

## Appendix D

# PFS Files

## Understanding PFS Files

PlotWorks Flexible Submission (PFS) files are ASCII text files used as order forms (electronic job tickets) for print jobs. PFS files use a set of keywords to specify PlotWorks printing parameters. PFS files can be created using any program that can produce ASCII text. You can use an existing program, such as a spreadsheet or word processor, or you can create your own custom interface. See “Sample User Interfaces” on page D-44.

When PlotWorks is installed, a DEFAULT.PFS file is placed in the PlotWorks/Param directory. Open this file in Windows Notepad to view it. It can be used as a template for creating custom PFS files.

## PlotWorks Network Polling

PlotWorks accepts PFS files through Mode 3 of its Network Polling program. Network Polling also uses PFS files for setting directory-level default parameters in Modes 1 and 3.

The Network Polling program is used to create a set of directories to receive jobs submitted over local or wide area networks (LANs or WANs). These directories, called “target directories,” can reside on the PlotWorks Print Server (Hub) or on any network drive.

Network Polling polls target directories in four different modes. The following two modes use PFS files:

- **Mode 1** polls directories for individual image files. The images are printed according to the parameters contained in a directory-level PFS file.
  - **Mode 3** polls directories for PFS files. These PFS files can contain all of the information needed to print a job. However, default PFS files can be used to fill in any information that is omitted from the incoming job, or to lock parameters against changes from the remote user (See “Locking Parameters” on page D-39). The software also copies the original PFS file into the Job Queue as “Submitted.PFS”.
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- **Mode 5** polls directories for JOB files. These files can contain all of the information needed to print a job. However, default PFS files can be used to fill in any information that is omitted from the incoming job, or to lock parameters against changes from the remote user (See “Locking Parameters” on page D-39). The software also copies the original PFS file into the Job Queue as “Submitted.PFS”.



*For more information on the Network Polling modes, refer to the Network Polling Help file included with your software.*

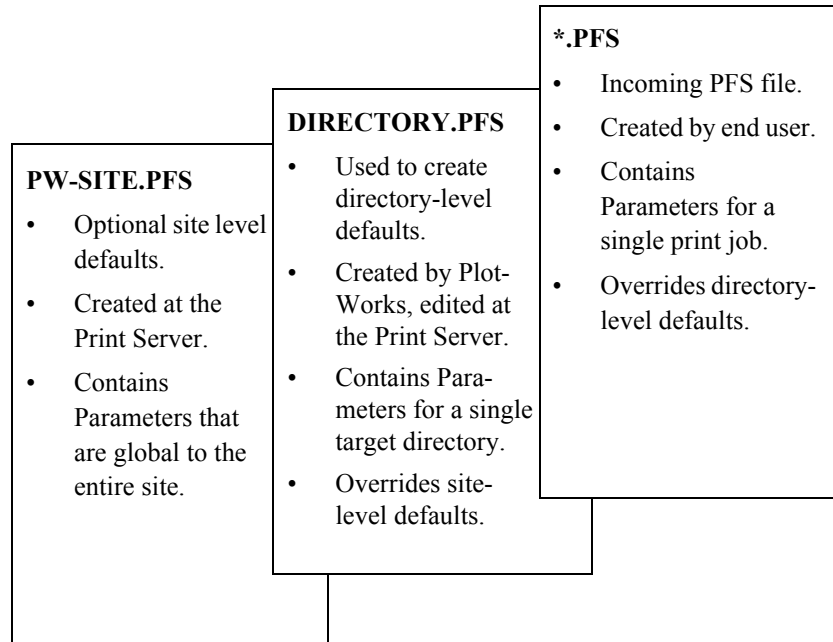
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When the Network Polling program finds jobs in a target directory, it sends them to a Job Queue for automatic processing and printing. PlotWorks processes print jobs based on the parameters set in the PFS files.

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## PFS File Types

*Fig D.1 P  
FS File  
Hierarchy*



There are three types of PFS files used. They are:

- **Site Level**

Site level PFS files are optional files that provide defaults for all target directories in your site. These are the lowest level of PFS file and will be overridden by the other PFS files unless locked. See “Locking Parameters” on page D-39.

- **Directory Level**

Directory level (parameter) PFS files are directory-specific. The directory PFS file is used to fill in parameters omitted from incoming PFS files, and to lock certain parameters so that they cannot be changed by the end user. See “Locking Parameters” on page D-39. Directory level PFS files override site level PFS files. PlotWorks copies the original PFS file into the Job Queue as “Submitted.PFS”. The converted PFS file created from the directory-level PFS is saved as [Queue Name].PFS.

- **Incoming PFS**

Incoming PFS files are created by end users and contain parameters for a single print job. Incoming PFS files will override directory-level default PFS files and site-level PFS files, except for locked parameters. “Locking Parameters” on page D-39.

## Directory-level Defaults

Each Mode 1 and Mode 3 target directory uses a directory-specific PFS file to set default printing parameters. In Mode 3, the directory PFS file serves two purposes: to fill in parameters that are omitted from incoming PFS files, and to lock certain parameters so that they cannot be changed by the end user. See “Locking Parameters” on page D-39.

When you run Network Polling for the first time, PlotWorks creates a PARAM subdirectory inside the program directory. This subdirectory contains a file called DEFAULT.PFS. The DEFAULT.PFS file is your master PFS file.

Whenever you create a target directory, PlotWorks makes a copy of the DEFAULT.PFS to use as the directory PFS file. You can make changes to the directory PFS file without changing the original master file.

### To access a directory parameter (PFS) file:

1. In the Network Polling window, select the directory that you want to modify.
2. Click on the **Params** button. The PFS file will open in Notepad.



To access the master PFS file from the Network Polling program, open the **Setup** menu and select **Edit Default PFS File**.

If you change the default PFS file, all target directories that you create in the future will reflect the changes.

Incoming PFS files will overwrite the parameters in the directory parameter file, unless the parameters are locked. If any parameters are omitted from the incoming PFS file, they will be filled in with the values specified in the directory-level default.

## Site-level Defaults

You can create an optional site-level PFS file in addition to the directory-level defaults. This file will provide defaults for all target directories. The directory-level defaults will overwrite the site-level defaults, unless the site-level parameters are locked. See “Locking Parameters” on page D-39.

### To create a site-level PFS file:

1. Using Notepad, create a PFS file with the desired default parameters.
  2. Save the file as **PW-SITE.PFS** in the PARAM subdirectory.
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## PFS File Layout

Each section of a PFS file begins with the section type enclosed in square brackets. For example: [JOB]. Most PFS files (except for Mode 1) contain a JOB section and one or more FILE sections. These sections contain the keywords and values that define your printing parameters.

### JOB section

The JOB section is the first section of the PFS file. PFS keywords specified in the JOB section are used to specify printing parameters that are applied to every file in the print job.

### FILE section

The second type of section is the FILE section. You must create a separate FILE section for each file being printed. FILE sections within a job are differentiated by numbers (FILE.1, FILE.2, FILE.3, etc.) that represent individual files. Parameters defined in the FILE section apply only to that image.

When the same keyword appears in both a FILE section and the JOB section, the FILE values will override the JOB values *for that particular file*.

### Keywords and Values

In PFS files, printing parameters are specified using a keyword followed by an equal sign (=) and a value or set of values. For example:

#### Quantity=2

The keyword “Quantity” signals that you are defining the quantity of copies to print. The value “2” tells PlotWorks to print two copies.

A small PFS file might look like this:

[JOB]

Contact=Joe Soap

Quantity=3

[FILE.1]

FileName=HOUSE.PLT

FinalSize=D

[FILE.2]

FileName=SHOP.PLT

This PFS file tells PlotWorks to print three D-size copies of HOUSE.PLT and three E-size copies of SHOP.PLT.

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**FinalSize=E**

Text in a PFS file is not case-sensitive (i.e., **pen** is the same as **PEN**). PlotWorks ignores space and tab characters in PFS files as well as empty lines. Any text following a semi-colon (;) up until the end of a line is considered a comment and is also ignored by PlotWorks.

When you finish entering a keyword and its values, you must enter a carriage return before starting the next keyword. *Do not use spaces or the arrow keys to get to the next line.*

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## Defining Parameters

The table on the following pages describes the acceptable PFS file keywords and values, organized by the types of information they provide.

### How to Use this Section

As you go through this guide, information that you should type appears in **Courier** type. Plain text describes the *kind* of information to enter. This guide describes acceptable values in several ways:

- Sometimes you can choose from a list of values to enter. For example:

**SizeUnits=inches, cm or mm**

For this field, you can set the units to *any one* of the values listed. For example, you might type: **SizeUnits=mm**

- Sometimes you will see a description of the information you should enter. For example:

**Filename=**Name of an individual image file

For this field you might type:

**Filename=HOUSE.DWG**

- Some keywords require you to enter more than one value. For example:

**Pen=**Number range, width, end style, pattern number, type, color

For this field, you should enter all of the values requested, separated by commas. *If you skip one of these values, you must mark the field by entering a set of commas. Otherwise all subsequent parameters will be offset.* For example, you might type:

**Pen=all,5,RO,OP,140**

to skip the pattern number. If no commas are entered, PlotWorks will read **OP** (the pen type) as the pattern setting, which is invalid.

- Unless otherwise specified, any mentions of **X,Y** are referring to **width** and **height**.
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## Parameter Setting Requirements

You must specify your units of measure before entering measurement values (such as final size or pen width). If you use a measurement value without specifying a unit of measure, the default is used. .

### Pen Data

You must specify your Pen Units before entering any Pen Width values. If you do not specify a Pen Unit value, the width will default to 10 mils. Include the PenUnit= parameter in the PFS before entering the Pen= parameter.

**Example:**

**[JOB]**

**PenUnits=mm**

**Pen=all,25,RO,OP,140**

### Size Data

You must specify your measurement units before entering “User-specified” size and offset values. If you enter a size without specifying a unit of measure, the value will default to inches.

**Example:**

**[JOB]**

**SizeUnits=mm**

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## Keywords by Category



*Alias keywords can be used interchangeably with regular keywords.*

Keyword	Alias	Section	Description/ Parameters
<b>Administrative Information</b>			
<b>Account=</b>		JOB	Account number/name
<b>Project=</b>		JOB	Project name
<b>Contact=</b>		JOB	Contact person
<b>Phone=</b>		JOB	Contact person's phone number
<b>Comment=</b>		JOB	Comments
<b>Company=</b>		JOB	Company name
<b>Address1=</b>	Address=	JOB	Street address
<b>Address2=</b>	City=	JOB	City
<b>Address3=</b>	State=	JOB	State or province
<b>Address4=</b>	Zip= Postcode=	JOB	Zip or postal code
<b>Address5=</b>	Country=	JOB	Country name
<b>ReceiptEmail=</b>		JOB	This email address is to notify remote job submitters an acknowledgment that their job is received. This email address will display in the Job Queue, "Submitted By" column.

Keyword	Alias	Section	Description/ Parameters
<b>ErrorEmail=</b>		JOB	This email address is used to notify remote job submitters that a printing or processing error occurred. PLP recommends that long e-mail, or multiple e-mails not be used. Long e-mails will over write the contact information in the Job Queue.
<b>PrintedEmail=</b>		JOB	This email address is used to notify remote job submitters that their job has completed printing. PLP recommends that long e-mail, or multiple e-mails not be used. Long e-mails will over write the contact information in the Job Queue.
<b>Job Control</b>			
<b>Filename=</b>	Name=	FILE	Enter the name of the image file
<b>Directory=</b>		JOB/FILE	Defines the default directory for all files in this job. Specifying directory does not cause the file to be deleted from the specified directory. Only those files placed in the Mode 3 target polling directory are deleted when the job is created.
<b>SizeUnits=</b>		JOB	Sets the units of measure. Use <b>Inches</b> (default), <b>cm</b> or <b>mm</b> .

Keyword	Alias	Section	Description/ Parameters
<b>Sets=</b>		JOB	Number of sets to print (default = 1), up to 9999 (do not use a comma in large numbers). Example: <b>Sets=1250</b> .
<b>Quantity=</b>		JOB/FILE	Number of copies to print, up to 99 (default = 1). Enter <b>X</b> or <b>0</b> for overlay files or to skip files.
<b>PageRange=range</b>		JOB/FILE	Selects the range of pages (in a multipage document) to print. Use <b>All</b> (default) or <b>n-n</b> . Example: <b>PageRange=5-7</b>
<b>Media=</b>		JOB/FILE	<b>None</b> , <b>Bond</b> (default), <b>Vellum</b> (or <b>Vllm</b> ), <b>Translucent</b> (or <b>Tbnd</b> ), and <b>Film</b>
<b>Job Control (continued)</b>			
<b>Size=</b>		JOB/FILE	Enter the actual sheet size: <b>Auto Detected</b> (default), <b>A0</b> , <b>A0-P</b> , <b>A1</b> , <b>A2</b> , <b>A3</b> , <b>A4</b> , <b>A</b> , <b>A-P</b> , <b>B</b> , <b>B-Arch</b> , <b>B1</b> , <b>B1-P</b> , <b>C</b> , <b>C-Arch</b> , <b>D</b> , <b>D1</b> , <b>D1-P</b> , <b>E</b> , <b>E-P</b> , <b>E1</b> , <b>E1-P</b> , <b>E2</b> , <b>E2-P</b> , or <b>User Specified*</b>  * Calls for extra parameters: <b>Size=User Specified</b> , width, height, X offset, Y offset (using specified SizeUnits)

Keyword	Alias	Section	Description/ Parameters
<b>FinalSize=</b>		JOB/FILE	Enter desired output size: <b>Percent*</b> (default), <b>User Specified**</b> , <b>Auto-Standard</b> , <b>A0, A0-P, A1, A2, A3, A4, A4-P, A, A-P, B1, B1-P, B, B-Arch, C, C-Arch, D, D1, D1-P, E, E-P, E1, E1-P, E2, E2-P</b> <b>*FinalSize=Percent</b> , percent to scale by <b>**FinalSize=User Specified</b> , width, height (using specified SizeUnits)
<b>EnableMediaSize=</b>		JOB/FILE	If FinalSize is set to Percent, enables specification of a final media size. Enter <b>Yes</b> or <b>No</b> (default)

Keyword	Alias	Section	Description/ Parameters
<b>Job Control (continued)</b>			
MediaSize= <b>X,Y</b>		JOB/FILE	If EnableMediaSize equals Yes, this specifies the final media size (in current SizeUnits).
<b>Format=</b>  <b>Auto-detected</b> (default)  <b>ACAD</b> , units, removehidden- lines, reverse- zorder  <b>DXF</b> , units, removehidden- lines, reverse- zorder  <b>DWF</b> , dwf_resolution, dwf_auto_resolut ion, dwf_minimum _pen_width, dwf_password  <b>HPGL</b> , origin, resolution		JOB/FILE	Print data format; choose one:  For automatic detection  <b>Imperial</b> (inches) or <b>metric</b> (cm, mm), removes lines (behind another plane) from a 3-D rendering ( <b>Yes</b> or <b>No</b> ), prints XREF files first ( <b>Yes</b> or <b>No</b> )  <b>Imperial</b> (inches) or <b>metric</b> (cm, mm), removes lines (behind another plane) from a 3-D rendering ( <b>Yes</b> or <b>No</b> ), prints XREF files first ( <b>Yes</b> or <b>No</b> )  For dwf_auto_resolution, select <b>Yes</b> or <b>No</b> . Passwords for DWF files are entered as part of the FORMAT keyword.  Select <b>lower-left</b> or <b>center</b> origin, enter a plot coordinate resolution

Keyword	Alias	Section	Description/ Parameters
<b>Job Control (con- tinued)</b>			
<b>HPGL/2</b> , resolution			Enter a plot coordinate resolution
<b>CCMP</b> , step size, sync code, num syncs, eom, checksum			(for CalComp 90x) Enter step size, sync code, num syncs ( <b>single</b> or <b>double</b> ), eom (end of message), checksum ( <b>Yes</b> or <b>No</b> )
<b>CALS</b>			For CCITT Group 4 raster with CALS-type 1 header
<b>BMP</b>			For BMP Files
<b>DCX</b>			For DCX Files
<b>JPG</b>			For JPG Files
<b>XIF</b>			For XIF Files
<b>PCX</b>			For PCX Files
<b>VIC</b>			For VIC Files
<b>TIFF</b>			For TIFF Files
<b>CGM</b>			Computer Graphics Metafile format
<b>VRF</b>			For Versatec random format ( <b>Note:</b> PenMacro= defaults to 'PW' with this format)

Keyword	Alias	Section	Description/ Parameters
<b>Job Control (continued)</b>			
<b>Format=</b>  <b>PDF</b> , resolution, auto resolution yes/no  <b>Postscript</b> , resolution, auto resolution yes/no, auto show page yes/no  <b>DGN</b> , resolution  DGN processing options (listed below):		JOB/FILE	Enter a rasterization resolution or enter <b>Yes</b> to automatically determine a rasterization resolution of the file. Format=PDF,200,No  Enter a rasterization resolution or <b>Yes</b> to automatically determine a rasterization resolution of the file. Enter <b>Yes</b> or <b>No</b> to enable or disable automatically adding a Postscript “show page” if it seems to be missing. Sample: Postscript,200,No,Yes  For MicroStation file format. Enter a plot coordinate resolution.  Enter one of three values: <b>On</b> , <b>Off</b> or <b>As-Is</b> (default)  Example: <b>DGNCamera=As-Is</b>
<b>DGNCamera=</b>			Enable or disable processing of DGN camera settings.
<b>DGN processing options</b> , cont.  <b>DGNConstructions=</b>		JOB/FILE	Enable or disable processing of DGN constructions.

Keyword	Alias	Section	Description/ Parameters
<b>Job Control (con- tinued)</b>			
<b>DGN- DataFields=</b>			Enable or disable processing of DGN text placeholders.
<b>DGNDimen- sions=</b>			Enable or disable processing of DGN dimension labels.
<b>DGNFastCells=</b>			Enable or disable processing of DGN Fast Cells.
<b>DGNFast- Curves=</b>			Enable or disable processing of DGN Fast Curves.
<b>DGNFastFont=</b>			Enable or disable processing of DGN Fast Fonts.
<b>DGNFastRef- Clipping=</b>			Enable or disable processing of DGN Fast RefClipping.
<b>DGNFence- Boundary=</b>			Enable or disable processing of DGN Fences.
<b>DGNFill=</b>			Enable or disable processing of DGN Fills.
<b>DGNLevelSym- bology=</b>			Enable or disable processing of DGN symbology.
<b>DGNLine- Styles=</b>			Enable or disable processing of DGN line styles.
<b>DGNLine- Weights=</b>			Enable or disable processing of DGN line weights.
<b>DGNPatterns=</b>			Enable or disable processing of DGN patterns.
<b>DGNPlotBor- der=</b>			Enable or disable processing of DGN plot borders.



Keyword	Alias	Section	Description/ Parameters
<b>Job Control (continued)</b>			
<b>DGNRef-Boundaries=</b>			Enable or disable processing boundaries of a displayed reference file.
<b>DGNTags=</b>			Enable or disable processing of DGN tags.
<b>DGNText=</b>			Enable or disable processing of DGN text elements
<b>DGNText-Nodes=</b>			Enable or disable processing of DGN multiline text elements.
<b>OutputQualityLevel=</b>		JOB/FILE	Defines the output quality for some printers: <b>Best</b> , <b>Normal</b> (default), <b>Draft</b> . For Postscript and PDF, this keyword factors into determining a rasterization resolution when auto resolution is set to yes.
<b>Mirror=</b>		JOB/FILE	Mirror the image? Enter <b>Yes</b> or <b>No</b> (default).
<b>ReversePrint=</b>		JOB/FILE	Reverse the print order? <b>Yes</b> or <b>No</b> (default). This is desirable for printers which eject printed pages facedown.
<b>BottomEdge=</b>		JOB/FILE	Tells PlotWorks which edge of the image (as seen from the Viewer) will be used as the bottom. Can be <b>Left</b> , <b>Right</b> , <b>Bottom</b> (default), <b>Top</b> .

Keyword	Alias	Section	Description/ Parameters
<b>Job Control (continued)</b>			
<b>RemoveBorders=</b>		JOB	Remove trim line borders from prints? <b>Yes</b> or <b>No</b> (default).
<b>OperatorHold=</b>		JOB	Allows users to submit jobs to the queue on hold. Set this value to either <b>Yes</b> or <b>No</b>
<b>AutoCAD, DWG &amp; DXF File Setup</b>			
<b>ACADparms=</b> scale, plot by, view name, fill space  <b>Scale</b>  <b>Plot By</b>		JOB/FILE	AutoCAD parameters where:  <b>Scale</b> is a valid AutoCAD scale, printed units = drawing units.  <b>Plot By</b> defines the boundaries of the drawing, and can be <b>extents</b> (default), <b>display</b> , <b>limits</b> , <b>view</b> , or <b>layout</b> .
<b>View name</b>		JOB/FILE	<b>View name</b> is the name under which the view is saved. This value is used only when <b>Plot By=View</b> or <b>Plot By=Layout</b> .
<b>Fill space</b> (used with DWG Direct processing only)		FILE	Sets the space between vectors in a fill on AutoCAD drawings. (In current pen units)

Keyword	Alias	Section	Description/ Parameters
<b>Pen Control</b>			
<b>PenUnits=</b>		JOB	<b>mils</b> (default), <b>mm</b> , <b>400-dpi</b> , <b>300-dpi</b> , or <b>200-dpi</b>
<b>Pen=</b>  Number or Range  Width  End Style		JOB/FILE	Pen definitions:  Pen number (e.g., <b>1</b> ), range (e.g., <b>1-5</b> ), or <b>All</b>  The width of the line, using the specified <b>PenUnits</b>  <b>RO</b> or <b>round</b> , <b>SQ</b> or <b>square</b> , <b>BU</b> or <b>butt</b> , <b>EB</b> or <b>extended butt</b>
Pattern  See the pattern sheets for your printer (provided in the PlotWorks Pen and Patterns folder).  Type  Color			Enter a valid pattern number from the sample pattern sheets for your specific output device. Can be a percentage (from 1-100%) which results in a diffused dot pattern (on some printers) or an actual pattern number which results in an ordered dot dither pattern.  <b>OP</b> or <b>opaque</b> , <b>TR</b> or <b>transparent</b>  Enter a valid color number between <b>0</b> and <b>255</b> (this also works to change shades on grayscale printers)  Sample pen definition: <b>Pen=all,5,RO,15,OP,140</b>

Keyword	Alias	Section	Description/ Parameters
Pen Control (continued)			

Keyword	Alias	Section	Description/ Parameters
<b>PenMacro=</b>		JOB/FILE	<p><b>B</b> forces a bilevel representation of colors (black &amp; white)</p> <p><b>G</b> prints the grayscale representation of colors in HP-GL/2 files</p> <p><b>H</b> Prints the entire image using the highlight color, if available (red on the Xerox MAX 200 and 8180)</p> <p><b>P</b> Enables printing using embedded pen description. When printing HPGL/2 files with embedded pen colors, to extract the color data.</p> <p><b>W</b> enable printing using embedded pen widths</p> <p><b>WP</b> (default) enable both</p> <p><b>*</b> Turns of sharpening for raster blocks and files</p> <p><b>~</b> Reapplies patterns when scaling</p> <p><b>A</b> Flattens all color pixels to solid black</p> <p><b>C</b> Use color definitions from the HP-GL/2 file instead of the pen set.</p> <p><b>E</b> Fill pen strokes with patterns defined in the HP-GL/2 file instead of the pen set.</p> <p><b>F</b> Use fill screens and patterns defined in the HP-GL/2 file instead of the pen set.</p>

Keyword	Alias	Section	Description/ Parameters
Pen Control (con- tinued)			

Keyword	Alias	Section	Description/ Parameters
<b>ScalePens=</b>		JOB/FILE	Scale pens with image? <b>No</b> (default) or <b>Yes</b>
			<p><b>I</b> Invert the entire output sheet including overlays, watermarks etc.</p> <p><b>J</b> Use the HP-GL/2 Plot Size((PS) Command) instead of the drawings extents.</p> <p><b>J</b> Use the HP-GL/2 Plot Size ((PS) Command) instead of the drawings extents as specified by the actual marks drawn on the page.</p> <p><b>K</b> Emulate output from Repro Desk.</p> <p><b>M</b> Enables multiple color planes (Xerox MAX 200, 8180, Color Windows, and Color RTL printers only). If you want to print red components of colors used in files on the red plane then the “M” macro (multiple planes) must be used.</p> <p>Example: If you want the Xerox MAX 200 or 8180 to print a red and black representation of the colors in a file, use <b>PenMacro=WPM</b></p> <p>Example: If you want the 8180 to print a red and black representation of the colors in an HP-GL/2 file, use <b>PenMacro=WPM</b></p>

Keyword	Alias	Section	Description/ Parameters
<b>Pen Control (con- tinued)</b>			
			<p><b>N</b> Ensures RTL raster data is not scaled.</p> <p><b>O</b> Forces dot patterns to ordered dither</p> <p><b>D</b> Forces dot patterns to diffused dither</p> <p><b>U</b> Forces dot patterns to reduced-coverage ordered dither</p> <p><b>R</b> Forces diffused dithering for raster images.</p> <p><b>Z</b> Forces progressive pattern-dithering for raster images.</p> <p><b>Q</b> Use pen 0 &amp; 1 in the RTL palette to determine the color of 0 &amp; 1 pixels for monochrome raster blocks.</p> <p><b>T</b> Use merge control &amp; transparency data from the HP-GL/2 files not the pen set.</p> <p><b>V</b> Use line end data from the HP-GL/2 files not the pen set.</p> <p><b>X</b> Flattens all vector pens to a solid color on each color plane.</p> <p><b>Y</b> use alternate (even/odd) fills instead of the fill type specified in the HP-GL/2 file.</p>



<b>Keyword</b>	<b>Alias</b>	<b>Section</b>	<b>Description/ Parameters</b>
<b>Pen Control (continued)</b>			
			<b>S</b> Print the short edge first. <b>L</b> Print the long edge first.
<b>Folding</b>	<b>(DOS Aliases)</b>		
<b>FoldEnable=</b>		JOB	Enable folding? <b>Yes</b> or <b>No</b> (default).
<b>FirstFold=</b>	BayFoldEnable=, FoldEnable=	JOB	Set equal to <b>Yes</b> or <b>No</b> . Yes enables the first fold. The default value is No. Check the folder specifications to see whether the first fold is the crossfold or fanfold.
<b>SecondFold=</b>	BayCrossfold=	JOB	Set equal to <b>Yes</b> or <b>No</b> . Yes enables the second fold. The default value is No. Check the folder specifications to see whether the second fold is the crossfold or fanfold.
<b>FoldMarginEnable=</b>		JOB	Set equal to <b>Yes</b> or <b>No</b> . Yes enables the folder's margins? The default value is No.
<b>FoldMargin=</b>	BayMargin=	JOB	Specify a value for the fold margin depending on the size units selected.
<b>FoldPunching=</b>	BayPunching=	JOB	Enable hole punching for folder? (Not available with all folders) <b>Yes</b> or <b>No</b> (default)

Keyword	Alias	Section	Description/ Parameters
Folding (Continued)	(DOS Aliases)		
<b>FoldWidth=</b>		JOB	Enter the width of the folded area (using the selected units of measure).
<b>FoldReinforce=</b>	BayStripping= BayReinforce=	JOB	Enable reinforcement strip? (Not available with all folders) <b>Yes</b> or <b>No</b> (default)
<b>FinishingMacro=</b>		JOB	<p>Selects the desired fold type or folding card. Available values are:</p> <p><i>Xerox MAX 200 and 8180 folders:</i></p> <p><i>American and Far Eastern Hardware:</i></p> <p>Blank = Fanfold C = Crossfold S = Special fold</p> <p><i>European Hardware Options:</i></p> <p>C= Crossfold B = Din B fold</p>

Keyword	Alias	Section	Description/ Parameters
<b>Folding (Continued)</b>	<b>(DOS Aliases)</b>		
			<p><i>8845 folder</i></p> <p>1 = Forces use of 1st folding card</p> <p>2 = Forces use of 2nd folding card</p> <p><i>All folders</i></p> <p>L = Forces landscape output from printer for proper folding (except sizes E, E1, E2, and A0)</p> <p>P = Forces portrait output from printer for proper folding</p>
<b>FolderName=</b>			<p><i>GFI folder setting</i></p> <p>The name of the GFI folder exactly as it appears in the FPF file.</p>
<b>FoldProgram =</b>			<p><i>GFI folder setting</i></p> <p>The numeric value of the folding program exactly as it appears in the FPF file.</p>
<b>OutputBin=</b>			<p><i>GFI folder setting</i></p> <p>The numeric value of the output bin exactly as it appears in the FPF file.</p>

Keyword	Alias	Section	Description/ Parameters
<b>TitleBlockLocation=</b>			<i>GFI folder setting</i> Specify either DontCare, LowerLeft, LowerRight, UpperRight, or UpperLeft as the title block location.

Keyword	Alias	Section	Description/ Parameters
<b>Overlay Control</b>			
<b>Overlay</b> =overlay number,filename,x offset, y offset  <i>Where:</i>  Number  Filename  X origin  Y origin	Ref=	JOB/FILE	<p>Specifies the location and origin of an overlay file. This file will overlay the main file.</p> <p>If defined in the JOB section, it will overlay every file within the job. If defined in the FILE section, it will only overlay the current file.</p> <p>Definitions in the FILE section will take precedence over entries in the JOB section for the current file <i>only</i> (i.e., the next file again defaults to the entries in the Job section).</p> <p>Note that the overlay file must also be added in its own file section with the quantity set to <b>x</b>.</p> <p>Enter the number of the overlay image (<b>1 to 10</b> images)</p> <p>Enter the name of overlay image (do not include a path)</p> <p>Enter the <b>X</b> origin of overlay image</p> <p>Enter the <b>Y</b> origin of overlay image</p>
<b>Overlay Control (continued)</b>			

Keyword	Alias	Section	Description/ Parameters
<b>OverlaysRelative=</b>		JOB	Scale, size, clip, and offset overlay images relative to the main image. Enter <b>Yes</b> (default) or <b>No</b>
<b>Nesting Controls</b>			
<b>Nesting=</b>		JOB	Enables you to nest (combine) images on one sheet of medium to save media. Enter <b>Yes</b> (to enable) or <b>No</b> (default)
<b>NestingBorder=</b> border	NestingSize=	JOB	Defines the space between the borders of each nesting image. Defaults to <b>0.5</b> inches. <b>Note:</b> Default <i>maximum nest length</i> is 36 inches.
<b>MaxFiles=</b> count		JOB	Define the maximum number of images to nest at once (up to 100). Default is 1.
<b>Margins</b>			
<b>Margin=</b> left, top, right, bottom		JOB/FILE	Enter the margin width(s) using specified SizeUnits). Default is <b>0.5</b> .
<b>EnableFinishingMargin=</b> yes or no	EnableMargin- Striping=	JOB/FILE	Enables or disables the finishing margin. Enter <b>Yes</b> or <b>No</b> (default)
<b>FinishingMargin=</b> value		JOB/FILE	Enter the width of the finishing margin (using specified SizeUnits). Default is <b>0.0 inches</b> .

Keyword	Alias	Section	Description/ Parameters
<b>Justification</b>			
<b>Justification</b> = orientation		JOB/FILE	Specifies where the leading edge of the image is to be justified. Default is <b>center</b> . Values: <b>lower left, lower right, upper-left, upper right, center, top, bottom, left, right</b>
<b>Watermarks</b>			
<b>WatermarkText</b> = text		JOB/FILE	Enter the text to be used as the watermark, up to 80 characters.
<b>WatermarkDirection</b> =direction		JOB/FILE	Enter the desired watermark placement: <b>UpperRight</b> (default): angle from lower left to upper right. <b>LowerRight</b> : angle from upper left to lower right. <b>Down</b> : read from top to bottom <b>Right</b> : read from left to right

<b>Keyword</b>	<b>Alias</b>	<b>Section</b>	<b>Description/ Parameters</b>
<b>Watermarks (continued)</b>			
<b>WatermarkFont</b> = FontName, Size, PenColor, PenPattern, Style, CharacterSet, FontMappingLevel , FontPitch, FontFamily  <i>Where:</i> FontName:  Size:		JOB/FILE	Defines the watermark font attributes.  Name of font (i.e. Times New Roman (default), etc.).  Size of the font: <b>Small</b> , <b>Medium</b> (default), or <b>Large</b> .



Keyword	Alias	Section	Description/ Parameters
<b>Watermarks (Continued)</b>			
<b>WatermarkFont (continued)</b> PenColor:		JOB/FILE	Enter desired pen color (default = black) from available Windows colors.
PenPattern:			Enter a pen pattern. Can be a number (default = 1) or a percentage ( <b>0%</b> - <b>100%</b> ).
Style:			Sets the style of the font: <b>0</b> = regular (default) <b>1</b> = bold <b>2</b> = italics These values can be added together for different effects, i.e., bold/italics = <b>3</b> (1+2).
CharacterSet:			Defines the character set of the font: <b>Ansi</b> , <b>Default</b> , <b>Baltic</b> , <b>ChineseBig5</b> , <b>EastEurope</b> , <b>GB2312</b> , <b>Greek</b> , <b>Hangul</b> , <b>Mac</b> , <b>OEM</b> , <b>Russian</b> , <b>ShiftJIS</b> , <b>Symbol</b> , <b>Turkish</b> , <b>Johab</b> , <b>Hebrew</b> , <b>Arabic</b> , or <b>Thai</b> .
FontMapping-Level:			Sets the level of font matching desired: <b>Any</b> (will substitute any font), <b>Normal</b> (default - substitutes a font close to the font used), or <b>Strict</b> (which looks for the font that most closely resembles the font used).

Keyword	Alias	Section	Description/ Parameters
<b>Watermarks (continued)</b>			
<b>WatermarkFont (continued)</b> FontPitch:  FontFamily:		JOB/FILE	Specifies the pitch: <b>Fixed-Pitch</b> , <b>VariablePitch</b> , or <b>DefaultPitch</b> .  Specifies the font family: <b>DecorativeFamily</b> , <b>DontCareFamily</b> , <b>ModernFamily</b> , <b>RomanFamily</b> , <b>ScriptFamily</b> , or <b>SwissFamily</b>

Keyword	Alias	Section	Description/ Parameters
<b>Label Control</b>			
<b>LabelFont =</b> FontName, Size, PenColor, PenPat- tern, Style, Charac- terSet, FontMappin- gLevel, FontPitch, FontFamily  <i>Where:</i>  FontName:   Size:   PenColor:			Defines the label font attributes.       Name of font (i.e., Times New Roman (default), etc.).  Size of the font: <b>Small</b> , <b>Medium</b> (default), or <b>Large</b> .  Enter desired pen color (default = black) from available Win- dows colors.

Keyword	Alias	Section	Description/ Parameters
<b>Label Control (continued)</b>			
<b>LabelFont (cont.)</b>			
PenPattern:			Enter a pen pattern. Can be a number (default = 1) or a percentage ( <b>0% - 100%</b> ).
Style:			Sets the style of the font: <b>0</b> = regular (default) <b>1</b> = bold <b>2</b> = italics These values can be added together for different effects, i.e., bold/italics = 3 (1+2).
CharacterSet:			Defines the character set of the font: <b>Ansi, Default, Baltic, ChineseBig5, EastEurope, GB2312, Greek, Hangul, Mac, OEM, Russian, ShiftJIS, Symbol, Turkish, Johab, Hebrew, Arabic, or Thai.</b>
FontMapping-Level:			Sets the level of font matching desired: <b>Any</b> (will substitute any font), <b>Normal</b> (default - substitutes a font close to the font used), or <b>Strict</b> (which looks for the font that most closely resembles the font used).

Keyword	Alias	Section	Description/ Parameters
<b>Label Control</b> (continued)			
<b>LabelFont (cont.)</b>  FontPitch:  FontFamily:			Specifies the pitch: <b>Fixed-Pitch</b> , <b>VariablePitch</b> , or <b>DefaultPitch</b> .  Specifies the font family: <b>DecorativeFamily</b> , <b>DontCareFamily</b> , <b>ModernFamily</b> , <b>RomanFamily</b> , <b>ScriptFamily</b> , or <b>SwissFamily</b>
<b>LabelRotation =</b> value		JOB/FILE	Defines the rotation of the label block.  Valid values are 0 (default), 90, 180, and 270.
<b>LabelOffset =</b> X, Y  Default values are 0.0, 0.0		JOB/FILE	Specifies where to place the label relative to the origin of the image (in SizeUnits).  All values are floating point and go by units of measure.

Keyword	Alias	Section	Description/ Parameters
<b>Label Control (continued)</b>			
<b>LabelText</b> = text		JOB/FILE	Enter the wording of the label (on a single line), up to 255 characters. Text can include the macros: [DATE], [TIME], [JOB], [SET], [FILENAME], [PATH], [COPY] [IMAGE], [COMPANY], [PROJECT], [CONTACT], [CR], [LF], [FF], [ESC]
<b>Log File Data</b>			
<b>LogFile</b> =		JOB	Path and name of the log file. If this file does not exist, PlotWorks creates it.
<b>WriteLog</b> =text		JOB	Enter the text to insert in the log file.*

Keyword	Alias	Section	Description/ Parameters
<b>Locking Parameters</b>			
<b>Lock.</b>		JOB/FILE	<p>If you do not want a default value changed, type <b>Lock.</b> before the keyword.</p> <p>For example: <b>Lock.Media=Bond</b> sets the media type to Bond.</p>

## Advanced Features

**PFS** files can include a variety of special keywords and values for customizing your jobs and performing advanced functions. The following sections explain how to insert dynamic data into PFS files, automatically open and write to text files, and add comments that can be parsed out for later use.

### Special Fields

You can insert special fields within your values to signal that data should be substituted before output. These fields are particularly useful in **WriteLog=** or **WriteFile=** statements.

For example, a line containing the following...

WriteLog=ACME Repro: [DATE] at [TIME]

... might show up in the log file as...

ACME Repro: 10/30/97 at 10:53

The following are acceptable as special fields:

**[DATE]** translates to the current date as it is formatted in Windows Control Panel: Regional Settings on the PlotWorks server. In the U.S., MM/DD/YY is the default form. However, in Europe the format is DD/MM/YY. The date format can be changed by adding an optional string after the word DATE, separated by a colon (:). The following substitutions are valid:

**YY**= Year (e.g., **97**)

**YYYY**= Year (e.g., **1997**)



*If you want to ensure that your PFS files are “year 2000 compliant,” use the four-digit year format: YYYY.*

---

**MM**= Numeric Month (e.g., **02**)

**MMM** = Month, 3-letter abbreviation (e.g., **Feb**)

**DD**= Day (e.g., **24**)

**WWW**= Weekday, 3-letter abbreviation (e.g., **Sat**)

For example, **[DATE: WWW: DD-MMM-YYYY]** would become:

Sat: 30-Oct-1997

**[TIME]** translates to the current time in *hours:minutes* form. All time settings are based on local time as specified in the Windows Control Panel: Regional Settings on the PlotWorks server.

**[FF]** translates to the “Form Feed” ASCII character (WriteLog and WriteFile fields only).

---



**[CR][LF]** translates to the “Carriage Return” ASCII character.

**[ESC]** translates to the “Escape” ASCII character.

The following fields can only be used in the **[FILE]** section (Mode 3 only):

**[PFSFILE]** translates to the path and filename of the directory-level PFS file.

**[FILENAME]** translates to the last image filename processed by PFS on a **Filename=** statement.

**[FILESIZE]** translates to the size, in bytes, of the **[FILENAME]** file.

## Open and Write to a File

The WriteFile option lets you create up to four text files for each print job. The files can contain any text you wish to include, as well as any of the special fields described on page D- 40. The WriteFile appears as soon as a job has been submitted from Network Polling to the Job Queue. Therefore, it could be used to signal a networked CAD user that the job has been submitted for printing. The WriteFile option uses three keywords:

### OpenFile=I.D. number, filename, mode

*Where...*

**I.D. number** is the number of the file being opened. It can be **1**, **2**, **3**, or **4**. You can open up to four files at once.

**Filename** represents the name of the text file. If this file does not exist, PlotWorks creates it.

**Mode** is used when the specified text file already exists. The mode can be **New** (to overwrite the existing file) or **Append** (to append the text to the end of the existing file).



*All OpenFile commands must be entered in the [JOB] section of your PFS file.*

---

**WriteFile=I.D. number** (same as in **OpenFile**), **text** (the text that you want to log.)

You can enter this field in the JOB section, or in one or more of the **[FILE]** sections. You can also include special fields within the text. (See “Special Fields” on page D-26.)

**CloseFile=I.D. number** (same as in OpenFile).

---

## Printing a Job (Network Polling Mode 3)

Once you have created a PFS file, you can send your job to a Network Polling target directory for automatic processing and printing.

### Sending Jobs to a Target Directory

#### To submit a job:

1. Once you have defined your printing parameters, save the ASCII text file using the **.PFS** filename extension.



*Copy your image files to the target directory first. Otherwise, Network Polling might send your job to the Queue before you have transferred all of the files. If you have specified the path to your images by using the **Directory=** keyword, and they can be accessed from the computer that Network Polling is running on, you can skip this step.*

---

2. Copy your PFS file to the target directory. The Network Polling program will transfer your job to the Job Queue.

### The Polling Log File

When a job is sent to any Polling directory, an entry is added to the Polling log file. This file records all of the jobs sent to the Network Polling program. The location of this log file is specified in the Polling Options dialog box under the **Setup** menu within the Network Polling program.

#### To view the Polling Log:

1. Open the Network Polling program.
2. Open the **Setup** menu and select **View Log**. The log file opens into Notepad.

## Sample PFS Files

There is a sample PFS file provided in your PlotWorks Samples folder. You can make edits to the file and save it as a directory or site PFS file or use it as a template for creating incoming PFS files. To view the sample file, open it in Windows Notepad. If you make any changes to it, please remember to save it with a new name.

---

## Incoming PFS File

The following file is an example of a job submitted to a target directory from a remote user.

[JOB]

;-ACME: Job from the ACME CAD output processor

Company=ACME CAD

Account=165AC

Sets=3

[FILE.1]

FileName=DRG01222.PLT

Quantity=2

FinalSize=A4

[FILE.2]

FileName=DRG01223.PLT

Quantity=2

FinalSize=A3

[FILE.3]

FileName=DRG01224.PLT

Quantity=3

FinalSize=A3

---

## Sample User Interfaces

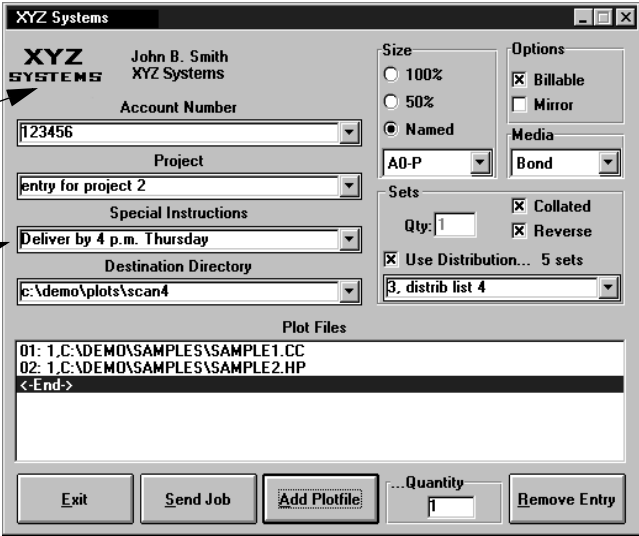
You can use VisualBasic, Microsoft Access, etc., to create a graphical user interface for creating and submitting PFS files to PlotWorks. This interface can be customized for your particular computing platform and can contain any fields you wish to include. Remote users can easily submit their print jobs by filling out this “job ticket.”

The following pages show examples of possible interface designs. After each example is a copy of the PFS file generated by that particular template.

### Sample Windows Interface

The following screen is a sample order form created as a standard Windows interface.

*Fig D.2*  
*Sample*  
*Windows*  
*Interface*



PFS file Contact and Company parameters display here.

PFS file comment parameter

### PFS File Created from Windows Interface

[JOB]

;-PFS job generated by PW-WIN program

;-PFS file: c:\demo\plots\scan4\JOB-0014.PFS

Contact=John B. Smith

Company=XYZ Systems

Account=1234546

Project=entry for project 2  
Comment=Deliver by 4 p.m. Thursday  
WriteLog=[FF] JOB: JOB-001  
WriteLog=SUBMITTED BY  
WriteLog=John B. Smith, XYZ Systems  
WriteLog=NOTE INSTRUCTIONS:-  
WriteLog=Deliver by 4 p.m. Thursday  
WriteLog=\*\*THIS JOB IS BILLABLE\*\*  
WriteLog=DISTRIBUTION:-  
WriteLog=\* 1 set to: engineering supervisor  
WriteLog=\* 1 set to: management  
WriteLog=\* 3 sets to: distrib list 4  
Sets=5  
ReversePrint=Yes  
Mirror=No  
FinalSize=A0-P  
Media=Bond  
[FILE.1]  
Quantity=1  
FileName=JOB-0014.F01  
;-File: JOB-0014.F01 was originally C:\DEMOPLP\SAMPLES\SAMPLE1.CC  
[FILE.2]  
Quantity=1  
FileName=JOB-0014.F02  
;-File: JOB-0014.F02 was originally C:\DEMOPLP\SAMPLES\SAMPLE2.HP

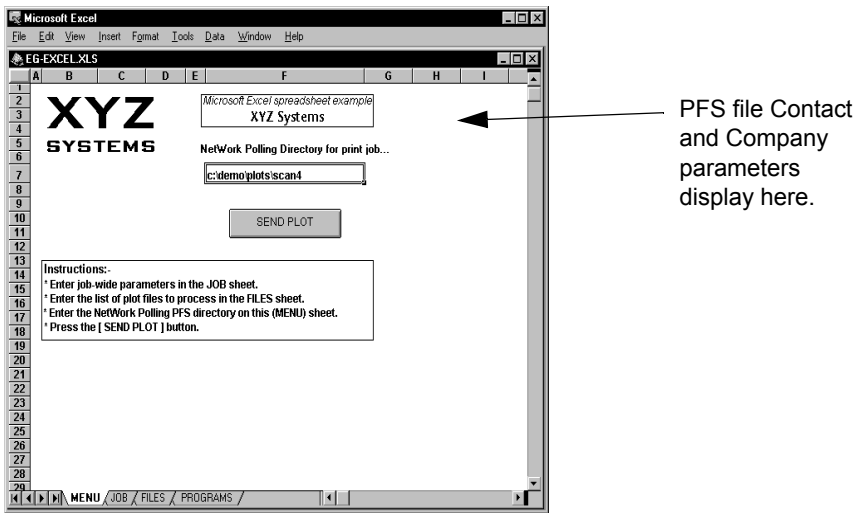
## **Sample Excel Interface**

This interface contains several worksheets that you can access by clicking on tabs along the bottom of the window. The program opens into the main menu worksheet shown below (Fig. 6.2).

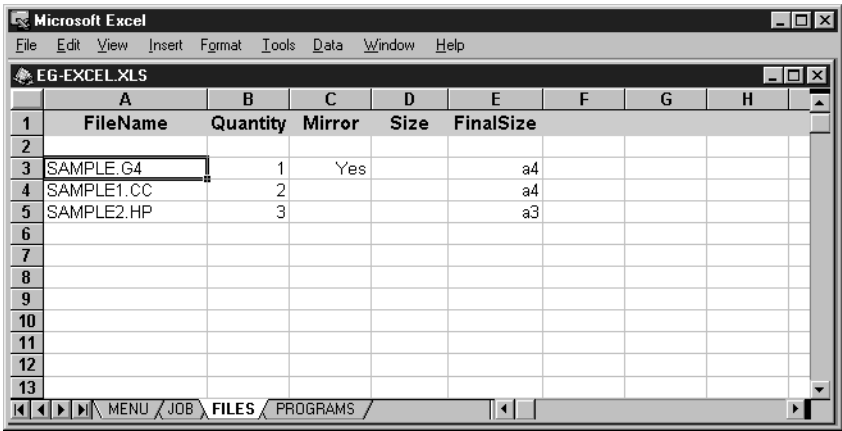
The screen shown in Fig. 6.3 shows the Files sheet, which lets users add files to a print job and specify basic printing parameters.

---

*Fig D.3  
Main  
Menu*



*Fig D.4  
Files  
Worksheet*



	A	B	C	D	E	F	G	H
	FileName	Quantity	Mirror	Size	FinalSize			
3	SAMPLE.G4	1	Yes		a4			
4	SAMPLE1.CC	2			a4			
5	SAMPLE2.HP	3			a3			
6								
7								
8								
9								
10								
11								
12								
13								

## PFS File Created from Excel Interface

[JOB]

;-Created by XYZ Excel example

;-4/15/96 4:12:17 PM

;-Start of JOB data -

RemoveBorders=No

Quantity=1

Account=ACC123  
Project=PRJ001  
Contact=XYZ Excel test  
Company=XYZ Systems  
Address1=2300 Clarendon Blvd.  
Address2=Arlington  
Address3=Virginia  
Address5=USA  
Directory=c:\demo\plots\scan4  
;-Start of FILES data -  
[FILE.1]  
FileName=SAMPLE.G4  
Quantity=1  
Mirror=Yes  
FinalSize=a4  
[FILE.2]  
FileName=SAMPLE.CC  
Quantity=2  
FinalSize=a4  
[FILE.3]  
FileName=SAMPLE2.HP  
Quantity=3  
FinalSize=a3

---

