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# SMC Reporting and Trend Analysis

Lou Swentek

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21 March 1996

# Overview

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## Summary

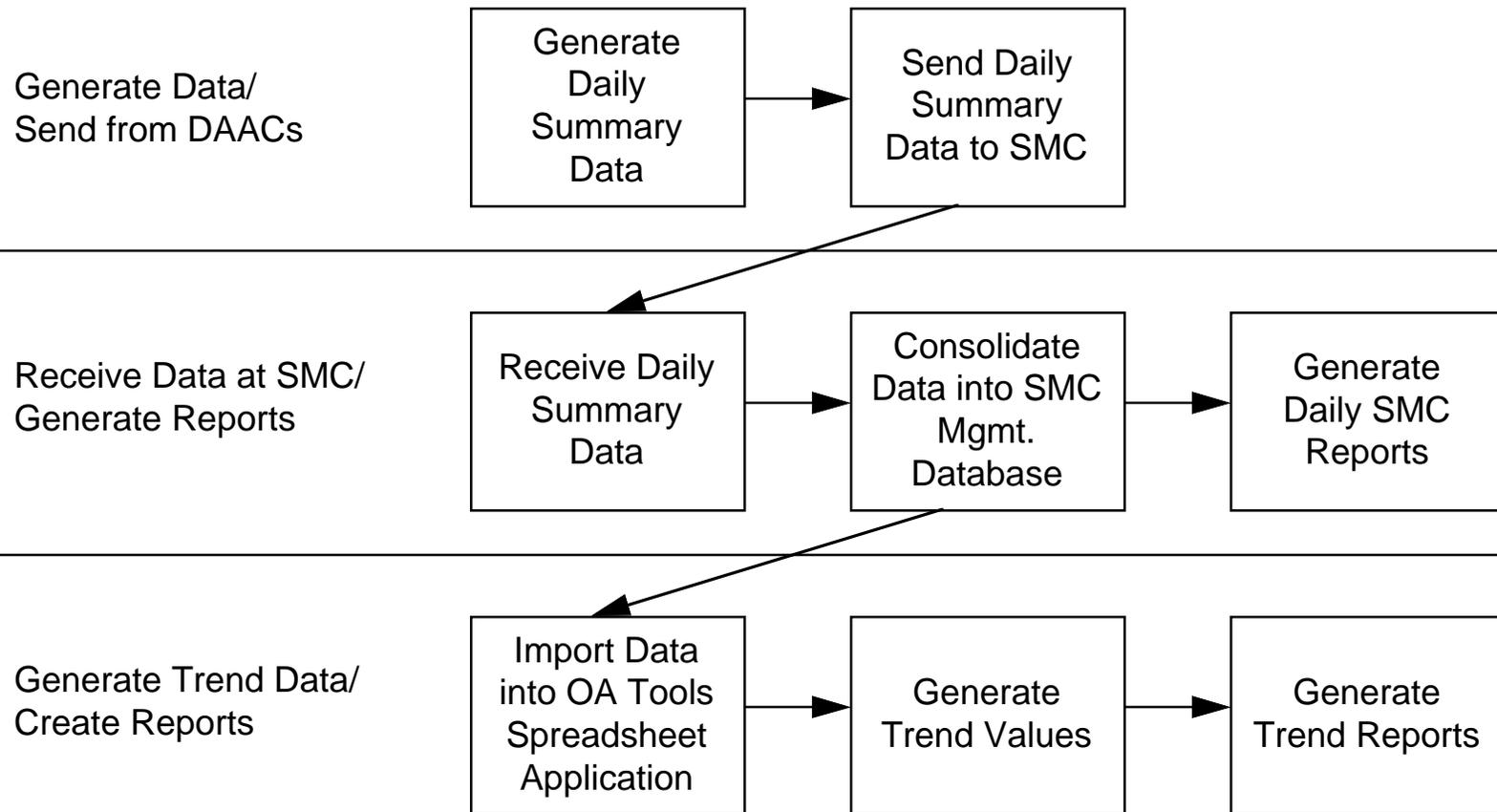
This script depicts the GUIs used to create reports of summarized DAAC management data and performance trend reports by SMC personnel (the summarized DAAC management information will be automatically sent on a periodic basis by each DAAC to the SMC).

## Context

- Save received management data (for each DAAC)
- Import management data to SMC management database
- Run SMC management reports
- Review SMC management reports
- Export management data to file
- Import management data into spreadsheet
- Run spreadsheet trend functions on management data to create forecast data points
- Create graphical representations of trend report (actual and forecast data)
- Save, print, and review trend report



# Script Flow



# Script Details

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## Script

- This script depicts the GUIs used to create reports (both periodic reports and trend reports) of summarized DAAC management data.

## Preconditions

- Management data (summary fault and performance statistics) has already been automatically sent from each DAAC to the SMC for the purposes of generating a daily report.



# Script Details

| STEP # | TIME (min.) | PLAYER                  | ACTIVITY  | GUI   |
|--------|-------------|-------------------------|---|---|
| 1      | 3           | SMC Performance Analyst | The SMC Performance Analyst verifies (from the command line) that daily performance data has been received from all Release A DAACs.  | Opens <u>File Manager</u> application. Views files received in the appropriate directory. |
| 2      | 5           | SMC Performance Analyst | The SMC Performance Analyst imports the received management data into the SMC Management by running an import script (via a desktop icon).  | A <u>Import Data Icon</u> will provided to automatically run the import script.           |
| 3      | 15          | SMC Performance Analyst | The SMC Performance Analyst generates and prints daily management reports from the Management Database using preconfigured report generation script(s) (invoked via desktop icon(s)). | A <u>Report Generation Icon(s)</u> will be provided to run the preconfigured script(s).   |
| 4      | 15          | SMC Performance Analyst | The SMC Performance Analyst reviews the printed management reports for the previous day's activities and summarizes any significant findings for the SMC Manager.                     |   |



# Script Details (cont.)

| STEP # | TIME (min.) | PLAYER                  | ACTIVITY  | GUI  |
|--------|-------------|-------------------------|---|--|
| 5      | 10          | SMC Performance Analyst | Using preconfigured scripts (invoked via desktop icon(s)), the SMC Performance Analyst generates a text file from the SMC Management Database to be used for generating performance trends.             | A <u>Data Export Icon(s)</u> will be provided to run the preconfigured script(s).  |
| 6      | 2           | SMC Performance Analyst | The SMC Performance Analyst opens the Spreadsheet Application in the Office Automation Tools package.   | Opens <u>Spreadsheet Main Screen</u> .   |
| 7      | 2           | SMC Performance Analyst | The SMC Performance Analyst opens the <u>Open File</u> window, selects the text file type, and the actual text file name.   | Opens <u>Open File</u> window. Selects text file type and the file name.   |
| 8      | 3           | SMC Performance Analyst | When the SMC Performance Analyst confirms the selection, the <u>Text File Options</u> screens are automatically opened to select the data type, column delimiter (as required) and column data formats. | Selects "OK" to open file. <u>Text Import Wizard</u> windows are then opened to specify the configuration of the imported text file. |



# Script Details (cont.)

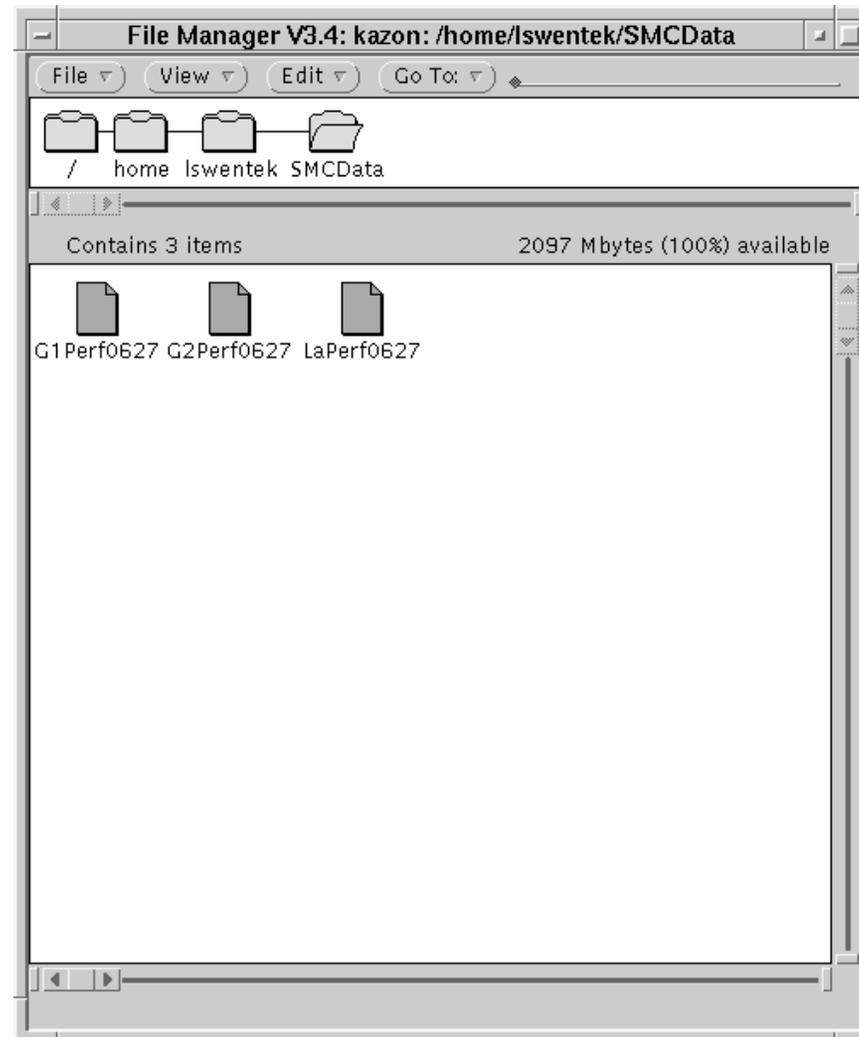
| STEP # | TIME (min.) | PLAYER                  | ACTIVITY   | GUI   |
|--------|-------------|-------------------------|--|---|
| 9      | 1           | SMC Performance Analyst | The SMC Performance Analyst confirms the file selection and opens the file.  | Selects "Finish" from the third <u>Text Import Wizard</u> window to import the text file into the spreadsheet format.   |
| 10     | 5           | SMC Performance Analyst | The SMC Performance Analyst uses the trend function capabilities of the spreadsheet package to predict future values for the first metric in the spreadsheet. A macro may be used to insert these predictions.                 | In the <u>Spreadsheet Main Screen</u> , place cursor beneath the final row of the chart for the first metric. Insert additional rows for each value for which forecast data is to be calculated. Paste the trend function into the blank cells in these rows and reference the cells for which data is provided.  |
| 11     | 2           | SMC Performance Analyst | The SMC Performance Analyst uses the chart icon and subsequent windows to create a graphical representation of the report. A macro (perhaps combined with a macro to cover the previous step) may be used to create the graph. | Generate a chart to the side of the data to graphically depict the actual and forecast data. (Note: If the forecast data is being calculated for a standard length, a macro may be provided to insert the necessary rows and perform the trend function as described in the previous step, and create the appropriate graph as described in this step). |
| 12     | ~35         | SMC Performance Analyst | The SMC Performance Analyst repeats the previous two steps to generate trend values and graphical representations for the remaining metrics in the report.   | Repeat this step and the previous step for each metric in the chart.  |



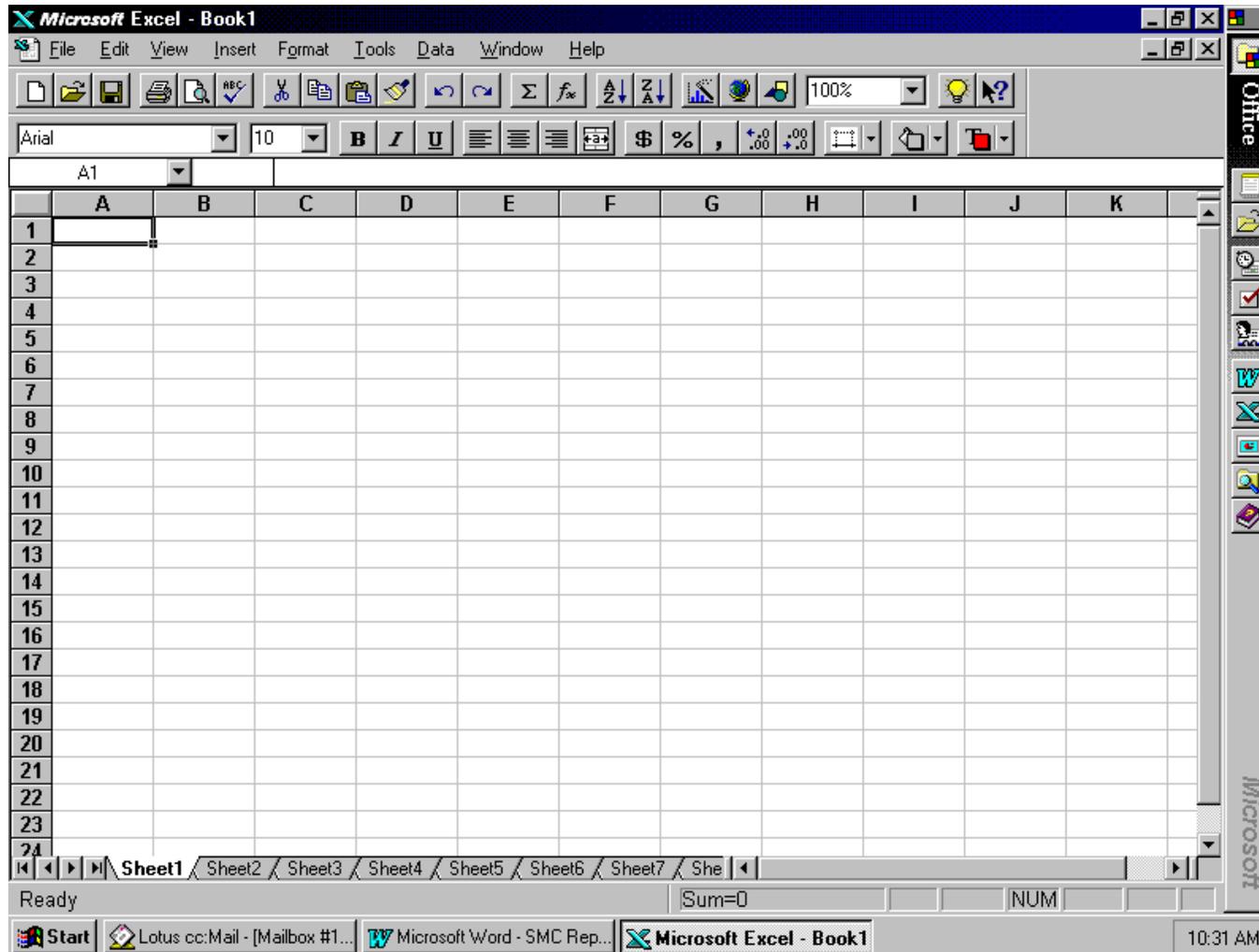
# Script Details (cont.)

| STEP # | TIME (min.) | PLAYER                  | ACTIVITY  | GUI   |
|--------|-------------|-------------------------|---|---|
| 13     | 1           | SMC Performance Analyst | The SMC Performance Analyst saves the generated trend report.   | Save the trend report in the <u>Save File</u> window.         |
| 14     | 1           | SMC Performance Analyst | The SMC Performance Analyst prints the generated trend report.  | Print the trend report using the <u>Print</u> window or icon. |
| 15     | 15          | SMC Performance Analyst | The SMC Performance Analyst reviews the generated trend report and summarizes any significant findings for presentation to the SMC Manager. |   |

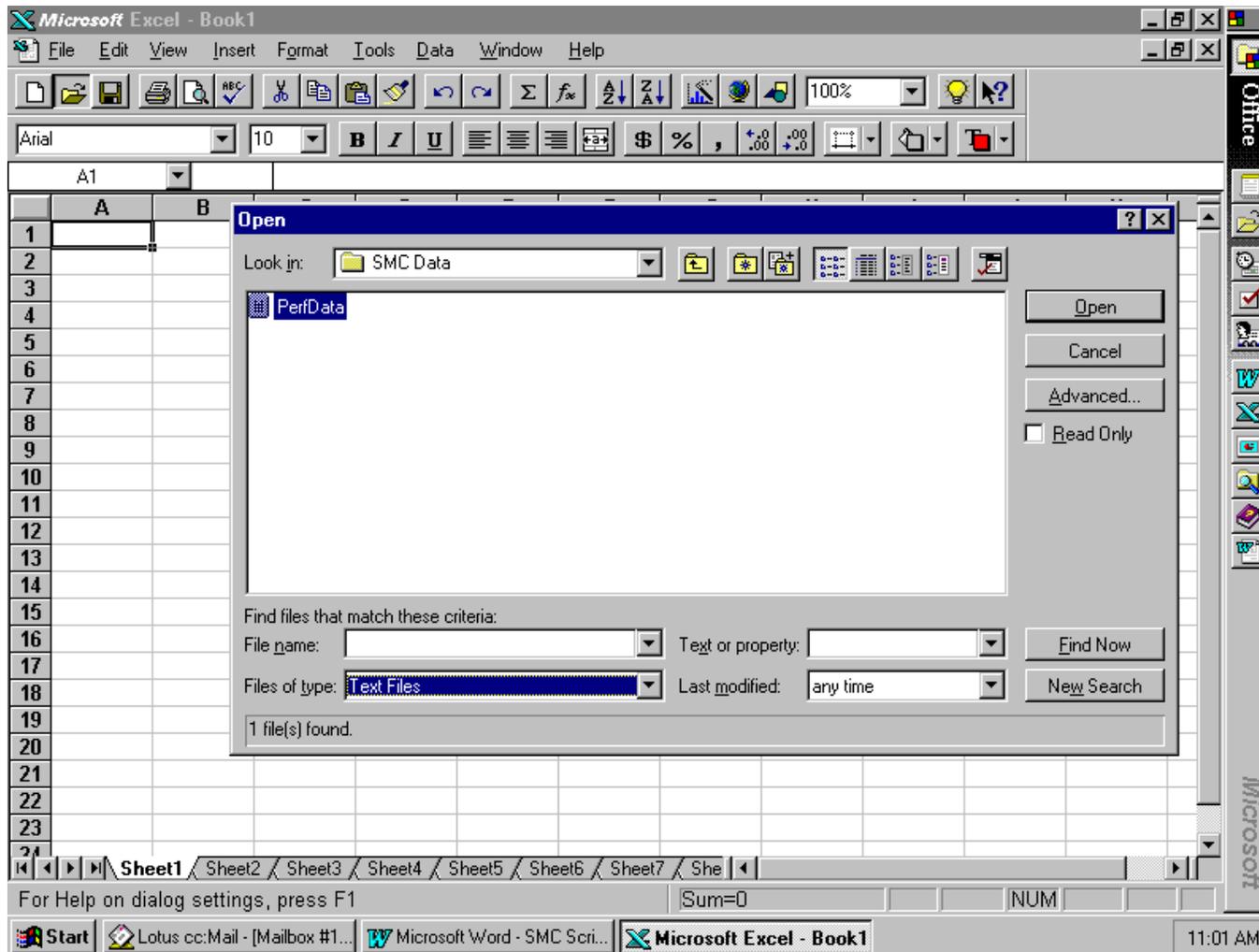
# Screens



# Screens (cont.)



# Screens (cont.)



# Screens (cont.)



The Text Wizard has determined that your data is Delimited.  
If this is correct, choose Next, or choose the Data Type that best describes your data.

Original Data Type  
Choose the file type that best describes your data:

- Delimited - Characters such as commas or tabs separate each field (Excel 4.0 standard).
- Fixed Width - Fields are aligned in columns with spaces between each field.

Start Import at Row: 1 File Origin: Windows (ANSI)

Preview of file C:\SMC Data\PerfData.txt.

| 1 | Week Ending | GSFC1             | GSFC2         | LaRC              |       |    |
|---|-------------|-------------------|---------------|-------------------|-------|----|
| 2 | Date        | Total Ext. MBytes | Input         | Total Ext. MBytes | Input | To |
| 3 | 01/10/97    | 433356.032974     | 786420.682068 | 543920.968411     |       |    |
| 4 | 01/17/97    | 445329.586182     | 796530.589732 | 563285.709385     |       |    |
| 5 | 01/24/97    | 468094.609728     | 800033.720912 | 583720.819054     |       |    |
| 6 | 01/31/97    | 487054.803976     | 803257.329871 | 592832.598071     |       |    |

Buttons: Cancel, < Back, Next >, Finish

# Screens (cont.)



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File Edit View Insert Format Tools Data Window Help

Text Import Wizard - Step 2 of 3

This screen lets you set the delimiters your data contains. You can see how your text is affected in the preview below.

Delimiters

- Tab
- Semicolon
- Comma
- Space
- Other:

Treat consecutive delimiters as one

Text Qualifier: "

Data Preview

| Week Ending | GSFC1                   | GSFC2                 |
|-------------|-------------------------|-----------------------|
| Date        | Total Ext. MBytes Input | Total Ext. MBytes Inp |
| 01/10/97    | 433356.032974           | 786420.682068         |
| 01/17/97    | 445329.586182           | 796530.589732         |
| 01/24/97    | 468094.609728           | 800033.720912         |
| 01/31/97    | 487054.803976           | 803257.329871         |

Cancel < Back Next > Finish

For Help on dialog settings, press F1

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# Screens (cont.)



Text Import Wizard - Step 3 of 3

This screen lets you select each column and set the Data Format.

'General' converts numeric values to numbers, date values to dates, and all remaining values to text.

Column Data Format:

- General
- Text
- Date: MDY
- Do Not Import Column (Skip)

Data Preview

| General     | General                 | General               |
|-------------|-------------------------|-----------------------|
| Week Ending | GSFC1                   | GSFC2                 |
| Date        | Total Ext. MBytes Input | Total Ext. MBytes Inp |
| 01/10/97    | 433356.032974           | 786420.682068         |
| 01/17/97    | 445329.586182           | 796530.589732         |
| 01/24/97    | 468094.609728           | 800033.720912         |
| 01/31/97    | 487054.803976           | 803257.329871         |

Cancel < Back Next > Finish

# Screens (cont.)



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|    | A        | B          | C          | D          | E            | F | G | H | I | J | K |
|----|----------|------------|------------|------------|--------------|---|---|---|---|---|---|
| 1  | Week End | GSFC1      | GSFC2      | LaRC       |              |   |   |   |   |   |   |
| 2  | Date     | Total Ext. | Total Ext. | Total Ext. | MBytes Input |   |   |   |   |   |   |
| 3  | 1/10/97  | 433356     | 786420.7   | 543921     |              |   |   |   |   |   |   |
| 4  | 1/17/97  | 445329.6   | 796530.6   | 563285.7   |              |   |   |   |   |   |   |
| 5  | 1/24/97  | 468094.6   | 800033.7   | 583720.8   |              |   |   |   |   |   |   |
| 6  | 1/31/97  | 487054.8   | 803257.3   | 592832.6   |              |   |   |   |   |   |   |
| 7  | 2/7/97   | 490272.6   | 829020.1   | 610329.1   |              |   |   |   |   |   |   |
| 8  | 2/14/97  | 497809.3   | 838296     | 611305.4   |              |   |   |   |   |   |   |
| 9  | 2/21/97  | 502309.7   | 844981.3   | 611438.9   |              |   |   |   |   |   |   |
| 10 | 2/28/97  | 521806.4   | 847890.2   | 616382.4   |              |   |   |   |   |   |   |
| 11 | 3/7/97   | 524719.2   | 862095.7   | 629182.7   |              |   |   |   |   |   |   |
| 12 | 3/14/97  | 532893.3   | 869206.6   | 632353.6   |              |   |   |   |   |   |   |
| 13 | 3/21/97  | 548915.7   | 875283.3   | 636826.5   |              |   |   |   |   |   |   |
| 14 | 3/28/97  | 549020.2   | 889327.9   | 653480.5   |              |   |   |   |   |   |   |
| 15 | 4/4/97   | 566024.7   | 899302.4   | 654648.9   |              |   |   |   |   |   |   |
| 16 | 4/11/97  | 567590.3   | 900035.7   | 656630.9   |              |   |   |   |   |   |   |
| 17 | 4/18/97  | 569202.4   | 910290.5   | 664837     |              |   |   |   |   |   |   |
| 18 | 4/25/97  | 571036.5   | 920411     | 674089.9   |              |   |   |   |   |   |   |
| 19 | 5/2/97   | 586727     | 940925.1   | 678982.4   |              |   |   |   |   |   |   |
| 20 | 5/9/97   | 588652.9   | 949947.2   | 681398.3   |              |   |   |   |   |   |   |
| 21 | 5/16/97  | 589230.3   | 953289.4   | 689035.8   |              |   |   |   |   |   |   |
| 22 | 5/23/97  | 599291.2   | 956892.4   | 686378.5   |              |   |   |   |   |   |   |
| 23 | 5/30/97  | 600231     | 958896     | 699023.1   |              |   |   |   |   |   |   |
| 24 | 6/6/97   | 600294.7   | 962393.7   | 700238.6   |              |   |   |   |   |   |   |

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# Screens (cont.)



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B28  $\text{=TREND}(\text{known\_y's}, \text{known\_x's}, \text{new\_x's}, \text{const})$

|    | A        | B          | C          | D          | E             | F | G | H | I | J | K |
|----|----------|------------|------------|------------|---------------|---|---|---|---|---|---|
| 20 | 5/9/97   | 588652.9   | 949947.2   | 681398.3   |               |   |   |   |   |   |   |
| 21 | 5/16/97  | 589230.3   | 953289.4   | 688        |               |   |   |   |   |   |   |
| 22 | 5/23/97  | 599291.2   | 956892.4   | 688        |               |   |   |   |   |   |   |
| 23 | 5/30/97  | 600231     | 958896     | 69         |               |   |   |   |   |   |   |
| 24 | 6/6/97   | 600284.7   | 962393.7   | 70         |               |   |   |   |   |   |   |
| 25 | 6/13/97  | 603290.5   | 964679     | 70         |               |   |   |   |   |   |   |
| 26 | 6/20/97  | 612853.7   | 988536.3   | 72         |               |   |   |   |   |   |   |
| 27 | 6/27/97  | 632383.6   | 992358.7   | 72         |               |   |   |   |   |   |   |
| 28 | 7/4/97   | x's,const) |            |            |               |   |   |   |   |   |   |
| 29 | 7/11/97  |            |            |            |               |   |   |   |   |   |   |
| 30 | 7/18/97  |            |            |            |               |   |   |   |   |   |   |
| 31 | 7/25/97  |            |            |            |               |   |   |   |   |   |   |
| 32 | 8/1/97   |            |            |            |               |   |   |   |   |   |   |
| 33 | 8/8/97   |            |            |            |               |   |   |   |   |   |   |
| 34 | 8/15/97  |            |            |            |               |   |   |   |   |   |   |
| 35 | 8/22/97  |            |            |            |               |   |   |   |   |   |   |
| 36 | 8/29/97  |            |            |            |               |   |   |   |   |   |   |
| 37 | 9/5/97   |            |            |            |               |   |   |   |   |   |   |
| 38 | 9/12/97  |            |            |            |               |   |   |   |   |   |   |
| 39 | 9/19/97  |            |            |            |               |   |   |   |   |   |   |
| 40 |          |            |            |            |               |   |   |   |   |   |   |
| 41 | Week End | GSFC1      | GSFC2      | LaRC       |               |   |   |   |   |   |   |
| 42 | Date     | Total Ext. | Total Ext. | Total Ext. | MBytes Output |   |   |   |   |   |   |
| 43 | 1/10/97  | 433256     | 786420.7   | 543921     |               |   |   |   |   |   |   |

Function Wizard - Step 1 of 2

Choose a function and press Next to fill in its arguments.

Function Category: Most Recently Used, All, Financial, Date & Time, Math & Trig, **Statistical**, Lookup & Reference, Database, Text, Logical, Information

Function Name: STDEV, STDEVP, STEYX, TDIST, TINV, **TREND**, TRIMMEAN, TTEST, VAR, VARP, WEIBULL

TREND(known\_y's,known\_x's,new\_x's,const)

Returns values along a linear trend.

Help Cancel < Back Next > Finish

For Help on dialog settings, press F1

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# Screens (cont.)

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A28  $\text{=TREND(D3:D27,A3:A27,A28:A39)}$

|    | A        | B        | C        | D        | E | F | G | H | I | J | K |
|----|----------|----------|----------|----------|---|---|---|---|---|---|---|
| 18 | 4/25/97  | 571036.5 | 920411   | 674089.9 |   |   |   |   |   |   |   |
| 19 | 5/2/97   | 586727   | 940925.1 | 678982.4 |   |   |   |   |   |   |   |
| 20 | 5/9/97   | 588652.9 | 949947.2 | 681398.3 |   |   |   |   |   |   |   |
| 21 | 5/16/97  | 589230.3 | 953289.4 | 689035.8 |   |   |   |   |   |   |   |
| 22 | 5/23/97  | 599291.2 | 956892.4 | 686378.5 |   |   |   |   |   |   |   |
| 23 | 5/30/97  | 600231   | 958896   | 699023.1 |   |   |   |   |   |   |   |
| 24 | 6/6/97   | 600284.7 | 962393.7 | 700238.6 |   |   |   |   |   |   |   |
| 25 | 6/13/97  | 603290.5 | 964679   | 703956.9 |   |   |   |   |   |   |   |
| 26 | 6/20/97  | 612853.7 | 988536.3 | 722914.9 |   |   |   |   |   |   |   |
| 27 | 6/27/97  | 632383.6 | 992358.7 | 724168.7 |   |   |   |   |   |   |   |
| 28 | 7/4/97   | 642230.4 | 1006022  | A28:A39  |   |   |   |   |   |   |   |
| 29 | 7/11/97  | 647105.6 | 1014360  |          |   |   |   |   |   |   |   |
| 30 | 7/18/97  | 651749.6 | 1022746  |          |   |   |   |   |   |   |   |
| 31 | 7/25/97  | 657167.7 | 1030611  |          |   |   |   |   |   |   |   |
| 32 | 8/1/97   | 663322.6 | 1037798  |          |   |   |   |   |   |   |   |
| 33 | 8/8/97   | 669050.8 | 1046180  |          |   |   |   |   |   |   |   |
| 34 | 8/15/97  | 674643.3 | 1054649  |          |   |   |   |   |   |   |   |
| 35 | 8/22/97  | 679823.2 | 1062997  |          |   |   |   |   |   |   |   |
| 36 | 8/29/97  | 685863.2 | 1070845  |          |   |   |   |   |   |   |   |
| 37 | 9/5/97   | 691551.6 | 1079077  |          |   |   |   |   |   |   |   |
| 38 | 9/12/97  | 697274.5 | 1087178  |          |   |   |   |   |   |   |   |
| 39 | 9/19/97  | 703768.4 | 1095023  |          |   |   |   |   |   |   |   |
| 40 |          |          |          |          |   |   |   |   |   |   |   |
| 41 | Week End | GSEC1    | GSEC2    | LoRC     |   |   |   |   |   |   |   |

Function Wizard - Step 2 of 2

**TREND** Value: {733826.646912802;7}

Returns values along a linear trend.

**New\_x's (optional)**  
are new x-values for which you want TREND to return corresponding y-values.

known\_y's {D3:D27} {543920.968411;}

known\_x's {A3:A27} {35440;35447;35}

new\_x's {A28:A39} {35615;35622;35}

const { }

Help Cancel < Back Next > Finish

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# Screens (cont.)



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A1 =TREND(D3:D27,A3:A27,A28:A39)

|    | A        | B          | C          | D            | E | F | G | H | I | J | K |
|----|----------|------------|------------|--------------|---|---|---|---|---|---|---|
| 30 | 7/18/97  | 651749.6   | 1022746    | 742637.7     |   |   |   |   |   |   |   |
| 31 | 7/25/97  | 657167.7   | 1030611    | 748135       |   |   |   |   |   |   |   |
| 32 | 8/1/97   | 663322.6   | 1037798    | 753742.7     |   |   |   |   |   |   |   |
| 33 | 8/8/97   | 669050.8   | 1046180    | 760269.4     |   |   |   |   |   |   |   |
| 34 | 8/15/97  | 674643.3   | 1054649    | 766494       |   |   |   |   |   |   |   |
| 35 | 8/22/97  | 679823.2   | 1062997    | 772237       |   |   |   |   |   |   |   |
| 36 | 8/29/97  | 685863.2   | 1070845    | 777793.2     |   |   |   |   |   |   |   |
| 37 | 9/5/97   | 691551.6   | 1079077    | 783831.9     |   |   |   |   |   |   |   |
| 38 | 9/12/97  | 697274.5   | 1087178    | 789636       |   |   |   |   |   |   |   |
| 39 | 9/19/97  | 703768.4   | 1095023    | 795256.6     |   |   |   |   |   |   |   |
| 40 |          |            |            |              |   |   |   |   |   |   |   |
| 41 | Week End | GSFC1      | GSFC2      | LaRC         |   |   |   |   |   |   |   |
| 42 | Date     | Total Ext. | Total Ext. | Total Ext. M |   |   |   |   |   |   |   |
| 43 | 1/10/97  | 433356     | 786420.7   | 543921       |   |   |   |   |   |   |   |
| 44 | 1/17/97  | 445329.6   | 796530.6   | 563285.7     |   |   |   |   |   |   |   |
| 45 | 1/24/97  | 468094.6   | 800033.7   | 583720.8     |   |   |   |   |   |   |   |
| 46 | 1/31/97  | 487054.8   | 803257.3   | 592832.6     |   |   |   |   |   |   |   |
| 47 | 2/7/97   | 490272.6   | 829020.1   | 610329.1     |   |   |   |   |   |   |   |
| 48 | 2/14/97  | 497809.3   | 838296     | 611305.4     |   |   |   |   |   |   |   |
| 49 | 2/21/97  | 502309.7   | 844981.3   | 611438.9     |   |   |   |   |   |   |   |
| 50 | 2/28/97  | 521806.4   | 847890.2   | 616382.4     |   |   |   |   |   |   |   |
| 51 | 3/7/97   | 524719.2   | 862095.7   | 629182.7     |   |   |   |   |   |   |   |
| 52 | 3/14/97  | 532893.3   | 869206.6   | 632353.6     |   |   |   |   |   |   |   |
| 53 | 3/21/97  | 548915.7   | 875283.3   | 636826.5     |   |   |   |   |   |   |   |

ChartWizard - Step 1 of 5

If the selected cells do not contain the data you wish to chart, select a new range now.

Include the cells containing row and column labels if you want those labels to appear on the chart.

Range: =\$A\$1:\$D\$39

Cancel < Back Next > Finish

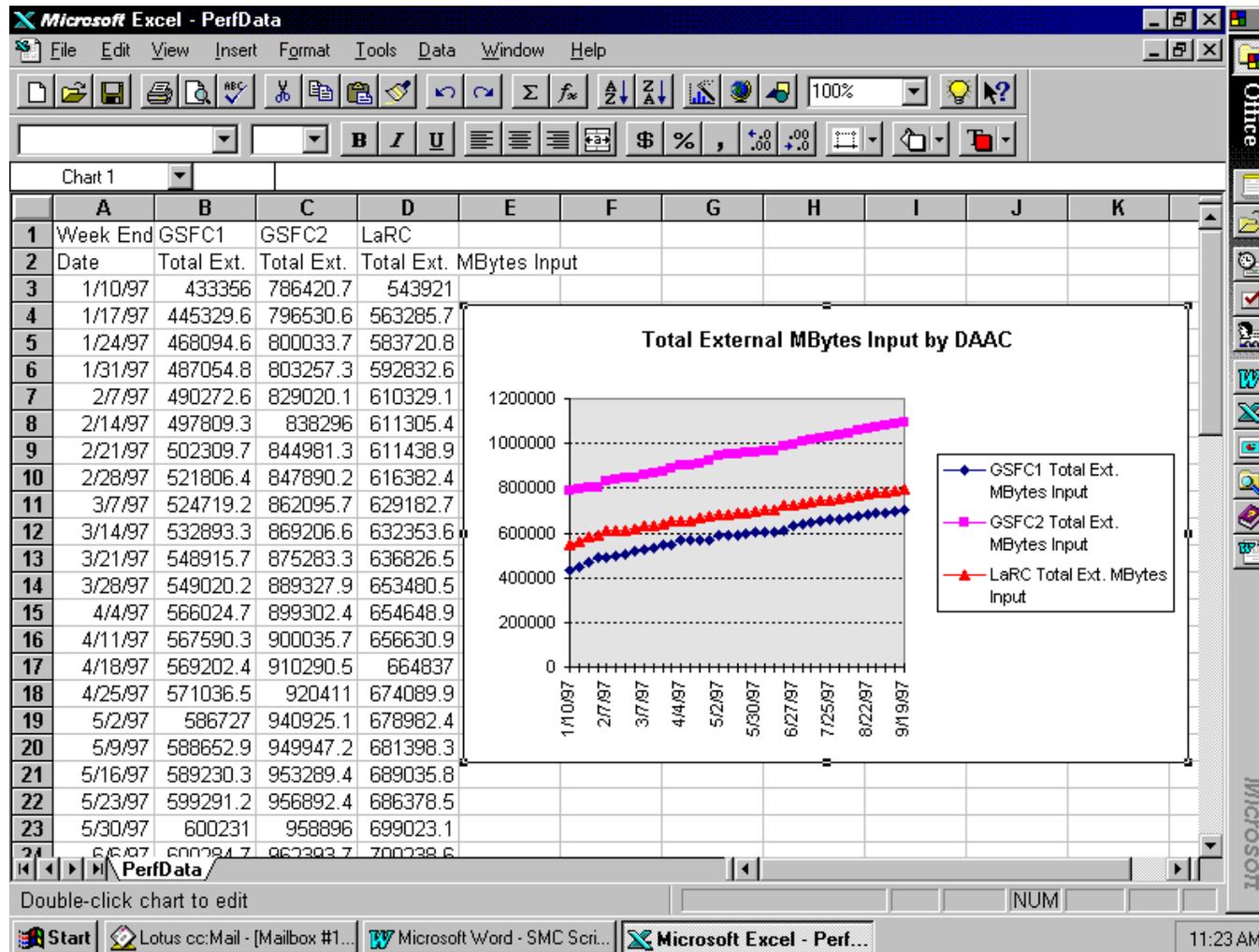
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# Screens (cont.)



# Screens (cont.)



Microsoft Excel - PerfData

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Chart 1

|    | A        | B          | C          | D          | E            | F | G | H | I | J | K |
|----|----------|------------|------------|------------|--------------|---|---|---|---|---|---|
| 1  | Week End | GSFC1      | GSFC2      | LaRC       |              |   |   |   |   |   |   |
| 2  | Date     | Total Ext. | Total Ext. | Total Ext. | MBytes Input |   |   |   |   |   |   |
| 3  | 1/10/97  | 433356     | 786420.7   | 543921     |              |   |   |   |   |   |   |
| 4  | 1/17/97  | 4453       |            |            |              |   |   |   |   |   |   |
| 5  | 1/24/97  | 4680       |            |            |              |   |   |   |   |   |   |
| 6  | 1/31/97  | 4870       |            |            |              |   |   |   |   |   |   |
| 7  | 2/7/97   | 4902       |            |            |              |   |   |   |   |   |   |
| 8  | 2/14/97  | 4978       |            |            |              |   |   |   |   |   |   |
| 9  | 2/21/97  | 5023       |            |            |              |   |   |   |   |   |   |
| 10 | 2/28/97  | 5218       |            |            |              |   |   |   |   |   |   |
| 11 | 3/7/97   | 5247       |            |            |              |   |   |   |   |   |   |
| 12 | 3/14/97  | 5328       |            |            |              |   |   |   |   |   |   |
| 13 | 3/21/97  | 5489       |            |            |              |   |   |   |   |   |   |
| 14 | 3/28/97  | 5490       |            |            |              |   |   |   |   |   |   |
| 15 | 4/4/97   | 5660       |            |            |              |   |   |   |   |   |   |
| 16 | 4/11/97  | 5675       |            |            |              |   |   |   |   |   |   |
| 17 | 4/18/97  | 5692       |            |            |              |   |   |   |   |   |   |
| 18 | 4/25/97  | 5710       |            |            |              |   |   |   |   |   |   |
| 19 | 5/2/97   | 586        |            |            |              |   |   |   |   |   |   |
| 20 | 5/9/97   | 5886       |            |            |              |   |   |   |   |   |   |
| 21 | 5/16/97  | 589230.3   | 953289.4   | 689035.8   |              |   |   |   |   |   |   |
| 22 | 5/23/97  | 599291.2   | 956892.4   | 686378.5   |              |   |   |   |   |   |   |
| 23 | 5/30/97  | 600231     | 958896     | 699023.1   |              |   |   |   |   |   |   |
| 24 | 6/6/97   | 600284.7   | 962393.7   | 700238.6   |              |   |   |   |   |   |   |

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Chart 1

|    | A        | B          | C          | D          | E            | F | G | H | I | J | K |
|----|----------|------------|------------|------------|--------------|---|---|---|---|---|---|
| 1  | Week End | GSFC1      | GSFC2      | LaRC       |              |   |   |   |   |   |   |
| 2  | Date     | Total Ext. | Total Ext. | Total Ext. | MBytes Input |   |   |   |   |   |   |
| 3  | 1/10/97  | 433356     | 7864       |            |              |   |   |   |   |   |   |
| 4  | 1/17/97  | 445329.6   | 7965       |            |              |   |   |   |   |   |   |
| 5  | 1/24/97  | 468094.6   | 8000       |            |              |   |   |   |   |   |   |
| 6  | 1/31/97  | 487054.8   | 8032       |            |              |   |   |   |   |   |   |
| 7  | 2/7/97   | 490272.6   | 8290       |            |              |   |   |   |   |   |   |
| 8  | 2/14/97  | 497809.3   | 836        |            |              |   |   |   |   |   |   |
| 9  | 2/21/97  | 502309.7   | 8449       |            |              |   |   |   |   |   |   |
| 10 | 2/28/97  | 521806.4   | 8478       |            |              |   |   |   |   |   |   |
| 11 | 3/7/97   | 524719.2   | 8620       |            |              |   |   |   |   |   |   |
| 12 | 3/14/97  | 532893.3   | 8692       |            |              |   |   |   |   |   |   |
| 13 | 3/21/97  | 548915.7   | 8752       |            |              |   |   |   |   |   |   |
| 14 | 3/28/97  | 549020.2   | 8893       |            |              |   |   |   |   |   |   |
| 15 | 4/4/97   | 566024.7   | 8993       |            |              |   |   |   |   |   |   |
| 16 | 4/11/97  | 567590.3   | 9000       |            |              |   |   |   |   |   |   |
| 17 | 4/18/97  | 569202.4   | 9102       |            |              |   |   |   |   |   |   |
| 18 | 4/25/97  | 571036.5   | 920        |            |              |   |   |   |   |   |   |
| 19 | 5/2/97   | 586727     | 9409       |            |              |   |   |   |   |   |   |
| 20 | 5/9/97   | 588652.9   | 9499       |            |              |   |   |   |   |   |   |
| 21 | 5/16/97  | 589230.3   | 9532       |            |              |   |   |   |   |   |   |
| 22 | 5/23/97  | 599291.2   | 956892.4   | 686378.5   |              |   |   |   |   |   |   |
| 23 | 5/30/97  | 600231     | 958896     | 699023.1   |              |   |   |   |   |   |   |
| 24 | 6/6/97   | 600284.7   | 962393.7   | 700238.6   |              |   |   |   |   |   |   |

Print dialog box:

Printer: Starfish

Name: Starfish

Status: Idle

Type: HP LaserJet 4Si/4SiMX PS

Where: \\Ecs-rogue3\starfish-dos

Comment:  Print to file

Print What:

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