
FARRUKH SYSTEMS IMPOSITION PUBLISHERTM PAGE PAIRERTM

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INTRODUCTION TO PAGE PAIRER™

Page Pairer is designed to impose newspaper pages automatically. It is built around the core Farrukh Systems' Imposition Publisher™ technology. This has been used for imposing books and magazines since 1990, and is used by over 4,000 customers world-wide.

Page Pairer has all the functionality needed by the largest and smallest newspapers, yet it is very easy to use. Once the parameters for a newspaper have been set, Page Pairer automatically pairs the pages as they arrive, without any user intervention.

Page Pairer uses a client server architecture. The server part runs on UNIX (Sun, SGI and MacOS X Server) or Windows NT/2000 Server. The control and monitoring part (client) runs on an Macintosh. This approach gives Page Pairer the performance of a server application with the ease of use of a Mac. The Mac client displays the progress of all the pages, so the entire newspaper can be managed remotely.

Page Pairer accepts as input either PostScript or PDF files; single-page files, double-page spreads and multiple-page files.

Pages are paired according to a scheme derived from the number of pages in the publication. Each file has to have a numeric extension indicating its page number in the publication. Pages can be saved individually (or in double page spreads) as PostScript or PDF file, from a DTP application. Page Pairer watches a designated input folder and when the pages for a pair or four-up have arrived, these files are processed and written to the output folder. The input files are then moved out of the input folder. This continues until all pairs or four-ups for the publication have been processed. Once the queue is reset, Page Pairer will begin waiting for files to process from the next issue of the publication.

Any pair (or four-up) in a set of files can have a number of duplicates assigned to one page. This means that a pair (or four-up) can be processed with a number of different versions of one of the pages. So that if six different copies are sent of one of the pages and six duplicates have been assigned to that page, then six different versions of the pair (or four-up) will be created.

The processing of a set of pages that constitute a publication – a newspaper, magazine or catalogue – is defined as a queue in Page Pairer. A queue consists of an input directory (inside which three directories get created: ADMIN, DONE, and ERROR) and an output directory (inside which TMP and PREVIEW directories get created) for PostScript or PDF files, the number of pages in the job, the marks required, plus other related set-up information. Multiple queues can be set-up within Page Pairer, each servicing a different publication. Pairs or four-ups from different queues will be processed concurrently although there is an adjustable limit to the number of queues processing at any one time.

The Page Pairer software consists of two programs, the **Client Manager** and the **Client** program. The client manager program runs on the server, services queues and processes PostScript files in the background. The client manager writes

Introduction

every action related to a queue and any errors to a log file called **Queue.log** which is in the ADMIN folder of each queue. The UNIX based version also writes its own progress information to the terminal from which it was started.

The client program runs on a Macintosh computer. It is used to set-up and monitor the queues. It does not do any of the processing. The client program can only be used when the client manager program is running.

The Page Pairer comes with Unlimited or 5 queues licence. Also it allows use from 5 specific workstations for setting up queues and monitoring queue progress.

PAGE PAIRER INSTALLATION

System Requirements of Page Pairer

Server:

Windows NT & Windows 2000:

- Pentium 233 / DEC Alpha XL300 or greater
- 64 MB RAM
- Windows NT Server 4.0 or later
- Sufficient hard disk space for input and output PostScript files

Solaris:

- SunSparc 20
- 64 MB RAM
- Solaris 2.4 or later
- Sufficient hard disk space for input and output PostScript files
- Helios EtherShare or similar

SGI:

- SGI O2 or greater
- 64 MB RAM
- IRIX 6.0 or higher
- Sufficient hard disk space for input and output PostScript files
- Helios EtherShare or similar

MacOS X:

- PowerPC G3 or later
- 64 MB RAM
- MacOS X Server
- Sufficient hard disk space for input and output PostScript files
- Helios EtherShare or similar

Client Workstation

Apple Macintosh:

- System 8.1 or higher
- 48 MB RAM
- 15 MB hard disk space to install
- An Ethernet connection to the Server over a network

INSTALLING AND RUNNING THE SERVER ON UNIX

Note: In the examples given, any text appearing between angle brackets (< >) denotes text to be substituted by the user, as it may be site specific.

Installation

The installation CD contains the UNIX software for Page Pairer. The installation .tar file can be found inside the UNIX folder on the CD. Copy this file to your UNIX server. Then change directory to `/usr/tmp`. Then type the following to extract the installation files from the .tar file.

```
tar xvf <name-&-path-of-the-.tar-file>
```

Then to install the software make sure you are in the directory that you extracted the tar files to. Then become root or superuser by typing :-

```
su
```

```
< enter password here if any >
```

Note: If you received a dongle with your copy then you should follow the instructions on the flyer before running the install script.

Then type :-

```
./install_ips
```

The install script will ask you for:

1. An installation path. This is where the server software will be installed, inside a directory named ipserver.
2. The UNIX directory name and path, which maps onto the shared login Macintosh network volume. Make sure that the path you enter is correct, as otherwise the server software will not work.

Once you have answered these two questions the installation will start.

3. Once this is complete you will be asked if you wish to create automatic start-up and shut down links. If you answer yes, the software will automatically be stopped and restarted when the machine is brought down and rebooted.
4. Next you will be asked if you received a dongle with your copy:-

If you answer **y** (for yes) to this question you will be asked if you want to run the dongle setup program. Again if you answer **y** (for yes) you will then be asked which serial port your dongle is attached to (**a** or **b**). Then you will be asked to enter your 12-digit dongle code and release code (you should have received these on a flyer with your dongle).

If you answer **n** (for no) to this question the software will print out a reference for your machine and ask if you have a password for this reference. At this point phone your supplier with your reference number and they will give you a password and release

code in return. Then answer **y** (for yes) to the password prompt and enter your password including the dashes (-) and release code without dashes.

5. The next step is to setup the printers and volumes to be used with the Clients. If you are using any combination of EtherShare, PCShare or UShare this can be done automatically. Just select the appropriate option on the Network Setup menu.

If you are using another networking solution select **Other...** from the menu option list and follow the instructions below to setup your printers and volumes.

Setting up Printers

The menu driven script (**setup-printers**) allows you to manually add or delete names from the list of printers seen by the clients and to specify a UNIX print command. When you print from a Client, the server software uses this command to print your output to a UNIX printer. It does this by adding the printer name and the output file to the UNIX print command.

For Example: Using Helios EtherShare printer queues, you can follow these steps for Page Pailer Server to print to these queues.

- a. Type the following command to list all EtherShare printer queues :-

```
<name-&-path-of-your-EtherShare-directory>/lpc
stat
```

This will list all the EtherShare printer queue names and their associated status.

- b. Choose option 1 **Add a printer...** from the menu. Then type in the EtherShare printer names pressing RETURN after each. When you have finished press RETURN to return back to the menu screen.
- c. Choose option 4 **Configure print command...** from the menu. Then enter **y** and press RETURN to change the current UNIX printer command. Then enter the following and press RETURN :-

```
<name-&-path-of-your-EtherShare-directory>/lpr -P
```

- d. From the menu screen choose option 5 **Quit**.

Setting up Volumes

The menu driven script (**setup-volumes**) allows you to manually add or delete volume entries from the list of volumes seen by the Clients. Only those volumes that have been set up this way can be used with the Page Pailer Software.

To add a new volume you should select choice 1. You will be prompted for the UNIX path and the corresponding Macintosh name. All names are case sensitive. Changes are saved when you select choice 4 **Quit**.

Note: You will not be able to use the software until at least one volume has been set up.

6. Before finishing you will be prompted to search for Distiller. You should answer **y** if you want to preview files and have Acrobat Distiller installed on your UNIX server. In the **ipserver/ip** folder the file **ippreview.cmd** will be created which will contain path to the Distiller. It is in the form **IPPREVTOOL=/usr/bin/distill** and if you wish you can edit it manually (e.g. in case you have multiple installation of the Distiller). **Note:** Distiller is not currently available for the Mac OS X Server.

Installation

Your Page Pailer software should now be installed correctly.

Starting the Server

The Server software on UNIX must be running before you can run your Client software.

If the automatic startup option was selected on installation, the Server program will automatically start when you reboot your machine and will be stopped when your machine is shutdown.

However, if you wish to start it without rebooting do the following:

1. You must be root or superuser. If you are not, type :-

```
s u
```

```
< enter password here if any >
```

2. Change directory to the **ipserver** directory. Type:

```
cd <my-installation-path>/ipserver
```

Note: the text <my-installation-path> denotes the first install path you entered when you ran the installation script.

3. Type :-

```
./start-ipserver
```

or

```
./start-ipserver -DEMO
```

to start as demo. If you are starting as demo you will be given a 12-digit demo key. If you phone Farrukh Systems with this key, you will be given a release code that will last for a fixed number of days. This key is invalidated if the software is shut down, but you can phone again for another release code. Other than this the demo mode is fully functional.

Note: When starting up a Macintosh client for the first time, you will be prompted to select the login folder on the server volume. This folder is called **iplogin** and will have been created by the server installation script.

Stopping the Server

If you need to shutdown the Page Pailer software without shutting down your machine do the following:

1. From the same directory and as root or superuser, type :-

```
./stop-ipserver
```

or

```
./stop-ipserver -DEMO
```

if you are running as demo.

Miscellaneous

1. If you incorrectly type the UNIX path name for the shared Macintosh login volume in the installation, you can edit the **.ipconfig** file, as root, in the **ipserver** directory. The format is as follows :-

```
APPDIR=<ipserver directory path>
```

```
LOGINDIR=<iplogin directory path>
```

```
NETDIR=<directory path for the Mac network volume>
```

2. You can obtain your installation reference number at any time from the **ipserver** directory by typing as root or superuser:-

```
./ipref
```

3. If you did not enter your password at the end of the installation script, you can do so from the **ipserver** directory as root or superuser by typing :-

```
./ippass enter
```

Next, type:-

```
./ippassrelease
```

to enter the release code.

4. If you have a problem entering your dongle code on installation then you can re-enter it from the **ipserver** directory as root or superuser by typing :-

```
./dngsetup -DNGNUMONLY
```

5. You can update your list of volumes and printers after installation from the **ipserver** directory, as root or superuser, by typing :-

```
./config_net
```

INSTALLING AND RUNNING THE SERVER ON WINDOWS NT

Installation from CD

1. Insert the installation CD into your computer's CD-ROM drive.
2. Start **File Manager** or **Windows Explorer** and view the contents of the CD-ROM Drive. The folder **PagePairer\NT** is at the root of the CD. Double click the file **setup.exe** which will launch the installation program.
3. Follow the instructions given by the installation program. During the installation you will be given the opportunity to change the location of the directory that the software is installed to and the software's Program Manager group.
4. When the installation is complete a new program item (Page Pairer) will appear on the **Start Menu** under **Programs**.

Dongle Driver Installation

Before you can run Page Pairer, the driver for the dongle must be installed on your Windows NT system. This should happen automatically the first time you try to run the Server program. A message box should then appear reminding you to restart your machine.

If the driver installation is unsuccessful, you can try a manual installation. Follow the instructions in the file **ReadMe.txt** in your Page Pairer Server directory. Then reboot your machine.

Note: If you try to run Page Pairer Server before installing the dongle driver or before you have rebooted the machine, Page Pairer Server will not run.

Running Page Pairer for the First Time

When you first run Page Pairer Server, a dialog will appear prompting you to enter your dongle number and release code, and the path of the shared directory on your Windows NT machine.

The first time you run Page Pairer Server: -

1. Make sure that the dongle you received with this copy is connected to the parallel port on the back of your computer.
2. Double click the Page Pairer icon in the Page Pairer program group.
3. In the dialog that appears, enter your 12-digit dongle number and release code in the boxes provided. (The numbers will be printed on a separate flyer).

4. In the same dialog, enter the path of your network shared directory in the box provided.

E.g. The shared directory to enter would be **D:** if all of the D: drive files and directories could be seen from the network volume on your Client machines.

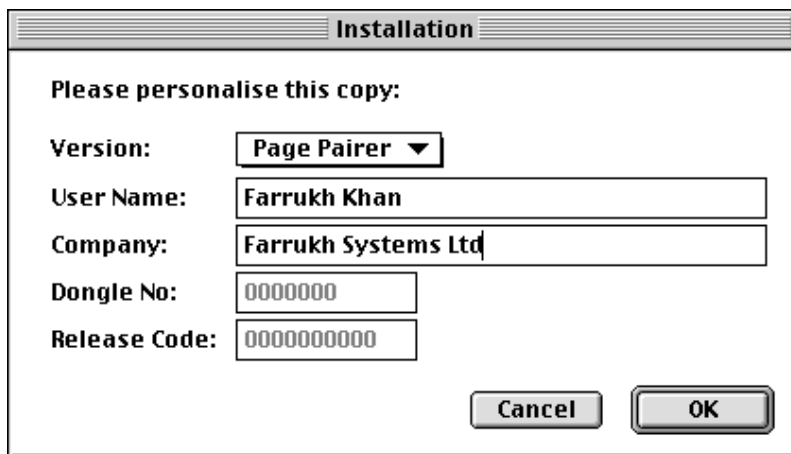
5. Click **OK**. The Page Pairer main window and splash screen should appear.

Next time you double click the **Page Pairer** icon the software will start up straight away with the Page Pairer main window and splash screen.

Note: If you type the network shared directory path incorrectly, the Server software will start up, but the clients will be unable to login. If this happens choose **Reset Installation** from the **Edit** menu. The next time you start the server program the installation dialog will appear. Then you will be able to enter the correct shared volume path.

INSTALLING AND RUNNING CLIENTS

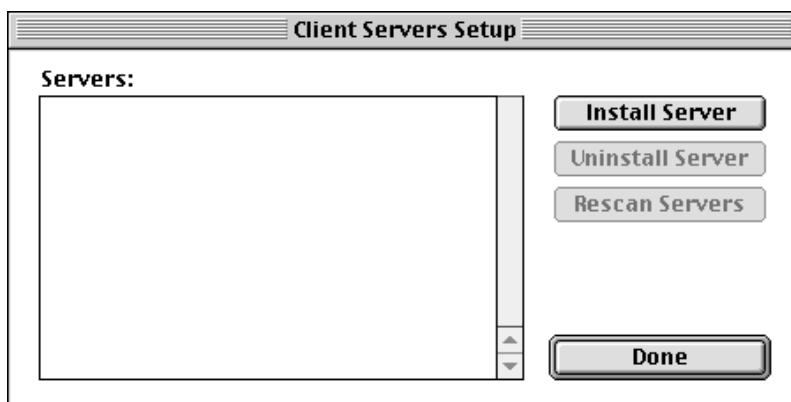
1. Before installing and running Page Pairer Clients, make sure the Server part is already installed and running.
2. Make sure you are able to *see* the server on your desktop. If not make sure the Network control panel is switched to Ethernet and that the Chooser is switched to AppleShare. You should then be able to see your server and be able to mount its volumes on to your desktop.
3. Install Page Pairer on your Macintosh.
4. Run Page Pairer.
5. You will be prompted to personalise your copy. Enter your name and company. You do not have to enter a Dongle Number and Release Code for the Client software.



The image shows a dialog box titled "Installation". It contains the following fields and controls:

- Please personalise this copy:**
- Version:** A dropdown menu with "Page Pairer" selected.
- User Name:** A text field containing "Farrukh Khan".
- Company:** A text field containing "Farrukh Systems Ltd".
- Dongle No:** A text field containing "0000000".
- Release Code:** A text field containing "0000000000".
- Buttons: "Cancel" and "OK".

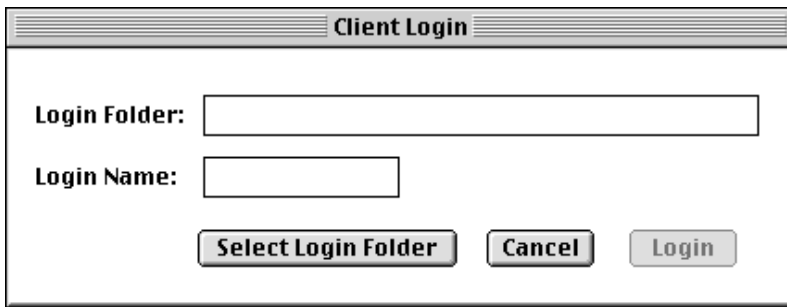
6. Click on OK to bring up the Client Server Setup dialog:



The image shows a dialog box titled "Client Servers Setup". It contains the following elements:

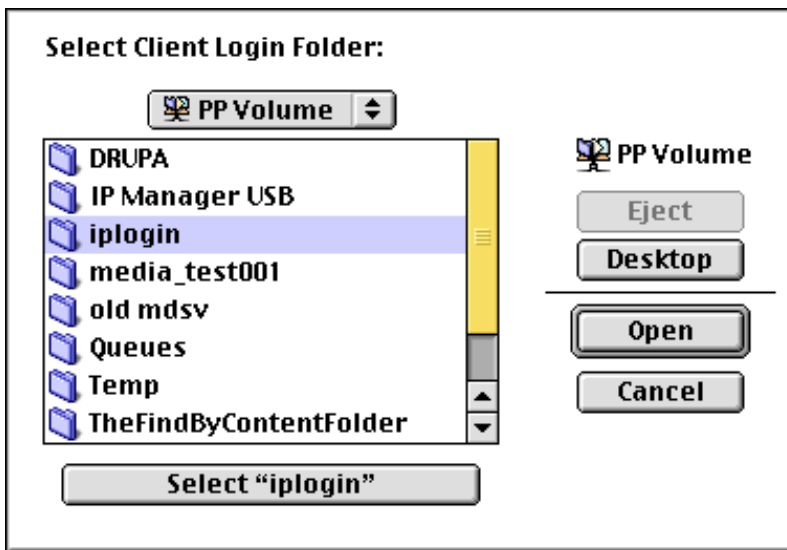
- Servers:** A large empty rectangular area with a vertical scrollbar on the right side.
- Buttons: "Install Server", "Uninstall Server", "Rescan Servers", and "Done".

- Click the **Install Server** button. You are then prompted to login to a Server:



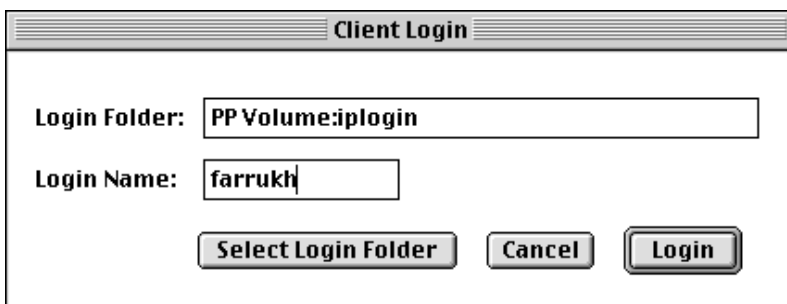
The dialog box titled "Client Login" contains two input fields: "Login Folder:" and "Login Name:". Below these fields are three buttons: "Select Login Folder", "Cancel", and "Login".

- Click on the **Select Login Folder** button. Navigate to the network shared volume and select the **iplogin** folder (this folder is created by the Server on its first run):



The dialog box titled "Select Client Login Folder:" shows a file explorer view of a network share named "PP Volume". The "iplogin" folder is selected in the list. On the right side, there are buttons for "Eject", "Desktop", "Open", and "Cancel". At the bottom, there is a button labeled "Select 'iplogin'".

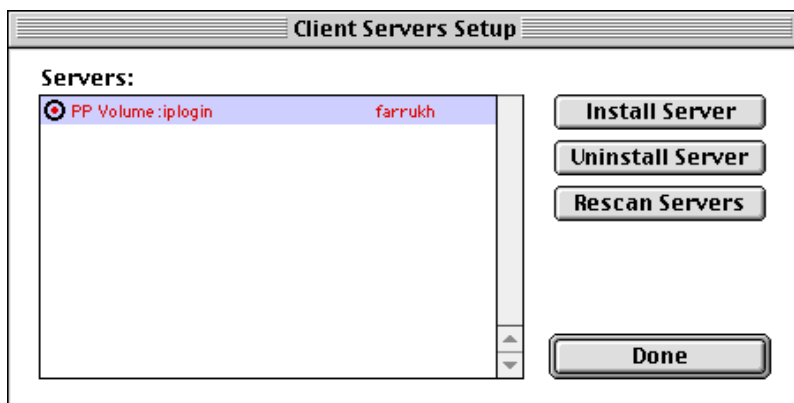
- Enter a login name (up to 8 characters). Then click **Login**.



The "Client Login" dialog box is shown with the "Login Folder:" field containing "PP Volume:iplogin" and the "Login Name:" field containing "farrukh". The "Select Login Folder", "Cancel", and "Login" buttons are visible at the bottom.

Installation

10. The **Client Server Setup** dialog allows you to simultaneously log onto multiple Servers, if required. Click **Done** to complete the login procedure.



Now you are logged in, you are ready to go.

Note: The next time you run Page Pairer, logging in to the server will be automatic.

If there are any problems installing or logging onto the Server

If the Server is unable to log you in, then check the following:

- Try repeating steps 5-10.
- The Server part is actually running
- The Server's volume is mounted on your desktop and so is visible to Page Pairer
- The correct login folder has been selected
- A correct login name has been supplied. If the name is already in use you will need to enter another name and try again.
- If the number of users logged in to the server has reached the limit allowed by your user licence, then you will not be allowed to login. You will need to uninstall one of the other users (See below for how to do this).

If nothing seems to work then contact your supplier or Farrukh Systems directly. (See the **ReadMe** file for how to get Technical Support).

REFERENCE GUIDE

About the Reference

This chapter contains descriptions of all the functions of the software. It is most useful as a reference. The material in this chapter is organised into the following sections:

File Naming

Page Pairer uses a special naming convention for input and output files.

Queue List

Maintains an overview of all the queues. This is the main entry point for queue management.

Queue Progress Window

Monitors the progress of an individual queue.

Queue Setup

Creating, editing and viewing queues.

Pair Options

Options for individual pairs or four-ups, including duplicate pages.

Queue Trims

Imposition values such as trims and creep.

Printing

Custom job settings for printing.

Device Setup & Alignment

Setting up printer devices and aligning output. Rotation of pairs / four-ups is done here.

Print Marks

Selecting print marks such as crop marks and user labels.

Preferences

Setting up some general preferences for Page Pairer.

Uninstalling Users

Describes how to uninstall users from the Client or Server

Setting up Different Security Levels

Describes how to set up different access levels

PPCONFIG File

Short explanation of all parameters in the server configuration file

FILE NAMING

Input File Name Format

Unless the AutoDetect driver has been selected, input files for a particular queue must all be of the same PostScript type (i.e. from the same DTP application) and be of the same PostScript type as that chosen for the queue. Also all files should be created using the same version of DTP application and printer driver.

It is recommended that you save your input PostScript files with crop or registration marks. If you are saving a double page spread from an application such as QuarkXPress make sure that you check the "spreads" option in the print dialog when you save the file to disk as PostScript.

The files that you input to Page Pairer **must** follow the following naming convention. A file name consists of a base name and a file extension separated with a dot/period. Files can have any valid base name, but must end (or begin – see PAGENUM_FIRST flag in PPCONFIG file) with a specific dot-number extension.

Single page files	dot-number extension	.16
Double page spreads	dot-number-d extension	.16d or .16D
Printers pairs	dot-number-p extension	.02p or .02P
Multiple page files	dot-number-dash-number extension	.2-6

The part of the file name before the extension can be different for each file sent to the queue. Some examples of valid input file names are given below: -

Single Page Files

coverpage.1

Double Page Spreads

centerpages.16d

Or,

centerpages.16D

A double page spread input file would be considered as one whole pair. For example, to pair a 32 page job if pages 16 and 17 constitute a double page spread, then there only needs to be one input file for this pair (e.g. centerspread.16D) No other files are required for the pair.

Printer Pairs

If a file name has the suffix 'p' or 'P' the two pages in the file will be treated as printer pairs. For example, in a 16-page queue file 'spread.2p' would contain pages 2 and 15.

Multiple Page Files

Input files can contain several pages. The extension specifies first and last page in the file. For example, a five page file (pages 2 through 6) would have to be named like this:

```
filename.2-6
```

Duplicates

If you have assigned duplicates to a pair (or four-up) then you have to send a 11 versions of the duplicate page plus a single copy of each of the other pages in the pair (or four-up). The different versions of the duplicate page should have a different base name (the first part of the name excluding the extension). As the duplicate base name is used in the output file name. The different base names will then allow you to recognise which duplicate copy of an output file is which. For example a pair containing pages 3 and 14 with 4 duplicates assigned to page 3, the set of input files could be: -

```
picnorth.3  
picsouth.3  
piceast.3  
picwest.3  
textonly.14
```

In the above example the first duplicate page 3 seen will be processed with page 14. Then that copy of page 3 will be moved to Done folder. The next available copy of page 3 will be looked for and again processed with page 14 when found. This continues until the number of duplicates assigned to page 3 have been found and processed. The last page 3 and page 14 are then moved to Done folder.

For a pair with duplicates assigned to a page, if you send a double page spread input file, the file will count as one duplicate page and the other page in the pair and will be moved to Done folder after processing. The same applies for adjacent left and right pages in a four-up.

Points to remember

The naming convention described in this section must be followed correctly for your jobs to work. If you send any extra input files, these will be ignored until the queue's current publication has been processed.

If you send two input files for the same page, without having defined duplicates, Page Pairer will pair the first file that it finds when it scans the input folder.

For a pair containing a page with duplicates assigned, if single page files are sent for the first duplicate version, followed by a double page spread for the second duplicate, some files may be left over in the input directory after all versions of the pair have been completed correctly.

Output File Name Format

Output files are named according to the following convention. All output file names begin with a job number indicating how many times the queue has been reset. If no duplicates are present in a pair (or four-up) then the output name will consist of the job number and then the base file name of the first page in the pair (or four-up) followed by the page numbers of all the pages separated by dots. E.g.

J1_coverpage.32.1

Or,

J1_coverpage.1.32.16.17.

If duplicates have been assigned to a pair (or four-up) then the base file name of the current duplicate page will be used in the output name and an indication of duplicate and page number appended to the end of the name. E.g.

J1_eastadvert.2.31.dup1pg2

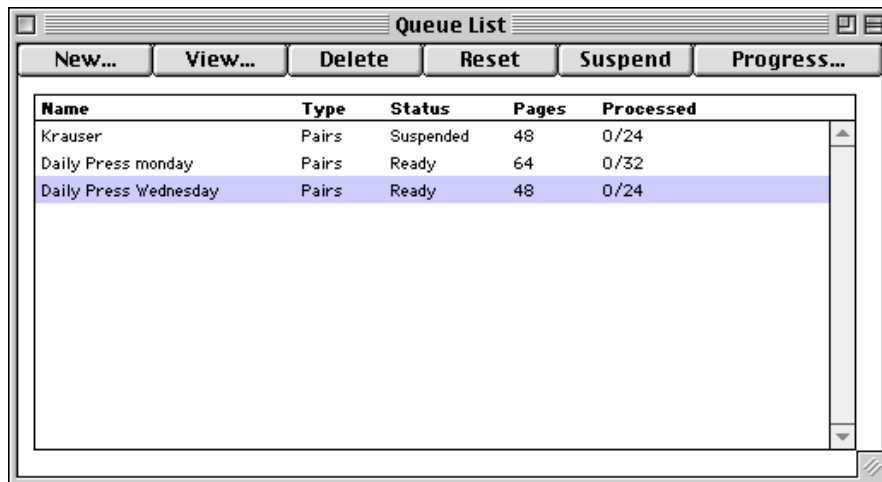
Or,

J1_westadvert.31.2.18.15.dup1pg15.

Note: Page Pairer outputs PostScript files.

QUEUE LIST

This dialog (opens up automatically on the start-up, or, if closed, can be invoked from the File menu) displays information about all existing queues.



Buttons

New...

Displays the **Queue Setup** dialog so that a new queue can be created.

View.../Edit...

Displays the **Queue Setup** dialog that displays the information used to set up the queue. If the queue has been suspended then these settings can be edited. The queue can then be released for the new settings to take effect. If a queue is not in a suspended state then the information displayed is read only.

Delete

Deletes a queue from the queue manager. Input and output directories will be left untouched.

Reset

Resets all pair and duplicate processing information for the queue back to those set before the first pair in the job was processed.

Suspend/Resume

Suspends any further processing of files by a queue. Any pair currently processing (the queue will be marked as "ACTIVE") will be reset when you suspend. Resume will return a suspended queue back to its normal state.

Progress...

Displays the **Queue Progress** dialog showing any pair (or four-up) currently being processed, pages remaining to be processed, pages processed, duplicate pages processed, and any pages for which an error occurred while processing. See the section Progress.

Labels

Name

This field displays the queue name that was assigned in the **Queue Setup** dialog.

Type

This field displays the type of processing that the queue will handle e.g. Pairs or 4-up.

Status

This field displays the current status of the queue. The possible state values are:

Ready

The queue is waiting for files to process.

Active

The queue is processing.

Done

Processing has completed.

Suspended

The queue has been suspended.

Error

An error has occurred in the queue.

Pages

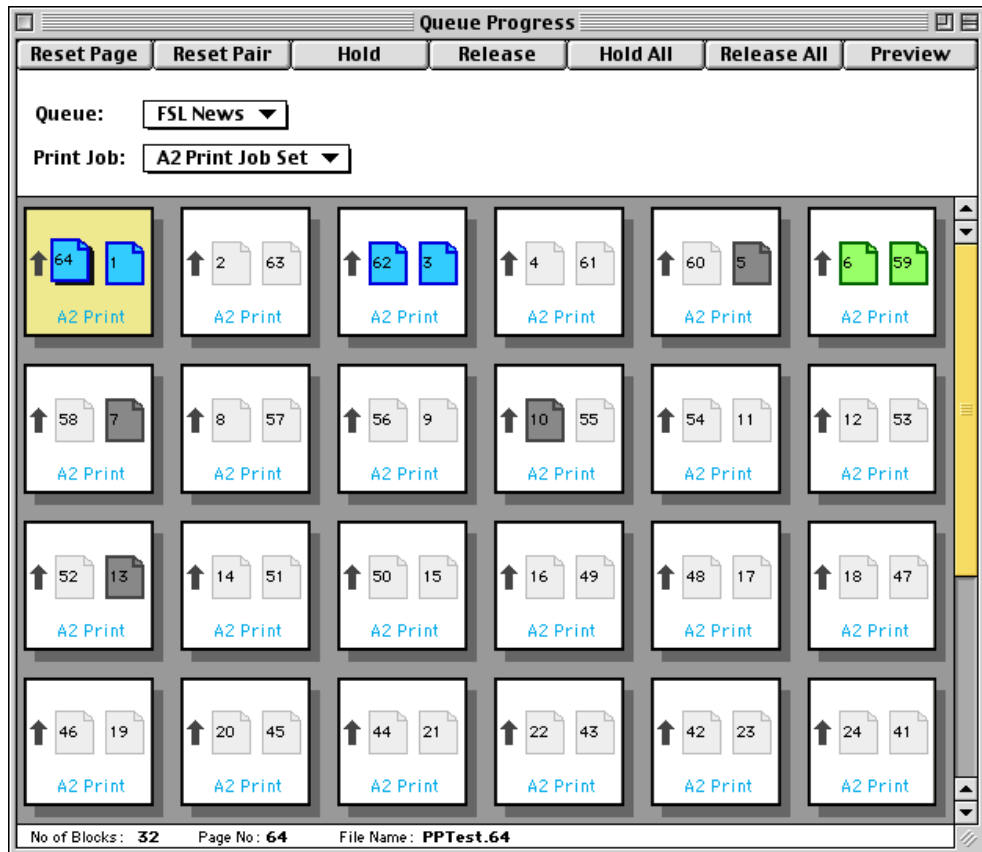
This is the number of pages for the paper or publication job that was assigned in the **Queue Setup** dialog.

Processed

This indicates number of blocks (2-up or 4-up) processed.

QUEUE PROGRESS

The Queue Progress dialog (can be invoked from either File Menu or Queue List dialog) shows progress information on any pair (or four-up) currently being processed, pages remaining to be processed, pages processed, duplicate pages processed, and any pages for which an error occurred while processing.



Page Status

The current status of any page is indicated by the colour of its icon in the Queue Progress dialog.

Light Grey	Waiting	The page has yet to arrive in the input folder.
Dark Grey	Arrived	The page has arrived in the input folder.
Green	Processing	The page is currently being processed.
Blue	Processed	The page has been processed.
Red	Error	An error occurred during the processing of the page.

Note: The currently selected block/page will have a dark border.

Command Buttons

Reset Page

Resets the currently selected pair, and the other pages in the block are brought back into the Input folder.

Reset Pair

Resets the currently selected pair(s). If the pair to be reset is currently processing then the processing will be terminated.

Hold

Holds currently selected pair(s). If a pair is held it will not be processed until it is released.

Release

Releases currently selected pair(s).

Hold All

Holds all pairs.

Release All

Releases all pairs.

Preview

Opens an associated Pdf file in Acrobat Reader / Exchange. This button is only enabled if the currently selected pair has been processed (and Create Preview Files in Queue Setup has been checked on).

Pop-up Menus

Queue

Lists all installed queues. The currently selected queue is displayed in the Progress Dialog.

Print Job

Lists all defined Print Job sets. Individual pairs can be assigned different Print Jobs with this pop-up (the eight letters at the bottom of each block denote short name of the associated Print Job). If a pair has already been processed and the Print Job is changed, the pair gets reset and processed again with the new settings.

Note: Multiple block selection is possible. Reset Pair, Hold and Release buttons as well as Print Job pop-up dialog act on all selected blocks.

Information at the bottom of the Progress dialog

No of Blocks:

Indicates the total number of Pairs or 4-Ups.

Reference

Page No:

Displays the number of the currently selected page.

File Name:

Displays the file name of the selected page.

QUEUE SETUP

This dialog (invoked from **Queue List** dialog by clicking on **New** or **Edit** buttons) is used to set-up the input and output queues. It is from here that the page-pairing process controls and preferences can be set.

The screenshot shows the 'Queue Setup' dialog box with the following fields and options:

- Queue Setup:**
 - Queue Name: FSL News
 - Queue Type: 2UP 4UP
 - No of Pages: 60
 - Sections: 36,24
 - Web: 2
 - Top: Left: Bottom: Right:
 - Insert:
- Queue Folders:**
 - Input Folder: Celery PP Volume :Queues :IN 1 (Select...)
 - Output Folder: Celery PP Volume :Queues :OUT 1 (Select...)
- Queue Printing:**
 - Print Output Files: Default Job Set: Default Print Job Set (▼)
 - Create Preview Files:
 - Use Job Folders: Default Page Setup... (button)

Queue Setup

Queue Name

Type a name to identify the queue and its associated settings. After this dialog is confirmed the Queue Name will appear in the **Queue List** dialog.

Queue Type

Select either 2-up or 4-up.

No of Pages

Specify the number of pages in the complete publication.

Odd Pair (2UP)

When the number of pages for a 2-up queue is not divisible by four, then an *Odd Pair* of pages must be specified in this edit field. The pair of pages should be entered comma separated with the smaller page number first.

Webs (4UP)

Similar to Odd Pair, but this applies only to 4-up jobs. One or two half-webs can be specified. The pair of webs should be entered comma separated. Also the webs can be either Top (default), Bottom, Left or Right. If Insert box is checked on then pages on webs are in consecutive order.

Sections

This allows the publication to be split into a number of sections. For example, '16,16,32', would be entered to create 3 sections of sizes 16, 16 and 32 for a 64-page publication. Note that spaces are not allowed and the section sizes must be comma separated.

Queue Folders

Input Folder

Specifies the input directory, where input files are placed before processing. Note that the folder to be selected must already exist and be visible to the server.

Output Folder

Specifies the output directory where the output files are placed after processing. Note that the folder must already exist and be visible to the server.

Queue Printing

Print output files

Sends the output files to a designated printer on the server, as well as being saved in the output folder.

Create Preview Files

Allows the output files to be previewed before being sent to a designated printer. This option requires Acrobat Distiller installed on the server and Acrobat Reader on the client.

Use Job Folders

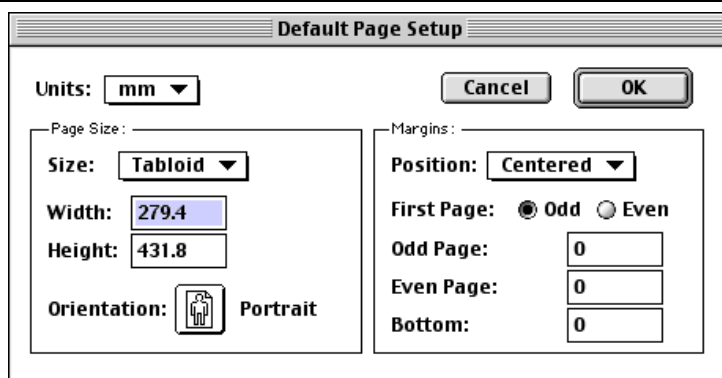
Organises the output files in different folders inside the Output folder. Each different print job setting has its own folder. The Job Folder name is the same as the short name of the associated print job setting.

Default Job Set

The selected Print Job set is set as the default for all print blocks. A different Print Job for individual blocks can be selected in the Progress Dialog.

Default Page Setup...

The **Default Page Setup** dialog can be used to change the page size and margins. These settings are used when Page Pairer cannot detect the actual page size from the input file. For example, if there are no recognisable crop marks, then the page size, positioning and margin settings in this dialog are used.



Units

Use this popup to change the units for this dialog.

Page Size

Size

This popup displays the **document page size**. It is this size that Page Pairer will use as the **trim page size** for printing impositions.

Note: Do not adjust this if the PostScript file was created with crop marks.

Custom can be used for any non-standard page sizes. If the file was created with crop marks, Page Pairer can establish the Page Size and margins to the accuracy of the crop marks. Files created without crop marks might require the Page Size to be entered manually.

Width

The width of the document page. For custom page sizes, you will need to enter the page width here. For non-custom page sizes the width is automatically entered.

Height

The height of the document page. For custom page sizes you will need to enter the page height here. For non-custom page sizes the height is automatically entered.

Orientation

Use this button to set the orientation of the pages. Page Pairer can usually establish the orientation from the file itself.

Margins

This option is used to adjust the position of the page contents within the page area. This may be necessary if the original file did not have crop marks. The adjustment can be different for odd and even pages.

Position

Use this popup to change the position of the page

First Page

Select whether the first page in the block is an **Odd** page or **Even** page.

Odd Page

Enter the horizontal offset that should be applied to all odd pages in the block.

Even Page

Enter the horizontal offset that should be applied to all even pages in the block.

Bottom

Enter the vertical offset that should be applied to all pages (odd and even).

Pair Options...

Displays the **Pair Options** dialog, which allows the setting of custom options for individual pairs, such as duplicate pages and custom labels.

Trims...

Displays the **Queue Trims** dialog that allows the setting of trims and creep for the output.

Preferences...

Displays the **Preferences** dialog which allows the setting of the default PostScript type.

Print Job Setup...

Displays the **Job Setup** dialog which also gives access to the **Device Setup** and **Print Marks** dialogs for setting of the output device size and alignment, defining Print Marks and User Labels.

PAIR OPTIONS

This dialog allows single pages to be duplicated and processed (paired or four-up) with different page files. Here a list of page files to duplicate can be built. Also a custom label can be defined for each block.

Pairs: 32		Duplicate Copies	Rotation	Custom Label
1	(64,1)	64	2	180
2	(2,63)			0
3	(62,3)			180
4	(4,61)			0
5	(60,5)			180
6	(6,59)			0
7	(58,7)			180
8	(8,57)			0
9	(56,9)			180
10	(10,55)			0
11	(54,11)			180
12	(12,53)			0

Custom Label:

Duplicates: Page: Copies:

Custom Label

Defines a special label that is associated only with the corresponding pair. The label is updated when the **Apply (cmd L)** button is pressed.

Duplicates

Page

Specifies the page number on which duplicates are to be applied.

E.g. where the page numbers denote publication page numbers, the front page files:

FrontEng.1, FrontSco.1, FrontWal.1,

could be paired up with the single back page file:

BackUK.48

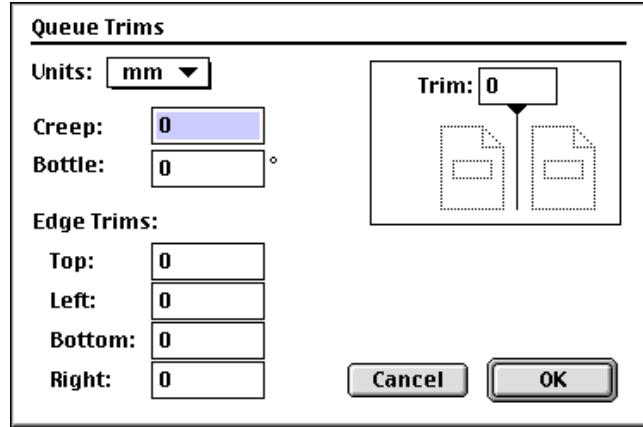
This will produce 3 paired output files all containing BackUK.48 but only containing one from each of the above front page files.

Copies

Specifies the number of versions that Page Pairer expects to process (paired or four-up) with its corresponding process page or pages. For example, specifying 2 copies would result in 3 processed pairs. The number of copies is updated when the **Apply (cmd D)** button is pressed.

QUEUE TRIMS

This dialog allows the trims to be set for a processed pair or four-up.



Creep

Specifies a creep value. Creep is used to adjust the vertical trim to allow for the reduction in gutter margin caused by the folding of a sheet.

Bottle

Allows the rotation of each page to be adjusted to compensate for any rotation caused by folding

Edge Trims

Sets the trim values around the paired output.

Horizontal & Vertical Trims

These edit fields are used to set trims between the output pages. Note that only vertical trim is applicable for a 2-up queue.

PRINTING

This section is about setting up custom job settings for printing. The Job Setup dialog gives access to the **Device Setup** and **Print Marks** dialogs and allows all the printing attributes to be saved as a **Job Set**

Job Sets

The **Job Setup** dialog allows the selection of pre-defined job sets. A job set is a combination of a Device Setup and a Print Mark Set combined with the additional options that can be specified within this dialog.

Printer

This popup is used to select the output device to be used for printing on the server. The selection reflects any output devices that have been defined on the server.

Device

This popup is used to select the **Device Setup** to be used by this Job Set

Mark Set

This popup is used to select the **Print Marks** Set to be used by this Job Set

Print Options

Scale to Fit

Selecting this check box causes the output to be scaled down to the size of the chosen output device if it would not fit otherwise.

Horizontal Scaling

If **Scale to Fit** is not selected then this edit box allows horizontal scaling of the output. 100% is the default and indicates no scaling.

Vertical Scaling

If **Scale to Fit** is not selected then this edit box allows vertical scaling of the output. 100% is the default and indicates no scaling.

Mirror

Selecting this check box causes the output to be mirrored. Mirroring takes place about the vertical axis.

Negative

Selecting this check box causes the output to be printed negative.

Mirror Yellow Plate

Selecting this check box causes the yellow plate to be printed as a mirrored image.

Reverse User Label

This option allows the user label to be reversed compared to the rest of the output.

Save

Save the current settings to the currently selected job set.

Save As

Save the current settings to a new job set.

Delete

Delete the currently selected job set.

DEVICE SETUP AND ALIGNMENT

This section is about setting up printer devices for trouble free printing. The default settings should work fine once you have specified the dimensions of your output sheet. There is support within Page Pairer for aligning the output onto the sheet or plate exactly as required.

This section is divided into the following parts:

- **Creating, Saving and Deleting Print Devices**
- **The Device Setup Dialog**
- **The Alignment Dialog**
- **Printing to Imagesetters**

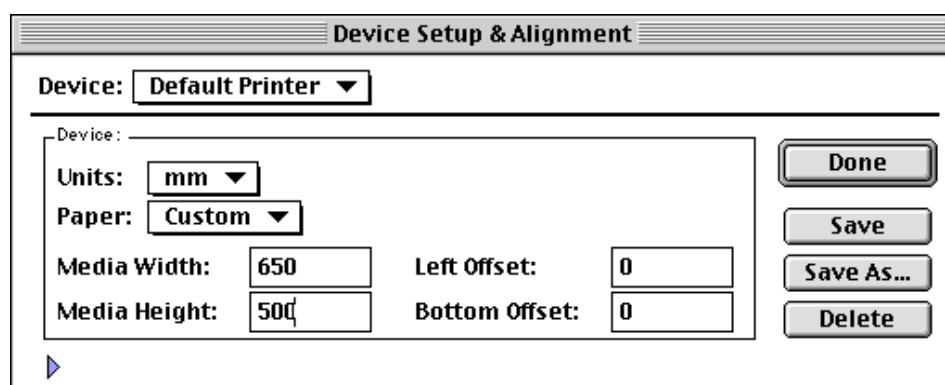
Creating, Saving and Deleting Print Devices

A print device file contains information about your output device settings and job alignment. Print devices can be created for any output devices and for any jobs requiring specific alignment or orientation settings.

Page Pairer displays previously saved devices in a popup menu in the Job Setup dialog. The device settings can easily be changed in the Device Setup dialog. To create a new print device, click *Save As...* and enter a new name. You can have any number of devices according to your needs.

Creating and Saving Print Devices

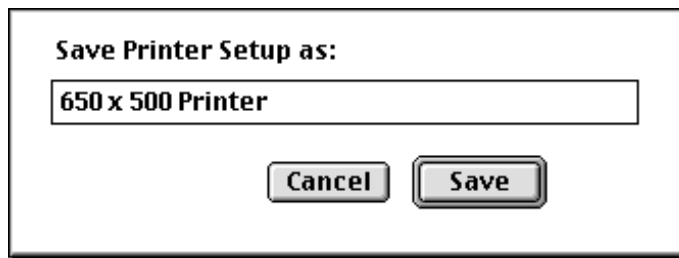
1. Click *Device Setup...* in the **Job Setup** dialog.
2. Enter the desired values for the new device.



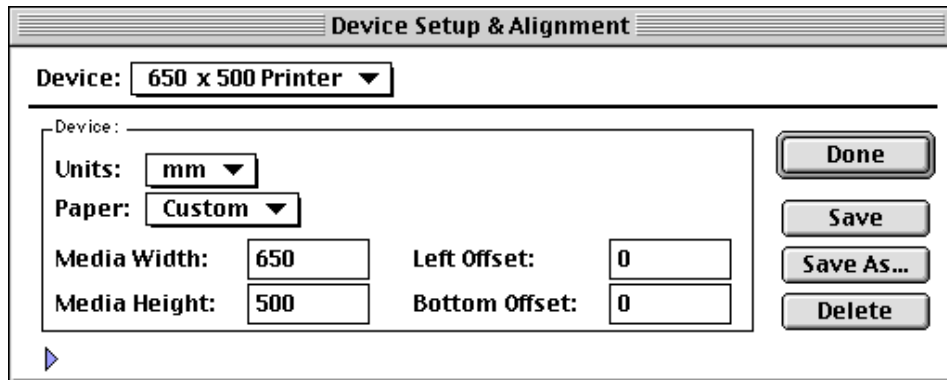
The screenshot shows the 'Device Setup & Alignment' dialog box. At the top, there is a 'Device:' dropdown menu set to 'Default Printer'. Below this, there is a 'Device:' label and a large empty text area. To the right of this area are four buttons: 'Done', 'Save', 'Save As...', and 'Delete'. Below the 'Device:' label, there are four input fields: 'Units:' (set to 'mm'), 'Paper:' (set to 'Custom'), 'Media Width:' (set to '650'), and 'Media Height:' (set to '500'). To the right of these are two more input fields: 'Left Offset:' (set to '0') and 'Bottom Offset:' (set to '0').

3. Click *Save As...* to save these values to create a new print device:

4. Type in the new name and click *Save*:

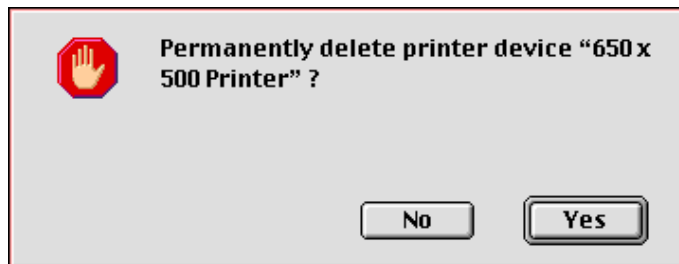


The new device will now appear in the *Device* popup as the current device:



Deleting Print Devices

1. Select *Device Setup...* from the **File** menu.
2. Select the device to delete using the *Device* popup.
3. Click *Delete*.



4. Confirm deletion of the device by clicking on *Yes*.

Note: If there is only one device present it cannot be deleted.

Note

As print devices are files in the "IP Devices" folder it is also possible to copy and delete them using the Finder.

The Device Setup Dialog

Selecting *Device Setup...* in the **File** menu displays the **Device Setup & Alignment** dialog:

Device

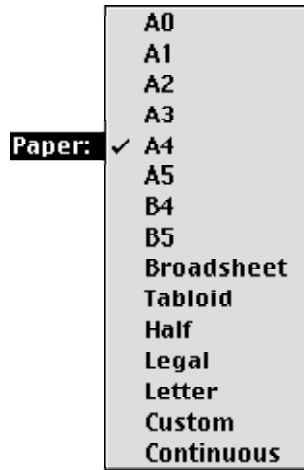
This popup allows you to select the Printer Device that you wish to edit or print to.

Units

This popup allows you to select which units to display, for example inches or millimetres, for the device dimensions and offsets.

Paper

This popup allows you to select the device dimensions.



Media Width

This is the printable width of the media (film, plate or paper), which may not be the same as the physical width.

(See **Printing to Imagesetters** for details on setting up continuous devices).

Media Height/Max. Depth

Media Height

This is the printable height of the media. This is available unless the *Device* is set to *Continuous*.

Max. Depth

For *Continuous* devices this value will be used as the maximum depth. If a block or flat exceeds this depth Page Pairer will tile the output. If the value is set to zero, then whole blocks are printed in one go.

Printer Offsets

When printing in duplex mode on a laser printer or proofer, frequently, the pages print slightly off in alignment, front and back. The **printer's image area** can be moved using these offsets. The offsets are measured from the bottom left corner.

For example, if printing an A5 booklet on an A4 or US Letter size printer, you can use these offsets to ensure that the pages print centrally. This means that the pages line up exactly on the front and back when printing in duplex mode.

Left Offset

This will move the image area right on the paper by the specified distance. To move it left a negative value must be specified.

Bottom Offset

This will move the image area up by the specified distance. To move it down, enter a negative value. Not applicable to continuous devices.

Block Spacing

The space to be left between blocks, when it is possible to place multiple blocks on an output sheet.

For example, if it is possible to fit several blocks onto one sheet enough space needs to be left between the blocks so that the print marks do not overlap. This does not apply to Page Pairer as only one block is printed at a time.

Strip Printing

Continuous Device only. If this is on, then Page Pairer will minimise the memory usage on the output device by outputting each block as a number of strips of pages.

(See **Printing to Imagesetters** for details on setting up continuous devices).

Save (cmd S)

Save the current settings to the currently selected print device.

Save As

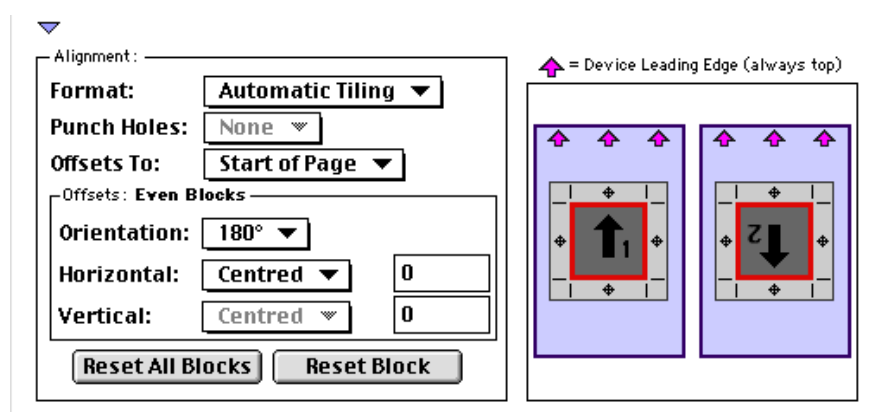
Save the current settings to a new device.

Delete (cmd D)

Delete the currently selected print device.

The Alignment Dialog

The lower half of the Device Setup & Alignment dialog allows you to specify exactly how the output should be positioned on the device area.



Format

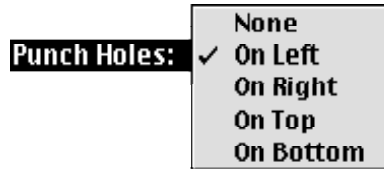
The format is fixed to Odd and Even Blocks for Page Pairer.

It is possible to specify alignment and orientation values for all the odd numbered blocks different from the even numbered blocks.

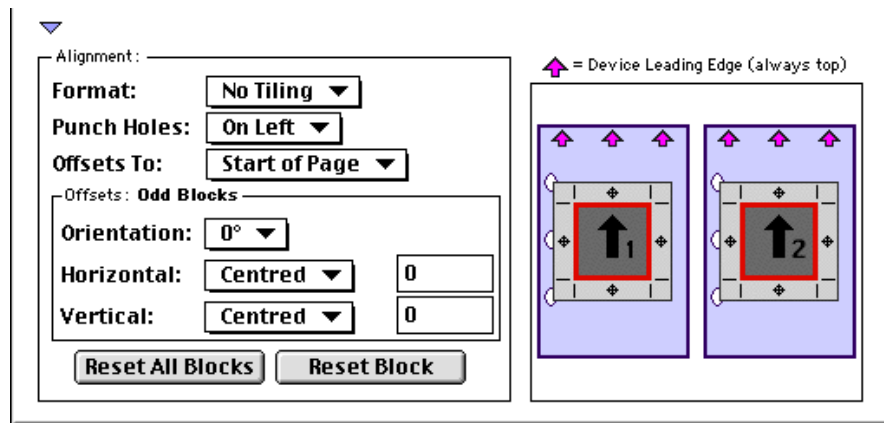
Offsets and orientation settings apply to the blocks indicated in the title of the Offsets box. The diagram above shows settings for the even numbered blocks. To specify settings for odd numbered blocks, click on the image of block 1. The Offsets box title will change to **Offsets: Odd Blocks**.

Punch Holes

Choices for the position of punch holes:



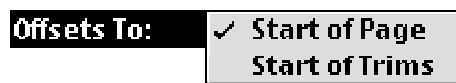
For example, if you select punch holes on the left the preview on the right hand side changes to show the punch holes.



Alignment Offsets To

Precise control is available by specifying offsets from the edge of your device's imaging area to either the edge of finished page or to outside edge of the block.

This is represented in the display by the **thick red line**.



Start of Page

Any offsets are measured from the device edge to the edge of the pages in the block.

Start of Trims

Any offsets are measured from the device edge to the outside edge of the crop marks.

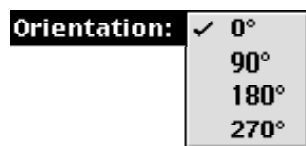
Alignment Offsets

The settings in the Offsets box control the orientation and position of the block.

Any changes made apply only to the currently selected block.

Orientation (cmd ↑, cmd ↓)

The orientation in 180° intervals of the block:



Please note that for Page Pairer, only the options 0° or 180° are valid.

Important: If you require the output a specific way around, for example for Direct to Plate work or for a Punch system, then you should set the orientation manually.

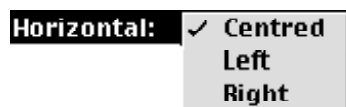
cmd ↑ orientates the block/tile piece to 0°.

cmd ↓ orientates the block/tile piece to 180°.

The orientation of a block or individual tile piece can also be changed, in 180° increments, by clicking on the block or tile piece in the Alignment Display.

Horizontal

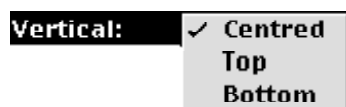
Sets the horizontal alignment for the block. You can set an edge, **Left** or **Right**, or **Centred** from which to align to and measure offsets from:



Offsets greater than zero will shift the block to the right and offsets less than zero will shift it to the left.

Vertical

Sets the vertical alignment for the block. You can set an edge, **Centred**, **Top** or **Bottom** to align to and to measure offsets from.



Offsets greater than zero will shift the block or tile piece upwards and offsets less than zero will shift it downwards.

Note: This is not available if using a continuous device.

Reset Block

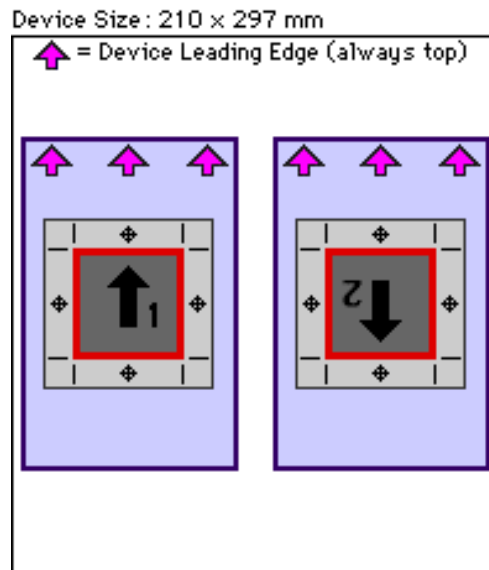
Will reset the orientation and alignment options for the block to default values.

Reset All Blocks

Will reset the orientation and alignment options for all the blocks to the default values.

The Alignment Display

The display below is a representation of the output device and the blocks.



- The device is the background (blue) frame and the block or tile pieces are clearly labelled.
- The device and the block or tile pieces are **NOT drawn to scale**.
- The **alignment offsets are drawn to scale relative to the device size**.
- The **Device Leading Edge** arrows (pink) indicate the direction of movement of film through the device and hence which edge of the block will appear first from the machine.
- The **thick red line** indicates where the offsets are measured to from the edge of the device.
- The orientation of the block can be changed in 180° intervals by clicking on the block itself.
- To **switch between different tile pieces** just click on the relevant one. The first click will switch to that tile piece and subsequent clicks will change the orientation as described above.
- The **device size** is displayed along the top of the display frame.

Printing to Imagesetters

Continuous Output Devices

The screenshot shows a dialog box titled "Device Setup & Alignment". At the top, the "Device:" dropdown is set to "ECRM StingRay". Below this, there are several input fields and a checkbox:

- Units:** A dropdown menu set to "in".
- Paper:** A dropdown menu set to "Continuous".
- Media Width:** A text input field containing the number "25".
- Max. Depth:** A text input field containing the number "64".
- Strip Printing:** A checked checkbox.
- Left Offset:** A text input field containing the number "0".
- Bottom Offset:** A text input field containing the number "0".

On the right side of the dialog, there are four buttons: "Done", "Save", "Save As...", and "Delete".

A “**Continuous**” output device is any roll-fed device that allows different sheet depths. Page Pairer will automatically calculate the depth needed for that job and sets up the imagesetter accordingly. In this mode whole blocks, or tiled sections, will be printed in one go.

There is a *Max. Depth* value which, if not set to zero, will be used as the maximum depth of a continuous device. If a block or flat exceeds this depth then Page Pairer will tile the output. If this is zero, whole blocks are printed in one go.

To maintain compatibility with older limited memory roll-fed imagesetters, there is a **Strip Printing** option. When this is checked, Page Pairer outputs every row of pages individually, to minimise memory usage.

The Strip Printing option should only be used when the imagesetter is a continuous roll-fed device **and** you have been experiencing out of memory errors. All modern devices should have enough memory to cope without resorting to Strip Printing.

Important Points to Remember

1. When printing to a continuous device, the width should be set to the imaging width, which is not necessarily the width of the material.

For example, an imagesetter running 12" (304.8 mm) material, the image width is typically 303 or 304.8 mm. A *rangecheck* error from your RIP is an indication that the value for Media Width is set too large in the Device Setup dialog.

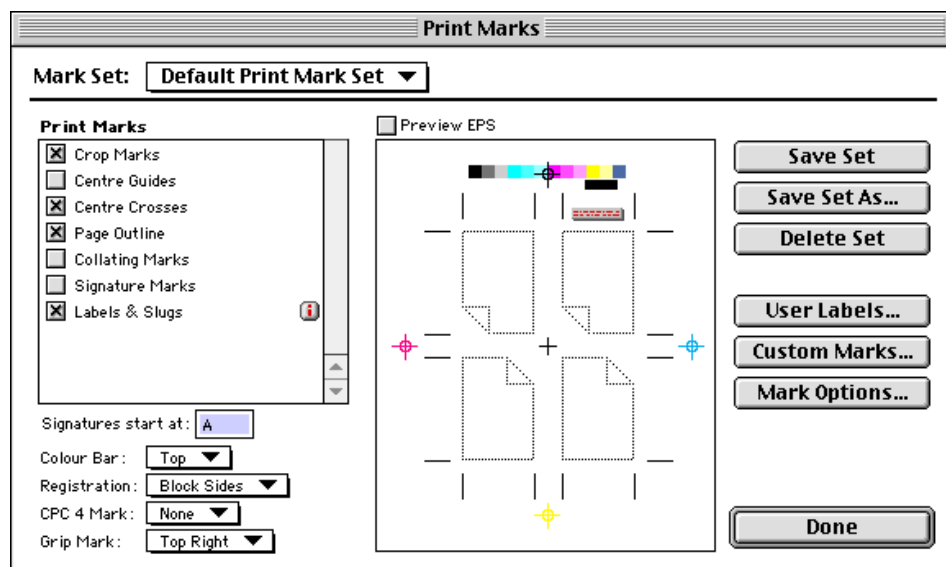
PRINT MARKS

You can specify your own particular set of default print marks. The print mark settings are saved permanently so they may be re-used the next time the program is used. This section is divided into the following parts:

- **The Print Marks Dialog**
- **Standard Print Marks**
- **Print Mark Options**
- **User Label Dialog**
- **Custom Print Marks**

The Print Marks Dialog

The Print Marks dialog is reached either by Selecting *Print Marks...* in the **Edit** menu or from the **Queue Setup** dialog.



This dialog is used to specify which print marks to use. The list of checkboxes shows the standard print marks and any custom print marks you may have created.

Simply check the relevant boxes on and see the marks described appear on the display.

- The **first seven checkboxes**, along with the **popups**, are **Standard** print marks. These are permanently installed and cannot be edited, just switched on and off.
- All other checkboxes are **Custom** print marks. Page Pairer creates a list of all the custom marks found and adds them to the list of checkboxes, after the standard marks.

Save Set (cmd S)

Save the current print mark settings.

Save Set As

Save the current settings to a differently named print mark set.

Delete

Delete the currently selected print mark set.

Labels... (cmd L)

This button will allow you to create a user label or slug. See the **User Label Dialog** below.

Custom Marks... (cmd M)

This button allows you to create, edit, copy and delete custom print marks.

See **Creating and Editing Custom Print Marks** and **The Custom Marks Dialog** below.

Mark Options... (cmd O)

This button allows you to adjust offsets for standard print marks and set the crop mark lengths for the current mark set.

See **Standard Print Mark Options** below.

Done

Exits the Print Marks dialog. You will be prompted to save the current print mark set if it has been changed.

Standard Print Marks

Crop Marks

These are marks that appear around the edge of the block indicating the edges of the individual pages.

Centre Guides

These are marks that appear around the edge of the block marking the centre line between rows and between columns of pages.

Centre Crosses

These are crosses that mark the centre of a group of four pages.

Page Outline

Pages will print with a dotted outline. These can be used in place of Crop Marks.

Collating Marks

Page Pairer automatically calculates the position and height of the marks and can handle multiple collating marks in one block. Page Pairer will start with the first collating mark starting at the top and will work down. If the first block required is not the first block in the imposition, you can adjust the position of the first collating mark by setting *Signature Start At* to something other than A.

For example, if the first block were the third block in the imposition, you would set *Signature Start At* to C.

Signature Marks

This is used to specify:

- a) a label to be printed on each block indicating the block letter and whether it is an outer or an inner block.
- b) a letter to be printed at the foot of the first page of each section indicating which section it is.

Signature Start At

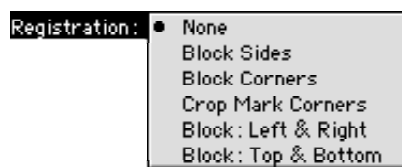
This is used to specify, within the imposition, the location of the first block being imposed. If it were the fourth block being imposed first, this field would be set to D. Changing this field affects both the *Collating Marks* and the *Signature Marks*.

User Label/Slug

This allows the user to specify whether to print a user label or not. See the **User Label Dialog** below on how to create and position labels.

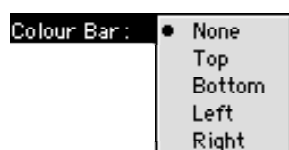
Registration

Select the positions you require from the following:



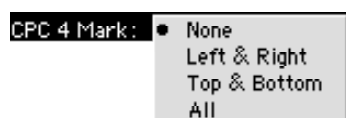
Colour Bar

This is Page Pairer's standard colour bar. It will print along the length or width of each block and will colour-separate if necessary. It can print up to 6 colours in one strip, so that for more than 6 colours extra strips will be printed alongside the first one. Select the position you require from the following:



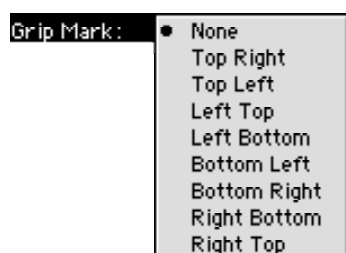
CPC 4 Mark

These are Heidelberg CPC 4 Marks and are included with our software as part of the standard package. Select the positions you require from the following:



Grip Mark

This is used to specify where, if at all, the side guide mark should appear. Select the position you require from the following:



Custom Print Marks

Page Pailer adds any custom print marks found to the list of checkboxes in the Print Marks dialog. Custom Print Marks can be checked on or off as needed in the Print Marks dialog. When switched on, the custom marks will appear in the right hand display, roughly to scale, in the correct position and size relative to the page.

Disabled Custom Marks

If an EPS file associated with a custom mark cannot be located, then the mark name appears in red.

To enable it, either:

- Click on the check box to search for the EPS file.
- Double-click on the custom mark to search for the EPS file and edit the custom mark.

See **Creating and Editing Custom Print Marks** and **The Custom Marks Dialog** below.

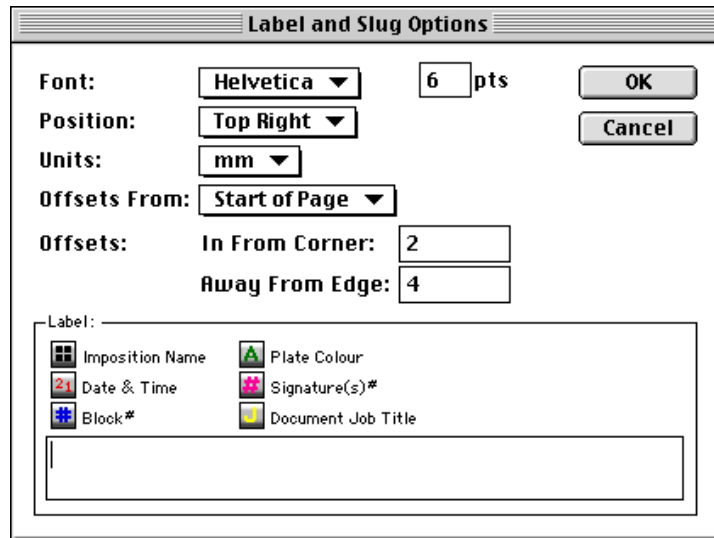
Preview EPS

If this is checked, then a preview image of each custom mark will be displayed (if available).

If this is not checked, then any custom marks will be displayed using a general EPS icon. This can be useful if custom marks based on large complex EPS files take a long time to display.

The User Label Dialog

Click *User Labels...* in the Print Mark dialog. The **Label and Slug Options** dialog appears:



This dialog allows you to create a label that will print with each block.

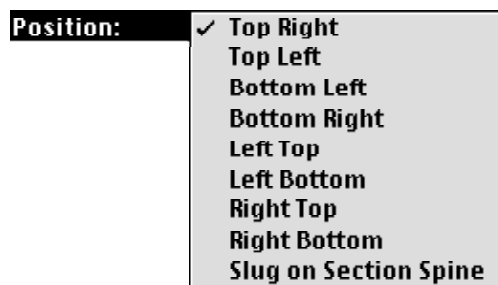
Font

This specifies the font and size that the label text is printed in. There is a choice of three fonts:



Position

This specifies where on the block the label prints. The following choices are available:



Section Spine is the gutter between the first and last pages of each section i.e. the spine.

Note: If the User Label/Slug check box is switched on then the user label/slug will be displayed at the position that was selected here.

Units

The offsets can be measured in various units via the **Units** popup next to the offsets.

Offsets From

This specifies whether to measure the offsets from the edge of the page or from the edge of the trim area.



Offsets In From Corner, Offsets Away From Edge

These offsets can be used to position the user label anywhere on the block. The offsets are measured from the selected position above.

Label Icons

Imposition Name (cmd I)

This will place a marker in the label that will be replaced by the imposition name when printing.

Date & Time (cmd D)

This will place a marker in the label that will be replaced by the date and time of the job when printing.

Block # (cmd B)

This will place a marker in the label that will be replaced by the block number of the current block being printed.

Plate Colour (cmd P)

This will place a marker in the label that will be replaced by the plate colour of the current block being printed.

Signature(s) # (cmd S)

This will place a marker in the label that will be replaced by the signature letter or number of the current block being printed.

Document Job Title (cmd J)

This will place a marker in the label that will be replaced by the Job Title from the current PostScript file being printed.

NB This feature is not applicable to all types of PostScript files.

<filename>

This has to be typed manually. It will place the output filename in the user label.

When you have finished setting up your User Label, click on *OK* to return to the Print Marks dialog.

Standard Print Mark Options

Click *Mark Options...* in the Print Mark dialog. The Standard Mark Offsets dialog appears:

Units

The units in which to display the offsets.

Offsets from

This specifies whether to measure the offsets from the edge of the page or from the edge of the trim area.

Crop Mark Length

Crop mark length is equal to the value specified in the **Crop Mark Length** box.

Registration, CPC 4 and Grip Mark Offsets

These offsets are the values used to position the above marks from their positions selected in the Print Marks dialog.

Colour Bar Offset

This offset is the distance to the start of the colour bar from the edge selected in the Print Marks dialog.

Custom Print Marks

This section explains how to set up custom marks. Custom marks are special print marks based on EPS files.

Creating and Saving Custom Print Marks

1. Select *Marks Setup...* from the **Edit** menu.
2. Select *Custom Marks...* from the **Print Marks** dialog.

This brings up the **Custom Marks List** dialog where it shows the list of available custom marks.

3. Select *New...* from the **Custom Marks List** dialog.

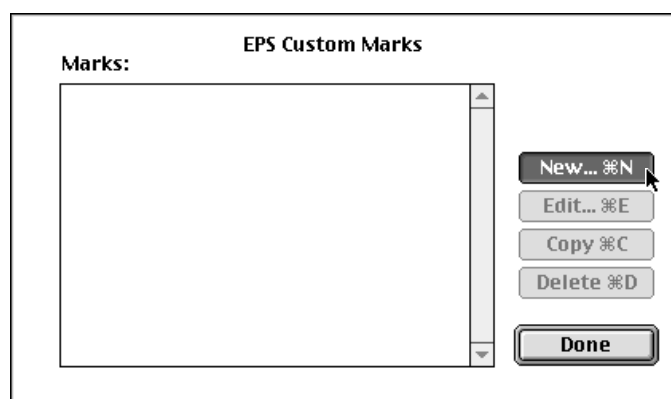
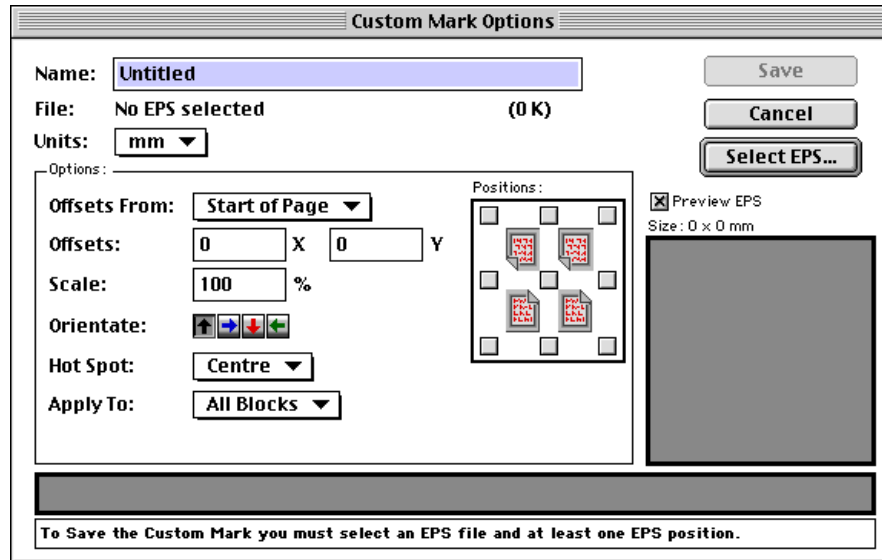


Figure 0-15 Custom Marks List

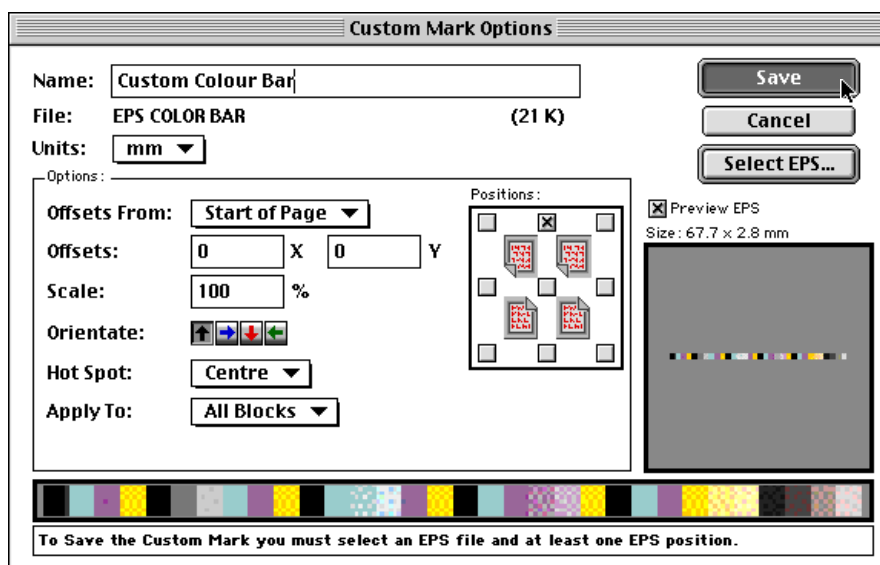
This brings up the **Custom Mark Options** dialog where you can set up the new custom mark.



Once in the **Custom Mark Options** dialog, you must:

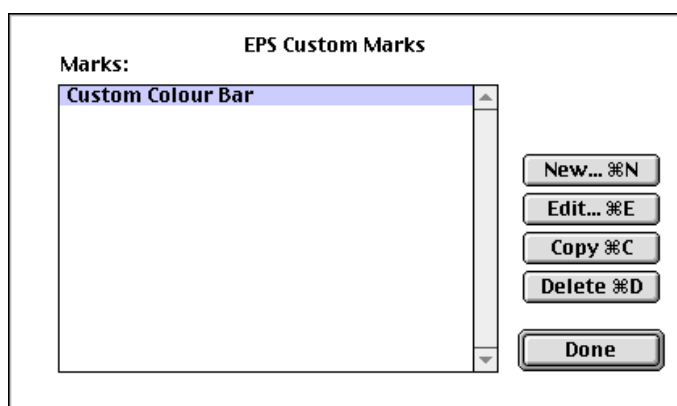
4. Type a name for the custom mark in the *Name* field.
5. Click on *Select EPS...* to choose the EPS mark using the standard file selection dialog.
6. Select at least one *Position* to print the custom mark.
7. Enter any other options you may want. Other options available are:
 - The orientation (0°, 90°, 180°, 270°).
 - Which blocks to print the custom mark on.
 - The hot spot: a point on the EPS that lines up with the selected position.
 - The mark scaling (between 1% & 1000%).
 - Offsets relative to the chosen position(s).

8. Click **Save** to save the custom mark with the given name.

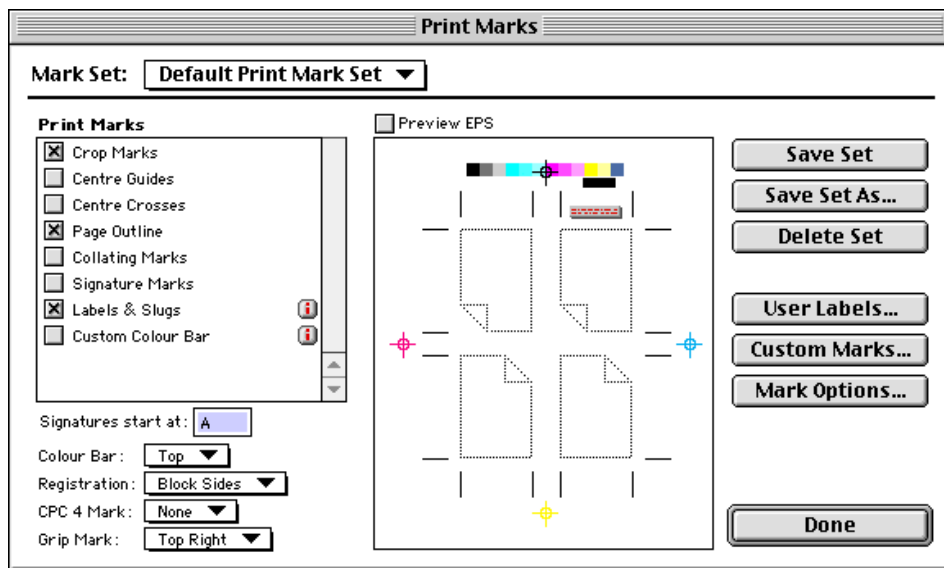


Note: Until an EPS file and at least one position have been selected the mark cannot be saved.

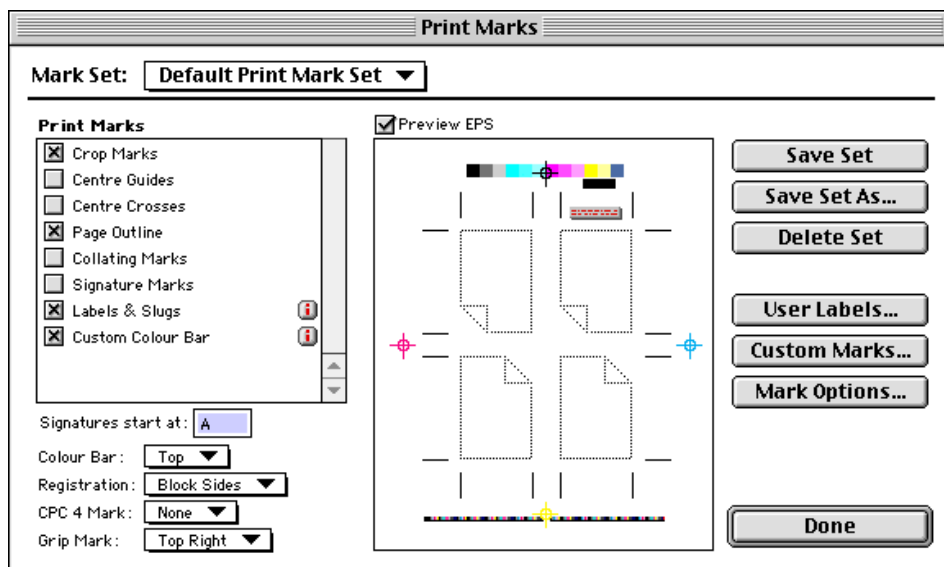
Once saved the new custom mark will appear in the **Custom Marks List** dialog:



It will also appear in the **Print Marks** dialog as a check box in the list:



To use this custom mark simply check it on. It will then appear in the display at the position(s) selected:

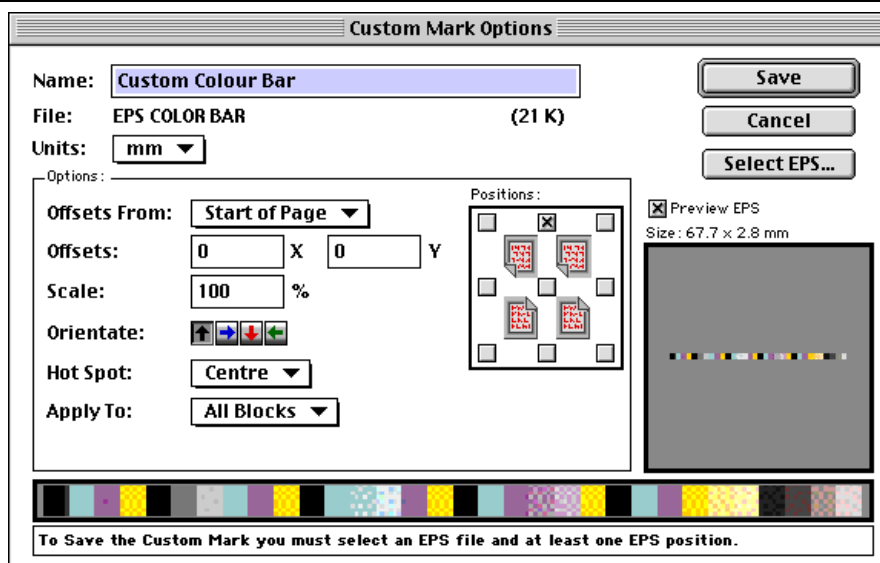


Editing Custom Print Marks

To edit a custom print mark:

1. In the **Custom Marks List** dialog click *Edit...* to edit the currently selected custom mark. Or double-click the custom mark. Alternatively, in the **Print Marks** dialog, double-click the custom mark name or click the small Information button in the list of print marks.

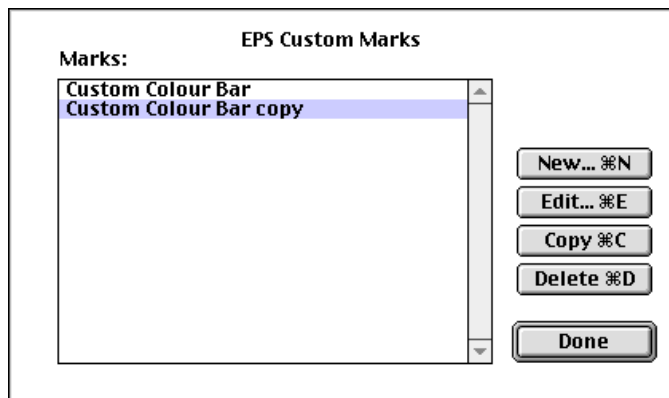
The **Custom Mark Options** dialog appears:



2. Make the changes required in the **Custom Marks** dialog.
3. Save the custom mark.

Copying Custom Print Marks

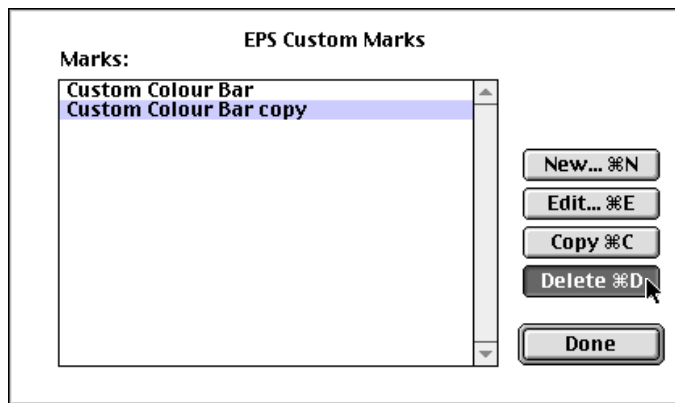
1. Select *Marks Setup...* from the **Edit** menu.
2. Click *Custom Marks...* in the **Print Marks** dialog.
3. Select *Copy...* to copy the currently selected custom mark in the list.



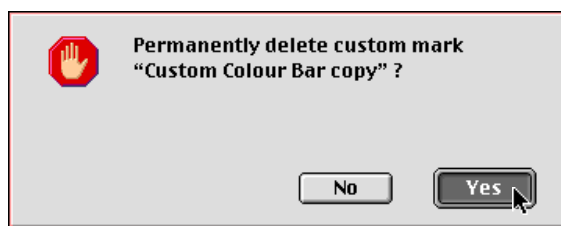
Deleting Custom Print Marks

1. Select *Marks Setup...* from the **Edit** menu.
2. Click *Custom Marks...* from the **Print Marks** dialog.

3. Click *Delete...* to delete the currently selected custom mark in the list.



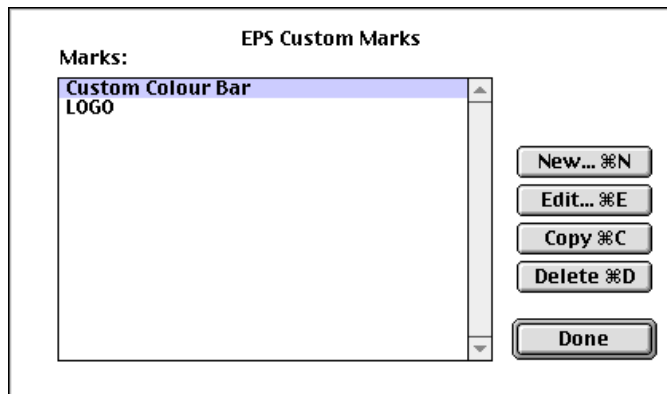
4. Confirm delete by clicking *Yes*.



Note: as the custom marks are stored as files inside the **Marks** folder it is also possible to copy and delete custom marks using the Finder.

The Custom Marks List Dialog

This dialog shows all the custom marks in the **Marks** folder and allows you to create, edit, copy and delete custom marks.



New... (cmd N)

Click *New...* to create a new custom mark.

Edit... (cmd E)

Click *Edit...* to edit the currently selected custom mark.

Copy (cmd C)

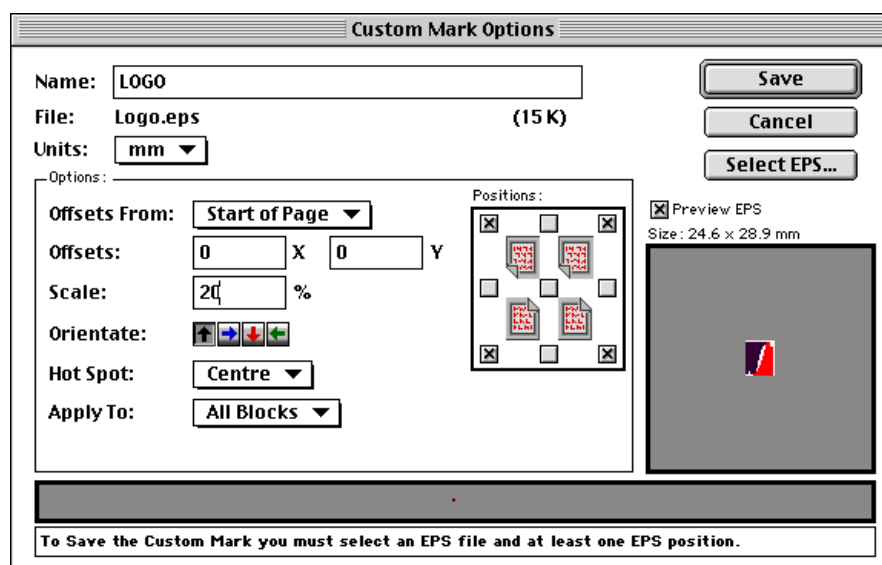
Click *Copy...* to copy the currently selected custom mark.

Delete (cmd D)

Click *Delete...* to delete the currently selected custom mark. You will be asked to confirm this as a precaution.

The Custom Mark Options Dialog

This dialog allows you to set up the new custom marks and edit existing custom marks.



The square EPS preview diagram is used to display all EPS files whatever orientation is selected.

The long thin EPS preview diagram is useful for displaying colour bars. The orientation selection has no effect on this preview. If you create your own EPS files, we recommend creating horizontal rather than vertical colour bars for best use of this display.

Name

This is the name of the custom mark. It is up to you to choose a name for the custom mark.

File

This is the name of the EPS file to be associated with the mark. This can reside anywhere on any volume. Once an EPS file has been selected, the name and size in K (kilobytes) are displayed here.

Note: If this is empty, i.e. no EPS file has been selected, then the custom mark cannot be saved.

Size

Once an EPS file has been selected, the dimensions of the EPS file are displayed here in the chosen units.

Units

The units in which to display the custom mark offsets and the dimensions of the EPS file.

Select EPS (cmd S)

Allows you to select an EPS file for the custom mark and/or change the EPS file for an existing custom mark.

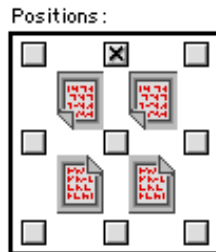
Note: Until an EPS file has been selected the custom mark cannot be saved.

Preview EPS

Switches EPS previewing on or off. If the EPS preview takes too long to display, then switch previewing off.

Positions

There are nine possible positions for each custom mark. They are all marked by checkboxes:

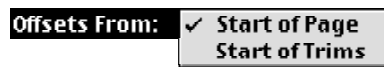


Check on the positions at which the custom mark should print.

Note: Until at least one position has been selected the custom mark cannot be saved.

Offsets From

Allows you to decide whether the offsets should start from the edge of the page or the edge of the trim area.



Offsets

These are the horizontal (X) and vertical (Y) offsets that can be used to position the EPS mark anywhere on the block. The offsets are measured from the selected position(s) above.

Scale

This allows scaling up or down of the EPS mark. Choose values between 1% and 1000%. If the EPS mark is re-scaled the preview displays will reflect this.

Oriente

This allows the EPS mark to be rotated to the correct orientation. Choose between 0°, 90°, 180° and 270°:

Oriente: 

If the EPS mark is re-orientated then the square preview will show this.

Hot Spot

The hot spot is the point in the EPS mark that is chosen to line up exactly with the selected position(s). Use this in conjunction with the position(s) and offsets to place the custom mark. The default hot spot is *Centre* but there are several other choices:



For Example:

1. To print a colour bar centred along the top, select the *top middle position* together with the *centre hot-spot* selection.
2. To print a colour bar left aligned along the top, select the *top left position* together with the *left edge hot-spot* selection.
3. To print a rotated colour bar vertically and top-aligned down the left side, select the *top left position* together with the *top edge hot-spot* selection.
4. To print a rotated colour bar vertically and bottom-aligned up the right side, select the *bottom right position* together with the *bottom edge hot-spot* selection.

Apply To

This is used to select which blocks the custom mark should print on. For some marks you may wish to print them on all blocks, but for other marks only print on some blocks or at certain regular intervals. The following choices are available:



All Blocks

Print the custom mark on all blocks.

Even Blocks

Print the custom mark on all even blocks.

Odd Blocks

Print the custom mark on all odd blocks.

Points to remember

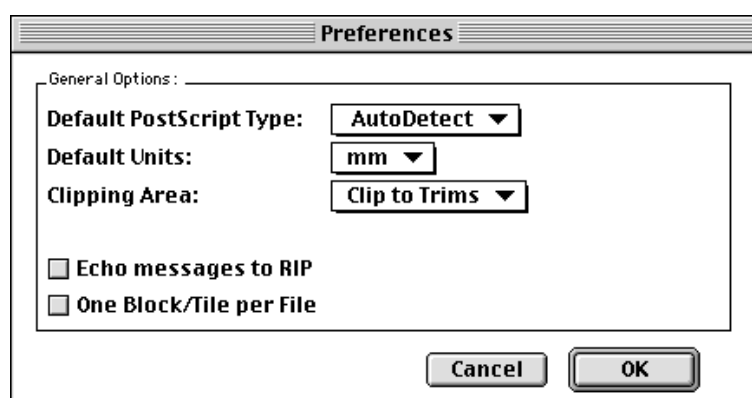
- To save a Custom Mark, you must select an EPS file and at least one position. Otherwise, the *Save* button is **disabled**. This is the initial state of the dialog when creating new custom marks.
- For each custom mark be aware of:
 - which positions have been selected
 - what offsets are set. Remember they apply to all positions equally.
 - which hot spot has been selected. This could dramatically change the position of the custom mark on the block.
 - the orientation of the custom mark
 - the scaling of the custom mark.

PREFERENCES

The Preferences Dialog

This dialog is used to specify your particular preferences (defaults) for the way the program works and what appears in certain dialogs. The preferences are saved permanently, so they remain in effect the next time the program is used.

To display this dialog click the Preferences button in the **Queue Setup** dialog:

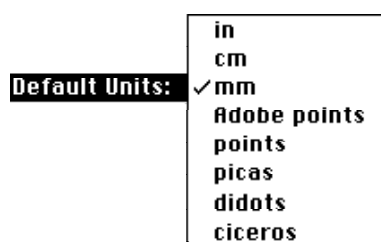


Default Driver

This is used to specify the default PostScript Type that will be used to process files. If you chose AutoDetect then the PostScript type of a file is detected automatically, and file types may be mixed.

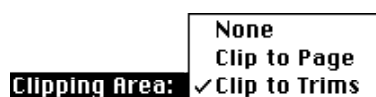
Default Units

This is used to specify the default units used throughout the program. The following choices are available:



Clipping Area

Some users will be working with pages that *bleed* (print beyond the edge of the page). This can cause problems when printing impositions because one page can bleed onto another. To avoid this, the user has the option of limiting the bleed to one of the following:



None

Not limiting the bleed at all and leaving the bleeds as they were in the original file.

Clip to Page

Limits the bleed to the edges of the page.

Clip to Trims

Limits the bleed to the edges of the trims.

Crop Mark Length

Crop Mark Length is used to control the length of the crop marks. Sometimes an imposition will only just fit on an imagesetter, leaving very little room for crop marks. Therefore, it is important to be able to control their length. Rather than making the user repeatedly change the length of crop marks for different jobs, Page Pairer allows the user to specify a range for the length of the crop marks. Page Pairer will then try to print them with the *Preferred Crop Mark Length* but will reduce them down to the *Minimum Crop Mark Length*, if necessary.

Preferred

Preferred is used to specify the preferred length of the crop marks.

Minimum

Minimum is used to specify the shortest acceptable length of the crop marks.

Echo Messages to RIP

If this check box is selected then messages are placed in the output PostScript file which report to the RIP at which stage the processing of the file has reached.

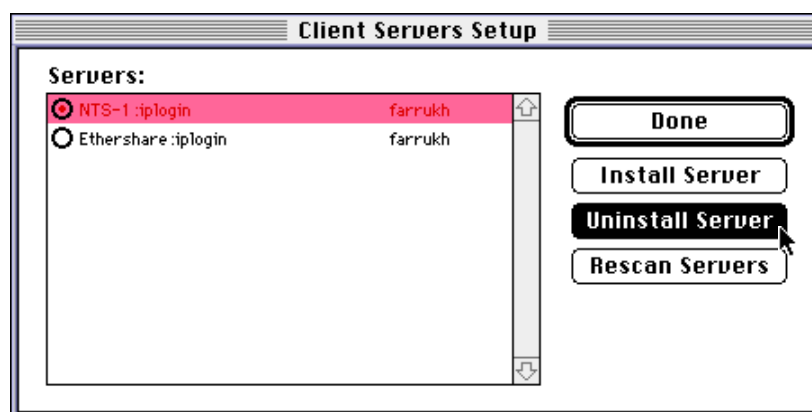
UNINSTALLING USERS

From the Client

A user can uninstall themselves from a Server to free their slot on the Server. You can only uninstall a user if they are currently logged onto the Server.

To uninstall a user

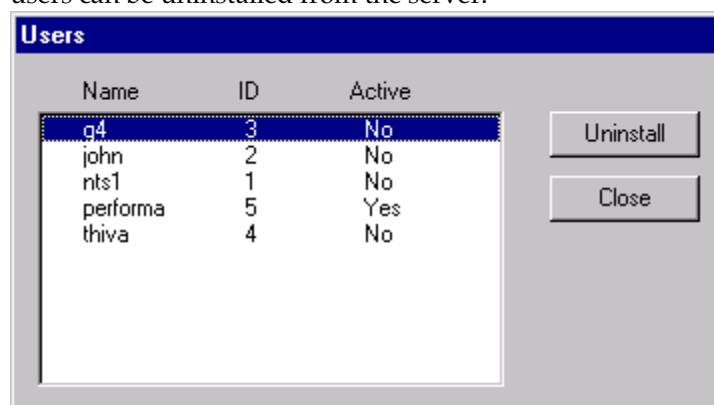
1. From the Client software select **Installation** from the **Edit menu**, and click **OK**.
2. The **Client Server Setup** dialog will show the currently logged in Servers. Select the Server from which you want to uninstall and click **Uninstall Server**:



3. The Server will be removed from the list and the vacant slot will be available for another user to log into.

From the Windows NT Server

1. From the Server software, select **Users...** from the **Edit menu**.
2. The **Users** dialog will show a list of all the users. Select the user that you want to uninstall and click **Uninstall**. Note that only currently logged out users can be uninstalled from the server.



Reference

3. The User will be removed from the list and the vacant slot will be available for another user to log in.

From the UNIX Server

1. Log out all Page Pairer Clients
2. Stop the Page Pairer Server software
3. Delete **Clients.dat** and **Clients.bak** files which can be found in the **data** directory of your Page Pairer Server installation
4. Restart the Page Pairer Server. (Your users may have to repeat the login process the next time they start the Page Pairer Client.)

SETTING UP DIFFERENT SECURITY LEVELS

Four levels of security can be set up by creating a 'password.txt' file in the installation folder at the Server. This file should contain password information in the following format:

level, password

For example:

1, Admin
 2, supervisor
 2, manager
 4, monitor
 3, JOURNALIST
 etc.

The levels don't have to be arranged in any particular order, and also the number of spaces and tabs after the comma is irrelevant. Passwords you type here are case-sensitive, i.e. the users will have to type them in exactly the same format as they are here.

Once this file is created every time on logging in a password dialog on the Client will pop-up. If this dialog is cancelled the Client software will quit. However if a correct password is entered then the appropriate level of access to Page Pairer features will be assigned:

Level 1 - All command buttons and menu items available.

Level 2 – No queue editing can be done:

File Menu:	Print Job Setup, Device Setup and Print Marks disabled
Queue List Dialog:	New, View/Edit, and Delete buttons disabled
Progress Dialog:	Print Job pop-up dialog disabled, all other buttons available.

Level 3 – No command buttons available in Queue List Dialog.

Progress Dialog:	Print Job pop-up dialog disabled, all other buttons available.
------------------	---

Level 4 – Only queue monitoring possible

The security level can also be changed at the Client while Page Pairer is running by selecting 'Security...' item under the Edit menu.

Every time you edit the 'password.txt' file the Server part of the Page Pairer will need to be restarted.

PPCONFIG FILE

This file sits at the root of the Page Pairer Server installation, and if you ever edit it, you should restart the server for the change to take effect. Here follows a short explanation of all parameters:

QSTATUS_TIMEOUT=10 (seconds)
Sets the refresh rate of the status file (*.sts*) and of the console display (unix only).

QSPREAD_TIMEOUT=60 (seconds)
Time out value for loading queue data files. The server at the start-up reads all queues, and if there were any problems with it an error would be reported in 60 seconds.

QSWRITE_TIMEOUT=60 (seconds)
Time out value for writing queue data files to the disk. This happens every 10 seconds (value specified in the next parameter 'QSBACKUP_TIMEOUT'). If there were any problems an error would be reported in 60 seconds.

QSBACKUP_TIMEOUT=20 (seconds)
As mentioned above, this value specifies how often queue data is written to the disk, i.e. backed up

QFILES_STABLE_DELAY=15 (seconds)
Before processing files Page Pairer checks whether files have become 'stable', i.e. neither 'file size' nor 'file last modified' values have changed in the last 15 seconds. If you have a fast machine or aren't dealing with particularly large files then this value can be lowered which would speed up the whole process.

CMSG_REPLY_TIMEOUT=20 (seconds)
Currently not used

SMSG_REPLY_TIMEOUT=20 (seconds)
Currently not used

MSG_SERVICE_TIMEOUT=10 (seconds)
Currently not used

REGID_CHECK_TIMEOUT=10 (seconds)
Currently not used

BLOCKS_FREE_ALARM=10000 (kilobytes)
If the free space on the partition where the Page Pairer is installed falls below this value (10 Mb) the server would give you a warning.

QJOB_TIMEOUT=1000 (seconds)
The server gives up if a job is not completed in specified time.

QCYCLE_LIMIT=99

Every time a queue is reset, the 'queue cycle' value gets increased by one which affects the names of the output files (standard Page Pairer only). When it ticks over the specified value it gets reset to one.

QCHCK4END_MAX=60 (seconds)
Currently not used

MAX_JOBS_RUNNING=3
This value specifies how many jobs (here job means pairing two files (or four if 4UP) can be run concurrently. If you have a powerful machine you could experiment with this value.

QPROC_PRIORITY=10
Used to specify the priority of the process (*nice* value). Applies only on Unix.

PAGENUM_FIRST=0
If this value is set to 1, then file names should have page number specified first, e.g. 01.filename.

ERROR_RETRY=0
In case of an error this value specifies how many times Page Pairer will try to reprocess a job before it gives up. Zero is the most sensible value as the causes of errors are usually of a serious nature.

INTERNAL_SPOOL=0
If this is set to 1 then files are copied into the *.qdr* folder (root of installation) for processing. However this should not be used.

IS_COMPOSITE_BLACK=1
If this is set to 1 then composite pages are treated as black separations. Setting this to 0 allows the use of composite colour bars and custom marks.

USE_EXCL_READ_CHECK=1
As mentioned above Page Pairer, before processing files, checks whether files have become 'stable'. This is an additional check where files are tested for opening in 'exclusive-read' mode. Applies only to Windows NT platform.

UNIX_CONSOLE_DISPLAY=1
This flag controls whether Page Pairer status is displayed in the console window (unix only).

POSTSCRIPT_LEVEL=2
This flag specifies postscript level PDF files will be converted to when doing PDF processing.

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TROUBLESHOOTING

Pair Errors

If an error is recorded for a pair (or a four-up) in the **Queue Progress** or **Queue Status** windows, then it is likely that one of the input files for the pair (or four-up) is not of the same PostScript type as the others or has some other incompatibility problem. First of all make sure that the input PostScript files are not corrupted. This accounts for most of the reported problems. Test your input files by downloading them directly to your RIP or by creating a PDF file if you have Adobe Acrobat Distiller installed.

A more detailed explanation of the error can be found in the **Queue.log** file in the ADMIN folder. If the error logged is "Error loading files" or "Error processing files" you should check if the postscript drivers (in ...**iplogin****drivers** folder) are up-to-date, and if that is not the case you should download the latest set from the FTP site (<ftp.farrukh.co.uk>).

If you experience problems processing PDF files please refer to **Appendix A - Processing PDF Files** of this manual.

If a file does cause an error all input files for that pair (or four-up) are moved to a directory called **Error** inside the queue input folder. When the problem is fixed simply reset the pair and send the corrected input files for the pair (or four-up) to the queue input directory again.

Queue Errors

If the status of a queue changes to **ERROR** then a problem with the queue has occurred which the software is unable to rectify. Check the **Queue.log** file in the ADMIN folder for a more detailed description of the error.

Dongle Errors

If you encounter any problems accessing the dongle, make sure that the dongle is attached to the parallel port on the back of the server. Check that the dongle drivers have been installed successfully by looking at the 'Devices' Applet under 'Control Panel', and remember to restart your machine after the dongle drivers have been installed.

Clients Cannot Login To Page Pairer Server

All the client licences are used up. Page Pairer Server only allows five unique clients to login. The same username cannot login from another workstation. Once this limit is reached, new login requests will be refused. If you get logins refused and it seems that no-one in your organization can use the server, it is possible that 1 user has registered several userids which may no longer be valid. You need to uninstall one or more users – see the chapter **Uninstalling Users** above.

If you still cannot log in you should check if the **volumes.lst** file exists in the iplogin folder and if it contains a correct list of Mac published volumes. If it looks OK you should then delete Page Pairer preferences, remount the shared volume and try to log in again.

Unusual characters in file names

If you find that certain files in the Input folder never get processed and they don't get moved to ERROR folder either it is possible that they contain some unusual characters (e.g. ∞, ℚ, ©, ™, etc.) which Windows NT Server cannot recognise. If that is the case just rename the file and try to process it again.

Not Enough Disk Space

The queue manager periodically performs a disk space check on its installation directory. If the amount of free disk space falls below approximately 10 Mb then a warning message will be written to screen and the **ipclnmgr.log** file. The queue manager will refuse to continue processing jobs until the required free space is restored. Please note that if you started the queue manager from a terminal, shell or command tool window that has since been quit, the warning message will only appear in the log file.

APPENDIX A – PROCESSING PDF FILES

Introduction

Page Pairer Version 3 brings the capability to transparently impose PDF (Portable Document Format) files. To the end user, PDF files are handled just like PostScript files. PDF and PostScript files can also be mixed.

This section outlines the requirements for processing PDF files and provides some guidance to ensure that software settings are appropriate for PrePress workflows.

System Requirements

To easily process PDF files you need:

- Adobe Acrobat v4.0 Exchange (on the Server) and Distiller

Setting up Acrobat

From Acrobat open any PDF file. Go to the Print Dialog. Ensure that the option "Fit to Page" is not selected. This ensures that your input files are not scaled down.

(Note: when processing PDF files Acrobat Exchange should NOT be already running)

- A Printer named "Imposition Publisher" that is set to print to a local file port. (Windows NT Server only)

Setting up the "Imposition Publisher" Printer: -

"Imposition Publisher" printer should be automatically created first time you run the software. If you get the message "Default Driver 'Apple LaserWriter Select 360' not found. You may experience problems with PDF processing" you should check if an appropriate PostScript driver has been selected for the "Imposition Publisher" printer.

In case the printer has not been created at all you can set it up manually:

4. Go into the Printers Control Panel.
5. Double click "Add Printer".
6. When asked who will manage the printer select "My Computer". Click next.
7. Click "Add Port". Double click Local Port. Enter a file path. This will be used by Imposition Publisher to create temporary PostScript files. For example, you may enter "C:\Temp\pdftops.prn". Press Enter and then select this port. Click Next.
8. For the Printer, choose an appropriate PostScript device from the Printer list. Click Next. You may need your Windows NT installation files if you are installing a new device, or you may select "Keep existing driver" for an already installed device. Click Next.
9. Change the Printer name to "**Imposition Publisher**". Click Next.

10. The printer need not be shared. Click Next.
11. Click Finish.

Note:

On the start-up Page Pairer will search for Acrobat and in the **ipserver/ip** folder the file **ipreader.cmd** will be created which will contain the path in the form **IPPREVTOOL=/usr/bin/acroread** (UNIX platforms).

If running Windows NT then in the installation directory the file **Reader.dat** will be created which will contain the path.

If you have problems you should make sure that this path points to the right application i.e. Acrobat 4.0, and if necessary you can edit it manually.

Software Settings

To ensure that PDF files are handled effectively, it is necessary to change a number of Acrobat settings. To pair PDF files effectively, you need to change some of the Exchange and Distiller default settings.

You may need to crop the PDF pages to the correct page size in Acrobat Exchange, to ensure that Page Pairer can correctly pair them.

In order to ensure the output quality of PDF files, it is necessary to change a number of Acrobat Distiller default settings.

If you are using a PostScript Level 1 output device, you may need to change one of Page Pairer's default settings.

Acrobat Exchange

Fit to Page

From Acrobat open any PDF file. Go to the Print Dialog. Ensure that the option "Fit to Page" is **not** selected

Cropping Pages

It may be necessary to crop the PDF pages to the finished trim size as Page Pairer may not be able to work out the correct page size.

To do this:

1. Open the PDF files in Acrobat Exchange
2. Select *Crop Pages...* from the Document menu.

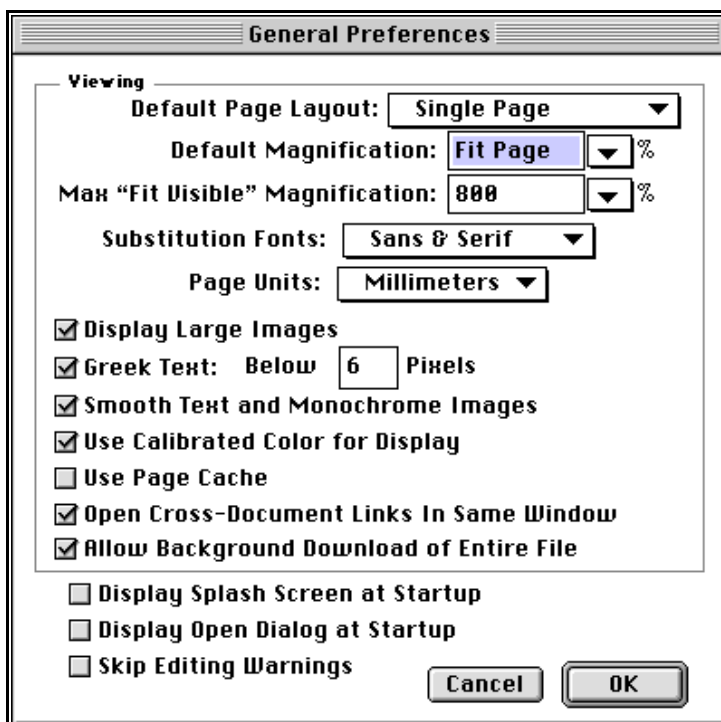


3. Enter margins for all four edges so that the finished PDF document is the actual trim size required.
4. Confirm that you want all the pages in the document to be cropped.
5. Save the PDF document.

The PDF file is now ready to be paired with Page Pairer.

Exchange Preferences

Change the following **General Preferences** settings:



1. Switch off *Display Splash Screen at Start-up*.
2. Switch off *Display Open Dialog at Start-up*.
3. Switch off *Skip Editing Warnings*.

Acrobat Distiller

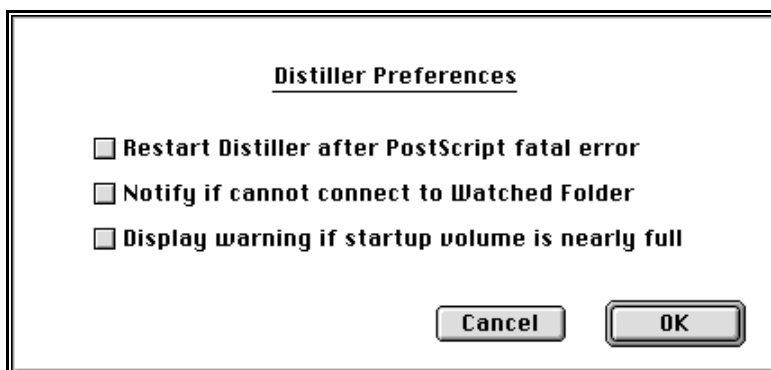
Creating PDF Files to Impose

1. When in QuarkXPress, make sure that, if any special spot or Pantone colours are used, then you do not have *Separations* checked on in the **Edit Colors** dialog box.
2. Use *Save as EPS* option in Quark, otherwise the PostScript file created will automatically convert the spot colours to CMYK, regardless of what you did in the step 1.

3. Move the two files called `prologue.ps` and `epilogue.ps` from the **High-end** folder, found in the **Xtras** folder of Acrobat Distiller, to the Distiller folder. Distiller uses these files to include spot colours in the PDF file instead of converting the spot colours to process colours. (For more information about `prologue.ps` and `epilogue.ps` files, see the **Acrobat Distiller Online Guide**.)
4. Restart Distiller.

Distiller Preferences

In the Distiller Preferences dialog:

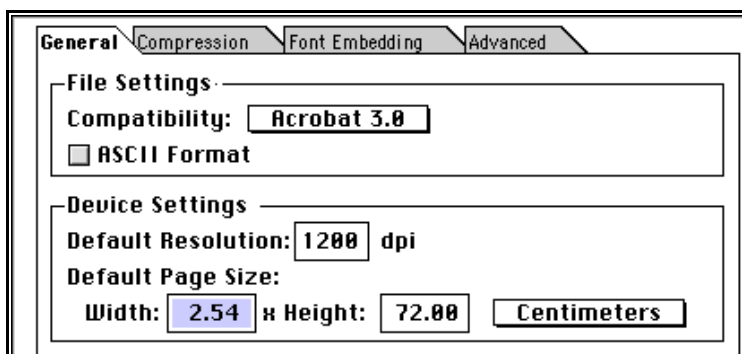


1. Switch off *Notify if cannot connect to Watched Folder*. Ensure that any watched folders are accessible.
2. Switch off *Display warning if start-up volume is nearly full*. Ensure that there is sufficient space on the start-up volume to process your files.

Distiller Job Options

General

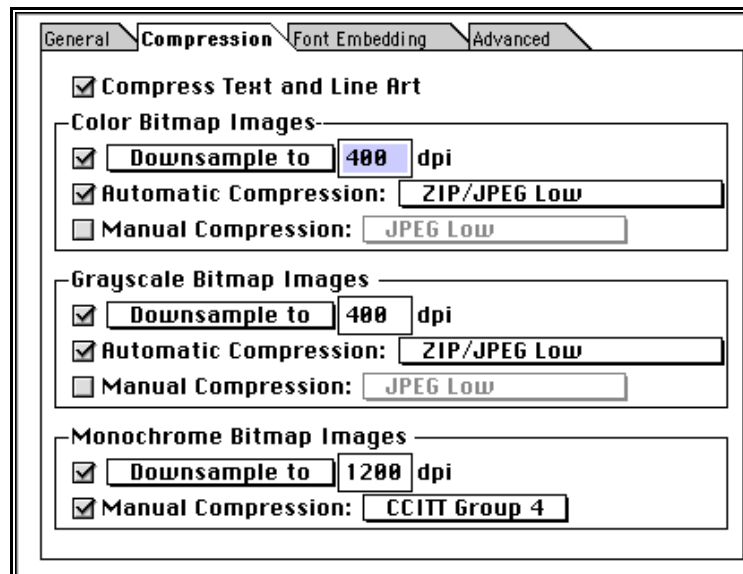
In Acrobat Distiller Job Options, General tab:



1. Select *Acrobat 3.0* for Compatibility.
2. Deselect *ASCII Format*.
3. Enter the default resolution (dpi) of the intended *final output device* in the *Default Resolution* box.
4. Enter your page size in the *Default Page Size* boxes, in case Distiller does not find the paper size in the PostScript file.

Compression

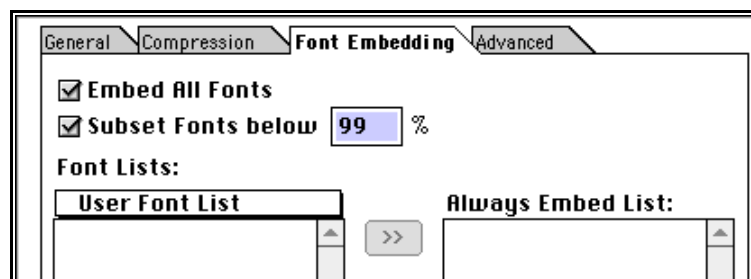
This controls the file size and image quality. In Acrobat Distiller Job Options, Compression tab:



1. Select *Compress Text and Line Art*.
2. For Color Bitmap Images select *Downsample to* and enter 400 dpi. Select the *Automatic Compression* and *ZIP/JPEG Low* option.
3. For Grayscale Bitmap Images select *Downsample to* and enter 400 dpi. Select the *Automatic Compression* and *ZIP/JPEG Low* option.
4. For Monochrome Bitmap Images, select the *Downsample* option and enter the resolution of the intended final output device. Also select *Manual Compression* and *CCITT Group 4*.

Font Embedding

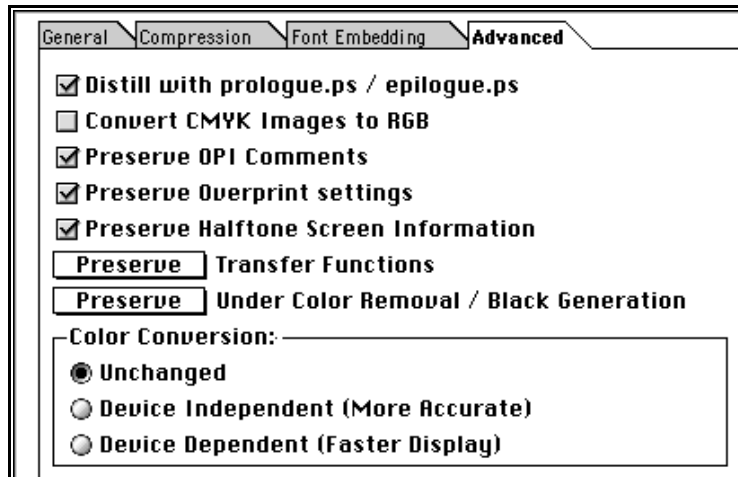
In Acrobat Distiller Job Options, Font Embedding tab:



1. Select *Embed All Fonts* so that Distiller adds all the fonts used in the document into the PDF file.
2. Select *Subset Fonts Below* and specify *99%*.

Advanced

In Acrobat Distiller Job Options, Advanced tab:



1. Select *Distill with prologue.ps / epilogue.ps* if your document includes spot colours. Move the two files called **prologue.ps** and **epilogue.ps** from the **High-end** folder, found in the **Xtras** folder of Distiller, to the Acrobat Distiller folder.
2. Deselect *Convert CMYK Images to RGB*.
3. Select *Preserve OPI Comments* if your document includes placeholder images for Open PrePress Interface (OPI) images.
4. Select *Preserve Overprint settings* if you want Distiller to include the overprint settings included in the PostScript file in the PDF file it creates.
5. Select *Preserve Halftone Screen Information* if you want Distiller to include the halftone screen information included in the PostScript file.
6. Select *Preserve* for **Transfer Functions**
7. Select *Preserve* for Under Color Removal / Black Generation.
5. Select *Unchanged* for Color Conversion.

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