC	MS Office	1	M Soft	SUN
MSS-LARC-1	SC	DCE Client	1	TransArc	SUN
MSS-LARC-1	SM	DCE Media Maunal Kit for Solaris 2.3	1	TransArc	SUN
MSS-LARC-1	SU	Configuration Management S/W Server	1	Atria	SUN
MSS-LARC-2	P	HP 8MB Memory Expansion	1	Mcbride	ALL
<b>MSS-LARC-2</b>	<b>P</b>	<b>HP LaserJet 4M+ PS LUL2 6GB</b>	<b>1</b>	<b>Mcbride</b>	<b>ALL</b>
<b>SPR-LARC-1</b>	<b>C</b>	<b>SGI Power Challeng XL Rack Server 4x75, 64MB, 2GB sys disk</b>	<b>1</b>	<b>SGI</b>	<b>SGI</b>
SPR-LARC-1	H	10baseT transceiver	1	Branch	SGI
SPR-LARC-1	H	SCSI Cable ( ) M	1	Mcbride	SGI
SPR-LARC-1	H	SCSI Terminator	1	Mcbride	SGI
SPR-LARC-1	H	Data Cart Data Grade BX 5	1	Mcbride	SGI

**Table B.7-1. Bill of Materials (4 of 5)**

Config ID	Type	Description	Qty	Vendor	Platform
SPR-LARC-1	H	Exabyte 210T Stacker w/ 8508 drive	1	Mcbride	SGI
SPR-LARC-1	H	First 512MB Super Density Mem, 2 way interleave, 1IMB for Challenge	1	SGI	SGI
SPR-LARC-1	H	Upgrade 2GB to 4.3GB SCSI-2 F/W System Disk	1	SGI	SGI
SPR-LARC-1	H	680MB QuadSpeed CD-ROM drive	1	SGI	SGI
SPR-LARC-1	H	RAID5 enclosure q/ 1 controller, 2 power supplies, 5x4.3GB drives	1	SGI	SGI
SPR-LARC-1	H	5x4.3GB drives for installation in RAID5 cabinet only	3	SGI	SGI
SPR-LARC-1	H	110VAC Programming Terminal for Challenge	1	SGI	SGI
SPR-LARC-1	H	SCSI-2 10MHz differential Mezzanine Card for Challenge	1	SGI	SGI
SPR-LARC-1	HC	8mm Tape media	100	IBS	SGI
SPR-LARC-1	M	Installation for Multiprocessor systems	1	SGI	SGI
SPR-LARC-1	M	IRIS Dev Manual-IRIS 6.0.1(hard copy of online doco shipped w/ IDO 6.0.1)	1	SGI	SGI
SPR-LARC-1	M	IRIX admin, IRIX Admin man pages, NetLS admin, NFS/NIS admin, diskless (6.X)	1	SGI	SGI
SPR-LARC-1	M	Motif Dev Manuals	1	SGI	SGI
SPR-LARC-1	M	ANSI C Programming Manuals(6.X)	1	SGI	SGI
SPR-LARC-1	M	MIPSpro Power FORTRAN Manuals (6.X)	1	SGI	SGI
SPR-LARC-1	M	C++ Translator Manuals (6.X)	1	SGI	SGI
SPR-LARC-1	M	MIPSpro F77 Manuals (6.X)	1	SGI	SGI
SPR-LARC-1	M	Verdix AXM 6.2.2 manuals	1	SGI	SGI
SPR-LARC-1	M	IRIS Power C Manual (6.X)	1	SGI	SGI
SPR-LARC-1	M	ProDev/Workshop Manuals (5.x,6.x)	1	SGI	SGI
SPR-LARC-1	M	IRIX Device Driver Prog Guide & Ref pages (5.3, 6.x)	1	SGI	SGI
SPR-LARC-1	M	Postscript Manuals (5.2, 6.0.1)	1	SGI	SGI
SPR-LARC-1	M	IRIX Progamming Manuals (6.x)	1	SGI	SGI
SPR-LARC-1	M	Desktop Intergration Guide (6.x)	1	SGI	SGI
SPR-LARC-1	M	IRIS Software Installation Guide (6.x)	1	SGI	SGI
SPR-LARC-1	M	CD-ROM update media option - For Support only	1	SGI	SGI
SPR-LARC-1	M	Destination Kit for XL series 220VAC/1P	1	SGI	SGI
SPR-LARC-1	M	Support price for S/W options for systems w/ IDO Full/basic/IRIX is required	1	SGI	SGI
SPR-LARC-1	S	DCE for Irix Executive Ver 1.0 w/ Doco	1	SGI	SGI
SPR-LARC-1	S	DCE Development Software Version 1.0	1	SGI	SGI
SPR-LARC-1	S	NFS for IRIX 6.0.1	1	SGI	SGI

**Table B.7-1. Bill of Materials (5 of 5)**

Config ID	Type	Description	Qty	Vendor	Platform
SPR-LARC-1	S	SNMP Agent	1	SGI	SGI
SPR-LARC-1	S	Pro dev Option (Workshop and IDO for IRIX 6.0.1 concurrent	1	SGI	SGI
SPR-LARC-1	S	ProDev/C Bundle for C Development 5 RTU lice of ProDev Workshop & IDO for IRIX 6.0.1 (1 set CDs, Mans)	1	SGI	SGI
SPR-LARC-1	S	MIPSpro Power C Analyzer for IRIX 6.0.1	1	SGI	SGI
SPR-LARC-1	S	MIPSpro Power FORTRAN 77 Analyzer for IRIX 6.0.1	1	SGI	SGI
SPR-LARC-1	S	MIPSpro FORTRAN 77 Compiler for IRIX 6.0.1	1	SGI	SGI
SPR-LARC-1	S	FORTRAN 90	1	SGI	SGI
SPR-LARC-1	S	MIPSpro C++ (64nit) Compiler for IRIX 6.0.1	1	SGI	SGI
SPR-LARC-1	S	CD, Verdix 6.2 Ada Compiler w/ X11/Motif	1	SGI	SGI
SPR-LARC-1	S	IRIX 6.0.1 Operating system S/W and Manuals forPower Challenge servers	1	SGI	SGI
SPR-LARC-1	SC	IDL	1	RSI	SGI
SPR-LARC-1	SC	Sybase Client	1	Sybase	SGI
SPR-LARC-1	SC	IMSL	1	VisualNm	SGI
SPR-LARC-1	SU	Configuration Management S/W client	1	Atria	SGI
SPR-LARC-1	SU	Scheduler Agent	1	AutoSys	SGI
<b>SPR-LARC-2</b>	<b>H</b>	<b>HMX Xterminal w/ 20"clr, 8MB ram, UTP</b>	<b>1</b>	<b>Mcbride</b>	<b>NCD</b>
SPR-LARC-2	H	NCDware Boot Software w/CD media	1	Mcbride	NCD
SPR-LARC-2	H	Xterminal Software RTU	1	Mcbride	NCD
<b>SPR-LARC-3</b>	<b>H</b>	<b>HMX Xterminal w/ 20"clr, 8MB ram, UTP</b>	<b>1</b>	<b>Mcbride</b>	<b>NCD</b>
SPR-LARC-3	H	Xterminal Software RTU	1	Mcbride	NCD
<b>SPR-LARC-4</b>	<b>H</b>	<b>HMX Xterminal w/ 20"clr, 8MB ram, UTP</b>	<b>1</b>	<b>Mcbride</b>	<b>NCD</b>
SPR-LARC-4	H	Xterminal Software RTU	1	Mcbride	NCD

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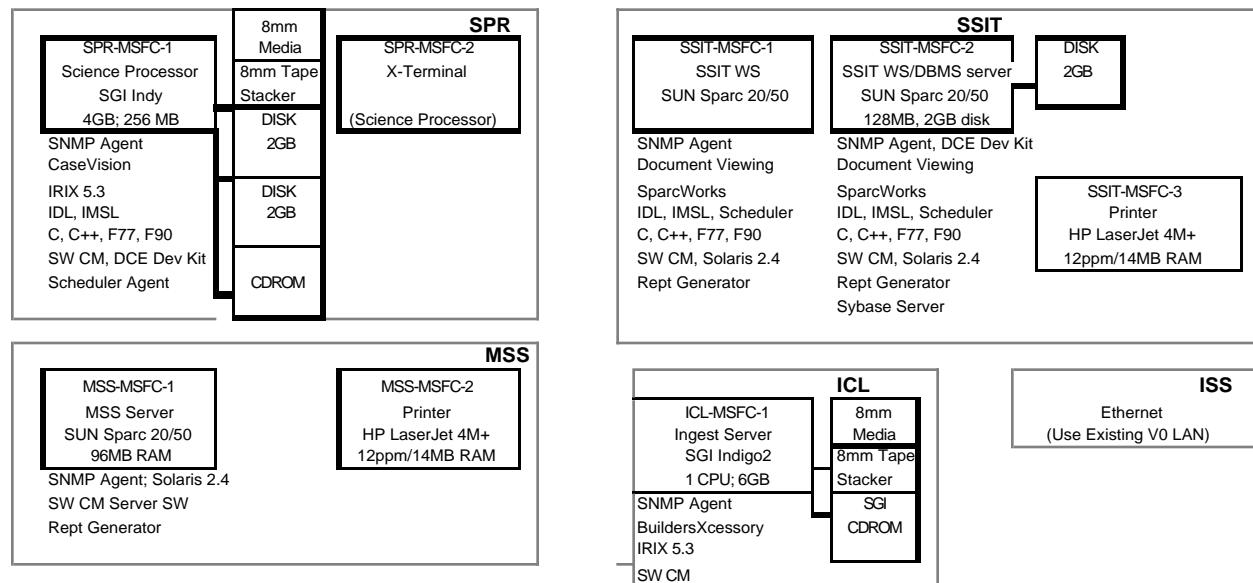
# Appendix C. MSFC Installation

## C.1 Installation Location

Equipment will be shipped to and installed at MSFC, 977 Explorer Blvd., Huntsville, AL 35806. Equipment will be delivered to the south center door of the building at the following address: NASA/MSFC GHCC, ECS Contract, 977 Explorer Blvd. Huntsville, Al 35806. ATTN.: Danny Hardin, Tel. (205)922-5804. Vendors delivering material direct to the MSFC DAAC will be advised that drivers must report to receptionist desk located at the main entrance. All delivery trucks must have either a lift-gate or ramp. All equipment entering the MSFC DAAC will enter through the main entrance. The maximum size container must be 72" w x 86" high. Delivery is currently planned between 8 and 11 AM Monday, 27 November. Special arrangements will be made with the DAAC manager if weekend delivery is required.

## C.2 MSFC Equipment Configurations

Figure C.2-1 identifies the Ir-1 hardware and software to be installed at the MSFC DAAC. The drawing summarizes the hardware and software configuration for each subsystem.



**Figure C.2-1. MSFC Ir-1 Configuration**

## C.3 Equipment Specifications

Table C.3-1 identifies the power, space, and BTU specifications for Ir-1 equipment.

**Table C.3-1. Ir-1 MSFC Equipment Specifications**

Equipment Description	Qty	Vendor	Model	KVA	BTU 000	Width (In)	Depth (In)	Height (In)	Sq. Ft.	Wt (Lbs)	Volts	Amps	Phase	Type Receptacle
<i>Science Processing</i>														
Science Processor	1	SGI	Indy	0.6	2.2	19.0	20.0	22.0	2.6	98.0	120	5.4	1	NEMA 5-20R
Disk Storage (2GB)	2	SGI	P2-D2GSA	0.0	0.0	4.0	6.0	1.0	0.2	1.0	120	0.1	1	NEMA 5-20R
CD-ROM	1	SGI	P-CDR-4A	0.04	0.1	7.5	12.0	3.0	0.6	4.0	120	0.3	1	NEMA 5-20R
Tape Stacker (8mm)	1	EXABYTE	EXB-210TW/8505S	0.2	0.8	10.0	22.0	22.0	1.5	78.5	120	2.0	1	NEMA 5-20R
X-Terminal	1	NCD	HMX20	0.2	0.7	20.0	20.0	21.0	2.8	80.9	115	1.9	1	NEMA 5-15R
<i>Alg. Integ. &amp; Test</i>														
Workstation	2	Sun	Sparc 20/50	0.9	3.0	19.0	20.0	22.0	2.6	107.3	115	7.3	1	NEMA 5-20R
Disk Storage (2GB)	1	SUN	Desktop	0.1	0.3	9.5	10.5	3.0	0.7	4.0	115	0.8	1	NEMA 5-20R
Printer (12ppm)	1	HP	Laserjet 4M+	1.1	3.8	17.0	16.0	12.0	1.9	37.0	115	9.4	1	NEMA 5-15R
<i>Ingest</i>														
Server	1	SGI	Indigo 2	0.3	1.0	19.0	20.0	24.0	2.8	111.6	120	2.4	1	NEMA 5-20R
CD-ROM	1	SGI	P-CDR-4A	0.04	0.1	7.5	12.0	3.0	0.6	4.0	120	0.3	1	NEMA 5-20R
Tape Stacker (8mm)	1	EXABYTE	EXB-210TW/8505S	0.2	0.8	10.0	22.0	22.0	1.5	78.5	120	2.0	1	NEMA 5-20R
<i>Mgt. Subsystem</i>														
MSS Server	1	Sun	Sparc 20/50	0.9	3.0	19.0	20.0	22.0	2.6	107.3	115	7.3	1	NEMA 5-20R
Printer (12ppm)	1	HP	Laserjet 4M+	1.1	3.8	17.0	16.0	12.0	1.9	37.0	115	9.4	1	NEMA 5-15R

## C.4 Installation Support Requirements

Table C.4-1 identifies the support required from the host site to accomplish the MSFC Ir-1 installation.

**Table C.4-1. MSFC Installation Support Requirements**

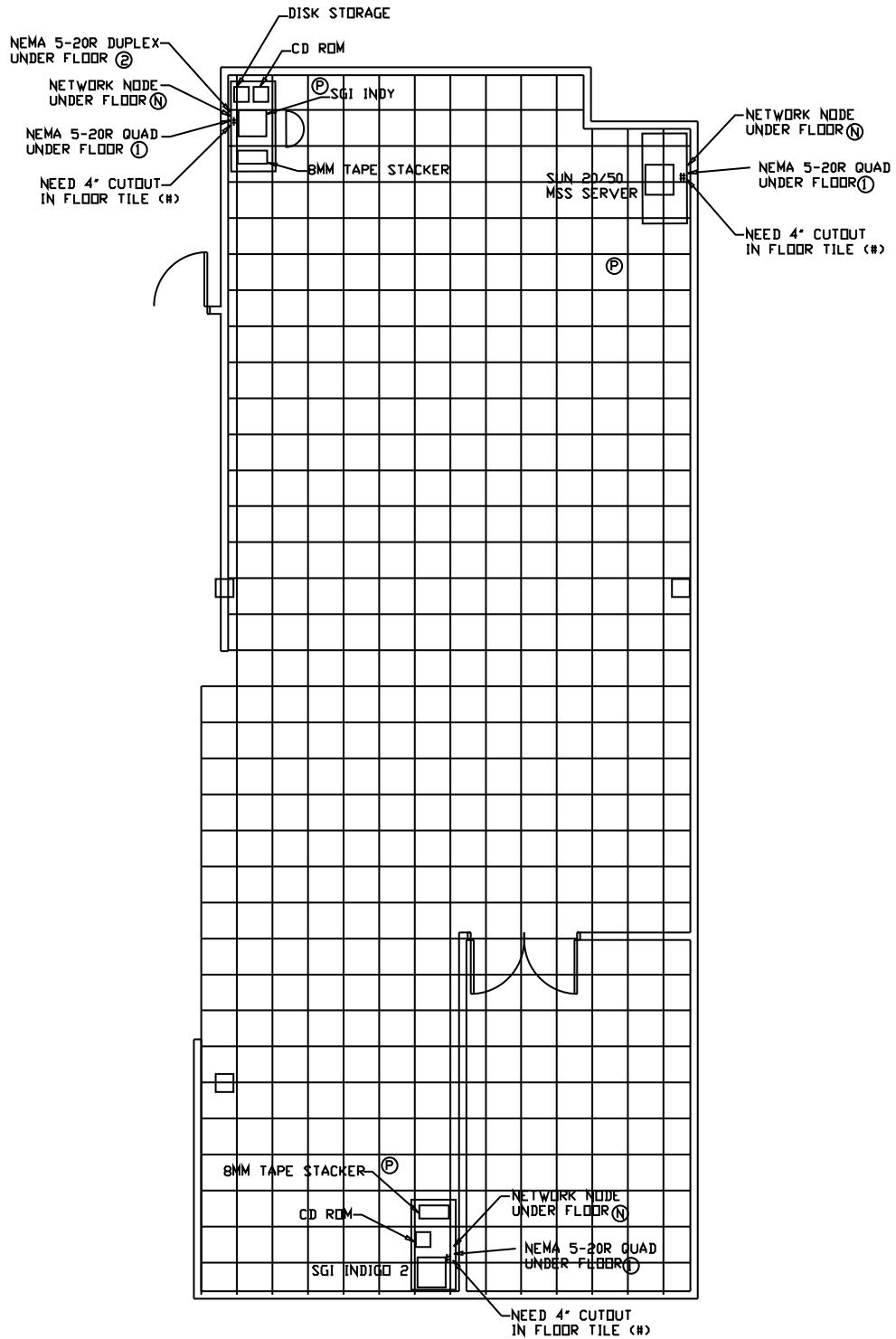
Qty	Description	Code*	Date Req'd
<b>Items required for the computer room:</b>			
3	4" cutouts in floor tiles	#	Oct. 2,1995
3	Perforated tiles (Air Vent)	P	Oct. 2,1995
3	Network Nodes	N	Oct. 2,1995
3	NEMA 5-20R Quad. Receptacles	1	Oct. 2,1995
1	NEMA 5-20R Duplex. Receptacle	2	Oct. 2,1995
3	Computer Table 48" x 30"	NA	Oct. 2,1995
3	Swivel Office Chair	NA	Oct. 2,1995
3	Bookcase 3'W x 6'H 10"D (for technical documentation)	NA	Oct. 2,1995
2	Storage Cabinet (5 shelf) (for consumables/SW)	NA	Oct. 2,1995
<b>Items required for the cube areas:</b>			
5	Network Nodes	N	Oct. 2,1995
3	NEMA 5-15R Duplex non-critical Receptacle	1	Oct. 2,1995
2	NEMA 5-20R Quad. from UPS	2	Oct. 2,1995
<b>Item Required for the period of installation:</b>			
1	Two-wheel Hand Truck	NA	Oct. 2,1995
1	Pallet Jack (2000 LB capacity)	NA	Oct. 2,1995

\* Notes:

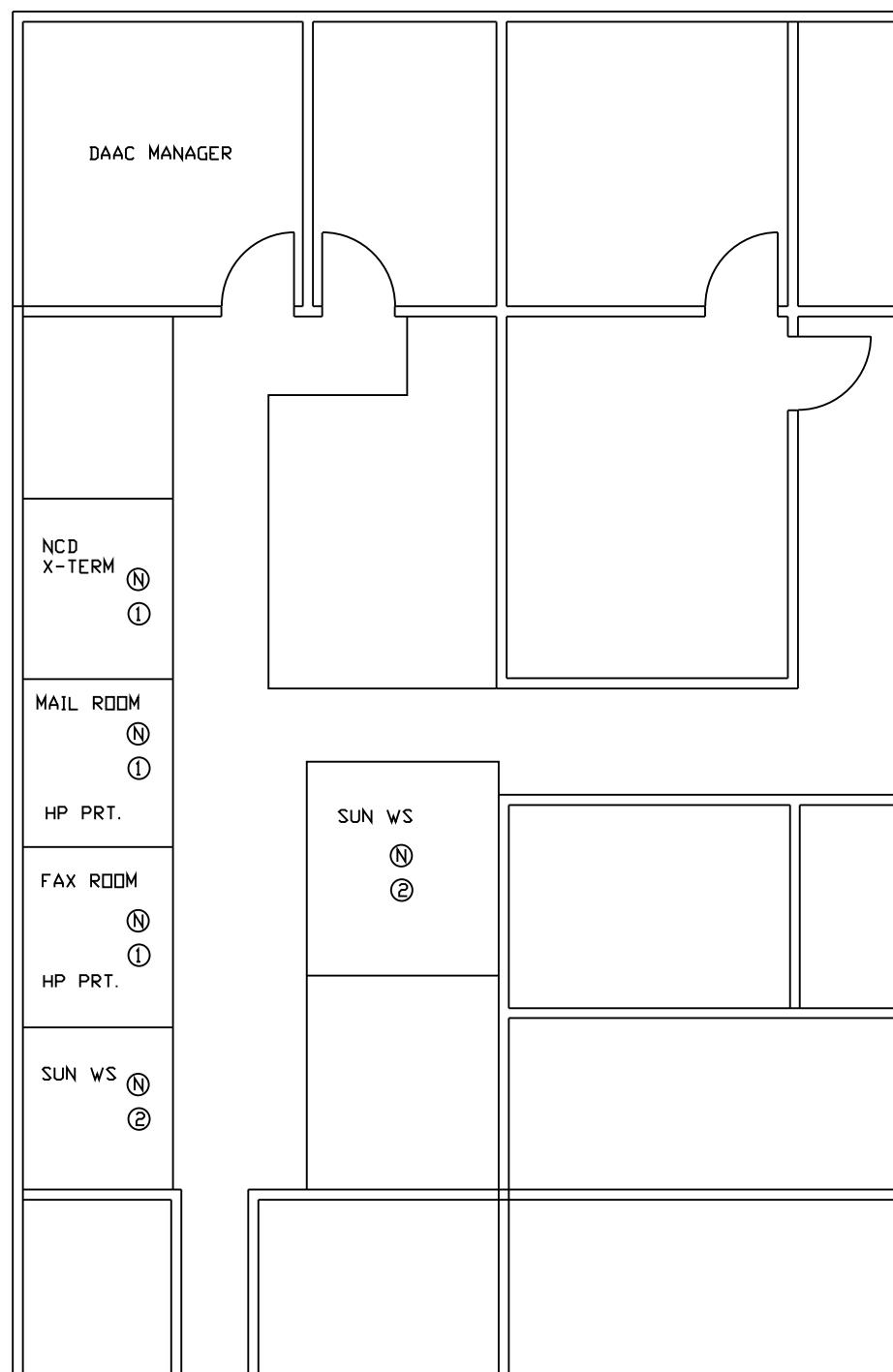
\* Codes correspond to codes on the floor plan at Figure C.5-1.

## C.5 Floor Plan for MSFC

Figure C.5-1 depicts the planned placement of Ir-1 equipment in the MSFC facility and identifies the locations at which floor tile cutouts and power receptacles must be placed.



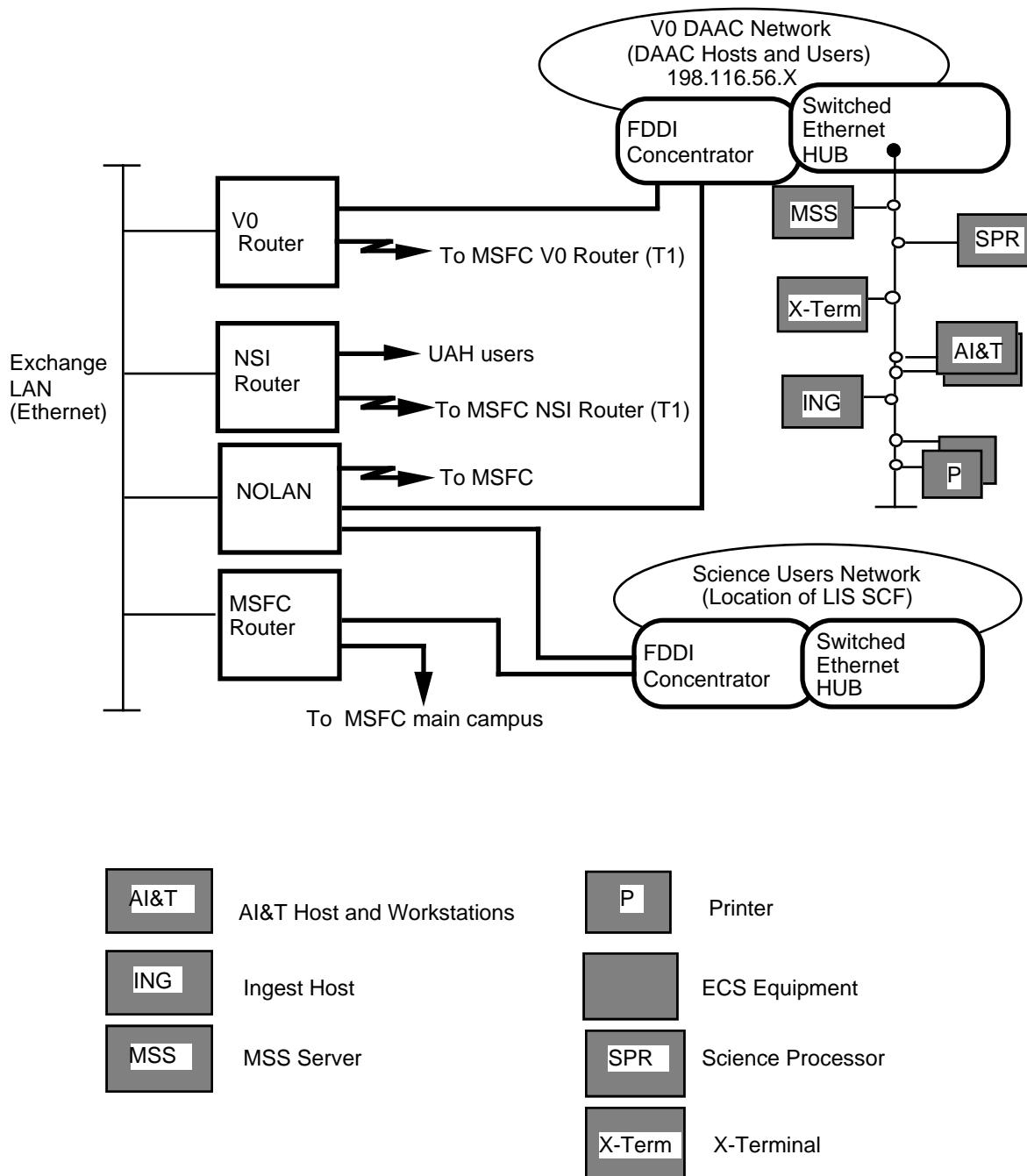
**Figure C.5-1. MSFC Ir-1 Office Floor Plan**



**Figure C.5-2. MSFC Ir-1 Computer Floor Plan**

## C.6 LAN Connectivity

Figure C.6-1 identifies the planned Ir-1 equipment connectivity with the DAAC's V0 LAN.



**Figure C.6-1 MSFC Ir-1 Network Configuration**

## C.7 MSFC Bill of Materials

Table C.7-1 contains the detailed bill of materials for equipment and software to be installed. It will be used to configure the subsystems and to verify that all HW/SW has been installed and correctly configured.

**Table C.7-1. Bill of Materials (1 of 3)**

CI ID	Type	Description	Qty	Vendor	Platform
<b>SSIT-MSFC-1</b>	<b>C</b>	<b>Sparc20/50 Workstation (1CPU)</b>	<b>1</b>	<b>SUN</b>	<b>SUN</b>
SSIT-MSFC-1	CH	1.05GB internal SCSI disk	1	SUN	SUN
SSIT-MSFC-1	CH	20" Color Monitor	1	SUN	SUN
SSIT-MSFC-1	CH	32MB memory	1	SUN	SUN
SSIT-MSFC-1	CH	SX-24bit Graphics	1	SUN	SUN
SSIT-MSFC-1	CS	Solaris 2.x user Environment	1	SUN	SUN
SSIT-MSFC-1	H	1.05GB SCSI Expansion Disk	1	SUN	SUN
SSIT-MSFC-1	H	32MB mem expansion(32MB SIMM)	1	SUN	SUN
SSIT-MSFC-1	H	SunCD 2Plus Internal CD-ROM drive	1	SUN	SUN
SSIT-MSFC-1	H	Type 5 Country Kit	1	SUN	SUN
SSIT-MSFC-1	M	Silver Support	1	SUN	SUN
SSIT-MSFC-1	M	Sol 2.x Hardcopy Doco(Full Doc set)	1	SUN	SUN
SSIT-MSFC-1	M	Sol 2.x media for New Systems only	1	SUN	SUN
SSIT-MSFC-1	S	C products (Ver 3.0.1)	1	SUN	SUN
SSIT-MSFC-1	S	C++ Products (Ver 4.0.1)	1	SUN	SUN
SSIT-MSFC-1	S	Development Products A La Carte	1	SUN	SUN
SSIT-MSFC-1	S	FORTRAN 77 Products (Ver 3.0.1)	1	SUN	SUN
SSIT-MSFC-1	S	SNMP Agent	1	SUN	SUN
SSIT-MSFC-1	SC	SoftWindows	1	Insignia	SUN
SSIT-MSFC-1	SC	MS Office	1	M Soft	SUN
SSIT-MSFC-1	SC	FORTRAN 90	1	NAG	SUN
SSIT-MSFC-1	SC	IDL	1	RSI	SUN
SSIT-MSFC-1	SC	Sybase Client (OpenClient)	1	Sybase	SUN
SSIT-MSFC-1	SC	DCE Client	1	TransArc	SUN
SSIT-MSFC-1	SC	DCE Development Kit	1	TransArc	SUN
SSIT-MSFC-1	SC	IMSL	1	VisualNm	SUN
SSIT-MSFC-1	SF	Document Viewing	1	Freeware	SUN
SSIT-MSFC-1	SU	Configuration Management S/W client	1	Atria	SUN
SSIT-MSFC-1	SU	Scheduler Agent	1	AutoSys	SUN
<b>SSIT-MSFC-2</b>	<b>C</b>	<b>Sparc20/50 Workstation (1CPU)</b>	<b>1</b>	<b>SUN</b>	<b>SUN</b>
SSIT-MSFC-2	CH	1.05GB internal SCSI disk	1	SUN	SUN
SSIT-MSFC-2	CH	20" Color Monitor	1	SUN	SUN
SSIT-MSFC-2	CH	32MB memory	1	SUN	SUN
SSIT-MSFC-2	CH	SX-24bit Graphics	1	SUN	SUN
SSIT-MSFC-2	CS	Solaris 2.x user Environment	1	SUN	SUN
SSIT-MSFC-2	H	1.05GB SCSI Expansion Disk	1	SUN	SUN
SSIT-MSFC-2	H	2.1GB Desktop Disk	1	SUN	SUN
SSIT-MSFC-2	H	32MB mem expansion(32MB SIMM)	3	SUN	SUN
SSIT-MSFC-2	H	SunCD 2Plus Internal CD-ROM drive	1	SUN	SUN
SSIT-MSFC-2	H	Type 5 Country Kit	1	SUN	SUN
SSIT-MSFC-2	M	Silver Support	1	SUN	SUN
SSIT-MSFC-2	M	Sol 2.x media for New Systems only	1	SUN	SUN
SSIT-MSFC-2	S	C products (Ver 3.0.1)	1	SUN	SUN
SSIT-MSFC-2	S	C++ Products (Ver 4.0.1)	1	SUN	SUN
SSIT-MSFC-2	S	Development Products A La Carte	1	SUN	SUN
SSIT-MSFC-2	S	FORTRAN 77 Products (Ver 3.0.1)	1	SUN	SUN
SSIT-MSFC-2	S	SNMP Agent	1	SUN	SUN
SSIT-MSFC-2	SC	SoftWindows	1	Insignia	SUN

**Table C.7-1. Bill of Materials (2 of 3)**

CI ID	Type	Description	Qty	Vendor	Platform
SSIT-MSFC-2	SC	MS Office	1	M Soft	SUN
SSIT-MSFC-2	SC	FORTRAN 90	1	NAG	SUN
SSIT-MSFC-2	SC	IDL	1	RSI	SUN
SSIT-MSFC-2	SC	Sybase Client (OpenClient)	1	Sybase	SUN
SSIT-MSFC-2	SC	Sybase Server (OpenSQL Server)	1	Sybase	SUN
SSIT-MSFC-2	SC	DCE Client	1	TransArc	SUN
SSIT-MSFC-2	SC	IMSL	1	VisualNm	SUN
SSIT-MSFC-2	SF	Document Viewing	1	Freeware	SUN
SSIT-MSFC-2	SU	Configuration Management S/W client	1	Atria	SUN
SSIT-MSFC-2	SU	Scheduler Agent	1	AutoSys	SUN
SSIT-MSFC-3	P	HP 8MB Memory Expansion	1	Mcbride	ALL
<b>SSIT-MSFC-3</b>	<b>P</b>	<b>HP LaserJet 4M+ PS LUL2 6GB</b>	<b>1</b>	<b>Mcbride</b>	<b>ALL</b>
ICL-MSFC-1	C	Indigo2 XZ graphics, 128MB mem, 2GB sysdisk, 20" monitor	1	SGI	SGI
ICL-MSFC-1	CH	External 4x CD ROM SCSI drive	1	SGI	SGI
ICL-MSFC-1	CH	Internal 3.5" 4.3GB fast SCSI-2 option disk for Indigo2	1	SGI	SGI
ICL-MSFC-1	CM	CD-ROM update media option - For Support only	1	SGI	SGI
ICL-MSFC-1	CM	IRIX admin, IRIX Admin man pages, NetLS admin, NFS/NIS admin, diskless (6.X)	1	SGI	SGI
ICL-MSFC-1	CM	Support price for S/W options for systems w/ IDO Full/basic/IRIX is required	1	SGI	SGI
ICL-MSFC-1	H	Exabyte 210T Stacker w/ 8508 drive	1	Mcbride	SGI
ICL-MSFC-1	H	SCSI Cable ( ) M	1	Mcbride	SGI
ICL-MSFC-1	H	SCSI Terminator	1	Mcbride	SGI
ICL-MSFC-1	H	Data Cart Data Grade BX 5	1	Mcbride	SGI
ICL-MSFC-1	H	20" color monitor	1	SGI	SGI
ICL-MSFC-1	HC	8mm Tape media	100	IBS	SGI
ICL-MSFC-1	S	DCE for Irix Executive Ver 1.0 w/ Doco	1	SGI	SGI
ICL-MSFC-1	S	ONC2/NFS for IRIX 5.3	1	SGI	SGI
ICL-MSFC-1	S	SNMP Agent	1	SGI	SGI
ICL-MSFC-1	SC	Builders Xcessory	1	Mcbride	SGI
ICL-MSFC-1	SU	Configuration Management S/W client	1	Atria	SGI
<b>MSS-MSFC-1</b>	<b>C</b>	<b>Sparc20/50 Workstation (1CPU)</b>	<b>1</b>	<b>SUN</b>	<b>SUN</b>
MSS-MSFC-1	CH	1.05GB internal SCSI disk	1	SUN	SUN
MSS-MSFC-1	CH	20" Color Monitor	1	SUN	SUN
MSS-MSFC-1	CH	32MB memory	1	SUN	SUN
MSS-MSFC-1	CH	SX-24bit Graphics	1	SUN	SUN
MSS-MSFC-1	CS	Solaris 2.x user Environment	1	SUN	SUN
MSS-MSFC-1	H	1.05GB SCSI Expansion Disk	1	SUN	SUN
MSS-MSFC-1	H	32MB mem expansion(32MB SIMM)	2	SUN	SUN
MSS-MSFC-1	H	SunCD 2Plus Internal CD-ROM drive	1	SUN	SUN
MSS-MSFC-1	H	Type 5 Country Kit	1	SUN	SUN
MSS-MSFC-1	M	Silver Support	1	SUN	SUN
MSS-MSFC-1	M	Sol 2.x media for New Systems only	1	SUN	SUN
MSS-MSFC-1	S	SNMP Agent	1	SUN	SUN
MSS-MSFC-1	SC	SoftWindows	1	Insignia	SUN
MSS-MSFC-1	SC	MS Office	1	M Soft	SUN
MSS-MSFC-1	SC	DCE Client	1	TransArc	SUN
MSS-MSFC-1	SM	DCE Media Maunal Kit for Solaris 2.3	1	TransArc	SUN
MSS-MSFC-1	SU	Configuration Management S/W Server	1	Atria	SUN

**Table C.7-1. Bill of Materials (3 of 3)**

CI ID	Type	Description	Qty	Vendor	Platform
MSS-MSFC-2	P	HP 8MB Memory Expansion	1	Mcbride	ALL
<b>MSS-MSFC-2</b>	<b>P</b>	<b>HP LaserJet 4M+ PS LUL2 6GB</b>	<b>1</b>	<b>Mcbride</b>	<b>ALL</b>
<b>SPR-MSFC-1</b>	<b>C</b>	<b>SGI Indy 133MHz , 32Mb, 1GB, 17" Color monitor</b>	<b>1</b>	<b>SGI</b>	<b>SGI</b>
SPR-MSFC-1	H	SCSI Cable ( ) M	1	Mcbride	SGI
SPR-MSFC-1	H	SCSI Terminator	1	Mcbride	SGI
SPR-MSFC-1	H	Data Cart Data Grade BX 5	1	Mcbride	SGI
SPR-MSFC-1	H	Exabyte 210T Stacker w/ 8508 drive	1	Mcbride	SGI
SPR-MSFC-1	H	128MB Memory Upgrade for Indy	2	SGI	SGI
SPR-MSFC-1	H	Internal 2GB 3.5" fast SCSI-2 drive	1	SGI	SGI
SPR-MSFC-1	H	External 2GB 3.5" fast SCSI-2 drives	2	SGI	SGI
SPR-MSFC-1	H	Upgrade to 20" color monitor	1	SGI	SGI
SPR-MSFC-1	H	External 4x CD ROM SCSI drive	1	SGI	SGI
SPR-MSFC-1	HC	8mm Tape media	100	IBS	SGI
SPR-MSFC-1	M	CD-ROM Update Media requirement for Support Only	1	SGI	SGI
SPR-MSFC-1	M	Support price for Software options for systems w/ IDO. Full/Basic/IRIX Care is required	1	SGI	SGI
SPR-MSFC-1	M	IRIX Dev Manuals IRIX 5.3	1	SGI	SGI
SPR-MSFC-1	M	IRIX admin, IRIX admin man pages, Netls/NFS/NIS admin, diskless admin for IRIX 5.3	1	SGI	SGI
SPR-MSFC-1	M	Motif Dev Manuls for IRIX 5.3	1	SGI	SGI
SPR-MSFC-1	M	ProDev WorkShop manuals for 5.3	1	SGI	SGI
SPR-MSFC-1	M	C++ 4.0 Translator Manuals	1	SGI	SGI
SPR-MSFC-1	M	Digital Media Dev Manuals 5.3	1	SGI	SGI
SPR-MSFC-1	M	FORTRAN 77 Manuals 5.3	1	SGI	SGI
SPR-MSFC-1	M	IRIX Prog Manuals 5.3	1	SGI	SGI
SPR-MSFC-1	M	IRIX Device Driver Prog Guide for IRIX 5.3	1	SGI	SGI
SPR-MSFC-1	M	X11 Dev Manuals	1	SGI	SGI
SPR-MSFC-1	M	Desktop Intergration Manuals 5.3	1	SGI	SGI
SPR-MSFC-1	M	IRIX Advanced Site and Server Administration Guide	1	SGI	SGI
SPR-MSFC-1	M	ANSI C Prog Manuals 5.3	1	SGI	SGI
SPR-MSFC-1	M	Software Installation Administrator's Guide 5.3	1	SGI	SGI
SPR-MSFC-1	S	ProDev Lite Bundle (5RTU) IDO and Prodev Workshop for IRIX 5.3	1	SGI	SGI
SPR-MSFC-1	S	ProDev Lite Bundle of ProDev WorkShop and IDO for IRIX 5.3	1	SGI	SGI
SPR-MSFC-1	S	FORTRAN 77 Compiler for IRIX 5.3	1	SGI	SGI
SPR-MSFC-1	S	C++ 4.0 Compiler for IRIX 5.3	1	SGI	SGI
SPR-MSFC-1	S	DCE for IRIX Executive Version 1.0 w/ doco	1	SGI	SGI
SPR-MSFC-1	S	DCE Development Software Version 1.0	1	SGI	SGI
SPR-MSFC-1	S	SNMP Agent	1	SGI	SGI
SPR-MSFC-1	SC	FORTRAN 90	1	NAG	SGI
SPR-MSFC-1	SC	IDL	1	RSI	SGI
SPR-MSFC-1	SC	Sybase Client	1	Sybase	SGI
SPR-MSFC-1	SC	IMSL	1	VisualNm	SGI
SPR-MSFC-1	SU	Configuration Management S/W client	1	Atria	SGI
SPR-MSFC-1	SU	Scheduler Agent	1	AutoSys	SGI
<b>SPR-MSFC-2</b>	<b>H</b>	<b>HMX Xterminal w/ 20"clr, 8MB ram, UTP</b>	<b>1</b>	<b>Mcbride</b>	<b>NCD</b>
SPR-MSFC-2	H	NCDware Boot Software w/CD media	1	Mcbride	NCD
SPR-MSFC-2	H	Xterminal Software RTU	1	Mcbride	NCD

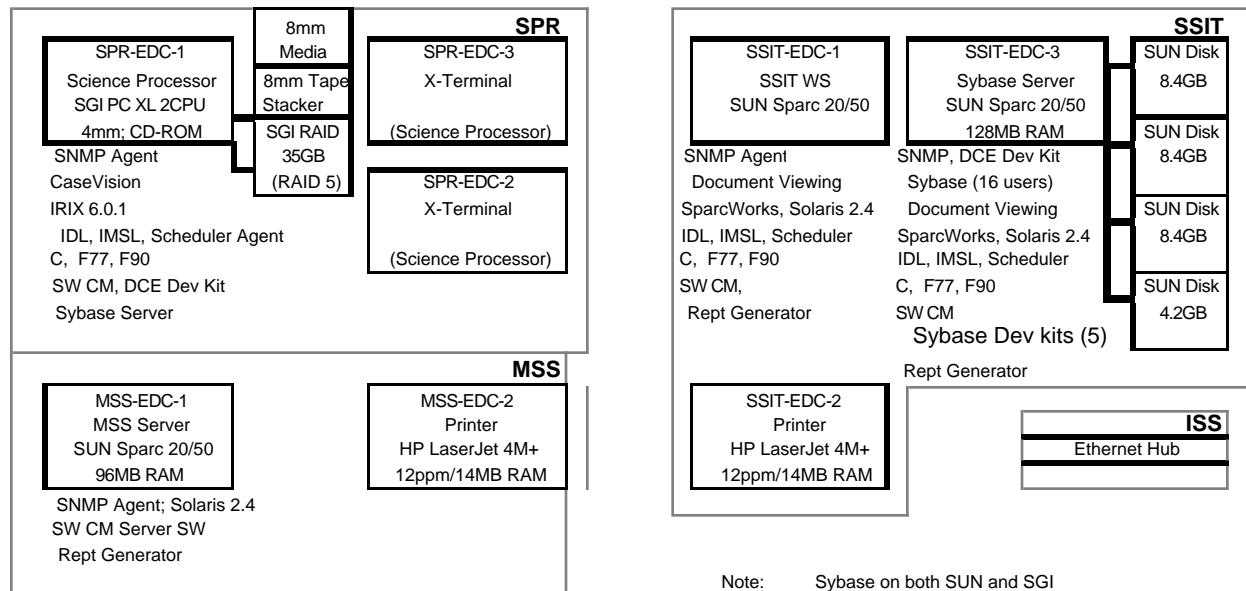
# Appendix D. EDC Installation

## D.1 Installation Location

Equipment will be installed at EDC, Mundt Federal Building, Sioux Falls, SD 57198. Equipment will be delivered to the following address: EROS Data Center, Receiving Warehouse, Mundt Federal Building, Attn.: ECS/John Daucsavage, Tel. (605) 594-6816. Delivery is currently planned between 7:30 AM and 3:30 PM Friday, 1 December. Special arrangements will be made with the EDC's ECS liaison if delivery is to occur other than this time.

## D.2 EDC Equipment Configurations

Figure D.2-1 identifies the Ir-1 hardware and software to be installed at the EDC DAAC. The drawing summarizes the hardware and software configuration for each subsystem.



**Figure D.2-1. EDC Ir-1 Configuration**

## D.3 Equipment Specifications

Table D.3-1 identifies the power, space, and BTU specifications for Ir-1 equipment.

**Table D.3-1. Ir-1 EDC Equipment Specifications**

Equipment Description	Qty	Vendor	Model	KVA	BTU (000)	Width (In)	Depth (In)	Height (In)	Sq. Ft.	Wt (Lbs)	Volts	Amps	Phase	Type Receptacle
<i>Science Processing</i>														
Science Processor w/2 CPU	1	SGI	Pwr. Challenge XL	4.2	14.6	27.0	48.0	62.3	9.0	400.0	208	20	1	NEMA L6-30R
RAID Storage (35GB)	1	SGI	Challenge RAID	0.9	3.0	14.0	30.0	24.8	2.9	176.0	120	8	1	NEMA 5-15R
Tape Stacker (8mm)	1	EXABYTE	EXB-210TW/8505S	0.2	0.8	10.0	22.0	22.0	1.5	78.5	120	2	1	NEMA 5-20R
X-Terminal	2	NCD	HMX20	0.2	0.7	20.0	20.0	21.0	2.8	80.9	115	2	1	NEMA 5-15R
<i>Alg. Integ. &amp; Test</i>														
Workstation	1	Sun	Sparc 20/50	0.9	3.0	19.0	20.0	22.0	2.6	107.3	120	7.3	1	NEMA 5-20R
Printer (12ppm)	1	HP	Laserjet 4M+	1.1	3.8	17.0	16.0	12.0	1.9	37.0	115	9.4	1	NEMA 5-15R
Sybase Server	1	Sun	Sparc 20/50	0.9	3.0	19.0	20.0	22.0	2.6	107.3	120	7.3	1	NEMA 5-20R
Disk Storage (29GB)	4	Sun	Multi-Disk Pack	0.2	280.0	11.0	10.0	5.7	0.8	17.0	120	1.4	1	NEMA 5-20R
<i>Mgt. Subsystem</i>														
MSS Server	1	Sun	Sparc 20/50	0.9	3.0	19.0	20.0	22.0	2.6	107.3	120	7.3	1	NEMA 5-20R
Printer (12ppm)	1	HP	Laserjet 4M+	1.1	3.8	17.0	16.0	12.0	1.9	37.0	115	9.4	1	NEMA 5-15R
<i>Internetworking Subsystem</i>														
Ethernet Hub	1	Cabletron	SEHI-22	0.0	0.3	17.0	13.5	2.8	1.1	7	110	0.3	1	NEMA 5-15R

## D.4 Installation Support Requirements

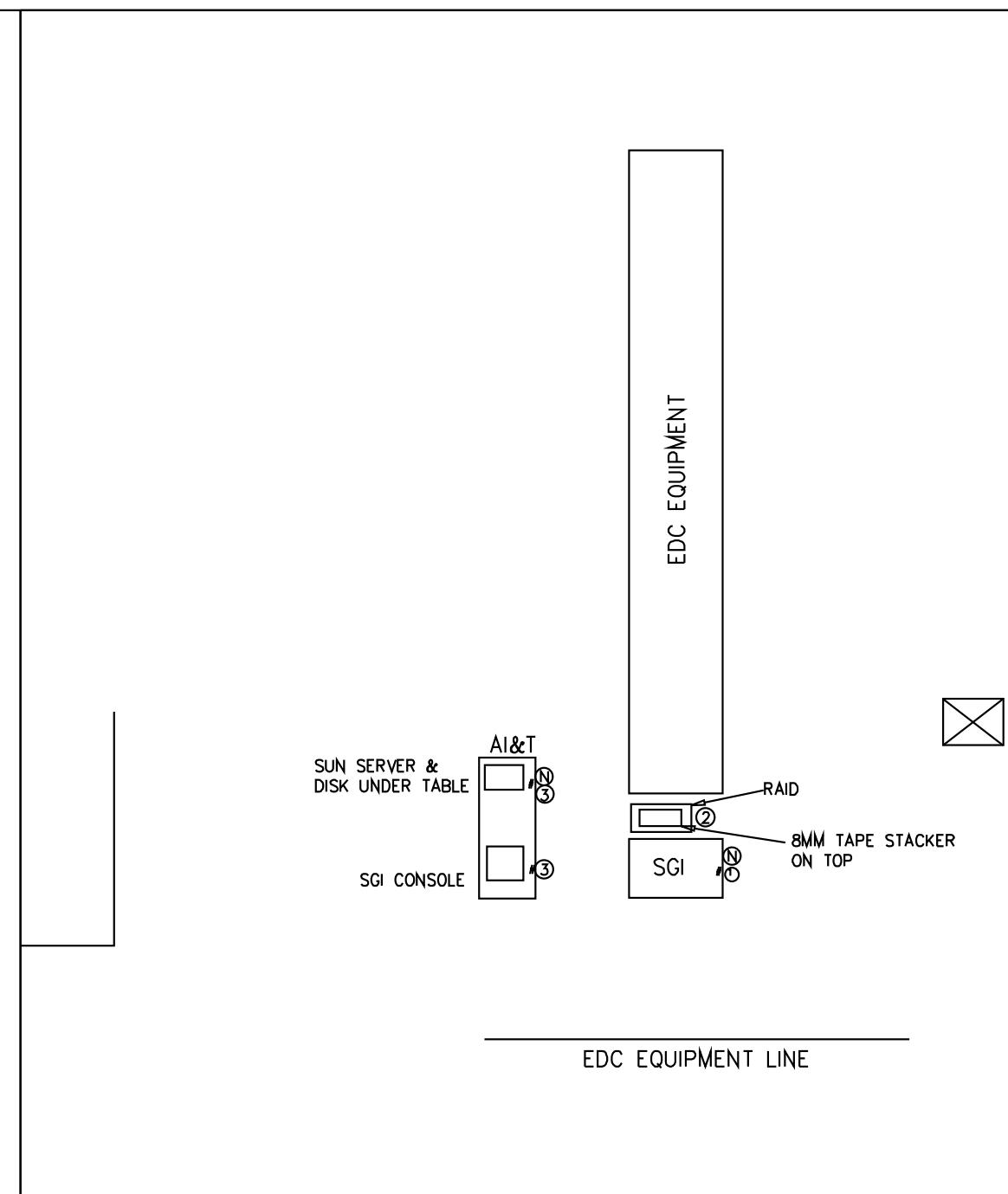
Table D.4-1 identifies the support required from the host site to accomplish the EDC Ir-1 installation.

**Table D.4-1. EDC Installation Support Requirements**

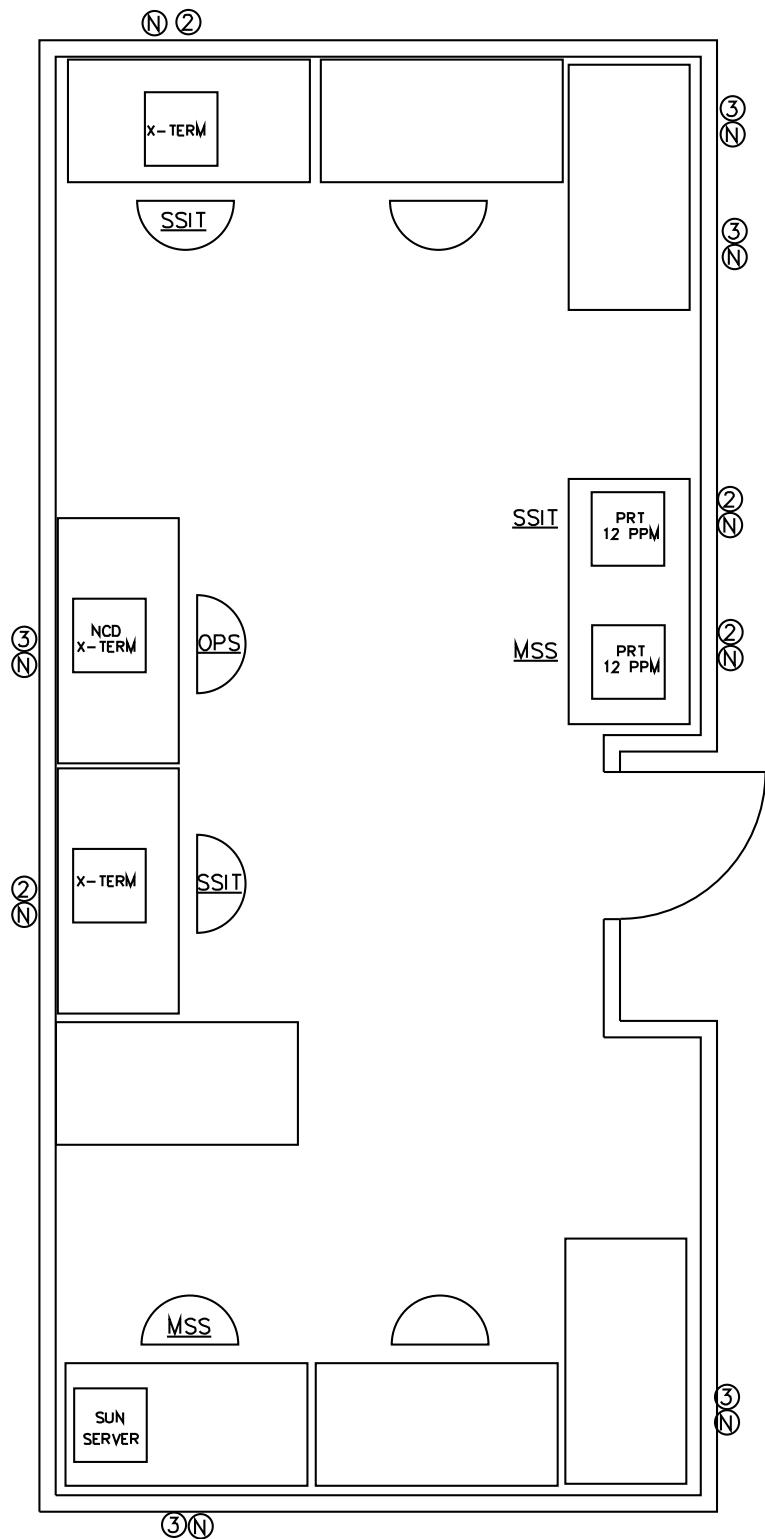
Qty	Description	Code*	Date Req'd
<b>Items required for computer room:</b>			
4	4" cutouts in floor tiles	#	Oct. 9, 1995
2	Network Nodes	N	Oct. 9, 1995
1	NEMA L6-30R Receptacle	1	Oct. 9, 1995
1	NEMA 5-15R Duplex Receptacle	2	Oct. 9, 1995
2	NEMA 5-20R Quad. Receptacles	3	Oct. 9, 1995
1	72" x 30" Computer Table	NA	Oct. 9, 1995
1	Swivel Chair	NA	Oct. 9, 1995
4	Bookcase 3'W x 6'H 10"D (for technical documentation)	NA	Oct. 9, 1995
1	Storage Cabinet (5 shelf) (for consumables/SW)		Oct. 9, 1995
<b>Required for office areas:</b>			
9	Network Nodes	N	Oct. 9, 1995
4	NEMA 5-15R Duplex Receptacle	2	Oct. 9, 1995
5	NEMA 5-20R Quad. Receptacles	3	Oct. 9, 1995
<b>Required for installation period:</b>			
1	Two-wheel Hand Truck	NA	Oct. 15, 1995
1	Pallet Jack (2000 LB capacity)	NA	Oct. 15, 1995
Notes: * Codes correspond to codes on the floor plan at Figure A1.5.			

## **D5 Floor Plan for EDC**

Figure D.5-1 depicts the planned placement of Ir-1 equipment in the EDC facility and identifies the locations at which floor tile cutouts and power receptacles must be placed.



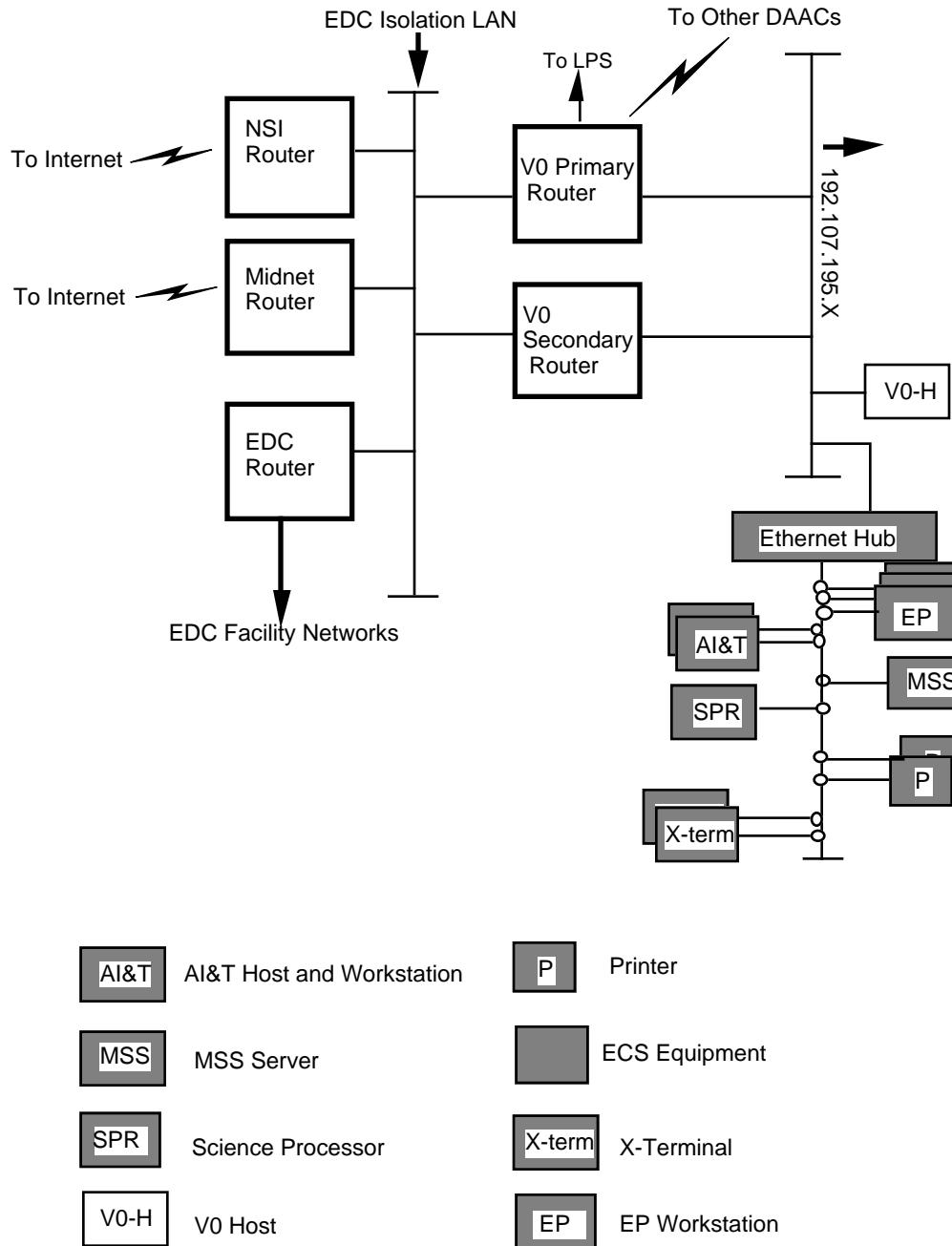
**Figure D.5-1. EDC Ir-1 Computer Floor Plan**



**Figure D.5-2. EDC/ECS Office Area Ir-1**

## D.6 LAN Connectivity

Figure D.6-1 identifies the planned Ir-1 equipment connectivity with the DAAC's V0 LAN.



**Figure D.6-1. EDC Ir-1 Network Configuration**

## D.7 EDC Bill of Materials

Table D.7-1 contains the detailed bill of materials for equipment and software to be installed. It will be used to configure the subsystems and to verify that all HW and SW has been installed and correctly configured.

**Table D.7-1 Bill of Materials (1 of 4)**

Config ID	Type	Description	Qty	Vendor	Platform
SSIT-EDC-1	C	Sparc20/50 Workstation (1CPU)	1	SUN	SUN
SSIT-EDC-1	CH	1.05GB internal SCSI disk	1	SUN	SUN
SSIT-EDC-1	CH	20" Color Monitor	1	SUN	SUN
SSIT-EDC-1	CH	32MB memory	1	SUN	SUN
SSIT-EDC-1	CH	SX-24bit Graphics	1	SUN	SUN
SSIT-EDC-1	CS	Solaris 2.x user Environment	1	SUN	SUN
SSIT-EDC-1	H	1.05GB SCSI Expansion Disk	1	SUN	SUN
SSIT-EDC-1	H	32MB mem expansion(32MB SIMM)	1	SUN	SUN
SSIT-EDC-1	H	Sol 2.x media for New Systems only	1	SUN	SUN
SSIT-EDC-1	H	SunCD 2Plus Internal CD-ROM drive	1	SUN	SUN
SSIT-EDC-1	H	Type 5 Country Kit	1	SUN	SUN
SSIT-EDC-1	M	Silver Support	1	SUN	SUN
SSIT-EDC-1	M	Sol 2.x Hardcopy Doco(Full Doc set)	1	SUN	SUN
SSIT-EDC-1	S	C products (Ver 3.0.1)	1	SUN	SUN
SSIT-EDC-1	S	Development Products A La Carte	1	SUN	SUN
SSIT-EDC-1	S	FORTRAN 77 Products (Ver 3.0.1)	1	SUN	SUN
SSIT-EDC-1	S	SNMP Agent	1	SUN	SUN
SSIT-EDC-1	SC	SoftWindows	1	Insignia	SUN
SSIT-EDC-1	SC	MS Office	1	M Soft	SUN
SSIT-EDC-1	SC	FORTRAN 90	1	NAG	SUN
SSIT-EDC-1	SC	IDL	1	RSI	SUN
SSIT-EDC-1	SC	Sybase Client (OpenClient)	1	Sybase	SUN
SSIT-EDC-1	SC	DCE Client	1	TransArc	SUN
SSIT-EDC-1	SC	DCE Development kit	1	TransArc	SUN
SSIT-EDC-1	SC	IMSL	1	VisualNm	SUN
SSIT-EDC-1	SF	Document Viewing	1	Freeware	SUN
SSIT-EDC-1	SU	Configuration Management S/W client	1	Atria	SUN
SSIT-EDC-1	SU	Scheduler Agent	1	AutoSys	SUN
SSIT-EDC-2	P	HP 8MB Memory Expansion	1	Mcbride	ALL
<b>SSIT-EDC-2</b>	<b>P</b>	<b>HP LaserJet 4M+ PS LUL2 6GB</b>	<b>1</b>	<b>Mcbride</b>	<b>ALL</b>
<b>SSIT-EDC-3</b>	<b>C</b>	<b>Sun Sparc 20/50 Server</b>	<b>1</b>	<b>SUN</b>	<b>SUN</b>
SSIT-EDC-3	CH	1.05GB internal SCSI disk	1	SUN	SUN
SSIT-EDC-3	CH	32MB memory	1	SUN	SUN
SSIT-EDC-3	CH	SunCD 2Plus Internal CD-ROM drive	1	SUN	SUN
SSIT-EDC-3	CS	Solaris 2.x Server Environment	1	SUN	SUN
SSIT-EDC-3	H	1.05GB SCSI Expansion Disk	1	SUN	SUN
SSIT-EDC-3	H	20" Color Monitor/ 4MB SX graphics	1	SUN	SUN
SSIT-EDC-3	H	32MB mem expansion(32MB SIMM)	3	SUN	SUN
SSIT-EDC-3	H	4.2GB Multi-Disk Pack Fast SCSI-2	1	SUN	SUN
SSIT-EDC-3	H	8.4GB Multi-disk Pack Fast SCSI-2	3	SUN	SUN

**Table D.7-1. Bill of Materials (2 of 4)**

Config ID	Type	Description	Qty	Vendor	Platform
SSIT-EDC-3	H	S-bus Fast SCSI-2/Ethernet Card	3	SUN	SUN
SSIT-EDC-3	H	Type 5 Country Kit	1	SUN	SUN
SSIT-EDC-3	M	Silver Support	1	SUN	SUN
SSIT-EDC-3	M	Sol 2.x media for New Systems only	1	SUN	SUN
SSIT-EDC-3	S	C products (Ver 3.0.1)	1	SUN	SUN
SSIT-EDC-3	S	Development Products A La Carte	1	SUN	SUN
SSIT-EDC-3	S	FORTRAN 77 Products (Ver 3.0.1)	1	SUN	SUN
SSIT-EDC-3	S	SNMP Agent	1	SUN	SUN
SSIT-EDC-3	SC	SoftWindows	1	Insignia	SUN
SSIT-EDC-3	SC	MS Office	1	M Soft	SUN
SSIT-EDC-3	SC	FORTRAN 90	1	NAG	SUN
SSIT-EDC-3	SC	IDL	1	RSI	SUN
SSIT-EDC-3	SC	Sybase (16 user)	1	Sybase	SUN
SSIT-EDC-3	SC	Sybase Dev kits (1 seats)	5	Sybase	SUN
SSIT-EDC-3	SC	DCE Client	1	TransArc	SUN
SSIT-EDC-3	SC	IMSL	1	VisualNm	SUN
SSIT-EDC-3	SF	Document Viewing	1	Freeware	SUN
SSIT-EDC-3	SU	Configuration Management S/W client	1	Atria	SUN
SSIT-EDC-3	SU	Scheduler Agent	1	AutoSys	SUN
<b>ISS-EDC-1</b>	<b>C</b>	<b>Cabletron Intelligent Ethernet Hub</b>	<b>1</b>	<b>Mcbride</b>	<b>ALL</b>
ISS-EDC-1	H	AUI interface w/ DB15 connector	1	Mcbride	ALL
ISS-EDC-1	H	Standard Support Plan Per Unit	1	Mcbride	ALL
ISS-EDC-1	H	Standard Support Plan Per Unit	1	Mcbride	ALL
ISS-EDC-1	H	Transciever Cable AUI -PVC IEEE 802.3	1	Mcbride	ALL
<b>MSS-EDC-1</b>	<b>C</b>	<b>Sparc20/50 Workstation (1CPU)</b>	<b>1</b>	<b>SUN</b>	<b>SUN</b>
MSS-EDC-1	CH	1.05GB internal SCSI disk	1	SUN	SUN
MSS-EDC-1	CH	20" Color Monitor	1	SUN	SUN
MSS-EDC-1	CH	32MB memory	1	SUN	SUN
MSS-EDC-1	CH	SX-24bit Graphics	1	SUN	SUN
MSS-EDC-1	CS	Solaris 2.x user Environment	1	SUN	SUN
MSS-EDC-1	H	1.05GB SCSI Expansion Disk	1	SUN	SUN
MSS-EDC-1	H	32MB mem expansion(32MB SIMM)	2	SUN	SUN
MSS-EDC-1	H	Sol 2.x media for New Systems only	1	SUN	SUN
MSS-EDC-1	H	SunCD 2Plus Internal CD-ROM drive	1	SUN	SUN
MSS-EDC-1	H	Type 5 Country Kit	1	SUN	SUN
MSS-EDC-1	M	Silver Support	1	SUN	SUN
MSS-EDC-1	S	SNMP Agent	1	SUN	SUN
MSS-EDC-1	SC	SoftWindows	1	Insignia	SUN
MSS-EDC-1	SC	MS Office	1	M Soft	SUN
MSS-EDC-1	SC	DCE Client	1	TransArc	SUN
MSS-EDC-1	SM	DCE Media Maunal Kit for Solaris 2.3	1	TransArc	SUN
MSS-EDC-1	SU	Configuration Management S/W Server	1	Atria	SUN
MSS-EDC-2	P	HP 8MB Memory Expansion	1	Mcbride	ALL
<b>MSS-EDC-2</b>	<b>P</b>	<b>HP LaserJet 4M+ PS LUL2 6GB</b>	<b>1</b>	<b>Mcbride</b>	<b>ALL</b>
<b>SPR-EDC-1</b>	<b>C</b>	<b>POWER chali. XL w/ 2 CPU, 2GB sysdsk</b>	<b>1</b>	<b>SGI</b>	<b>SGI</b>

**Table D.7-1. Bill of Materials (3 of 4)**

Config ID	Type	Description	Qty	Vendor	Platform
SPR-EDC-1	CH	110VAC Programming Terminal for Challenge	1	SGI	SGI
SPR-EDC-1	CH	2GB DAT internal drive for Challenge	1	SGI	SGI
SPR-EDC-1	CH	5x2GB drives for installation in RAID5 cabinet only	1	SGI	SGI
SPR-EDC-1	CH	5x4.3GB drives for installation in RAID5 cabinet only	1	SGI	SGI
SPR-EDC-1	CH	680MB Quadspeed CD-ROM for Challenge	1	SGI	SGI
SPR-EDC-1	CH	First 256MB Super Dens. Mem, 1IMB for Chall	1	SGI	SGI
SPR-EDC-1	CH	RAID5 enclosure q/ 1 controller, 2 power supplies, 5x4.3GB drives	1	SGI	SGI
SPR-EDC-1	CH	SCSI-2 10MHz differential Mezzanine Card for Challenge	1	SGI	SGI
SPR-EDC-1	CH	Upgrade 2GB to 4.3GB SCSI-2 F/W Sys Disk	1	SGI	SGI
SPR-EDC-1	CM	ANSI C Programming Manuals(6.X)	1	SGI	SGI
SPR-EDC-1	CM	C++ Translator Manuals (6.X)	1	SGI	SGI
SPR-EDC-1	CM	CD-ROM update media option - For Support only	1	SGI	SGI
SPR-EDC-1	CM	Desktop Intergration Guide (6.x)	1	SGI	SGI
SPR-EDC-1	CM	Destination Kit for XL series 220VAC/1P	1	SGI	SGI
SPR-EDC-1	CM	Installation for MultiProcessor systems	1	SGI	SGI
SPR-EDC-1	CM	IRIS Dev Manual-IRIS 6.0.1(hard copy of online doco shipped w/ IDO 6.0.1)	1	SGI	SGI
SPR-EDC-1	CM	IRIS Power C Manual (6.X)	1	SGI	SGI
SPR-EDC-1	CM	IRIS Software Installation Guide (6.x)	1	SGI	SGI
SPR-EDC-1	CM	IRIX admin, IRIX Admin man pages, NetLS admin, NFS/NIS admin, diskless (6.X)	1	SGI	SGI
SPR-EDC-1	CM	IRIX Device Driver Prog Guide & Ref pages (5.3, 6.x)	1	SGI	SGI
SPR-EDC-1	CM	IRIX Progamming Manuals (6.x)	1	SGI	SGI
SPR-EDC-1	CM	MIPSpro F77 Manuals (6.X)	1	SGI	SGI
SPR-EDC-1	CM	MIPSpro Power FORTRAN Manuals (6.X)	1	SGI	SGI
SPR-EDC-1	CM	Motif Dev Manuals	1	SGI	SGI
SPR-EDC-1	CM	Postscript Manuals (5.2, 6.0.1)	1	SGI	SGI
SPR-EDC-1	CM	ProDev/Workshop Manuals (5.x,6.x)	1	SGI	SGI
SPR-EDC-1	CM	Support price for S/W options for systems w/ IDO Full/basic/IRIX is required	1	SGI	SGI
SPR-EDC-1	H	10baseT transceiver	1	Branch	SGI
SPR-EDC-1	H	Exabyte 210T Stacker w/ 8508 drive	1	Mcbride	SGI
SPR-EDC-1	H	SCSI Cable ( ) M	1	Mcbride	SGI
SPR-EDC-1	H	SCSI Terminator	1	Mcbride	SGI
SPR-EDC-1	H	Data Cart Data Grade BX 5	1	Mcbride	SGI
SPR-EDC-1	HU	8mm Tape media	100	IBS	SGI
SPR-EDC-1	S	DCE for Irix Executive Ver 1.0 w/ Doco	1	SGI	SGI
SPR-EDC-1	S	DCE Development Software Version 1.0	1	SGI	SGI
SPR-EDC-1	S	FORTRAN 90	1	SGI	SGI
SPR-EDC-1	S	IRIX 6.0.1 Operating system S/W and Manuals forPower Challenge servers	1	SGI	SGI
SPR-EDC-1	S	MIPSpro Power C Analyzer for IRIX 6.0.1	1	SGI	SGI
SPR-EDC-1	S	MIPSpro Power FORTRAN 77 for IRIX 6.0.1	1	SGI	SGI
SPR-EDC-1	S	MIPSprot FORTRAN 77 Compiler for IRIX 6.0.1	1	SGI	SGI

**Table D.7-1. Bill of Materials (4 of 4)**

Config ID	Type	Description	Qty	Vendor	Platform
SPR-EDC-1	S	NFS for IRIX 6.0.1	1	SGI	SGI
SPR-EDC-1	S	Pro dev Option (Workshop and IDO for IRIX 6.0.1 concurrent	1	SGI	SGI
SPR-EDC-1	S	ProDev/C Bundle for C Development 5 RTU lice of ProDev Workshop & IDO for IRIX 6.0.1 (1 set CDs, Mans)	1	SGI	SGI
SPR-EDC-1	S	SNMP Agent	1	SGI	SGI
SPR-EDC-1	SC	IDL	1	RSI	SGI
SPR-EDC-1	SC	Sybase Client (OpenClient)	1	Sybase	SGI
SPR-EDC-1	SC	Sybase Dev Kit (1 seat)	2	Sybase	SGI
SPR-EDC-1	SC	IMSL	1	VisualNm	SGI
SPR-EDC-1	SU	Configuration Management S/W client	1	Atria	SGI
SPR-EDC-1	SU	Scheduler Agent	1	AutoSys	SGI
<b>SPR-EDC-2</b>	<b>H</b>	<b>HMX Xterminal w/ 20"clr, 8MB ram, UTP</b>	<b>1</b>	<b>Mcbride</b>	<b>NCD</b>
SPR-EDC-2	H	NCDware Boot Software w/CD media	1	Mcbride	NCD
SPR-EDC-2	H	Xterminal Software RTU	1	Mcbride	NCD
<b>SPR-EDC-3</b>	<b>H</b>	<b>HMX Xterminal w/ 20"clr, 8MB ram, UTP</b>	<b>1</b>	<b>Mcbride</b>	<b>NCD</b>
SPR-EDC-3	H	Xterminal Software RTU	1	Mcbride	NCD

## **Abbreviations and Acronyms**

---

ACM	Access Control and Management
ADC	Affiliated Data Center
ADS	Administration Services
AI&T	Algorithm Integration and Test
AQA	Algorithm Quality Assurance
ASF	Alaska SAR Facility
BODs	Beneficial Occupancy Dates
BOM	Bill Of Materials
BTU	British Thermal Unit
CO1	Change Order 1
COTS	Commercial Off The Shelf
CRUs	Computer Room Units
CACU	cooling and air-conditioning units
CoI	co-investigator
CPU	central processing unit
CSMS	Communications and Systems Management Segment
CSS	Communications Subsystem
CY	calendar year
DADS	Data Archive and Distribution System
DAAC	Distributed Active Archive Center
DBMS	Data Base Management System
DCE	Distributed Computing Environment
DCN	Document Change Notice
DID	Data Item Description
DIP	Distribution Processing
DMG	Data Management Group
DNS	Domain Name Service
DRP	Data Repository

ECL	External Communications Links
ECS	EOSDIS Core System
EDC	EROS Data Center
EOC	EOS Operations Center (ECS)
EOS	Earth Observing System
EP	Evaluation Package
ESN	EOSDIS Science Network (ECS)
FDDI	Fiber Distributed Data Interface
FI	Facility Inspection
FIPS	Federal Information Processing Standards
FOS	Flight Operations Segment
GSFC	Goddard Space Flight Center
GUI	Graphical User Interface
HWCI	Hardware Configuration Item
I&T	Integration and Testing
IAW	In Accordance With
ICC	Instrument Control Center (ECS)
ICL	Ingest Client
ISS	Internetworking Subsystem
IST	Instrument Support Terminal
JPL	Jet Propulsion Laboratory
L&EI	LAN and Equipment Installation
LAN	Local Area Network
LaRC	Langley Research Center
M&O	Maintenance and Operations
MHE	Material Handling Equipment
MSFC	Marshall Space Flight Center
MSS	System Management Subsystem
NOAA	National Oceanic and Atmospheric Administration
NSI	NASA Science Internet
NSIDC	National Snow and Ice Data Center

ORNL	Oak Ridge National Laboratory
PLN	Planning
PSCN	Program Support Communication Network
QA	Quality Assurance
RDBMS	Relational Data Base Management System
RMA	Reliability, Maintainability, and Availability
RRR	Release Readiness Review
SCF	Science Computing Facility
SDPS	Science Data Processing Segment
SEO	Sustaining Engineering Organization
SGI	Silicon Graphics
SOW	Statement of Work
SP	Site Preparation
SPR	Science Processing
SSIT	Science Software Integration and Test
TBD	To Be Determined
TL	Team Leader
TM	Team Members
TRMM	Tropical Rainfall Measuring Mission (joint US-Japan)
UPS	Uninterruptible Power Supply
WKS	Working Storage
WAN	Wide Area Network