

3 Internal Typefaces / Fonts and Symbol Sets

Introduction

This chapter identifies the internal typefaces/fonts and their associated symbol sets available in the various printers. This information is presented first for bitmap fonts and their symbol sets, then for scalable typefaces and their symbol sets.

Note

Internal refers to those typefaces/fonts and symbol sets which are resident in the printer.

Bitmap Fonts and Symbol Sets

Table 3-1 identifies the resident bitmap fonts for the printers. The supported symbol sets for these bitmap fonts are shown in Table 3-2. The HP LaserJet III, IIID, IIIP, and IIISi printers contained all these bitmap fonts. However, with the introduction of the HP LaserJet 4 printer, the bitmap Courier was replaced by a scalable Courier typeface (refer to “Scalable Typefaces and Symbol Sets”). The HP LaserJet 4L, 5L, 6L, and 1100 series printers do not contain any bitmap fonts. If these printers receive a request for Line Printer, the fixed-pitch scalable Courier typeface is substituted. Except as noted, the DeskJet 1200C and 1600C support the same fonts and symbol sets as the HP LaserJet 4 printer.

Table 3-2 identifies the symbol sets available for the internal bitmap fonts. Note that this list is for the bitmap fonts only. For the scalable typeface symbol sets, refer to the section “Scalable Typefaces and Symbol Sets.”

Table 3-1. Bitmap Fonts (All Fixed Pitch)

Typeface	Pitch/Point Treatment	Orientation	III, IIID, II-IP, IIISi	4, 4M, 4P, 4MP, 4Si, 4ML, 4PJ, 4LJ Pro, 4LC, 4Plus, 4M Plus, 2100 series, 4000 series, 5000 series, 8000 series, 8100 series, 4V, 4MV, 5P, 5MP, 6P, 6MP, 5Si, 5SiMx, 5Si, Mopier, 5, 5M, Color LJ, Color LJ 5, Color LJ 5M, Color LJ 4500, Color LJ 8500, DJ 1200C, DJ 1600C	4L	5L, 6L, 6L Gold, 1100 series
Courier	10/12 Med	P & L	✓	nr	nr	nr
Courier	10/12 Italic	P	✓	nr	nr	nr
Courier	10/12 Bold	P & L	✓	nr	nr	nr
Courier	12/10 Med	P	✓	nr	nr	nr
Courier	12/10 Italic	P	✓	nr	nr	nr
Courier	12/10 Bold	P	✓	nr	nr	nr
Line Printer	16.67/8.5 Med	P & L	✓	✓	nr	nr

nr - not resident P - Portrait L - Landscape

Table 3-2. Bitmap Symbol Sets

Symbol Set¹		
Roman-8	ISO 15 Italian ⁵	ISO 84 Portuguese ²
ISO 8859/1 Latin 1 (ECMA-94)	ISO 60 Norwegian v1 ⁵	ISO 85 Spanish ²
PC-8	ISO 4 United Kingdom ⁵	ISO 10 Swedish/Finnish ²
PC-8 Danish/Norwegian	ISO 11 Swedish: names ⁵	HP German ²
PC-850	ISO 57 Chinese ²	HP Spanish ²
ISO 6 ASCII	ISO 25 French ²	ISO 8859/2 Latin 2 ³
Legal	ISO 2 IRV ²	ISO 8859/9 Latin 5 ³
ISO 21 German ⁵	ISO 14 JIS ASCII ²	ISO 8859/10 Latin 6 ⁴
ISO 17 Spanish ⁵	ISO 61 Norwegian v2 ²	ISO 8859/15 Latin 9 ⁶
ISO 69 French ⁵	ISO 16 Portuguese ²	Windows Baltic (not 3.1) ⁷

¹ PCL 5 printers support an extensive range of additional symbol sets. Some of the more common sets and their associated IDs are listed in Appendix C of this guide.

² These symbol sets are becoming obsolete, are not recommended for future use, and are not resident on HP LaserJet 4, 4M, 4Si, 4SiMx, 4ML, 4P, 4MP, 4PJ, 4 Plus, 4M Plus, 4V, 4MV, 4LJ Pro, 4LC, 2100 series, 4000 series, 5000 series, 8000 series, 8100 series, HP LaserJet 5 family, LaserJet 6 family, Color LaserJet family, and HP DeskJet 1200C and 1600C printers.

³ The ISO Latin 2 and 5 symbol sets are not supported on HP LaserJet III family and HP LaserJet 4, 4M, 4Si, 4SiMx, HP DeskJet 1200C and 1600C printers.

⁴ Resident on HP LaserJet 5, 5M, 5Si Mopier, 6P, 6MP, 2100, 4000, 5000, 8000, 8100 series, and Color LaserJet 4500 series printers only.

⁵ These symbol sets are not supported on the HP Color LaserJet 8500 series printers.

⁶ Only supported by the HP LaserJet 2100 and 8100 series, and the HP Color LaserJet 4500 series printers.

⁷ Only supported by the HP Color LaserJet 8500 series printers.

Scalable Typefaces and Symbol Sets

Table 3-3 and 3-4 list the internal scalable Intellifont and TrueType typefaces resident in the various printers. Most of these typefaces are unbound; that is, they can be linked to any of the available symbol sets (with the limitations indicated). Symbol sets to which a typeface can be bound (and bound font sets Symbol, Wingdings, Win 3.1J, and GB2312) are identified in Tables 3-5, 3-6, and 3-7. Table 3-8 shows symbol-set-bound fonts. (A list of all assigned symbol set and typeface codes is provided in Tables B-1, B-2, and B-3.)

Table 3-3. Scalable Intellifont Typefaces

Typeface	Treatment	Typeface Number	III, IIID, IIIP	IIISi	5P, 5Si, 5SiMx, 5Si Mopier, 6P, 6MP, Color LJ, Color LJ 5/5M, DJ 1200C, DJ 1600C, LJ 4 family	4PJ 4LJ Pro	4L, 5L, 6L, 6L Gold, 1100 series	4LC	5, 5M, 2100, 4000, 5000, 8000, 8100, Color 4500, Color 8500 series
ITC Zapf Dingbats	Med	4141	nr	✓	nr	nr	nr	nr	nr
CG Times	Med, It, Bld, Bld It	4101	✓	✓	✓	nr	✓	✓	nr
Univers	Med, It, Bld, Bld It	4148	✓	✓	✓	nr	✓	✓	nr
Univers Cond	Med Cnd, It Cnd, Bld Cnd, Bld It Cnd	4148	nr	✓	✓	nr	✓	✓	nr
Courier	Med, It, Bld, Bld It	4099	nr	nr	✓	✓	✓	✓	nr
Letter Gothic	Med, It, Bld	4102	nr	nr	✓	nr	✓	✓	nr
Albertus	Med (semi-bold), Extra Bld	4362	nr	nr	✓	nr	✓	✓	nr
Antique Olive	Med, It, Bld	4168	nr	nr	✓	nr	✓	✓	nr
Clarendon Cond	Bld Cnd	4140	nr	nr	✓	nr	nr	✓	nr
Coronet	Med It	4116	nr	nr	✓	nr	✓	✓	nr
Garamond	Antiqua (Med), Kursiv (It), Halbfett (Bld), Kursiv Halb (Bld It)	4197	nr	nr	✓	nr	nr	✓	nr
Marigold	Med	4297	nr	nr	✓	nr	nr	✓	nr
CG Omega	Med, It, Bld, Bld It	4113	nr	nr	✓	nr	nr	✓	nr
Wingdings	Med	6826	nr	nr	nr	nr	✓	nr	nr

✓ - resident in the printer nr - not resident in the printer

Table 3-4. Scalable TrueType Typefaces

Typeface	Treatment	Typeface Number	III, IIID, IIIP	IIISi	5P, 5Si, 5SiMx, 5Si Mopier, 6P, 6MP, Color LJ, Color LJ 5/5M, DJ 1200C, DJ 1600C, LJ 4 family	4PJ 4LJ Pro	4L, 5L, 6L, 6L Gold, 1100 series	4LC	5, 5M, 2100, 4000, Color 4500, Color 8500, 5000, 8000, 8100 series
Arial	Med, It, Bld, Bld It	16602	nr	nr	✓	✓	nr	✓	✓
Times New Roman	Med, It, Bld, Bld It	16901	nr	nr	✓	✓	nr	✓	✓
Symbol	Med	16686	nr	nr	✓	✓	nr	✓	✓
Wingdings	Med	31402	nr	nr	✓	✓	nr	✓	✓
CG Times	Med, It, Bld, Bld It	4101	nr	nr	nr	nr	nr	nr	✓
Univers	Med, It, Bld, Bld It	4148	nr	nr	nr	nr	nr	nr	✓
Univers Cond	Med Cnd, It Cnd, Bld Cnd, Bld It Cnd	4148	nr	nr	nr	nr	nr	nr	✓
Courier	Med, It, Bld, Bld It	4099	nr	nr	nr	nr	nr	nr	✓
Letter Gothic	Med, It, Bld	4102	nr	nr	nr	nr	nr	nr	✓
Albertus	Med (semi-bold), Extra Bld	4362	nr	nr	nr	nr	nr	nr	✓
Antique Olive	Med, It, Bld	4168	nr	nr	nr	nr	nr	nr	✓
Clarendon Cond.	Bld Cnd	4140	nr	nr	nr	nr	nr	nr	✓
Coronet	Med It	4116	nr	nr	nr	nr	nr	nr	✓
Garamond	Antiqua (Med), Kursiv (It), Halbfett (Bld), Kursiv Halb (Bld It)	4197	nr	nr	nr	nr	nr	nr	✓
Marigold	Med	4297	nr	nr	nr	nr	nr	nr	✓
CG Omega	Med, It, Bld, Bld It	4113	nr	nr	nr	nr	nr	nr	✓
MS Mincho	Med ¹	28752	nr	nr	nr	✓	nr	nr	nr
MS Gothic	Med ¹	28825	nr	nr	nr	✓	nr	nr	nr
SimSun	Med ¹	37058	nr	nr	nr	nr	nr	✓	nr
Sim Hei	Med ¹	37110	nr	nr	nr	nr	nr	✓	nr
GW-Kai	Med ¹	37357	nr	nr	nr	nr	nr	✓	nr

✓ - resident in the printer nr - not resident in the printer

¹ Pseudo-bold, pseudo-italic, and pseudo-bold italic are available using character enhancements.

Table 3-4. Scalable TrueType Typefaces (continued)

Typeface	Treatment	Typeface Number	III, IIID, IIIP	IIISi	5P, 5Si, 5SiMx, 5Si Mopier, 6P, 6MP, Color LJ, Color LJ 5/5M, Color LJ 8500 DJ 1200C, DJ 1600C, LJ 4 family	4PJ 4LJ Pro	4L, 5L, 6L, 6L Gold, 1100 series	4LC	2100, 4000, Color 4500, 5000, 8000, 8100 series
Times Roman	Med, It, Bld, Bld It	25093	nr	nr	nr	nr	nr	nr	✓
Helvetica	Med, Ob, Bld, Bld Ob	24580	nr	nr	nr	nr	nr	nr	✓
Helvetica Narrow	Med, Ob, Bld, Bld Ob	24580	nr	nr	nr	nr	nr	nr	✓
Century Schoolbk	Med, It, Bld, Bld It	24703	nr	nr	nr	nr	nr	nr	✓
ITC Avant Garde Gothic	Med, Ob, DemiBld, DemiBld Ob	24607	nr	nr	nr	nr	nr	nr	✓
ITC Bookman	Lt, Lt It, DemiBld, DemiBld It	24623	nr	nr	nr	nr	nr	nr	✓
CourierPS	Med, Ob, Bld, Bld Ob	24579	nr	nr	nr	nr	nr	nr	✓
Palatino	Med, It, Bld, Bld It	24591	nr	nr	nr	nr	nr	nr	✓
ITC Zapf Chancery	Med It	45099	nr	nr	nr	nr	nr	nr	✓
ITC Zapf Dingbats	Med	45101	nr	nr	nr	nr	nr	nr	✓
SymbolPS	Med	45358	nr	nr	nr	nr	nr	nr	✓

✓ - resident in the printer nr - not resident in the printer

Table 3-5. Scalable Symbol Sets

Symbol Set ¹	Printer				
	III, IIID, IIIP	IIISi	LaserJet 4 / 5 / 6 Families, 1100, 2100, 4000, 5000, 8000, 8100 series, Color LaserJet, 5, 5M, Color LaserJet 4500 DeskJet 1200C & 1600C	4PJ 4LJ Pro 4LC	Color Laser Jet 8500
Roman-8	✓	✓	✓	✓	✓
Roman-9	nr	nr	nr	nr	✓
ISO 8859/1 Latin 1	✓	✓	✓	✓	✓
PC-8	✓	✓	✓	✓	✓
PC-8 Danish/Norwegian	✓	✓	✓	✓	✓
PC-850	✓	✓	✓	✓	✓
ISO 6 ASCII	✓	✓	✓	✓	✓
Legal	✓	✓	✓	✓	✓
ISO 21 German	✓	✓	✓	✓	✓
ISO 17 Spanish	✓	✓	✓	✓	✓
ISO 69 French	✓	✓	✓	✓	✓
ISO 15 Italian	✓	✓	✓	✓	✓
ISO 60 Norwegian v1	✓	✓	✓	✓	✓
ISO 4 United Kingdom	✓	✓	✓	✓	✓
ISO 11 Swedish: names	✓	✓	✓	✓	✓
ISO 57 Chinese ²	✓	✓	nr	✓	nr
ISO 25 French ²	✓	✓	nr	✓	nr
ISO 2 IRV ²	✓	✓	nr	✓	nr
ISO 14 JIS ASCII ²	✓	✓	nr	✓	nr
ISO 61 Norwegian v2 ²	✓	✓	nr	✓	nr
ISO 16 Portuguese ²	✓	✓	nr	✓	nr
ISO 84 Portuguese ²	✓	✓	nr	✓	nr
ISO 85 Spanish ²	✓	✓	nr	✓	nr
ISO 10 Swedish/Finnish ²	✓	✓	nr	✓	nr
HP German ²	✓	✓	nr	✓	nr
HP Spanish ²	✓	✓	nr	✓	nr
PC-858 Multilingual w/ Euro	nr	nr	nr	nr	✓

✓ symbol set is resident. nr - symbol set is not resident.

¹ PCL 5 printers support an extensive range of additional symbol sets. Some of the more common sets and their associated IDs are shown in Appendix C of this guide.

² These symbol sets are soon to be obsolete, are not recommended for future use, and are not resident on any DeskJet 1200C or 1600C.

Table 3-5. Scalable Symbol Sets (continued)

Symbol Set ¹	Printer						
	III, IIID, IIIP	IIISi	LaserJet 4/5 Families Color LaserJet, Color LaserJet 5, 5M, DeskJet 1200C, 1600C	4LC	4L, 5L, 6L, 6L Gold, 1100 series	5, 5M, 6P, 6MP, 2100, 4000, 5000, 8000, 8100 series, Color LJ 4500	Color LaserJet 8500
PC-1004 (OS/2)	nr	nr	nr	nr	nr	✓	✓
DeskTop	✓	✓	✓	✓	✓	✓	✓
Ventura International ²	✓	✓	✓	✓	✓	nr	nr
PS Text	✓	✓	✓	✓	✓	✓	✓
Ventura US ²	✓	✓	✓	✓	✓	nr	nr
Microsoft Publishing	✓	✓	✓	✓	✓	✓	✓
Math-8	✓	✓	✓	✓	✓	✓	✓
Ventura Math ²	✓	✓	✓	✓	✓	nr	nr
PS Math	✓	✓	✓	✓	✓	✓	nr
Pi Font	✓	✓	✓	✓	✓	✓	✓
Ventura ITC Zapf Dingbats ²	nr	✓	nr	nr	nr	nr	nr
PS ITC Zapf Dingbats	nr	✓	nr	nr	nr	nr	nr
ITC Zapf Dingbats 100	nr	✓	nr	nr	nr	nr	nr
ITC Zapf Dingbats 200	nr	✓	nr	nr	nr	nr	nr
ITC Zapf Dingbats 300	nr	✓	nr	nr	nr	nr	nr
ISO 8859-2 Latin 2	nr	nr	✓ ⁴	✓	✓	✓	✓
ISO 8859-9 Latin 5	nr	nr	✓ ⁴	✓	✓	✓	✓
ISO 8859-10 Latin 6	nr	nr	nr	nr	nr	✓	✓
ISO 8859-15 Latin 9	nr	nr	nr	nr	nr	✓ ⁵	✓
PC 852	nr	nr	✓ ⁴	✓	✓	✓	✓
PC 775	nr	nr	nr	nr	nr	✓	✓
PC Turkish	nr	nr	✓ ⁴	✓	✓	✓	✓
MC Text	nr	nr	✓	✓	✓	✓	✓
Windows 3.1 Latin 1	nr	nr	✓	✓	✓	✓	✓
Windows 3.1 Latin 2	nr	nr	✓ ⁴	✓	✓	✓	✓
Windows 3.1 Latin 5	nr	nr	✓ ⁴	✓	✓	✓	✓
Windows Baltic (not 3.1)	nr	nr	nr	nr	nr	✓	✓
Windows 3.0 Latin 1	✓	✓	✓	✓	✓	✓	✓
Windows 3.1J (WIN3.1J)	nr	nr	✓ ³	nr	nr	nr	nr
GB2312	nr	nr	nr	✓	nr	nr	nr
Symbol	nr	nr	✓	✓	nr	✓	✓
Wingdings	nr	nr	✓	✓	✓	✓	✓

✓ Indicates a symbol set is supported. nr - Indicates a symbol set is not resident.

¹ PCL 5 printers support an extensive range of additional symbol sets. See Appendix C of this guide.

² These symbol sets are soon to be obsolete and are not recommended for future use.

³ The Japanese Windows 3.1J symbol set is only resident in the LaserJet 4PJ, 4LJ Pro printers, and if ESC/P SIMM is installed, in the LaserJet 4V, 4MV, 5Si, 5SiMx, 5Si Mopier printers.

⁴ For the HP LaserJet 4, 4M, 4Si, and 4SiMx printers, these symbol sets are only available in CG Times, Univers, Courier, and Letter Gothic.

⁵ Only available in the HP LaserJet 2100, 4500, and 8100 series printers.

Table 3-6. Intellifont Typeface Symbol Set Support

PCL Symbol Set ID	Symbol Set	CG Times	Univers	Courier	Letter Gothic	Albertus	Antique Olive	Coronet	Univers Cond.
8U	Roman-8	•	•	•	•	•	•	•	•
0N	ISO 8859-1 Latin 1 (ECMA 94 Latin 1)	•	•	•	•	•	•	•	•
10U	PC-8	•	•	•	•	•	•	•	•
11U	PC-8 D/N	•	•	•	•	•	•	•	•
12U	PC-850	•	•	•	•	•	•	•	•
19U	Windows 3.1 Latin1 (ANSI)	•	•	•	•	•	•	•	•
7J	DeskTop	•	•	•	•	•	•	•	•
10J	PS Text	•	•	•	•	•	•	•	•
13J	Ventura International	•	•	•	•	•	•	•	•
14J	Ventura US	•	•	•	•	•	•	•	•
6J	Microsoft Publishing	•	•	•	•	•	•	•	•
1U	Legal	•	•	•	•	•	•	•	•
1E	ISO United Kingdom*	•	•	•	•	•	•	•	•
0U	ASCII*	•	•	•	•	•	•	•	•
0S	ISO Swedish: names*	•	•	•	•	•	•	•	•
0I	ISO Italian*	•	•	•	•	•	•	•	•
2S	ISO Spanish*	•	•	•	•	•	•	•	•
1G	ISO German*	•	•	•	•	•	•	•	•
0D	ISO Norwegian*	•	•	•	•	•	•	•	•
1F	ISO French*	•	•	•	•	•	•	•	•
9U	Windows 3.0 Latin 1	•	•	•	•	•	•	•	•
12J	MC Text	•	•	•	•	•	•	•	•
17U	PC-852	•	•	•	•	◆	◆	◆	◆
9T	PC-Turkish	•	•	•	•	◆	◆	◆	◆
9E	Windows 3.1 Latin 2	•	•	•	•	◆	◆	◆	◆
5T	Windows 3.1 Latin 5	•	•	•	•	◆	◆	◆	◆
2N	ISO 8859-2 Latin 2	•	•	•	•	◆	◆	◆	◆
5N	ISO 8859-9 Latin 5	•	•	•	•	◆	◆	◆	◆
8M	Math-8	•	•	•	•				
5M	PS Math	•	•	•	•				
6M	Ventura Math	•	•	•	•				
15U	Pi Font	•	•	•	•				
19M	Symbol								
579L	Wingdings								

• Fonts supported by Color LaserJet family, DeskJet 1200C, 1600C, LaserJet 1100 series, LaserJet 4/5/6 families except 4PJ, 4LJ Pro, 5, and 5M. Courier is the only Intellifont typeface family supported by the LaserJet 4PJ printer.

◆ Additional fonts supported by DeskJet 1200C, 1600C (B,C revs.), Color LaserJet 8500, & LaserJet 4/5/6 families except 4,4M,4Si,4SiMx,4PJ,4LJ Pro, 5,5M.

* These symbol sets are subsets of the Roman-8 set.

Table 3-6. Intellifont Typeface Symbol Set Support (continued)

PCL Symbol Set ID	Symbol Set	Clarend. Cond.	Marigold	CG Omega	Garmnd. Antiqua	Wingdings
8U	Roman-8	•	•	•	•	
0N	ISO 8859-1 Latin 1 (ECMA 94 Latin 1)	•	•	•	•	
10U	PC-8	•	•	•	•	
11U	PC-8 D/N	•	•	•	•	
12U	PC-850	•	•	•	•	
19U	Windows 3.1 Latin 1 (ANSI)	•	•	•	•	
7J	DeskTop	•	•	•	•	
10J	PS Text	•	•	•	•	
13J	Ventura International	•	•	•	•	
14J	Ventura US	•	•	•	•	
6J	Microsoft Publishing	•	•	•	•	
1U	Legal	•	•	•	•	
1E	ISO United Kingdom*	•	•	•	•	
0U	ASCII*	•	•	•	•	
0S	ISO Swedish: names*	•	•	•	•	
0I	ISO Italian*	•	•	•	•	
2S	ISO Spanish*	•	•	•	•	
1G	ISO German*	•	•	•	•	
0D	ISO Norwegian*	•	•	•	•	
1F	ISO French*	•	•	•	•	
9U	Windows 3.0 Latin 1 (Windows)	•	•	•	•	
12J	MC Text	•	•	•	•	
17U	PC-852	◆	◆	◆	◆	
9T	PC-Turkish	◆	◆	◆	◆	
9E	Windows 3.1 Latin 2	◆	◆	◆	◆	
5T	Windows 3.1 Latin 5	◆	◆	◆	◆	
2N	ISO 8859-2 Latin 2	◆	◆	◆	◆	
5N	ISO 8859-9 Latin 5	◆	◆	◆	◆	
8M	Math-8					
5M	PS Math					
6M	Ventura Math					
15U	Pi Font					
19M	Symbol					
579L	Wingdings					▲

• Supported by Color LaserJet 8500 and all LaserJet 4 / 5 / 6 family printers, except 4PJ, 4L, 5L, 6L, 4LJ Pro, 5, and 5M. Not supported by LaserJet 1100 series printers.

◆ Additional fonts supported by DeskJet 1200C, 1600C (B,C revs.), Color LaserJet 8500, & LaserJet 4/5/6 families except 4,4M,4Si,4SiMx,4PJ,4LJ Pro, 5,5M.

▲ Additional font supported by the HP LaserJet 4L, 5L, 6L, 6L Gold, DeskJet 1200C (B, C revisions), and 1600C only.

* These symbol sets are subsets of the Roman-8 set.

Table 3-7. Typeface Symbol Set

Scalable TrueType and Intellifont Typefaces				Bitmap Font
PCL Symbol Set ID	Symbol Set	TrueType Typefaces	Intellifont Typefaces	Line Printer
7U	Roman-9	†	†	
8U	Roman-8	•	•	•
0N	ISO 8859-1 Latin 1 (was ECMA 94 Latin 1)	•	•	•
10U	PC-8	•	•	•
11U	PC-8 D/N	•	•	•
12U	PC-850	•	•	•
13U	PC-858 Multilingual with Euro	†	†	
19U	Windows 3.1 Latin 1 (Microsoft "ANSI")	•	•	
9J	PC-1004 (OS/2)	•	•	
7J	DeskTop	•	•	
10J	PS Text	•	•	
1U	Legal	•	•	•
1E	ISO United Kingdom*	•	•	• ¹
0U	ASCII*	•	•	•
0S	ISO Swedish: names*	•	•	• ¹
0I	ISO Italian*	•	•	• ¹
2S	ISO Spanish*	•	•	• ¹
1G	ISO German*	•	•	• ¹
0D	ISO Norwegian*	•	•	• ¹
1F	ISO French*	•	•	• ¹
9U	Windows 3.0 Latin 1 (formerly "Windows")	•	•	
12J	MC Text	•	•	
17U	PC-852	▲	•	
26U	PC-775	◆	◆	
9T	PC-Turkish	▲	•	
9E	Windows 3.1 Latin 2	▲	•	
19L	Windows Baltic (not 3.1)	◆	◆	†
5T	Windows 3.1 Latin 5	▲	•	
2N	ISO 8859-2 Latin 2	▲	•	▲
5N	ISO 8859-9 Latin 5	▲	•	▲
6N	ISO 8859-10 Latin 6	◆	◆	◆
9N	ISO 8859-15 Latin-91	❖	❖	❖ ¹

• Fonts supported by HP LaserJet 4, 4Si, 4ML, 4P, 4MP, 4PJ, 4Plus, 4M Plus, 4V, 4MV, 4LJ Pro, 4LC, 5P, 5Si, 5SiMx, 5Si Mopier, 5, 5M, 6P, 6MP, LaserJet 2100, 4000, 5000, 8000, 8100 series, Color LaserJet, Color LaserJet 5, 5M, Color LaserJet 4500 and 8500 series printers.

◆ Additional fonts supported by LaserJet 5, 5M, LaserJet 2100, 4000, 5000, 8000, and 8100 series, Color LaserJet 4500 and 8500 printers.

* These symbol sets are subsets of the Roman-8 set.

▲ Fonts supported by HP LaserJet 4ML, 4P, 4MP, 4PJ, 4 Plus, 4M Plus, 4V, 4MV, 5Si, 5SiMx, 5Si Mopier, 5, 5M, 6P, 6MP, LaserJet 2100, 4000, 5000, 8000, and 8100 series, Color LaserJet, Color LaserJet 5, 5M, Color LaserJet 4500 and 8500 series printers.

❖ Fonts supported on the HP LaserJet 2100, 4500, 8100, and 8500 series printers.

¹ Not supported on the HP Color LaserJet 8500 printer.

† Supported only on the HP Color LaserJet 8500 printer.

Table 3-7. Typeface Symbol Set Support (continued)

Scalable TrueType and Intellifont Typefaces				Bitmap Font
PCL Symbol Set ID	Symbol Set	TrueType Typefaces	Intellifont Typefaces	Line Printer
8M	Math-81	◆	•	
5M	PS Math1	◆	•	
15U	Pi Font1	◆	•	
6J	Microsoft Publishing1	◆	•	
6M	Ventura Math1	★	★	
13J	Ventura International	★	★	
14J	Ventura US	★	★	

• Fonts supported by HP LaserJet III / 4 / 5 families except 4PJ, 4LJ Pro, 4LC. Also supported by LaserJet 2100, 4000, 5000, 8000, 8100 series, Color LaserJet family, DeskJet 1200C and 1600C printers.

◆ Additional fonts supported by LaserJet 5, 5M, LaserJet 2100, 4000, 5000, 8000, and 8100 series, Color LaserJet 4500 and 8500 printers.

★ Not supported by HP LaserJet 5, 5M, LaserJet 2100, 4000, 5000, 8000, and 8100 series, Color LaserJet 4500 and 8500 series printers.

¹ These symbol sets are only recommended for text typefaces.

Table 3-8. Bound Symbol Set Support

PCL Symbol Set ID	Symbol Set	Wingdings	ITC Zapf Dingbats MS	Symbol	MS Mincho MS Gothic	Sim Sun Sim Hei GW-Kai
19M	Symbol			•		
579L	Wingdings	•				
14L	ITC Zapf Dingbats MS		†			
19K	Japanese Windows 3.1J (WIN3.1J)				★	
19C	GB2312					■

• Fonts supported by HP LaserJet 4, 4Si, 4ML, 4P, 4MP, 4PJ, 4Plus, 4M Plus, 4V, 4MV, 4LJ Pro, 4LC, 5P, 5Si, 5SiMx, 5Si Mopier, 5, 5M, 6P, 6MP, LaserJet 2100, 4000, 5000, 8000, and 8100 series, Color LaserJet, Color LaserJet 5, 5M, 4500, and 8500 series printers.

★ Only for HP LaserJet 4PJ, 4LJ Pro and printers with the ESC/P SIMM installed (LaserJet 4V/4MV, 5Si/5SiMx and 5Si Mopier).

■ Only for the HP LaserJet 4LC printer, and other LaserJet printers configured with a Chinese printing option.

† ITC Zapf Dingbats MS are supported on the LaserJet 4000, 5000, 8000, 8100, 2100, and 4500 printers.

Typeface Selection Differences

With the introduction of the HP LaserJet IID printer, Hewlett-Packard expanded the typeface value field (in the font header) from a one-byte to a two-byte value field, thus expanding the typeface range from 0-255 to 0-32767. This expansion allows for additional typefaces.

Prior to the HP LaserJet IID printer, typeface values used a single byte (8-bits for a range of 0-255) for font selection. This value, referred to as the *typeface base value*, was used to identify fonts for selection. With the addition of the second byte in the typeface value field, one bit was added to the typeface base value range, increasing it from 8 bits to 9 bits (for a range of 0-511). This allows a greater range for typeface base value selection.

In addition to expanding the typeface base value, two other values were included in the two-byte typeface value: **vendor number** and **vendor version**. The vendor number identifies the font vendor and the vendor version identifies the version of the font. These two values are for a vendor to create an updated version of the typeface. The three values together represent the **typeface family value**. Refer to the *PCL 5 Printer Language Technical Reference Manual* Chapter 11, "Font Creation - Typeface Family," for a more complete description of this two-byte typeface family value.

Note

With the introduction of the HP LaserJet 4 printer, HP redefined the typeface field again, this time eliminating the vendor version identifier and expanding the typeface family to encompass the 12 least significant bits (bits 11-0) of this 16-bit field (see the field description for "Typeface" in Chapter 11).

Both the typeface family value and the typeface base value can be used for font selection. Since the typeface family value (two-byte value) is based on the typeface base value (9 bit value), a font selection which specifies the typeface base value may select a font described by a typeface family value in the printer.

There is some variation in how font selection occurs between PCL 5 printer models when mixing the typeface family and base values. The typeface selection compatibility for two types of values is identified for the various PCL 5 printers in Table 3-8.

Some typeface (two-byte) family values and their corresponding base values are listed below. For a complete listing of typeface family and base values, refer to Tables C-2 and C-3 in Appendix C of this document.

Typeface Values

Family Value	Typeface Family	Base Value
0	Line Printer	0
16602	Arial	218
4168	Antique Olive	72
4127	ITC Avant Garde	31
4119	CG Century Schoolbook	23
4101	CG Times	5
4148	Univers	52

Table 3-9. Base/Family Typeface Selection Compatibility

Typeface Selection Command Ec(s#T Type	Printer Font Descriptor Type	PCL 5 Printer	IIP	IID	series II ¹
Family Value	Family Value	Typeface Selected	Typeface Selected	Typeface Selected	Ignores typeface (value field too large)
Family Value	Base Value	Ignores typeface for font selection	Ignores typeface for font selection	Ignores typeface for font selection	Ignores typeface for font selection (value field too large)
Base Value	Family Value	Typeface Selected ²	Ignores typeface for font selection	Ignores typeface for font selection	Typeface may be selected (font descriptor typeface MSB field is ignored) ³
Base Value	Base Value	Typeface Selected	Typeface Selected	Typeface Selected	Typeface Selected
This table assumes that the typeface type specified is available in the printer.					

¹ The LaserJet series II printer only accepts a typeface selection value field range of 0-255.

² If two fonts are available in the printer that have the same value in the lower (LSB) byte of the font descriptor typeface field (such as 5 and 4101), the typeface selected will be one of these selected at random.

³ The MSB typeface byte in the Font Descriptor is ignored by the printer; only the LSB typeface byte is read.