

Transverter PI

Users Guide



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Transverter PI - the PostScript tool suite

Welcome to Transverter PI a suite of products providing you with PostScript solutions.

Now you have reached a new dimension in PostScript functionality for all your favorite Macintosh graphics applications. Three tools make up Transverter PI:

1. Transverter PI
2. Transverter XTension
3. Transverter CCM

To get you started there are functionality descriptions below. After you decide which tool you want to begin working with move to that section later in the Users Guide.

Transverter PI

Input File Formats: EPS & PostScript files (Level 2), Adobe Acrobat PDF files

Plugs Into: Photoshop, Live Picture, Fractal Painter and any application that supports Adobe Photoshop Plug-in Acquire Modules.

Adobe Photoshop



Live Picture



Fractal Painter



Transverter XT

Input File Formats: any page in a QuarkXPress document

Output File Formats: high quality TIFF, JPEG, and GIF

QuarkXPress



Transverter CCM

Input File Formats: EPS & PostScript files (Level 2), Adobe Acrobat PDF files

Plugs Into: Debabilizer version 1.6.5

Debabilizer



DICTIONARY DEFINITION

transvert \`trans-vert\ verb **transverting transverted**
1: to PostScript interpret and RIP into a high quality, image **2:** to convert any computer-based document into an extraordinary looking image **3:** to make an image from any Level 2 PostScript , Encapsulated PostScript (EPS), PS or Adobe Acrobat PDF files

Installation

System Requirements

To use Transverter PI you will need:

1. A Macintosh computer either:
 - a. 68030 or 68040 with FPU or running Software FPU
 - b. PowerPC Macintosh
2. 3 megabytes of hard disk space
3. 7 megabytes of free RAM available for Transverter PI
4. System 7.1 or newer (7.5 recommended)
5. The font Helvetica must be installed in your System Folder.

Detailed Instructions

Transverter PI is a two-step installation process.

First you install RipCore, the PostScript interpreter engine common to the entire suite. Second, for each application you want Transverter PI to work with there is a drop-in component that provides the interface to each program.

The common thread within the Transverter PI suite is the PostScript interpreter engine: RipCore. It installs in the TechPool folder, within your System folder, and serves as the core technology behind all the plug-in's and the Quark XTension.

1. Insert the Transverter PI CD into your machines CD Reader.
2. Double-click on the RipCore 1.0x Installer icon.
3. Please note the instructions that appear next. They include any last minute updates to the RipCore engine that did not make it into this Users Guide. You may Save or Print these instructions by clicking on the appropriate button. When you are done here click Continue.

4. A verification screen appears telling you that the install is about to take place. Recall that RipCore is installed in your System folder. Three items are installed here:
- RipCore
 - Lib folder
 - Resource folder



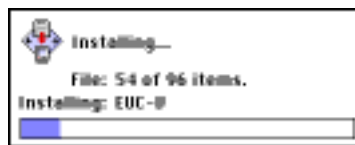
** Do not move any of these items other wise Transverter PI cannot work. **

5. Next you are asked:



click the button as appropriate to you.

6. Installation will take place:



7. That's it. Now go on to the chapter in this User's Guide that tells you how to use Transverter PI. Remember you will need to copy the plug-in portion into the appropriate location to work with your application:
- Transverter PI - copy into the applications Plug-ins folder
 - Transverter CCM (CODE PostScript In) - copy into Debabilizer Custom Code folder
 - Transverter XT - copy into the Quark XTensions folder

Transverter PI

A tool for applications that support Photoshop Plug-in Acquire Modules.

Compatible software applications include:

- Photoshop 3.0+
- Live Picture 2.6+
- Fractal Painter 4.0+
- any other program that properly supports the Photoshop Plug-in architecture.

Photoshop Solution

1. Complete the installation process by copying the Transverter PI plug-in from the Install CD into the Photoshop Plug-ins folder.



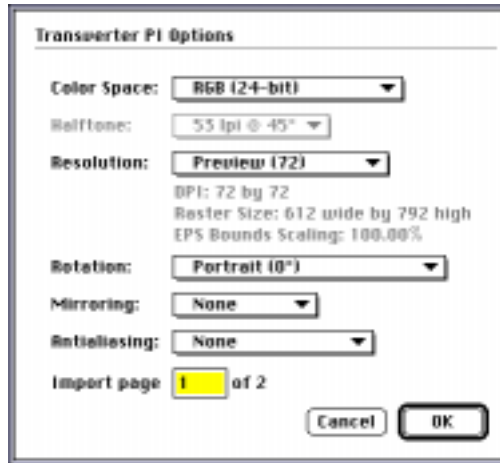
2. Launch or Quit and relaunch Photoshop to make the plug-in active
3. Go to the menu and select **File : Acquire : Transverter PI...**



Now select the file you want to PostScript rasterize and import. File type choices are PostScript (single or multipage), EPS, and PDF files.

On multipage PostScript and PDF files the Options dialog box (see next page) allows you to specify which page you want to import.

5. After choosing the file to work with you are presented with the Transverter PI Options dialog box.



Make the choices that you want for your import file and click OK. See the chapter RIP Options for a detailed explanation of the PI options.

6. During rasterizing you are given a progress bar.



7. Lastly, the Status Log appears if there are any issues that occurred with interpreting and rasterizing your file.



For example in processing this file there were three font substitutions that occurred, because PI could not find them on your System.

The fonts:

- Frutiger_BlackCn
- Swiss91 BT
- Stone Serif

were all substituted with the Default Font: Helvetica.

Live Picture Solution

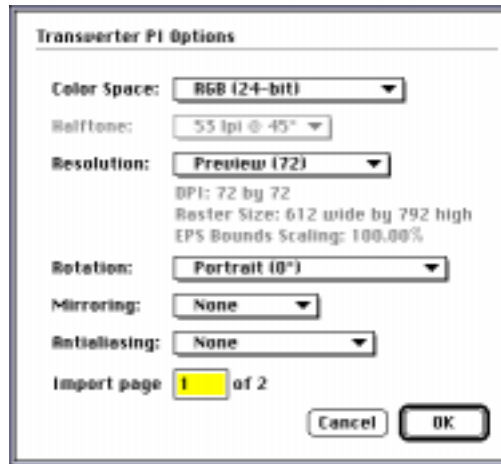
1. Complete the installation process by copying the Transverter PI plug-in from the Install CD into wherever you place Live Picture Plug-ins folder.
2. Launch or Quit and relaunch Live Picture to make the plug-in active
3. Go to the menu and select **Converter : Acquire : Transverter PI...**



Now select the file you want to PostScript rasterize and import. File type choices are PostScript (single or multipage), EPS, and PDF files.

On multipage PostScript and PDF files the Options dialog box (see below) allows you to specify which page you want to import.

5. After choosing the file to work with you are presented with the Transverter PI Options dialog box.



Make the choices that you want for your import file and click OK. See the chapter RIP Options for a detailed explanation of the PI options.

6. During rasterizing you are given a progress bar.



7. Lastly, the Status Log appears if there are any issues that occurred with interpreting and rasterizing your file.



For example in processing this file there were three font substitutions that occurred, because PI could not find them on your System.

The fonts:

- Frutiger_BlackCn
- Swiss91 BT
- Stone Serif

were all substituted with the Default Font: Helvetica..

Fractal Painter Solution

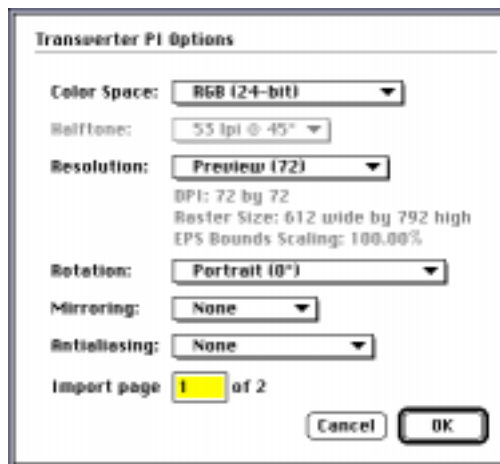
1. Complete the installation process by copying the Transverter PI plug-in from the Install CD into your Painter Plug-ins folder.
2. Launch or Quit and relaunch Painter to make the plug-in active.
3. Go to the menu and select **File : Acquire : Transverter PI...**



Now select the file you want to PostScript rasterize and import. File type choices are PostScript (single or multipage), EPS, and PDF files.

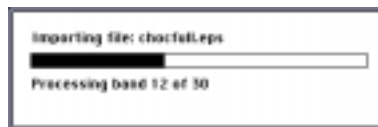
On multipage PostScript and PDF files the Options dialog box (see below) allows you to specify which page you want to import.

5. After choosing the file to work with you are presented with the Transverter PI Options dialog box.



Make the choices that you want for your import file and click OK. See the chapter RIP Options for a detailed explanation of the PI options.

6. During rasterizing you are given a progress bar.



7. Lastly, the Status Log appears if there are any issues that occurred with interpreting and rasterizing your file.



For example in processing this file there were three font substitutions that occurred, because PI could not find them on your System.

The fonts:

- Frutiger_BlackCn
- Swiss91 BT
- Stone Serif

were all substituted with the Default Font: Helvetica.

This completes your first use of Transverter PI with Fractal Painter.

Transverter XT

The tool to PostScript rasterize entire Quark pages into TIFF, JPEG, and GIF files.

Quark Solution

1. Complete the installation process by copying the Transverter XT XTension from the Install CD into your Quark XTension folder.

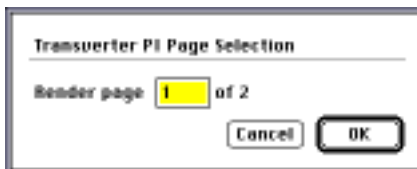


2. Launch or Quit and relaunch QuarkXPress to make the Transverter XT active for your Quark application.

3. Go to the menu and select **Utilities : Transvert Page...**



4. Next choose which page you want to rasterize (RIP) to TIFF, JPEG, or GIF.



5. Now specify an output file name.



6. After you click on the Save button Quark will write an EPS file to disk of the document page you selected. Then Transverter XT will launch - you will know this by the appearance of the flashing “Transverter XT guy” at the Apple menu icon. This flashing icon will remain while Transverter XT is active.



Transverter XT will do an initial interpretation of the EPS file and the Options dialog box. will be displayed.



Choose which file format to product: TIFF, JPEG, or GIF. Make any other Options dialog choices for Color Space, Resolution, etc and click OK. See the chapter RIP Options for a detailed explanation of the Transverter XT options.

Note that there are three items on the Transverter XT Options dialog that are unique to the other plug-ins in the Transverter PI suite:

- a. Pull-down menu for Format with choices of TIFF, JPEG, and GIF
- b. Check box for “Notify on Completion.” Leaving this checked makes a dialog box appear when file processing is done. You can also note this by the Apple menu icon stops flashing.
- c. Check box for “Show Status Log.” If an error or font substitution occurs during processing of the Quark EPS page this information can be written into a dialog box for you to review.

7. The file will now be rasterized and when it’s done, if you left the Notify on Completion check box checked you get a message.



8. If there were any processing problems, and you left the Show Status Log check box checked, a second information window will appear to give you information on processing the file.



9. This completes your first use of Transverter XT.

Transverter CCM

The tool for a PostScript EPS file Debabilizer solution.

Debabilizer Solution

1. Complete the installation process by copying “CODE PostScript In” (the Transverter CCM component) from the Install CD into your Debabilizer “Custom Code” folder.

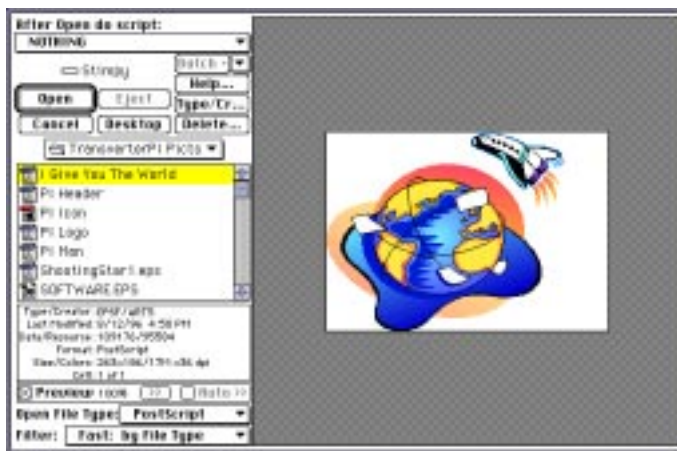


2. Launch or Quit and relaunch Debabilizer to activate the PostScript CCM with your Debabilizer application.

Now there are two principal methods to use Transverter CCM with Debabilizer. The first is to Open a file and the second is to Batch process files.

Open

Go to the Debabilizer menu and select **File : Open**.



After this windows appears, In the lower left corner of this window do the following:

a. **In Open File Type:** choose **PostScript**

NOTE: We do not recommend, when working with PostScript files, that you choose All. This can cause problems for the PostScript interpreter trying to look at every file you choose in the select file window.

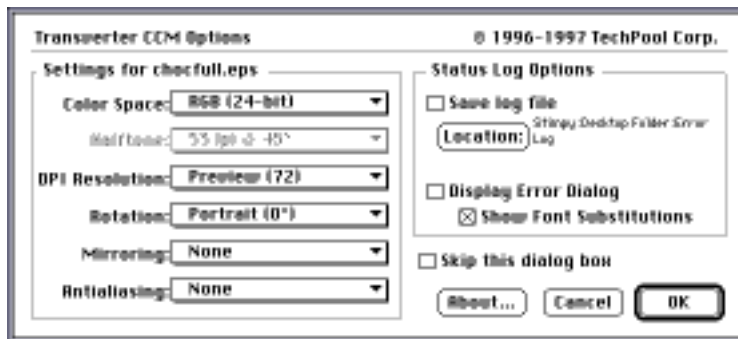
b. **In Filter:** choose **Fast: by File Type**

NOTE: Do not choose Slow: by File Contents. This is because PostScript files have the File Type : Text, not PostScript or EPS as some people think. This means you can read them with a word processor. In Debabilizer if you choose Slow: by File Contents the Transverter CCM will try and read/parse every text file, not just every PostScript file.

c. **Check the Preview box - if you choose.**

The Preview will automatically interpret a file in RGB Color Space at 36 dpi with no antialiasing. This was designed for speed and is not user selectable. If, after the Preview appears, you then click Open this already rasterized file (36 dpi RGB) will be placed into the working window.

To get the previewed file at a different resolution, or with other Options, uncheck the Preview checkbox and click the Open button. You are now presented with the Transverter CCM Options dialog window.



Choose the settings that you want for your import file, click OK and the file will be rasterized with the settings you chose. See the chapter RIP Options for a detailed explanation of the CCM options.

To perform Batch operations check the “Skip this dialog box” checkbox

Method 2 - Make the Options dialog box begin reappearing

You can make the Options dialog box begin to appear with each file access by doing the following.

1. Go to the main menu and select **File : Open**.
2. Choose a PostScript file in the Debabilizer file selector area.
3. Hold down the Option key, click Open, and keep holding the Option key down until the Transverter CCM Options dialog box reappears.
4. Now, uncheck the “Skip this dialog box” checkbox.

Error Log

Checking the Error Log check box will create a SimpleText file containing all processing messages created by Transverter CCM.

In the case of a file that doesn't use any fonts and had no processing errors no information is written into the Error Log. There is a 32K file size limit for the Error Log., The most recently processed file information is written to the end of the Error Log.

Below is a sample Error Log entry. It starts with the file name that was processed and, in this case, shows the font substitutions. There were no processing errors.

```
chocfull.eps

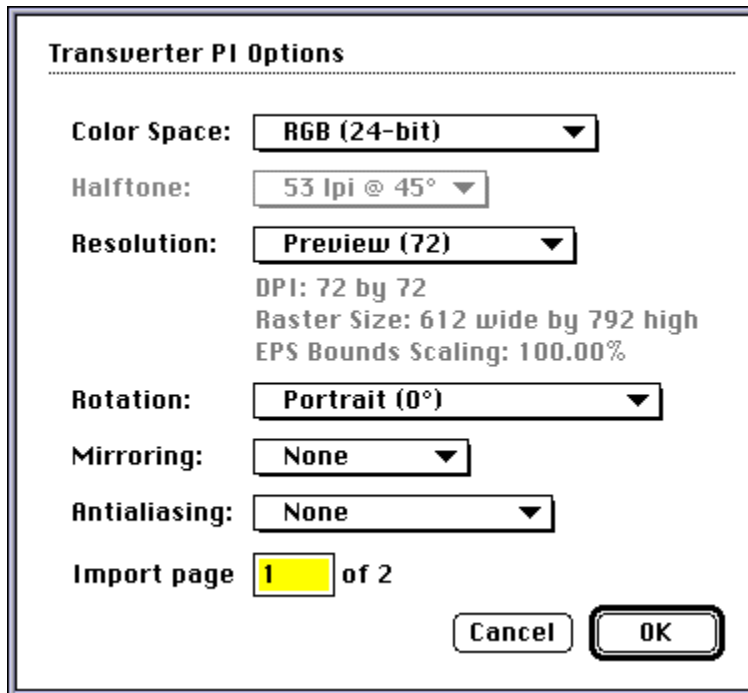
%% [ Finding Helvetica ]%%
%% [ Finding Symbol ]%%
%% [ Finding Frutiger-BlackCn ]%%
%% [ Frutiger-BlackCn not found, using Helvetica ]%%
%% [ Finding Swiss911BT-UltraCompressed ]%%
%% [ Swiss911BT-UltraCompressed not found, using Helvetica ]%%
%% [ Finding StoneSerif ]%%
%% [ StoneSerif not found, using Helvetica ]%%
```

Remember that the most recent information is written to the bottom of the Error Log.

RIP Options

The Options dialog box gives you significant control over how Transverter PI rasterizes a file.

The sections in this chapter list every option that Transverter PI is capable of doing. However, every application does not support all the option choices listed. For example, in Color Space, neither Fractal Painter nor Debabilizer support CMYK. Hence it will not appear on their respective Option Dialog boxes.



Color Space

You specify the color space for Transverter PI. For best results we suggest you do not change the color space of the original file. It is better to do color space changes in your graphics application. This means if your input file is CMYK then specify CMYK as the Transverter PI Color Space. Color space output choices are:

- **Monochrome (1-bit)**
- **Grayscale (8-bit)**
- **RGB (24-bit)**
- **RGB with alpha channel (32-bit)**
- **CMYK (32-bit)**

A nice feature for users working with vector-based images – when importing into Photoshop using RGB with alpha will produce an editable mask. This lets you quickly work with just the image itself, masking out the unnecessary image portions.

Halftone

Halftone concerns how color and grayscale images are converted into 1-bit images (simulated grayscale). This is what your non-color printer does when it prints – converts color or grayscale images into a pattern of black dots to simulate the image.

The Halftone choices are:

- **53 lpi @ 45°**
- **35 lpi @ 45°**
- **20 lpi @ 45°**
- **5 lpi @ 45°**
- **Custom Setting...** user selectable for lines per inch and angle

Resolution

There are two ways to choose output resolution:

- (1) specify an output ppi (pixels per inch)
- (2) choose how large to make an image

The standard menu selections are:

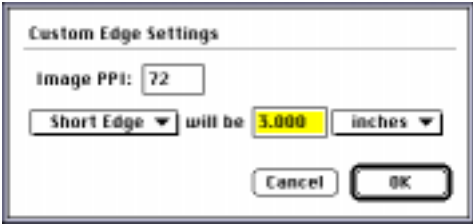
- **Preview (72 ppi)**
- **Browse (144 ppi)**
- **Laser (300 ppi)**
- **InkJet (360 ppi)**
- **Custom Settings...** choose a custom output ppi



In the Custom Resolution Settings dialog box specify either:

- (1) a factor to scale the image (1 - 500%) and the ppi (up to 720)
- (2) a specific raster size - choose only width or height, the other dimension is automatically calculated by Transverter PI to maintain the image proportions.

• **Fixed Edge Size...** - [a Deabilizer only feature] specify the dimension of the shortest or longest edge plus the resolution (ppi) . A good feature for producing web graphics.



Rotation

Rotate an file in 90° increments:

- **Portrait (0°)**
- **Landscape (+90°)** clockwise rotation
- **Counter-Landscape (-90°)** counter-clockwise rotation
- **Upside-Down ($\pm 180^\circ$)**

Mirroring

Mirroring is exactly what you would get if you printed out the image and looked at it through a mirror.

- **None**
- **Horizontal**
- **Vertical**
- **Both**

Antialiasing

Antialiasing is a technique that visually smooths edges making it easier to view. This is done by blending the edges of text and images within a document into the surrounding colors.

- **None**
- **Box Low**
- **Box Medium**
- **Box High**
- **Pyramid Low**
- **Pyramid Medium**
- **Pyramid High**

The choice of which technique, Box or Pyramid, is very user subjective. There is no great thumbrule that dictates what to choose. The two techniques differ by which group of surrounding pixels is chosen according to the pixel on the edge.

Graphic Reference

PostScript

PostScript (PS) is a sophisticated graphics programming language created by Adobe Systems. It provides a very flexible way for computer application programs to present a page description to an output device. For example, when a user prints to a PS laser printer the computer sends PostScript code to the PS interpreter contained in the printer. The PS interpreter does all of the work necessary to draw the described page.

To draw the page described in the PostScript description, the PS interpreter must translate the PostScript into a collection of dots, much like a bitmap. These dots will then be used for printing the actual output. This process of producing bitmap data from vector and image data is called rasterizing. Rasterizing can be performed by hardware, such as a laser printer which contains a PS interpreter, or by software such as the RipCore Level 2 PS interpreter.

Programs that are able to create PostScript for printing typically do not use PostScript for editing and displaying. They will use their own image format which is easier to manipulate when editing then translate to PostScript when printing. This translation is most commonly done by a PostScript printer driver instead of the program itself.

EPS (Encapsulated PostScript) Description

Encapsulated PostScript (EPS) is an extension of PostScript that was created to allow applications to "place" a PostScript image on a page. Placing is used to incorporate a smaller image into a document. EPS provides the information applications need to be able to place and print an encapsulated PS file.



Adobe Acrobat (PDF) Files

The PDF (Portable Document Format) is becoming a universally accepted file format for sharing documents on the Internet and on company Intranets. It is a rich format capable of containing text, fonts, images, and graphics that can easily be moved anywhere electronically. Originally a superset of the Adobe Illustrator format it has grown into a widely used file format.

Creating Encapsulated PostScript (EPS) Files

EPS files can be made directly in many applications. For instance

Quark - **File/Save Page As EPS...**

Illustrator - **File/Save** then save in EPS format

FreeHand - **File/Export...** make the format EPS

Many programs do not directly support making EPS files. However, it can be done using the Print Dialog box. It does vary how to do it and not all programs support making EPS files through the Print Dialog box..

An example of making an EPS file from a program is PageMaker.:

1. While running PageMaker choose - **File/Print**
2. Click the Options button, then select the check box "Write to PostScript file" and check the EPS radio button.

Troubleshooting

Transverter PI is designed to provide trouble free operation. However, should you experience any difficulty in its operation, this section will assist you in determining the problem source and give suggestions to fix it.

Not all applications produce clean PostScript. If an application has made a PostScript file improperly, Transverter PI may produce incorrect output or report an error in the Status Log window.

The diagnosis and correction of many PostScript errors goes beyond the scope of this reference. However there are two common error types that are easily diagnosed and fixed by the Transverter PI user (1) Memory Errors - typically too little RAM or too little hard drive space and (2) Font Errors when a specific font is not available.

Memory Issues

When converting large or complex files, there may not be enough hard drive storage space or RAM memory to handle the task.

The default RipCore RAM memory requirements are a compromise to permit processing of most files but not so large as to be a “memory hog.” Therefore, RipCore may not, as it shipped, ask for sufficient memory to work on every PostScript file.

Memory shortages, disk space or RAM, will cause a Status Log error message.

```
%%[ Error: VMError; Offending Command: @image ]%%
```

The VMError stands for Virtual Memory Error and indicates a memory shortage problem. The Offending Command, shown above as @image, may vary. In this case the @image says that RipCore ran out of memory while trying to process some image data in your file – which is usually a photograph.

There are two things that cause memory errors (1) too little hard drive space to process the file or (2) too little RAM allocated to RipCore.

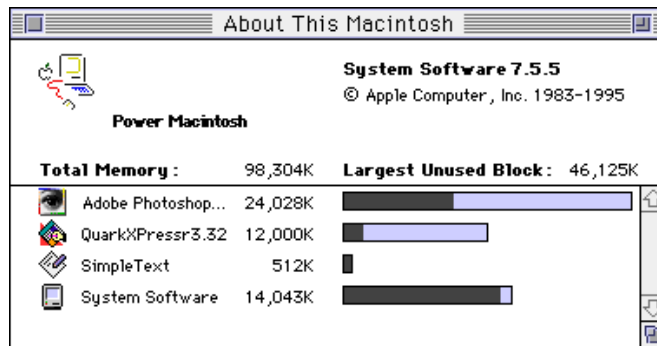
Disk Space Shortage

Check you have sufficient hard drive space. There is not a good thumb rule for this but we suggest having at least 20 megabytes of free disk space. Large PostScript files can require much more. If disk space is not a problem on your hard drive move to the next step. Otherwise, free up some hard drive space and try processing your file again.

RAM Shortage

The second item that may cause a VMError is the amount of RAM allocated to the RipCore PostScript engine may be insufficient. To check follow these instructions:

1. Make sure the application you are using Transverter PI with is running: Quark, Photoshop, Fractal Painter, Live Picture, Debabilizer.
2. See how much memory is available. Go to the Desktop menu (leave all your applications running), select the Apple icon, and choose **About this Macintosh....**



Here you see where RAM memory is being used by Photoshop (24,028K), QuarkXPress (12,000K), Simple Text (512K) and by the System Software (14.043K). Also, it shows how much free RAM remains for use in the Largest Unused Block field showing 46,125K. Total RAM memory is 98,304K. So for this Macintosh there is about 46 megabytes (46,125K) of RAM that can be allocated to other applications.

As shipped the Transverter PI RipCore PostScript engine uses 6.5 megabytes (6,500K) of RAM when it starts. It is important to know that you will not see RAM usage for Transverter PI or RipCore in the About This Macintosh window as a separate line entry. Instead RipCore's RAM usage is added onto the System Software value. So under the above circumstances if RipCore were running the System Software usage would be about 20.5 megabytes (14,043K current System + 6,500K for RipCore).

3. To increase RipCore RAM go into the System Folder and open the TechPool folder.

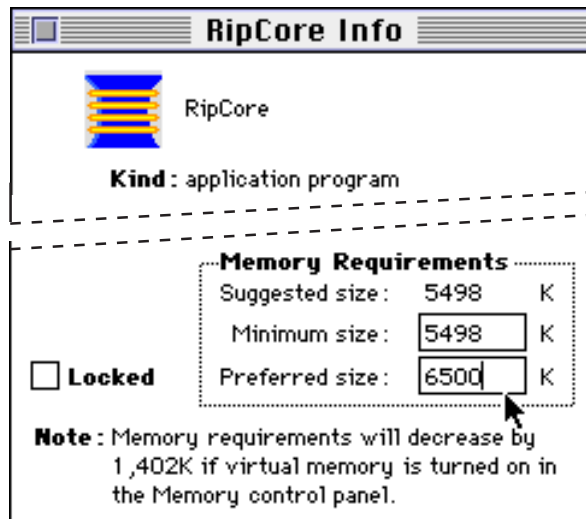
4. Locate and highlight the RipCore icon by clicking on it once. DO NOT double-click as this will launch RipCore and have it running in the background.

NOTE: If you do accidentally double-click on the RipCore icon you need to go into the application you are using Transverter PI with and use it to RIP a file. When the job completes the RipCore engine will shutdown.



5. Go to the Desktop menu and select **File/Get Info**

6. The RipCore Info window will open. To increase RipCore's memory allocation go to the Preferred size box. We suggest starting with a 2000K (2 megabyte) memory increase, if you have only a little memory available to allocate, taking Preferred size to 8500K (8.5 megabytes). For users with lots of memory available go ahead and increase by 8000 - 10000K (8 - 10 megabytes) taking Preferred size up to 14000 - 16000K (14 - 16 megabytes). The more memory allocated the faster RipCore can process files (within limits, of course).



Font Substitutions

When using Transverter PI messages communicate to you in the Status Log window about what fonts are being asked for by a file and then substituted because the font is not available.

The example Status Log message below shows a file requesting the Avant Garde font not finding it and substituting Helvetica.

```
%%[ AvantGarde not found, using Helvetica ]%
```

Transverter PI requires Helvetica as its “Default Font.” This is the font the RipCore interpreter engine will substitute when a font is not found.

Helvetica must be installed in the Fonts folder inside the System folder for proper software functioning. A corrupt Helvetica font file can also stop Transverter PI.



Commonly Asked Questions and Answers

Question

I receive an error message when trying to convert a larger or more complex file.

```
%%[ Error: VMerror; Offending Command:--@image-- ]%%
```

```
%%[ Flushing: rest of job (to end-of-file) will be ignored ]%%
```

Answer:

The Transverter PI RipCore engine (PostScript Interpreter) needs more memory to convert the file, probably due to placed images that require more memory to process. This is one of the most common error messages you will see. See Memory Issues earlier in this chapter for a solution.

Question

When I try to convert a file I get an Error message that reads:

%%[UndefinedResource: Offending Command;FindResource]%%

%%[KEY:Helvetica;Category:Font Error]%%

Answer:

Make sure you have the font “Helvetica” properly installed in your System Fonts folder. Transverter PI uses Helvetica as the default font. If not installed, Transverter PI will issue the above error message and not be able to process any files.

Also, a corrupt Helvetica font file will also cause this error message. Try reinstalling the Helvetica font into your System using the Apple System Installer CD. You can do this quickly by doing a Custom Install. Then from the list of items to install select Fonts and click OK. This will reinstall all your System fonts. Now, try and run Transverter PI again.

Question

When I try to use one of the Transverter PI modules I get a message that says:

“Encountered an Error -43, unable to process file”

Answer:

A -43 error from the Macintosh means “File not found.” This is most frequently due to the plug-in not being able to find the RipCore engine in the TechPool folder. The solution is to rebuild your Desktop. Do this by saving all your currently open files and quitting all running applications. Then Restart the Macintosh and hold down both the Option and Command keys until you see the message “Are you sure you want to rebuild the desktop?” Click OK.

Defective Disk Replacement

TechPool Software will replace a defective or damaged CD free of charge during the 90-day limited warranty period. After that period, a damaged CD will be replaced for a \$25 charge. The defective CD must be returned to TechPool with a note explaining the problem.

TechPool Software will not be responsible for a CD lost or damaged in transit. If you have not sent your registration card, you MUST send it with the defective CD.

Please send the defective or damaged CD with, if necessary, check, money order, or credit card information including Card Holder Name, Card # and Expiration Date.

Contacting Technical Support

TechPool Software has a qualified Technical Support staff ready to help you with your problems when using Transverter PI. Please make sure the problem you are having is with Transverter PI and not with your System or application software.

**Free Technical Support is provided
for 30 days from first contact with Technical Support.
Thereafter Technical Support contracts may be purchased on an annual basis.
Contact our Customer Service to inquire about Support Contracts.**

If you require technical support we can be reached via any of the following methods:

Mail TechPool Software
1463 Warrensville Center Road
Cleveland, OH 44121-2676

Telephone (216) 382-1787
9:00 am - 5:00 pm (U.S. Eastern Time)

Fax (216) 382-4825

E-Mail support@techpool.com

Web site: www.techpool.com

When contacting us always provide the following information: Your name, company's name, address, daytime telephone number, fax number if available, e-mail address, the type of system you are using, the application and version number, and a short but precise description of the problem including errors reported by Transverter PI.

Please call while sitting in front of your computer and be prepared to reproduce the steps that caused the problem to occur.

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Glossary

Bitmap Image

A bitmap image is stored as a collection of pixels. A pixel represents one dot on your screen or printer. A simple way to think of a bitmap image is by putting a picture on a fine grid. Each square of the grid that is covered by the picture is one pixel and is represented individually in the graphics file. The pixel will be represented not only by its location in the grid, but also by its color.

Default Font

All PostScript interpreters require a “Default Font.” This is a font that is used in cases where, during interpreting, a font that is called for cannot be found on the System. Most often this font is either Courier or Helvetica. Transverter PI uses Helvetica as the default font.

Embedded Font

An embedded font is a font that has been placed inside a document file. Typically, embedded fonts are added to files by the program that originally created the file to ensure the output device will have the font available to recreate the text contained in the file. If the font was not available, another font would have to be used instead, yielding text that is different than was originally intended.

Encapsulated PostScript (EPS)

EPS is a PostScript file that is limited to one page. It is “encapsulated” so the file or image can be placed into other documents. It can also contain a PICT preview in the Resource Fork that will appear on-screen

Halftone

Halftone converts color or graytone images into a pattern of monochrome dots. More information can be found in the Graphic Resource chapter.

lpi (lines per inch)

lpi relates to halftoning and number of colors. The more lpi the finer looking the dither but the less graytones. The equation is: $\#graytones = (dpi/lpi)^2$ quantity squared plus one. So for output at 200 dpi with 50 lpi the number of simulated graytones is 17.

PDF File Format (Adobe Portable Document Format)

PDF is an application independent file that contains all the elements created by the original application. PDF files can be opened, moved and printed across platforms (Macintosh & Windows).

PICT file format

A PICT file is the standard Macintosh graphics file format used in hundreds of applications. A PICT file can contain bit-mapped and vector graphics in one file.

PostScript (PS) file format

PostScript is a graphic programming language developed by Adobe Systems. PostScript contains text, graphics, and image data and is device independent.

PostScript (PS) Interpreter

A PostScript interpreter is any device or program that is able to understand and use the PostScript language. Most PostScript interpreters are used to produce printed output.

ppi (Pixels per Inch)

formerly referred to as dpi (dots per inch), pixels per inch specifies resolution.

Preview

A preview is a special bitmap that is encapsulated, or contained, in an EPS file. The preview is meant to be a rough snapshot of what the entire image looks like. It is intended to provide applications with a means to display the contents of an EPS file without actually interpreting it.

Printer Driver

A Printer Driver is an extension that is used to convert application data to printer data that the printer understands. The Printer Driver resides in the Extensions folder inside of the System Folder.

Spooling

A Printer Driver temporarily stores (*spools*) data onto a hard drive so that a printer or application can then read it.

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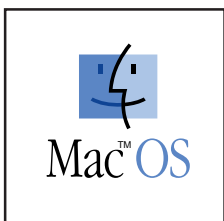
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