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Optimizing NEC SuperScript 660 PCL Printer Performance

Using 300 dpi Fonts and Graphics

If you are printing graphics or fonts that were designed for 300 dots per inch printers, like the NEC SuperScript 660 PCL Printer, HP LaserJet Series II printer or the HP LaserJet III printer, you can use the Printer Resolution setting to improve your print quality.

Related Topic:

[Printer Resolution](#)

Printer Messages

Out of Memory Error

This message indicates that you have run out of printer memory during your print job. Printer memory is used in many different ways. Fonts, typefaces, graphic images, rules, forms, and macros all require printer memory. If you print a combination of these items on one page, or if you include many in a document, you may run out of printer memory. When your printer displays the out of memory error, your print job requires more memory than you have installed in your printer.

To avoid this error:

- * install additional memory in your printer. (Contact your authorized NEC Accessories dealer for more information about additional printer memory).
- * simplify your print job by reducing the number of fonts, typefaces, graphic images, rules, forms, or macros in your document.
- * use the Font Manager to make permanent fonts temporary.
- * set Printer Resolution to a lower setting.
- * set Graphics Quality in the Options dialog box to a lower setting.
- * try changing Graphics Mode in the Options dialog box (if Raster, change to HP-GL/2 or if HP-GL/2, change to Raster).
- * power the printer off, then on. This will clear any downloaded fonts, typefaces or macros that may be in printer memory.

Related Topics:

[Font](#)
[Printer Resolution](#)

Print Overrun Error

This message indicates that the data (rules, dense text, raster graphics, or vector graphics) sent to your printer was too complex.

To avoid this error:

- * make your page less complex by reducing the amount of dense text or the number of rules or graphic images.
- * set Graphics Mode in the Options dialog box to Raster when printing complex HP-GL/2 images.

Printer Resolution

For best results, set the Printer Resolution option to 600 dpi and use graphics and fonts that are designed specifically for printers that print at 600 dots per inch resolution.

If you are using accessory fonts which were designed for 300 dots per inch printers, you can print at either 600 or 300 dpi resolution.

NOTE: If you want to change the resolution of graphics images only, change the setting of Graphics Quality in the Graphics dialog box. The Graphics Quality setting does not affect the resolution of text.

Memory

The setting in the Memory box tells Windows how much memory you have installed in your NEC SuperScript 660 PCL Printer. This setting should exactly match the total amount of memory in your printer. If you are unsure about how much memory is installed in your printer, print a printer [self test](#). Look for RAM Size. The RAM Size will be listed in Kilobytes. You will need to convert the RAM size from kilobytes to megabytes to type the correct value in the Memory box. To convert this number, divide the RAM size by 1024. For example, if your RAM Size is 2048, enter the number 2 in your Memory box. Additional printer memory can eliminate out of memory errors if you print complex forms, full-page graphics images, or many fonts.

Related Topics:

[Optimizing Printer Performance](#)

self test

Refer to your printer user's manual or operator guide for instructions about how to print a printer self test.

Copies

Use the Copies box to tell Windows how many uncollated copies you want to print from your software applications.

This setting is independent of the "copies" selection that may appear within the print menus of your software applications.

NOTE: Do not use the two settings simultaneously. Set the number of copies in the Setup dialog box to print uncollated copies. To print collated copies, select the number of copies within your software applications. When you print uncollated copies the printer generates the copies and therefore will print them much faster.

When you print collated copies, the software will send the print job to the printer for each copy you want to print. This will take longer to print, however, your pages will be in the correct order.

Uncollated

In multiple pages jobs that are uncollated, several copies of page 1 are printed followed by several copies of page 2, followed by several copies of page 3, etc.

Orientation

NEC SuperScript 660 PCL Printer can print in portrait or landscape orientation.

Select portrait orientation if you are printing a page that is taller than it is wide when you view the text upright.

Select landscape orientation if you are printing a page that is wider than it is tall when you view the text upright.

Paper Size

The Paper Size box sets your printer's default paper or envelope size.

Paper Sizes:

Letter 8.5 x 11 inches

Legal 8.5 x 14 inches

A4 210 x 297 mm

Executive 7.25 x 10.5 inches

Envelope Sizes:

Com-10 Env 4.125 x 9.5 inches

Monarch Env 3.875 x 7.5 inches

DL Env 110 x 220 mm

C5 Env 162 x 229 mm

B5 Env 176 x 250 mm

NOTE: Your Windows application software may override this setting. Check the paper size you have selected in your software programs. Envelope paper sizes are not saved as permanent default paper size.

Defaults button

Choose the Defaults button to return all selections in each of the Paper, Graphics, Printer and Fonts dialog box to their default values.

Graphics Mode

Use the Graphics Mode setting to tell Windows how to send graphic information to the printer. NEC SuperScript 660 PCL Printer will print graphics as either raster images or as HP-GL/2 graphic images. All graphics can be printed as raster images, however some geometric shapes or patterns print faster if they are printed as HP-GL/2 graphics.

To Change your Graphics Mode, select one of the following options in the Graphics Mode box:

Raster

When you select the Raster setting, Windows will send all graphics to the printer as raster images.

HP-GL/2

If you select the HP-GL/2 setting, Windows will send graphics to the printer as a mixture of HP-GL/2 and raster images.

NOTE: Not all graphic images can print using the HP-GL/2 and Raster setting. If you are using the HP-GL/2 and Raster setting, and your graphic images do not print like they appear on your computer screen or if your printer displays a print overrun error, select the Raster setting and reprint your graphic.

Graphics Quality

Use the Graphics Quality box to change the resolution of graphic images.

NOTE: The Graphics Quality setting affects the resolution of graphic images only, not text. To change the resolution of text as well as graphic images, use the Printer Resolution box in the Setup dialog box. You can select one of three Graphics quality options. High quality is equal to the highest resolution that your printer prints at the current Printer Resolution. Medium quality is half that resolution and Low quality is one fourth that resolution.

High resolution will produce finer, higher quality graphics. The graphics resolution decreases as the Graphics Quality setting decreases. For example, if you have set your Printer Resolution setting to 600 dpi for the NEC SuperScript 660 PCL Printer, the High setting will print text and graphics at 600 dpi, Medium will print text and graphics at 300 dpi, and Low will print them at 150 dpi.

Graphics Quality Problems

Printed Graphic Looks Different than Computer Graphic

Not all graphic images can print using the HP-GL/2 setting in the Graphics Mode box. If your printed image looks different than the image on the computer screen, change your Graphics Mode setting from HP-GL/2 to Raster.

Related Topic:

[Graphics Mode](#)

Additional printer memory may be required to print full-page graphic images at higher Graphics Quality settings. If the printer does not print the entire graphic image on one page and the printer displays an out of memory error the printer has run out of memory.

To avoid this error:

- * choose a lower setting in the Graphics Quality box.
- * try changing the setting in the Graphics Mode box (if HP-GL/2, change to Raster or if Raster, change to HP-GL/2).
- * install more memory in your printer. (For more information about additional printer memory, contact your authorized NEC Accessories dealer).

Print Overrun printer error

The Print Overrun message indicates that the data (rules, dense text, raster graphics, or vector graphics) sent to your printer was too complex.

To avoid this error:

- * make your page less complex by reducing the amount of dense text or the number of rules or graphic images.
- * choose the Raster setting in the Graphics Mode box.

Paper

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Graphics

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Gray Scale

Gray Scale refers to a type of pattern that is applied to printed images. By using combinations of black dots, these patterns produce a gray appearance on the printed page.

The best way to choose a Halftoning setting for your graphic image is to experiment. Print a graphic image at each setting and choose the one you like best.

NOTE: In order to be able to use Gray Scale options, you must select High in the Graphics Quality box. To help you decide which selection to choose, the three settings are described here:

Photographic Images

Choose this setting for printed images that you want to have smooth, realistic and photographic appearance. The Photographic Images setting provides soft contrasts between various shades of gray. This setting also works well for images originally designed with color. At 300 dots per inch, the PCL 5 printer driver uses an 8 pixel-by-8 pixel "clustered dot" method to emulate 60 different levels of gray at this setting. At 600 dots per inch, 16 pixel-by-16 pixel give 120 levels of gray.

Line Art Images

NOTE: This option is not available if you have selected 600 dots per inch resolution in the Printer Resolution box in the Setup dialog box. If you have selected Line Art Images and you change your Printer Resolution to 300 dots per inch resolution, this options will automatically change to the Photographic Images setting.

Choose this setting for graphic images with intricate lines and fine detail, like clip art graphics. The Line Art Images setting provides solid lines and sharp contrasts between shaded areas. The PCL 5 Printer Driver uses 32 different 8 pixel-by-8 pixel dispersed dot patterns to produce gray tones.

Scanned Images

Choose this setting if your graphic images were originally scanned in through an HP ScanJet. The Scanned Images setting is specially tuned to provide exceptional quality and clarity to printed images originally scanned with an HP ScanJet. The PCL 5E Printer Driver uses a variation of the pixel-by-pixel clustered dot method used in the Photographic Images setting. This method also produces 60 different levels of gray at 300 dpi or 120 at 600 dpi.

Feed

NEC SuperScript 660 PCL Printer has two types of paper feed.

Hopper Tray

The NEC SuperScript 660 PCL Printer may provide two types 50 and 200 papers tray which depend on SETUP procedure.

Manual Feed

Choose Manual Feed allows user for manual feeding for each paper.

Contents for Font Manager Help

The Font Manager is a tool that you can use to install fonts for your NEC SuperScript 660 PCL printer. You can install soft (disk-based) fonts and scalable typefaces. The fonts must be in a specific format before you can install them with Font Manager. For more information, see [Compatible Fonts and Typefaces](#).

How To

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Copy or Move Fonts to a New Printer Port

If you are using more than one PCL printer, or if you change the port your printer is connected to, you can use Font Installer to move or copy your installed disk-based fonts to the other printer on that port.

To move or copy fonts to a new port:

- 1 In the Font Manager dialog box, choose the Copy Fonts To New Port button.
- 2 In the Copy Fonts To New Port dialog box, select the port you want to use.
- 3 Choose the OK button.

The fonts currently installed on the selected port are listed in the Font Manager dialog box.

- 4 In either the right- or left-hand list (but not both), select the fonts that you want to move or copy. When you select a font, an arrow appears between the two boxes indicating the direction of the move or copy.

- 5 Choose the Move or Copy button.

Font Manager moves or copies the selected fonts to the port shown in the other box.

- 6 If you are moving or copying disk-based fonts, you can now select Permanent or Temporary for the new port.

- 7 When you are finished, choose the Exit button.

Related Topic

[Download Soft Fonts or Scalable Typefaces as Temporary or Permanent](#)

Delete Fonts

If you are no longer using a font, you can delete it from your Windows applications. You might want to delete it from your hard disk, as well.

To delete a font:

- 1 In the font dialog box, select the font(s) you want to delete from the list box on the left.

Notice the icons and marks next to the font name. Soft fonts can be identified by the disk icon. Scalable printer fonts can be identified by a disk icon if they are disk-based scalable fonts.

- 2 Choose the Delete button.

A dialog box appears, asking if you want to delete the corresponding font files from your hard disk.

- 3 Choose Yes to delete the font(s) from both your printer memory and your hard disk. Or choose No to delete the font(s) from the printer memory but not remove them from your hard disk. When you choose No, the font name no longer appears anywhere in Windows, but the font file remains on your hard disk. Unless you plan to use it later, you should remove the font file and free the space on your hard disk.

Download Soft Fonts or Scalable Typefaces as Temporary or Permanent

The process of transferring soft fonts or scalable typefaces from your computer to your printer is called downloading.

If you use a font frequently, downloading the font as permanent ensures that the font will stay in your printer's memory until the printer is turned off. You can generally print faster when you install fonts as permanent, but permanently installed fonts can also limit the amount of printer memory available for printing graphics and complex pages.

If you install a font as temporary the font is not loaded into your printer's memory until you want to print with that font. Temporary is the standard setting and works well when you rarely use a font, when you need your printer memory for printing graphics, when you are using a variety of fonts in one document, or when you are printing to a shared printer. When you first install a font from a disk, this is the default setting.

To download a font as permanent:

- 1 In the Font Manager dialog box, select the font you want to download as permanent.

Although you can select more than one font in the list box, you can select only one font at a time for permanent downloading. If you select more than one font, the buttons used to select Permanent or Temporary will be dimmed when you try to select either setting.

- 2 Select the Permanent option.

- 3 Repeat steps 2 and 3 for each font that you want to download permanently.

- 4 When you are finished configuring the disk-based fonts, choose the Exit button.

If you designated any fonts as permanent, a dialog box appears, asking whether you want the fonts downloaded immediately and/or automatically each time you start your computer.

- 5 Leave both Download Now and Download at Startup selected if you want to download your fonts or typefaces to your printer immediately and then each time you start your computer. If you select Download at Startup, you must turn on your printer before you turn on your computer. This is because the Font Manager inserts a line into your AUTOEXEC.BAT file that automatically downloads the selected fonts to your printer every time you start or reset your computer.

- 6 Choose the Exit button

Edit Soft Font or Scalable Typeface Names and Attributes

If you purchase a disk-based font that has the same name as a font you are already using, you should change the name of the font using Font Manager.

To change a font name:

- 1 In the Font Manager dialog box, select the font you want to edit from the list of installed fonts.
- 2 Choose the Edit button.
- 3 In the Edit dialog box, type the new name for the selected font in the Name box.

Caution: Unless you are experienced at working with fonts (you create your own fonts or manually download your fonts), do not change any Font ID or Family settings that Font Manager automatically enters. The list below describes all the options in the Edit dialog box.

- 4 Choose the OK button.

The new name for the selected font now appears in the Font Manager dialog box and in the Windows applications that use fonts.

- 5 Choose the Exit button.

The options in the Edit dialog box vary slightly depending on whether you are installing a font that Font Manager doesn't recognize or whether you are editing the name of a currently installed font. In either case, you will see these options:

Option	Explanation
Description	A description of the font. If the Font Manager doesn't recognize the font, you usually see only the typestyle and point size.
Font File	The name of the file containing the font.
Name	The font name that is used in the Font Installer dialog box and throughout Windows. If you are adding a font that the installer doesn't recognize, this box is empty, and you need to enter the name of the font.
ID	The font ID number in WIN.INI. Do not change the font ID unless you are manually downloading fonts and want to change the order of the fonts in WIN.INI. If you change the font ID for a font, you must make sure that no other font installed on that printer port uses the same number.
Status	The way the font is downloaded--either as a permanent or temporary font.
Family	The name of the font family the font belongs to. The font family describes the general look of the font and determines how the installer generates the PFM file for the font.
Roman	Serif fonts with variable character widths, such as Tms Rmn.
Swiss	Sans serif fonts with variable character widths, such as Helv.
Modern	Serif or sans serif fonts with non-proportional character widths, such as Pica, Elite, and Courier.
Script	Cursive fonts.
Decorative	Old English fonts.

Edit Mode

Select this option if you selected several fonts with the same name and family. It lets you change the name of all the selected fonts at the same time.

Install Fonts

Before you install your fonts, be sure to set up your printer and printer port using Print Manager or Control Panel. After you have installed a new font, make sure it does not have the same name and point size

as another font you are using. Though the names and sizes are the same, the font metrics for the two fonts may differ and the fonts may print differently. If you find duplicate names, you can change the font name by choosing the Edit button.

Select the topic which corresponds to the kind of font you want to install:

Installing Soft Fonts

Installing Disk-based Scalable Typefaces

Specify Font Names and Font Families

If the Font Manager doesn't recognize the name or family of a font that you select to install, the Font Metrics dialog box appears so that you can enter the information. We strongly recommend that you do not change the settings provided by the font manufacturer. Use this option only if absolutely necessary.

To enter a font name in the Font Metrics dialog box:

- 1 Type the manufacturer's name for the font in the Name box.
- 2 Select the family the font belongs to.

Caution: Unless you are very experienced at working with fonts (you create your own fonts or manually download your fonts), do not change any Font ID or Family settings that Font Installer automatically enters.

- 3 Choose whether you want to install the disk-based font files permanently or temporarily.

Related Topic

[Edit Soft Font and Scalable Typeface Names and Attributes](#)

Compatible Fonts and Typefaces.

Fonts installed through the Font Manager must be in one of the following forms:

- * Bitmapped-printer (soft) fonts -- disk-based
Disk-based (soft) bitmapped printer fonts must be in PCL format.
- * Scalable typeface products -- disk-based
Scalable typeface products must be in AGFA Compugraphic's FAIS format.

