

LaserMaster WinPrint Software Release 1.60

README File
November 18th, 1992

Thank you for purchasing a LaserMaster WinPrint product!

Please send in your registration card. We will keep you informed of software upgrades and enhancements.

This README file contains the following topics:

Changes From Release 1.5x

Technical Notes

- Printing the Demo Page on the WinPrinter 600XL
- Different Versions of Windows
- Display Drivers
- Running DOS Background Processes Under Windows
- PS/2 (MicroChannel) Computers
- System Integrity Violations from DOS Applications
- Using DR DOS 6.0 with WinPrint Software
- Adjusting Margins
- Native Duplexing for the HP IID, IIID, and IIISi
- Envelope Feeder for the HP IIID
- Problems With Ocean Color Scheme
- Jet Fax
- Application Envelope Macros
- Printing from ObjectVision 2.0 to the Direct Driver
- LaserMaster PostScript Driver
- Microsoft PostScript Drivers
- Poorly Behaved DOS applications
- Stacker 2.x from Stac Electronics
- Lotus 1-2-3 for Windows
- Network Banner Pages
- *CorelDraw! 2.x*
- Saddle and Thumbnail Printing Issues
- PostScript Header Files
- WinPrinter 600XL MultiPurpose Tray
- Clearing Paper Jams on the WinPrinter 600XL

WinPrint Software Release 1.60

Changes From Release 1.5:

Version 1.60 of the LaserMaster WinPrint software contains many new and enhanced features. A quick list of some of these features are presented here. For more information, see the WinPrinter 1.60 manual.

- Enhanced PostScript post processing support.
- WinPrinters can now be shared on Novell Networks.
- Supports Microsoft Windows for Workgroups.
- PostScript job resolution control has been moved to the PostScript driver.
- The Direct Driver has Quick Release - It gets you back to your document faster!
- TrueImage and the Direct Driver support double frame buffering.

Technical Notes:

Printing the Demo Page on the WinPrinter 600XL

On the WinPrinter 600XL, the demo page included with the WinPrint 1.60 software cannot be printed using the LEF (Long Edge First) tray. Attempting to do so will produce a diagnostic message from the WinPrint software prompting you to insert a Letter tray.

Different Versions of Windows

WinPrint Release 1.60 is designed to work with Windows 3.1. Compared to Windows 3.0, 3.1 is faster and has more sophisticated font management features using TrueType fonts that will improve the performance of your WinPrint software. It also has better memory management.

During installation the WinPrint SETUP program detects which version of Windows you are running and will cancel the install action if Windows 3.0 is found. To upgrade to Windows 3.1, contact Microsoft Corp. or your computer manufacturer.

Display Drivers

Some third party screen drivers for Windows do not allow a DOS box to be hidden while being opened. This operating mode is needed for the LaserMaster Enhanced TrueImage interpreter to run. For WinPrint software to work with these displays, the following statement must be included in the [PrintManager] section of your WINPRINT.INI file.

ShowBackgroundProcess=1

The use of a Windows Display Driver written for Windows 3.0, or of a poorly written or 'Beta' display driver may produce incorrect pages from the WinPrinter Direct Driver. One of the most common errors will be small point size TrueType fonts not showing up on the page. Update the display driver to the most current one your video board manufacturer can provide. As a rule, it is advisable to use the most current version of any Windows driver.

When running Windows in some lower resolution video modes, such as EGA or monochrome VGA, you may observe a slight overlapping of displayed text in the Setup program and in the WinPrinter Manager.

Running DOS Background Processes Under Windows

LaserMaster recommends that you run all DOS background processes full-screen. The Windows multitasking scheduler allocates time-slices poorly when any DOS session is running in a window. This applies even when the DOS process is minimized. For example, if the WinPrint software is processing a PostScript file in the background, while a DOS process is running in a Window, the WinPrint software may slow down significantly.

The solution is to run DOS processes full screen. In this case, there is little impact on WinPrint software, either while the DOS screen is open or when it is minimized. This is true even for DOS processes which have Background Processing enabled.

To see if your DOS background processes interfere with print job processes, run the WinPrint SysInfo application to monitor your DOS background processes. Refer to the *Microsoft Windows User Guide* for information about creating PIF files for DOS applications, including how to adjust PIF settings to optimize multitasking your applications.

PS/2 (MicroChannel) Computers

When setting up the WinPrint video interface card on PS/2 (MicroChannel) computers, do NOT use IRQ 12, it is incompatible with the WinPrint MicroChannel interface card.

To use QEMM with the WinPrint card in a MicroChannel machine, a small change must be made to the MCA.ADL file distributed with QEMM. The file is ordered by HEX address and the new line should be inserted in numerical order. Using your favorite ASCII text editor, add the following line:

```
6232 LaserMaster WinPrint Controller
```

System Integrity Violations from DOS Applications

The following is an excerpt from a Microsoft Technical Support bulletin:

A System Integrity Violation means that a DOS application has accessed a segment of memory to which it does not have access. In 99% of the cases, this error is caused by the application assuming that a 64K contiguous expanded memory pageframe is present which is not guaranteed under Windows. If you receive this error, set the EMS Required parameter in the programs PIF to 0 to test for this problem.

Using DR DOS 6.0 with WinPrint Software

PCKWIN.SYS must be installed in your CONFIG.SYS if you are using SUPERPCK disk accelerator. This is a requirement to run Windows with DR DOS and is not a requirement of the WinPrint software.

If you are running the PCL4TSR and using the SUPERPCK disk accelerator included with DR DOS 6.0, you must use the /R parameter and allocate expanded memory. An example command for a system with 8 megabytes of memory would be as follows:

```
Superpck /R:6500 /EM+
```

Without the /R:xxxx parameter, you will not have enough expanded memory available to run the PCL4TSR. The value for xxxx depends on how much system memory you have and how large a disk cache you select. This value will also affect how much memory is available to Windows and to your WinPrint software. Consult your DR DOS manual for more information.

Adjusting Margins for the WinPrint Direct Driver and PostScript Printing

You can fine tune the print margins for the LaserMaster WinPrinter printing by adding the LeftMargin= and TopMargin= statements to the [Direct] section of the WINPRINT.INI file. These adjustments (positive or negative) shift the image on the page in increments of 1/1200". The origin is the top left corner of the page. Adding the following lines will shift the margin 1/4 inch to the right and 1/8 inch down.

```
LeftMargin=300  
TopMargin=150
```

TopMargin and LeftMargin refer to their specific edges of a portrait page. We recommend you check all margin adjustments using a portrait page as a reference.

Duplexing for the HP IID, IIID, and IIISi

Native mode duplexing on the HP Series IID, IIID, and IIISi is not currently supported by the WinJet 300 or the WinJet 800.

Envelope Feeder for the HP IIID

The envelope feeder for the HP IIID is not currently supported by the WinJet 300 or the WinJet 800.

Problems With Windows' Ocean Color Scheme

The standard Windows color scheme Ocean defines the same color for both disabled text and menu text. To distinguish disabled text from normal text, you must switch to a different color scheme (or simply change one of the colors).

Jet Fax

The use of the Jet Fax is not currently supported for the WinJet 300 or the WinJet 800.

Application Envelope Macros

Several word processing packages have macros that were designed to print envelopes. As a rule, these macros make assumptions about the way that the printer feeds narrow paper and envelopes. These assumptions are not always correct, and if incorrect, will print poorly. TrueImage and the LaserMaster Direct Driver both support several envelope sizes as paper sizes; LaserMaster recommends that you use these paper sizes to print envelopes.

Printing from ObjectVision 2.0 to the Direct Driver

Printing from ObjectVision 2.0 to the Direct Driver does not work well because of a non-standard method used by ObjectVision to determine the default font size. Printing PostScript to TrueImage works correctly. Borland International has been informed of the problem.

LaserMaster PostScript Driver (LMPS.DRV)

The LaserMaster PostScript driver reads fonts from WINPRINT.INI by default. If you want the driver to read fonts from WIN.INI like the Microsoft PostScript driver, you can add FontIniFile=WIN.INI to the [*printer name*,WINSPOOL] section of WIN.INI.

The Legal Half paper size selection may not appear in some Windows applications. If you cannot select this paper size from the application, use the Windows Control Panel.

Microsoft PostScript Drivers

LaserMaster recommends that you use the LaserMaster PostScript driver that was installed with your WinPrinter or WinJet when printing PostScript jobs. If, for some reason, you need to use the Microsoft PostScript driver, keep these points in mind:

- o The 3.52 Version of the Microsoft PostScript driver does not support resolution switching from the common dialog box or the advanced options dialog box. The LaserMaster PostScript driver does support this option.
- o The 3.53 Version of the Microsoft PostScript driver contains a bug that makes its use with a WinPrinter or WinJet problematic. This bug has been fixed in later Microsoft PostScript drivers, and does not appear in the LaserMaster PostScript driver. You should avoid using this version of the Microsoft PostScript Driver.

Poorly Behaved DOS applications

Some DOS applications, notably Lotus cc:Mail, are not well behaved when running in a Windows DOS box. They turn off interrupts for an extended period of time, effectively crippling the PC. Since the WinPrinter depends on these interrupts to print a page, running these applications in a DOS box can create 'gaps' on the printed page. The only way to avoid these gaps is not to operate the offending program while a page is printing.

Stacker 2.x from Stac Electronics

The WinPrint software and Stacker co-exist well, with one exception: when installing WinPrint, if your C: drive is:

- 1) Stacked
- 2) Has drive swap ON
- 3) Loaded without the /SYNC option

Then you must modify your AUTOEXEC.BAT file yourself. This typically involves making sure your SMARTDRV invocation (if present) releases most or all of its memory to Windows when Windows starts. Windows can then make most efficient use of your computer's memory. For more information, see your Windows and Stacker manuals.

Lotus 1-2-3 for Windows

If Lotus 1-2-3 for Windows is printing TrueType fonts as Symbol, adding the following line to the [PRINTER] section of the file 123W.INI will fix the problem:

```
postscript=system
```

Network Banner Pages

When using WinPrint in a network environment, take care must be taken not to attach a PCL or text banner page to PostScript jobs. If this happens, WinPrint will not *sense* the job as PostScript, and will print it as PCL. For more information, contact your Network Administrator or network vendor.

CorelDraw! 2.x

If you are using CorelDraw! version 2.x and would like to use the LaserMaster PostScript driver, copy the LMPS.DRV file to PSCRIPT.DRV. This version of CorelDraw! looks for a PostScript driver by name. Later versions of *CorelDraw!* do not exhibit this behavior, and do not need this fix. These files can be found in the SYSTEM directory of your WINDOWS directory. Save the original Microsoft PostScript driver by copying it to a safe place before performing this fix.

Saddle and Thumbnail Printing Issues

Several conditions can make a PostScript print job impossible to Saddle print or Thumbnail. These conditions are quite rare, and most users will never experience them.

The PostScript driver can generate page-order dependent PostScript jobs. If one of these jobs is Saddle Printed, it will fail and stop printing on the page with the dependency.

If you are printing Thumbnail pages of an existing PostScript file, this file may contain printer tray information. Depending on the number of pages in the file, WinPrinter may use this information to select the output tray.

PostScript Header Files

Many DOS-based applications send special PostScript header files along with print jobs. Depending on the application, this header may need to be sent with each job, or sent only once per Windows session. LaserMaster recommends that you experiment with your application to find what works best.

WinPrinter 600XL MultiPurpose Tray

Although the WinPrinter 600XL has an optional tray called the MultiPurpose Tray, Windows PostScript drivers do not have a tray selection entry called MultiPurpose to select it. You should use 'Envelope Manual' to select the MultiPurpose tray.

Clearing Paper Jams on the WinPrinter 600XL

After a paper jam has occurred on a WinPrinter 600XL, the printer may take as long as 30 seconds to 'recycle', or return to a ready state. As a rule, you should wait until this recycling has finished to press 'RETRY' on any jam notification Message Box from the WinPrint Manager or the Direct Driver. For more information on clearing paper jams on the WinPrinter 600XL, see your WinPrinter engine manual.