

Infoprint Fonts: Font Summary



Infoprint Fonts: Font Summary

Note!

Before using this information and the product it supports, read the information in "Notices" on page 67.

Third Edition (May 2005)

This edition of *IBM Infoprint Fonts: Font Summary* applies to IBM Infoprint Fonts for z/OS, Version 1 Release 1 Modification 0, program number 5648–E76; to IBM Infoprint Fonts for Multiplatforms, Version 1 Release 1 Modification 0, program number 5648–E77; and to all subsequent releases of these products until otherwise indicated in new releases or technical newsletters.

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Chapter 1. Introduction

The IBM[®] Infoprint[®] Fonts provide fonts and font utilities that can be used to create a robust AFP[™] presentation environment. The IBM Infoprint Fonts is actually two separate products:

- IBM Infoprint Fonts for z/OS[™] (Program Number 5648-E76)
- **IBM Infoprint Fonts for Multiplatforms** (Program Number 5648-E77)

About this publication

This publication summarizes the contents of the Infoprint Fonts products: Infoprint Fonts for z/OS (product number 5648-E76) and Infoprint Fonts for Multiplatforms (product number 5648-E77).

This publication is organized as follows:

- Chapter 1, "Introduction" explains how this publication is organized, introduces
 the Infoprint Fonts versions, provides a summary of releases, and a summary of
 how the fonts are packaged and distributed.
- Chapter 2, "About Infoprint Fonts," on page 9 summarizes what is included with the Infoprint Fonts products.
- Chapter 3, "Font Concepts," on page 15 explains some basic font concepts including how characters are represented, characteristics of font spacing, and point and pitch sizes.
- Chapter 4, "FOCA font concepts," on page 21 explains the basic FOCA (Font Object Content Architecture) font structure and the format of FOCA characters sets.
- Chapter 5, "FOCA font naming conventions," on page 29 explains the conventions used to name the FOCA fonts, as well as the conventions used to name the Code pages.
- Chapter 6, "WorldType font naming conventions," on page 41 explains the conventions used to name the WorldType fonts.
- Chapter 7, "Font summary tables," on page 43 contains tables that identify the
 operating systems, media shipped on, formats available, major font types, code
 page identifiers, coded font identifiers, character set identifiers, and available
 point or pitch size for the following:
 - Expanded Core Fonts
 - DBCS Core Fonts
 - Simulation Fonts
 - WorldType Fonts
- Chapter 8, "Code pages," on page 59 contains a table that lists the code pages included with Infoprint Fonts.

Related Publications

For more information about character sets, code pages, coded fonts, warranty, and usage information, refer to the following publications:

- Using OpenType Fonts in an AFP System, G544-5876, which explains how to install and reference TrueType and OpenType fonts in Microsoft Unicode format on systems that use the IBM Advanced Function Presentation Architecture to print or display data.
- Licensed Information for IBM Infoprint Fonts for z/OS and IBM Infoprint Fonts for Multiplatforms, G544-5847, which provides warranty information for both products.

- IBM AFP Fonts: Introduction to Typography, G544-3122, which introduces the
 concepts of typography to help the user design documents and print them using
 Advanced Function Presentation[™] (AFP) software.
- IBM AFP Fonts: Technical Reference for Code Pages, S544-3802, which
 provides in-depth Expanded Core font information including character set
 attributes, tables that show all AFP characters and the language complements
 that contain them.
- IBM Technical Reference for AFP Font Collection Expanded Core Fonts, S544-5228
- IBM AFP Fonts: Font Samples, G544-3792, which provides printed samples of all AFP fonts.
- IBM Data Stream and Object Architectures: Font Object Content Architecture (FOCA) Reference, S544-3285, which contains the architecture definition and describes the functions and elements that make up the Font Object Content Architecture (FOCA).
- IBM Infoprint Fonts: Japanese Font Library Technical Reference, S544-5849, which provides technical details for the Japanese character sets and code pages.
- *IBM Infoprint Fonts: Korean Font Library Technical Reference*, S544-5850, which provides technical details for the Korean character sets and code pages.
- IBM Infoprint Fonts: Simplified Chinese Font Library Technical Reference, S544-5851, which provides technical details for the Simplified Chinese character sets and code pages.
- IBM Infoprint Fonts: Traditional Chinese Font Library Technical Reference, S544-5852, which provides technical details for the Traditional Chinese character sets and code pages.

Note: The Infoprint Fonts WorldType[®] references are available only as PDF files at http://www.printers.ibm.com/psc.nsf/support/manuals.

- Infoprint Fonts WorldType Reference: Windows Glyph List, S544-5911
- Infoprint Fonts WorldType Reference: Middle East Glyph List, S544-5912
- Infoprint Fonts WorldType Reference: East Asia Glyph List, S544-5913
- Infoprint Fonts WorldType Reference: Complete Glyph List, S544-5914

For more information about Type Transformer, refer to *IBM Infoprint Fonts: Introduction to Type Transformer and Utilities for Windows*[®], G544-5853.

For information about the font formats supported by IBM printers, refer to *IBM Printing Systems: Printer Information*, S544-5750.

For more information on fonts, visit the **Printing Systems Font Finder** that you can access through the **Printing Systems Information Center**.

About Infoprint Fonts Version 1.1.0 June 2005

The June 2005 version adds the Linux install process for the Linux print servers supported by the Printing Systems Division.

About Infoprint Fonts Version 1.1.0 December 2003

This section lists the enhancements to Infoprint Fonts, Version 1.1.0:

- Four WorldType fonts:
 - Monotype Sans[™] WorldType
 - Monotype Sans Duospace[™] WorldType

- Thorndale Duospace[™] WorldType
- Times New Roman[®] WorldType
- · Font Installer for AFP Systems, which includes integrated help, for installing the WorldType fonts or other TrueType/OpenType fonts in an AFP system.

About Infoprint Fonts Version 1.1.0 December 2002

This section lists the enhancements and limitations of the Infoprint Fonts, Version 1.1.0, compared with the AFP Font Collection, Version 2.1.1.

The following applies to the Infoprint Fonts product in general:

- · With Infoprint Fonts, there are fewer installation selections, components, and procedures.
- File extensions were added to the AIX® and Windows media features for Code Pages (CDP) and Coded Fonts (CFT) to better utilize file associations in the environment.

Infoprint Fonts limitations

- · Infoprint Fonts provides only AFP Outline Fonts. That is, no AFP Raster Fonts, such as 240 or 300 dpi, are included.
- No additional coded fonts are provided in the General Library.
- The Compatibility Fonts are no longer provided with any media feature; they are now included with the print servers (PSF and Infoprint Manager).
- The following FontLab components are no longer supplied:
 - Composer for CID font editing
 - TypeTool for simple Type1 font editing.
 - Sigmaker for converting signatures to font characters
- No new coded fonts are provided in the General Library.
- Increased BLOCKSIZE and LRECL dataset allocations on z/OS systems.
- The store fonts function for z/OS and OS/400® have been removed from Type Transformer. You can use FTP to transfer fonts and then invoke the AFP Reblocker program shipped with PSF to store fonts on z/OS, and you can use the AFP Manager feature of Client Access to store fonts on OS/400.

General Font Library

The General Font Library contains the fonts referred to as single-byte fonts in the AFP Font Collection. The General Font Library also contains fonts that were not labeled in the AFP Font Collection, such as Arabic, Cyrillic/Greek, Latin, OCR, and Thai. The Infoprint Fonts includes the following regional enhancements for the General Font Library:

Arabic

- Enhanced the existing 12 AFP Outline Characters Sets as follows:
 - Added Euro support
 - Height of Arabic and Latin numbers now match the height of Latin
- Added four new code pages that support the euro:
 - T1E00420: Arabic Bilingual with euro
 - T1E00864: Arabic Personal Computer with euro
 - T1E01008: Arabic ISO with euro
 - T1E01046: Arabic Extended ISO with euro

Cyrillic/Greek

- · Enhanced the existing 12 AFP Outline Characters Sets as follows:
 - Added Euro support
 - Added Kazakhstan support
 - Added Microsoft[®] Windows support
- · Added 14 new code pages as follows:
 - Greece:
 - T1E00813: Greece—ISO 8859-7
 - T1E00869: Greece—Personal Computer
 - T1E00875: Greece—EBCDIC
 - T1001253: Windows Greek
 - Russia:
 - T1000808: Personal Computer, Cyrillic, Russian with euro
 - T1001154: EBCDIC Cyrillic, Multilingual with euro
 - T1001251: Windows Cyrillic
 - Belarus:
 - T1000849: Personal Computer, Cyrillic, Belo Russian with euro
 - T1001131: Personal Computer, Cyrillic, Belo Russian
 - Ukraine
 - T1000848: Personal Computer, Cyrillic, Ukraine with euro
 - T1001125: Personal Computer, Cyrillic, Ukraine
 - T1001158: EBCDIC Cyrillic, Ukraine with euro
 - Bulgaria, Macedonia, Serbia (Cyrillic):
 - T1000872: Cyrillic Personal Computer with euro
 - Kazakhstan:
 - T1001166: EBCDIC Cyrillic, Multilingual with euro

Latin

- Created a new Latin character compliment to remove divisional boundaries of the Latin1, Latin235, and Latin4 character compliments
- · Created 12 new AFP Outline Character Sets for:
 - All Latin characters
 - Euro for Latin235
 - Baltic
 - Vietnam
- · Added 18 new code pages as follows:
 - Czech Republic, Hungary, Poland, Croatia, Serbia (Latin), Slovakia, Slovenia, Romania (Latin):
 - T1E00852: Latin2 Multilingual Personal Computer with euro
 - T1001153: Latin2 Multilingual with euro
 - T1001250: Windows Latin2
 - Turkey:
 - T1E00857: Latin5 Turkey Personal Computer with euro
 - T1001155: EBCDIC Turkey with euro
 - T1001254: Windows Turkish
 - Estonia:
 - T1000902: 8-bit Estonia with euro
 - T1000922: Estonia, Personal Computer
 - T1001157: EBCDIC Estonia with euro
 - Latvia, Lithuania:
 - T1000901: Personal Computer Baltic Multilingual with euro
 - T1000921: Personal Computer Baltic Multilingual
 - T1001156: EBCDIC Baltic Multilingual with euro
 - T1001257: Windows Baltic Rim
 - Vietnam:

- T1001129: Vietnamese ISO-8.
- T1001130: Vietnamese EBCDIC
- T1001163: Vietnamese ISO-8 with euro
- T1001164: Vietnamese EBCDIC with euro
- T1001258: Windows Vietnamese
- Latin235 was updated with an IBM character name to Adobe Character Name mapping that better reflects the IBM Corporate Standards
- · Latin1 and Latin4 are unchanged

OCR

- · OCR-A was not changed
- OCR-B was updated as follows:
 - New Letterpress design using the objectives of the following specifications:
 - CEN/TC304 N992 specification (draft dated 29 October 2001)
 - ISO 1073 II
 - Added Euro support
 - Added two new OCR-B code pages:
 - T1E00893: OCR B with euro
 - T1E00877: OCR B Personal Computer with eruo

Thai Enhanced the existing 12 AFP Outline Character Sets as follows:

- · Added Euro support
- · Added Microsoft Windows support
- · Added three new code pages:
 - T1001160: Thailand EBCDIC with euro
 - T1001161: Thailand Personal Computer with euro
 - T1001162: Windows Thailand

The following character complements remain unchanged from the AFP Font Collection:

- APL
- BookMaster®
- Hebrew
- Katakana
- Lao
- Symbols

Japanese Font Library

The Japanese Font Library was enhanced as follows:

- Enhanced to support the new Japanese standard for JIS X-0213
- Added new support for SAP
- · Added 4 new code pages as follows:
 - Full-width code page for the JIS X-0213 standard supporting glyphs
 - Full-width code page for the HYOGAI KANJI JITAIHYO
 - Two full-width code pages for IBM unique character shapes

Korean Font Library

The Korean Font Library was enhanced as follows:

- Added support for Euro Phase 2
- Added support for a registered trademark
- Added new support for SAP
- Enhancements to full- and half-width code pages

Simplified Chinese Font Library

The Simplified Chinese Font Library was enhanced as follows:

- The Hei and Song typefaces are enhanced for GB18030 Phase 1 Support, including the euro
- Fang Song and Kai typefaces are enhanced with the euro
- · Added new support for SAP
- · Enhancements to full- and half-width code pages

Traditional Chinese Font Library

The Traditional Chinese Font Library was enhanced as follows:

- · Added new support for SAP
- · Improved glyph designs for better clarity.

Type Transformer and Utilities

The following enhancements have been made to the Type Transformer and utilities available with Infoprint Fonts:

Type Transformer

The Type Transformer program was revised to create the AFP Font media features included with Infoprint Fonts.

Font utilities

- · AFP Font Editor
 - GUI display of Character Set information
 - GUI editing of Code Page and Coded Font information
- · Improved GUI for RMARKing font data with DUVRMARK
- User Designed Character (UDC) Generation Tool that allows migration from 240 dpi UDC raster fonts to an outline format
- CID to EPS transform with Type Transformer Double Byte

FontLab

FontLab product has been updated to Version 4.5.

IBM Logo fonts

The use of the IBM Logo fonts is restricted to printing softcopy documents provided by IBM or such other use as may be consistent with IBM softcopy publication distribution.

Summary of Releases

This publication provides information about the following licensed program releases:

Table 1. Summary of font releases

Licensed program	Description	Release level
5648-113	IBM AFP Font Collection for IBM Operating System (contains IBM Expanded Core Fonts, 4028 Font Metrics, IBM Compatibility Fonts.	1.1.0
5648-B33	IBM AFP Font Collection for MVS [™] , OS/390 [®] , VM, and VSE (contains IBM Expanded Core Fonts)	2.1.0
5648-B45	IBM AFP Font Collection for Workstations and OS/400 (contains Expanded Core Fonts and features that provide Compatibility Fonts, Type Transformer plus other font utilities, and DBCS Core Fonts)	2.1.1

Distribution

The following table summarizes the packaging for Infoprint Fonts:

Table 2. Packaging for Infoprint fonts

	General Font Library	Chinese, a	rean, Simplified nd Traditional ont Libraries	Outline fonts				
Package	Expanded Core	DBCS Core	DBCS Simulation	CID-keyed	Type 1	TrueType		
z/OS	Yes	Yes	Yes	No	No	No		
OS/400	Yes	Yes	Yes	No	No	No		
AIX, Linux, and Windows	Yes	Yes	Yes	Yes	Yes	See Table 6 on page 8.		

The following tables summarize the distribution numbers and media for Infoprint Fonts:

Table 3. Font distribution information for z/OS

Library	Operating system	Distribution medium	Media feature number	OTC feature number	Material ID
General	z/OS	3480	5802	0001	N/A
Japanese	z/OS	3480	5812	0002	N/A
Korean	z/OS	3480	5822	0003	N/A
Simplified Chinese	z/OS	3480	5832	0004	N/A
Traditional Chinese	z/OS	3480	5842	0005	N/A

Table 4. Font distribution information for AIX, Linux, and Windows on CD-ROM medium

Library	OTC feature number	Media feature number	Material ID
General	0001	5957	LCD4-5587
Japanese	0002	5849	LCD4-5589
Korean	0003	5889	LCD4-5591
Simplified Chinese	0004	5879	LCD4-5593
Traditional Chinese	0005	5809	LCD4-5595

Table 5. Font distribution information for OS/400

Library	OTC feature number	Media feature number	Medium	Material ID
General	0001	5829	CD-ROM	LCD4-5588
Japanese	0002	5839	CD-ROM	LCD4-5590
Korean	0003	5819	CD-ROM	LCD4-5592
Simplified Chinese	0004	5869	CD-ROM	LCD4-5594
Traditional Chinese	0005	5859	CD-ROM	LCD4-5596

Table 6. Windows font distribution information for WorldType fonts

Package	OTC feature number	Media feature number	Medium	Material ID
AFP Print Servers	0020	5996	CD-ROM	LK2T-9315
AFP Clients	0023	5983	CD-ROM	LK2T-9391

Table 7. Font Installer for AFP Systems

Operating system	OTC feature number	Media feature number	Medium	Material ID
Windows	0026	5970	CD-ROM	LCD4-5602

Table 8. Type Transformer and Utilities for Windows

Operating system	OTC feature number	Media feature number	Medium	Material ID
Windows	0006	5899	CD-ROM	LCD4-5597

Chapter 2. About Infoprint Fonts

This section describes that is included with the Infoprint Fonts products.

IBM Expanded Core Fonts

The IBM Expanded Core Fonts are provided with Infoprint Fonts. Code pages and coded fonts compatible with the Expanded Core Fonts are also provided.

The IBM Expanded Core Fonts combine the IBM Core Interchange Fonts, IBM Coordinated Fonts, and IBM BookMaster Fonts.

The IBM Expanded Core Fonts are all derived from Adobe Type 1 font technology and are provided in the AFP outline format supported by AFP software for SBCS fonts.

The IBM Expanded Core Fonts are provided in the following formats:

Table 9. Format and operating systems for General Font Library

Format	Operating systems				
AFP outline fonts	z/OS, OS/400, AIX, Windows				
Type 1	AIX, Windows				

The Expanded Core Fonts include the following font families:

- Boldface in Roman Bold typeface
- BookMaster Latin1 in Roman Medium, Roman Bold, Italic Medium, and Italic Bold typefaces
- BookMaster Reverse in Roman Medium typeface
- BookMaster Specials in Roman Medium, Roman Bold, Italic Medium, and Italic Bold typefaces
- · BookMaster Specials Reverse in Roman Medium typeface
- Courier in Roman Medium, Roman Bold, Italic Medium, and Italic Bold typefaces
- Courier APL2[®] in Roman Medium and Roman Bold
- · Gothic Katakana in Roman Medium typeface
- · Gothic Text in Roman Medium typeface
- Helvetica[™] in Roman Medium, Roman Bold, Italic Medium, and Italic Bold typefaces
- IBM Logo in Roman Medium typeface
- · Letter Gothic in Roman Medium and Roman Bold typefaces
- OCR-A in Roman Medium typeface
- · OCR-B in Roman Medium typeface
- Prestige in Roman Medium, Italic Medium, and Roman Bold typefaces
- Times New Roman in Roman Medium, Roman Bold, Italic Medium, and Italic Bold typefaces

Courier, Helvetica, and Times New Roman contain characters for the International Standards Organization (ISO) language groups listed under "Languages supported" on page 10. A symbol collection is also provided for each of these three type families that contains scientific, mathematical, and special-purpose characters in Roman Medium and Roman Bold typefaces.

Languages supported

Language groups identified in items 2 through 10 are defined in the International Organization for Standardization (ISO) standard 8859.

Note: Not every font provides characters for every language listed.

- 1. The Latin language group includes Latin1 through Latin5 and Vietnamese.
- 2. The Latin1 language group (ISO 8859-1) includes Danish, Dutch, English, Faeroese, Finnish, French, German, Icelandic, Irish, Italian, Norwegian, Portuguese, Spanish, and Swedish. The Latin1 language group also provides the euro currency symbol and all Latin9 (ISO 8859-15) characters.
- 3. The Latin2 language group (ISO 8859-2) includes Albanian, Czech, English, German, Hungarian, Polish, Romanian, Serbocroatian, Slovak, and Slovenian.
- 4. The Latin3 language group (ISO 8859-3) includes Afrikaans, Catalan. Dutch, English, Esperanto, French, German, Italian, Maltese, Spanish, and Turkish.
- 5. The Latin4 language group (ISO 8859-4) includes Danish, English, Finnish, French, German, Greenlandic, Lap, Latvian, Lithuanian, Estonian, and Norwegian.
- 6. The Latin/Cyrillic language group (ISO 8859-5) includes Bulgarian, Byelorussian, English, Macedonian, Russian, Serbocroatian, and Ukrainian.
- 7. The Latin/Arabic language group (ISO 8859-6) includes Latin and Arabic scripts.
- 8. The Latin/Greek language group (ISO 8859-7) includes Latin and Greek scripts.
- 9. The Latin/Hebrew language group (ISO 8859-8) includes Latin and Hebrew scripts.
- 10. The Latin5 language group (ISO 8859-9) includes Danish, Dutch, English, Finnish, French, Irish, Italian, Norwegian, Portuguese, Spanish, Swedish, and Turkish.
- 11. The Latin/Lao language group provides support for the Lao language.
- 12. The Latin/Thai language group provides support for the Thai language.
- 13. Katakana/Gothic Katakana contains phonetic syllabic characters used for writing non-Japanese words, such as foreign names, borrowed words, or company names.

DBCS fonts

The DBCS fonts are derived from the Adobe CID-Keyed font technology. The DBCS fonts are available in AFP outline format.

DBCS Fonts are provided in the following formats:

Table 10. Format and operating systems for DBCS fonts

Format	Operating systems				
AFP outline fonts	z/OS, OS/400, AIX, Windows				
CID-Keyed fonts	AIX, Windows				

DBCS Core Fonts

The DBCS Core Fonts are available for use with IBM Print Services Facility[™] (PSF) licensed programs. These fonts contain the following typefaces suitable for printing a variety of Chinese, Japanese, and Korean documents:

- · Japanese:
 - Japanese Heisei Kaku Gothic
 - Japanese Heisei Maru Gothic
 - Japanese Heisei Mincho
- Korean:
 - Korean Gothic
 - Korean Myengjo
- · Simplified Chinese
 - Fang Song (GB)
 - Hei (GB18030)
 - Kai (GB)
 - Song (GB18030)
- · Traditional Chinese
 - Kai
 - Sung

DBCS Simulation Fonts

The DBCS Simulation Fonts are available for use with IBM Print Services Facility (PSF) licensed programs. The DBCS Simulation Fonts are provided in AFP Outline Font format that simulates the following raster font products:

Table 11. Raster font products associated with DBCS Simulation Fonts

Product Name	Product ID	Host	OS/400	AIX	OS/2	Status
	Jap	anese				
AFP Japanese Font V2	5771-AGB	Х				Available
AFP Japanese Heisei Font	5648-104	Х				Available
AFP AIX Japanese Font/6000	5765-345			Х		Available
AFP Japanese Font/2	5605-0L0				Х	Withdrawn
	Ko	rean				
AFP Korean Font	5771-ARW	Х				Available
AFP Korean Font	5765-547			Χ		Available
	Simplifie	d Chines	е			
AFP Simplified Chinese Font	5771-AEK	Х				Available
AFP Simplified Chinese Font	5765-545			Х		Available
AFP Simplified Chinese Font/2	5605-3L0				Х	Withdrawn
	Tradition	al Chines	е			
AFP Traditional Chinese Font	5771-AFZ	Х				Available
AFP Traditional Chinese Font	5765-546			Χ		Available
AFP Traditional Chinese Font/2	5606-TL0				Х	Withdrawn
DBCS (Japanese	e, Korean, Simpl	ified Chin	ese, Tradi	tional C	hinese)	
IBM AS/400 Advanced Function Printing Fonts for DBCS Japan Version 2	5738-FN1		Х			Withdrawn

Table 11. Raster font products associated with DBCS Simulation Fonts (continued)

Product Name	Product ID	Host	OS/400	AIX	OS/2	Status		
Advanced Function Printing DBCS Fonts for AS/400	5769-FN1		Х			Available		
Advanced Function Printing DBCS for OS/400	5716-FN1		Х			Withdrawn		
Advanced Function Printing DBCS Fonts/400	5763-FN1		Х			Withdrawn		
Note: Host operating systems include MVS, VM, and VSE.								

Type Transformer and Utilities

The Type Transformer single-byte program converts Type 1 outlines to 240 dpi, 300 dpi, and AFP outline fonts. The Type Transformer single-byte program also converts TrueType Outlines to 240 dpi.

The Type Transformer double-byte program converts CID-Keyed fonts to 240 dpi and AFP outline fonts.

The Type Transformer and Utilities are provided for the Windows Operating System.

The Type Transformer Utilities include the following:

- AFP Font Editor that includes GUI editing of Character Set, Code Page, and Coded Font information
- Improved GUI for RMARKing font data with DUVRMARK
- User Designed Character (UDC) Generation Tool that allows migration from 240 dpi UDC raster fonts to an outline format
- · CID to EPS transform for UDC creation

WorldType Fonts

Four WorldType Fonts are provided with Infoprint Fonts.

The WorldType Fonts include the following typefaces:

- Monotype Sans WorldType
- Monotype Sans Duospace WorldType
- Thorndale Duospace WorldType
- Times New Roman WorldType

Table 12. Format and operating systems for WorldType fonts

Format	Operating systems
	Native support for Windows that can be installed to AIX, OS/400, and z/OS by using the Font Installer for AFP Systems.

Note: Before you can order the WorldType fonts, you must purchase and install the following components of the Infoprint Fonts product:

- AFP Outline Fonts for a General Library (base feature)
- Font Installer for AFP Systems

Unicode ranges

The WorldType fonts are organized by subsets and grouped by character blocks as defined by Unicode. The following subsets do not fully support all glyphs in every character block and may contain glyphs from other characters blocks:

- Windows Glyph List (WGL) is a subset supporting Latin, Greek, Cyrillic, Modified Letters and Combining Marks. Partial support for Symbols and glyphs in the Special Area. This subset provides the same basic set of characters as Microsoft's Windows Glyph List 4.
- Middle East Glyph List is a subset supporting Arabic and Hebrew in addition to the WGL support.
- East Asia Glyph is a subset supporting Han, Hiragana, Katakana, Hangul, Bopomofo and Yi in addition to the WGL support.
- · Complete Glyph List contains every character presently supported by IBM.

This section is provided as a high-level overview. Please refer to the World Type References (listed under "Related Publications" on page 1) for a complete list of glyphs provided by each subset.

Localizations

The East Asia Glyph List and Complete Glyph List are available with Han localizations for Japanese, Korean, Simplified Chinese, and Traditional Chinese. There is a 64K glyph limit in the TrueType and OpenType font architecture that limits the amount of support that can be provided with a single font. This limitation requires a different font to be selected to properly represent each locale.

The set of Han glyphs is not fully localized for all four locales. Each of the localizations support the Windows 98 glyph set for a particular locale. The Simplified Chinese locale is the only uniform designed glyph set. There are fallback glyphs in the other locales for those not supported. For example, if a glyph is specified that is not part of the Windows 98 Japanese glyph set, then the Simplified Chinese glyph is used for that particular glyph.

Embedded Bitmaps

The East Asia Glyph List and Complete Glyph List are available with and without embedded bitmaps. The embedded bitmaps are provided for many of the Han, Hiragana, and Katakana glyphs. These bitmaps improve the quality of the glyph at screen resolutions. It is recommended that the fonts without embedded bitmaps be used by the print system and that the embedded bitmap fonts be installed into the operating system for display on screens.

The level of embedded bitmap support is based upon the Windows 95 glyph set. There are six bitmap sizes included within the fonts. Each bitmap size is designed to represent the locale and the type style, except for the smallest bitmap, which is too small to distinguish the difference.

Font Installer for AFP Systems

The Font Installer for AFP Systems, which is an optional feature of Infoprint Fonts, allows TrueType and OpenType fonts to be installed in an AFP environment. The Font Installer is a Java application designed for Windows. The program allows the creation and modification of AFP font libraries on AIX, OS/400, Windows, and z/OS.

Note: Before you can order the Font Installer for AFP Systems, you must purchase and install the AFP Outline Fonts for a General Library (base feature).

Chapter 3. Font Concepts

Representation of characters

An important concept to understand is how fonts are represented. For the fonts printed by page printers using Advanced Function Presentation (AFP) licensed programs, characters are represented by mathematical formulas (outline fonts) or by data describing each dot to be printed (raster or bitmap fonts).

Pels and print resolution

A dot is called a *picture element* or pel. The sequence of dots forming a character is called a *raster pattern*. The number of dots per inch that a printer generates is called the *print resolution*, or density. A resolution of 240 pels means that a printer prints 240 pels per inch both vertically and horizontally, or 57 600 pels per square inch (240×240) .

Figure 1 shows two images of different print resolutions. The image on the right has more pels per inch and greater print resolution than the image on the left.



Figure 1. Print resolution examples

The ability to print at a given pel density is determined by the type of printer. Because IBM fonts are provided for specific resolutions, different fonts are available for printers with different resolutions (for example, 240-pel and 300-pel printers).

Outline fonts

Characters in outline fonts are described by mathematical formulas rather than by pels. These formulas are used by rasterizing software to create bitmap characters based on two variables: resolution and point size. This means that a single outline font can offer many print resolutions and point sizes. "Hints" are also contained in the outline fonts to ensure that typographic characteristics of the typeface are maintained in a consistent manner throughout all printed characters. Some of these characteristics include horizontal and vertical stroke widths, serifs, and curve radii.

Rotation of characters

The ability to print in different directions and with different character rotations is also determined by the type of printer. *Print direction* shows the direction in which characters are added to a line of text. *Character rotation* is the clockwise rotation of a character with respect to the character baseline. The *character baseline* is a reference on which characters are aligned as they are added to the page in the print direction. The character baseline is always parallel to the print direction.

Figure 2 shows how print direction and character rotation can be combined to print in many orientations.

Print	Character Rotation (in degrees)								
Direction	0	90	180	270					
Across (0)	ABCD	A B C D	DCB∀	D C					
Down (90)	ABCD	C B A	DCBA	A B C D					
Back (180)	DOM ▼		DCBA	D C B A					
Up (270)	ABCD	D C B A	DCBA	D B V					

Figure 2. Print direction and character rotation combinations (print orientations)

Font Spacing characteristics

Fonts can be classified according to their spacing characteristics as well as by their format.

Uniformly spaced fonts

Uniformly spaced fonts, or monospaced fonts, are similar to typewriter fonts, for which each character increment is the same width. Thus, the lowercase i and the . each occupy as much space as the uppercase M. Examples of uniformly spaced fonts include Courier and Letter Gothic.

i.M.i.M.i.M.i.M.i.M.i.M.i.M.i.M.

Duospace fonts

Duospace fonts are similar to uniformly spaced fonts or monospaced fonts. Duospace fonts may be two character widths instead of a single character width. Ideographic characters are designed on full-width increments while other characters can be designed for half-width increments. This concept allows the half-width and full-width characters in the Box Size examples in Figure 7 on page 19 to be implemented in a single font.

Note: As additional language support is implemented in Duospace fonts, more character widths may be used. However, the characters widths are always a multiple of the half-width character increment. This functionality allows a monospaced appearance of the data using this font spacing.

Typographic fonts

Typographic fonts are proportionally spaced fonts. The character increment¹ is part of the design and varies on a character-by-character basis. Thus, the lowercase i and the . occupy narrow spaces. The uppercase M occupies a wide space. Examples of typographic fonts include Helvetica and Times New Roman.

i.M.i.M.i.M.i.M.i.M.i.M.i.M.

^{1.} A character increment is the distance that the current print position is increased for the particular character printed.

Pitch Uniformly spaced fonts are often described or referred to in *pitch*, or the number of characters printed in 1 horizontal inch (Figure 3). Pitch is also referred to as characters per inch (CPI).

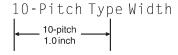


Figure 3. Type size in pitch

Points

All fonts are measured in *points*, the vertical size of the font. One inch is equal to approximately 72 points. Point size is a baseline-to-baseline measurement, which includes minimal white space. The *baseline* is the line upon which the characters rest. Thus, the actual height of the characters in an 18-point font is less than 18 points (Figure 4). The line spacing usually includes one or more additional points of white space between lines of type.



Figure 4. Type size in points

Box size

DBCS raster fonts were formerly measured in *box size*, the number of pels in the character box. Box size can be either a horizontal or a vertical measurement. Usually both dimensions are given, the box width first. If only one dimension is given, it is the box height. In full-width fonts, the box width is usually equal to the box height. In half-width fonts, the box width is one-half the box height.

Point and pitch sizes

This section illustrates various point and pitch sizes. See the figures in Chapter 5, "FOCA font naming conventions," on page 29 for the character position within the font naming conventions that represent the point or pitch size.

Uniformly spaced SBCS fonts are measured horizontally in pitch and specified as points in the coded font or character set name. Proportionally spaced and mixed-pitch fonts are measured vertically in points. Although the DBCS fonts are uniformly spaced, they are measured vertically in points.

Point examples

Point size is a vertical measurement.

This is 6 points.
This is 7 points.
This is 8 points.
This is 9 points.
This is 10 points.
This is 11 points.
This is 12 points.
This is 14 points.
This is 16 points.
This is 16 points.
This is 18 points.
This is 20 points.
This is 20 points.
This is 24 points.
This is 30 points.
This is 30 points.

67 8 9 10 11 12 14 16 18 20 24 30 36

Figure 5. Point size examples

Pitch examples

Pitch size is a horizontal measurement.

1234567890

This is 10 pitch or 10 characters per inch.

123456789012

This is 12 pitch or 12 characters per inch.

1234567890123

This is 13.3 pitch or 13.3 characters per inch.

123456789012345

This is 15 pitch or 15 characters per inch.

123456789012345678

This is 18 pitch or 18 characters per inch.

12345678901234567890

This is 20 pitch or 20 characters per inch.

123456789012345678901234567

This is 27 pitch or 27 characters per inch.

Figure 6. Pitch size examples

Box size examples

Box size is a 240-pel measurement.

abcderrorul2345ABCDEZアイウオツ Full-Width

abcdeアイウォッ12345ABCDEZアイウオシ Half-Width

Box height of 48 or Point size of 14.4

abcderrory12345ABCDEZアイウオツ Full-Width

abcdeァィゥォッ12345ABCDEZアイウオシ Half-Width

Box height of 40 or Point size of 12.0

abcderronul2345ABCDEZTTウオツ Full-Width

abcdeフィウオッ12345ABCDEZアイウオシ Half-Width

Box height of 32 or Point size of 9.6

Full-Width abcdeァィゥォッ12345ABCDEZアイウオツ

Half-Width

abcde7イウオッ12345ABCDEZ7イウオシ Box height of 24 or Point size of 7.2

Figure 7. Box size examples

Chapter 4. FOCA font concepts

This section introduces you to font terminology and how characters are represented in digitized type. The structure of FOCA (Font Object Content Architecture) fonts is then presented along with the format of the fonts and spacing characteristics. In addition, the ways in which IBM supplies fonts are described, and the naming conventions for the fonts are included.

Font definitions

To understand FOCA font structure, you must first understand some definitions about fonts. Figure 8 shows the basic components of a type family, including typeface, style, weight, width, complement, type font, and type size. These terms are illustrated and defined in this section.

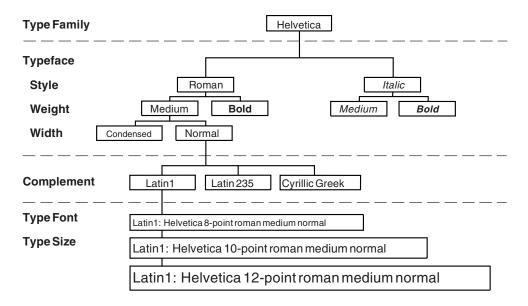


Figure 8. Helvetica type family

Type family

A *type family* is a group of typefaces that share basic design characteristics and encompass many size and style variations. Examples of type families include:

- Courier
- Helvetica (Figure 8)
- Times New Roman

Typeface

A *typeface* is a collection of characters having the same style, weight, and width. Examples of these attributes are shown in Figure 8.

- *style* is the inclination of a letter around a vertical axis; for example, roman (upright) or *italic* (slanted).
- weight is the degree of boldness of a typeface; for example, medium or hold
- width is the horizontal variation in a character design; for example, normal or condensed.

Type font, type size, and complement

A type font, or font, is a collection of characters sharing the same type family, typeface, and type size. Collections of characters for Expanded Core Fonts are referred to as complements.

Note: In IBM Type Transformer, complements are called *character lists*.

FOCA font structure

In FOCA font terminology, a font has three components (Figure 9). They are:

- Coded font
- · Character set
- · Code page

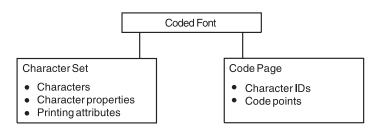


Figure 9. Font components

Coded font

In FOCA font structure, a *coded font* translates your request for type (for example, text you previously entered at a computer terminal) into characters for printing. A raster coded font consists of two parts:

- References to specific character sets
- References to specific code pages

A character must be included in the specified character set and listed on the specified code page before it can be printed. A coded font pairs a specific code page with a specific character set.

An outline coded font consists of three parts:

- · References to specific character sets
- · References to specific code pages
- · References to point size

Font Character set

In FOCA font structure, a font character set corresponds to the definition of a font; it contains the characters of a single type family, typeface, and type size. In addition, a character set specifies character properties and printing attributes (Figure 10 on page 23).

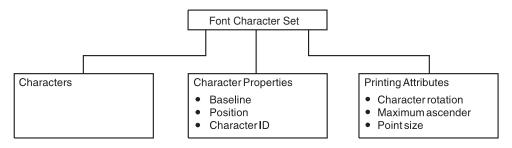


Figure 10. Composition of a character set

Characters

Characters are the letters, numerals, punctuation marks, or other symbols of a font.

Character properties

Character properties detail how a character is positioned relative to the characters around it. Some character properties include the following:

- · The baseline of a character showing its general alignment
- The dimensions of space in which the character is printed
- · The position of the character within that space
- The identifier of the character (the character ID)

One of the character properties is the *character ID* (or graphic character ID). Each character is assigned a character ID; for example, the character A (uppercase A) is assigned the character ID LA020000.

The purpose of a character ID is to distinguish the character from similar characters. For example, the following characters look similar; however, they are different and are assigned different character IDs.

Minus sign (-) Character ID SA000000 Hyphen (-) Character ID SP100000 Em dash (—) Character ID SM900000

For a list of character IDs, the character each represents, and the code pages where the characters are found, refer to *IBM AFP Fonts: Technical Reference for Code Pages*.

Printing attributes

The printing attributes define how the character set will be printed. Some printing attributes include rotation of characters, maximum ascender, and point size.

Single- and double-byte character sets

A single-byte character set (SBCS) is a font character set intended for use with a single-byte code page (see 25).

A double-byte character set (DBCS) is a font character set intended for use with a double-byte code page. Double-byte character sets contain some single-byte characters, usually romaji (Western characters) and katakana. Single-byte code pages are used with these characters.

Code page

In FOCA font structure, a *code page* maps each character of text to the characters in a character set (Figure 11 on page 24). As you enter your text at a computer terminal, each keyboard character is translated into a *code point*. When the text is

printed, each code point is matched to a character ID on the code page you specified. The character ID is then matched to the image (raster pattern or outline pattern) of the character in the character set you specified. The image in the character set is the image that is printed in your text. To be a valid code page for a particular character set, all character IDs in the code page must be included in that character set.

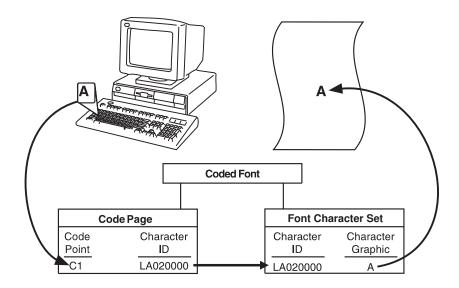


Figure 11. Translation of a keyboard character into a printed character

A character ID is an 8-byte character data string. A code point is an 8-bit binary number representing one of 256 potential characters (the maximum number of characters available on a code page). Code points are usually shown as hexadecimal representations of their binary values.

Binary 11000001 Decimal 193 Hexadecimal C1

Figure 12 on page 25 shows an example of a code page. When the printer receives hexadecimal code point C1 for the code page shown (code page T1V10037), it prints an uppercase A (character ID LA020000).

T1V10037 Country Extended: United States, Canada

CPGID	GCSGID
37	697

Hex Codes 1st→ 2nd↓	4-	5-	6-	7-	8-	9-	A-	B-	C-	D-	E-	F-
-0	SP010000	& SM030000	_ SP100000	Ø LO610000	Ø LO620000	o SM190000	μ SM170000	^ SD150000	{ SM110000	} SM140000	SM070000	0 ND100000
-1	SP300000	é LE110000	/ SP120000	É LE120000	a LA010000	j LJ010000	~ SD190000	£ SC020000	A LA020000	J LJ020000	÷ SA060000	1 ND010000
-2	â	ê	Â LA160000	Ê LE160000	b LB010000	k LK010000	S LS010000	¥ SC050000	B LB020000	K LK020000	S LS020000	2 ND020000
-3	ä LA170000	ë LE170000	Ä LA180000	Ë LE180000	C LC010000	l LL010000	t LT010000	SD630000	C LC020000	L LL020000	T LT020000	3 ND030000
-4	à	è	À LA140000	È LE140000	d	m LM010000	u LU010000	© SM520000	D LD020000	M LM020000	U LU020000	4 ND040000
-5	á LA110000	Í LI110000	Á LA120000	Í LI120000	e LE010000	n LN010000	V LV010000	§ SM240000	E LE020000	N LN020000	V LV020000	5 ND050000
-6	ã LA190000	î LI150000	Ã LA200000	Î	f LF010000	O LO010000	W LW010000	¶ SM250000	F LF020000	O LO020000	W LW020000	6 ND060000

Figure 12. IBM code page T1V10037

Different code pages

Code pages accommodate various national languages by using characters and special symbols appropriate to the language. Different code pages can have identical character IDs assigned to different code points.

For example, the character é (lowercase e accent acute, character ID LE110000) has the following code point assignments in two different code pages:

- Hexadecimal code point 51 in code page T1V10037 (Country Extended: United States, Canada)
- Hexadecimal code point 5A in code page T1V10280 (Country Extended: Italy)

Single- and double-byte code pages

A single-byte code page contains 256 or fewer one-byte code points. Single-byte code pages are large enough for languages with alphabetic writing systems, such as English, Greek, and Arabic.

A double-byte code page can contain as many as 65 536 two-byte code points. Languages with non-alphabetic writing systems, such as Chinese, Japanese, and Korean, require double-byte code pages.

Double-byte character sets contain some single-byte characters, usually romaji (Western characters) and katakana. Single-byte code pages are used with these characters. Because the characters are either half-width (see 17) or proportionally spaced, these code pages are sometimes called half-width code pages.

Code page sections

If you think of a double-byte code page as a collection of single-byte code

pages, a double-byte character code has two parts: the first byte indicating a section of the code page and the second byte a code point within the section.

Raster coded fonts treat double-byte code pages this way. The coded font is divided into sections, each with its own single-byte code page. Each character in the section has a single-byte code point.

Outline coded fonts treat double-byte code pages as single large code pages. Each character has a double-byte code point.

Format of FOCA character sets

IBM supplies character sets in these formats:

- · 240-pel bounded-box raster format
- 300-pel raster format
- Type 1 outline format for IBM Type Transformer
- CID-keyed outline format for IBM Type Transformer
- · AFP outline format

240-pel raster

240-pel raster fonts are bounded-box fonts used on 240-pel printers. The resolution of these fonts is 240 dots per inch. All character positioning metrics in these fonts are expressed in whole-pel (fixed-metric) values.

300-pel raster

300-pel raster fonts are used on printers where the resolution is 300 dots per inch. The character positioning values are expressed in relative metrics and the exact pel count is determined at print time.

Type 1 Outline

Type 1 outline is the format used with IBM Type Transformer for SBCS fonts. This format includes outlines of the various type families, which can be transformed for use by advanced function printers in sizes from 1-999 points (AFP outline fonts) or from 1-72 points (raster fonts). For more information, refer to IBM Infoprint Fonts: Introduction to Type Transformer and Utilities for Windows.

CID-keyed outline

CID-keyed outline is the format used with IBM Type Transformer for DBCS fonts. This format includes outlines of the various type families, which can be transformed for use by advanced function printers in sizes from 1-999.9 points (AFP outline fonts) or from 1-72 points (raster fonts). For more information, refer to IBM Infoprint Fonts: Introduction to Type Transformer and Utilities for Windows.

AFP outline

AFP outline is the format by which PSF and other AFP applications can identify Type 1 outline fonts. The Type 1 or CID-keyed outlines are encapsulated in Font Object Content Architecture (FOCA) wrappers that allow them to be accessed as AFP resources. AFP outlines utilize relative metrics in exactly the same way as 300-pel fonts.

Fixed metrics

Fixed-metric fonts have all character positioning metrics expressed in whole-pel values. All 240-pel fonts are fixed-metric fonts. For example, the character increment of the 'A' in 240-pel Helvetica Latin1 roman medium 10pt is 22 pels. When 240-pel fonts are created, any fractional pels encountered are eliminated by rounding up or down to whole-pel values.

Relative metrics

Relative metrics were developed for scaleable outline fonts where a single metric value could be used to determine a pel value given a desired resolution and point size. Relative metrics are based on 1000 units per "em space," which means the fonts are designed for a hypothetical 1000 dpi, 72-point font where each side of the bounding box is 1000 pels. All AFP outlines and 300-dpi fonts contain relative metrics. The exact pel values are determined when the font is used, such as during document formatting or printing. For example, the character increment for A in 300-pel Helvetica Latin1 roman medium is 667 relative units. In the hypothetical 1000 dpi, 72-point font, the A would have a character increment of 667 pels, but at 10 points and 300-dpi resolution, the character increment of the A is 27.8 pels. The fractional pel (.8 in this case) is accumulated by the printer and a whole white pel is inserted when the accumulator = 1. Constantly adjusting the character increments in this way ensures that the output text is as close to the original outline specification as possible.

Chapter 5. FOCA font naming conventions

You can select a font from the tables in this publication without understanding the naming conventions. However, if you want to know how the IBM naming conventions identify a specific font and its characteristics, this section helps you.

Naming conventions for the code pages are described under "IBM code page naming conventions" on page 38.

First character in the IBM naming convention

The following list shows the first letter of the naming convention and the type of font component that each letter represents.

First Character	Font Component				
C	Character set				
X	Coded font				
Т	Code page				

Remaining characters in the IBM naming convention

The remainder of each name has been assigned according to different conventions, for each of the following IBM font groups:

- Expanded Core Fonts (see Figure 13 on page 30)
- DBCS Core Fonts (see Figure 14 on page 34 and Figure 15 on page 35)
- DBCS Simulation Fonts (Figure 16 on page 37)

Character set and coded font names are usually distinctive and can be used to determine whether a font is an Expanded Core Font or a DBCS Core Font.

Code page names are usually not distinctive enough to determine for which IBM font group the code page is supplied.

For character set, code page, and coded font names associated with Infoprint Fonts, see:

- "Expanded Core Fonts" on page 44
- "DBCS Core Fonts" on page 48
- · "DBCS Simulation Fonts" on page 51

Note: For the naming conventions for fonts produced by IBM Type Transformer, refer to *IBM Infoprint Fonts: Introduction to Type Transformer and Utilities for Windows*.

Expanded Core Fonts

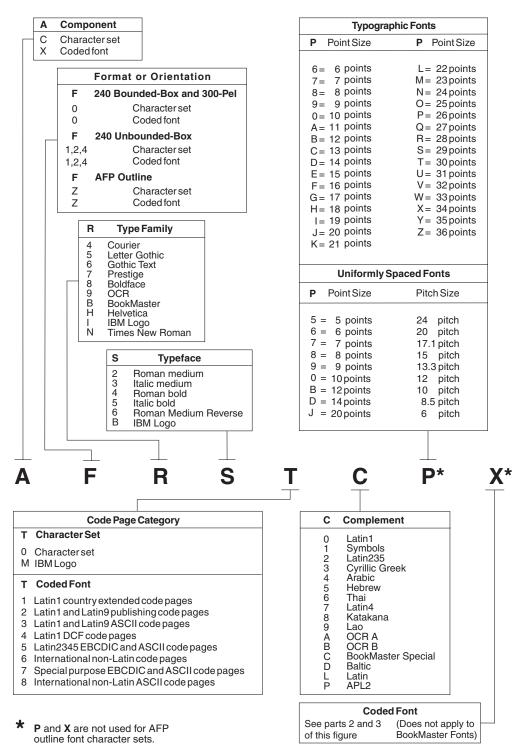


Figure 13. Expanded Core Font naming convention overview (Part 1 of 3). The raster font information provided in Part 1 of this figure is provided for your convenience. However, no raster fonts are included with Infoprint Fonts. Code pages not listed in Part 2 and Part 3 of this figure do not have a corresponding coded font.

Lat	tin1 (Country Exten	ded Code Pages (T=1)	L	atin1	DCF Code Pag	ges (T=4)
x	С			x			
1	0	T1V10037	United States, Canada	^			
2	Ö	T1V10273	Austria, Germany	1	0	T1001002	DCF Release 2 Compatibility
3	0	T1V10274	Belgium	2	0	T1001003 T1001068	U.S. Text Subset Text with Numeric Spacing
4	0	T1V10275	Brazil	3		T1001008	GML List Symbols
5	0	T1V10277	Denmark, Norway	4	0 ,	11001000	ameliatoymbola
6	0	T1V10278	Finland, Sweden	+			
7 8	0	T1V10280 T1V10281	Italy Japan (Latin)	La	atin23	45 EBCDIC an	d ASCII Code Pages (T=5)
9	0	T1V10281	Portugal	X	С		
Ö	Ö	T1V10284	Spain, Latin America	1	2	T1000870	Latin2 EBCDIC
A	0	T1V10285	United Kingdom	2	2	T1000905	Latin3 EBCDIC
В	0	T1V10297	France	3	2	T1001026	Latin5 EBCDIC
С	0	T1V10500	International #5	4	2	T1000852	Personal Computer: Latin2
D	0	T1V10871	Iceland	5	2	T1000853	Personal Computer: Latin3
Lat	tin 1 F	Euro Country F	Extended Code Pages (T=1)	6	2	T1000857	Personal Computer: Latin5
La		_uio Oouiitiy t	Extended Goden ages (1-1)	7	2	T1000912	ISO/ANSI 8-Bit: Latin2
Х	С			8	2 7	T1000920 T1001069	ISO/ANSI 8-Bit: Latin5 Latin4 EBCDIC
1	Ε	T1001140	USA, Canada ECECP	0	7	T1001003	ISO/ASCII: Latin4
2	Ε	T1001141	Austria, Germany ECECP	A	2	T1001110	Latin2 Multilingual
5	E	T1001142	Denmark, Norway ECECP	В	2	T1001111	Latin2 ISO/ANSI 8-bit
6 7	E	T1001143 T1001144	Finland, Sweden ECECP	C	2	T1000913	Latin3 ISO/ASCII
0	Ē	T1001144	Italy ECECP Spain, Latin America ECECP	D	2	T1001122	Estonia EBCDIC
Ă	Ē	T1001146	UK ECECP	-			
В	E	T1001147	France ECECP	Int	ernat	ional Non-Lati	n Code Pages (T=6)
С	Ε	T1001148	International ECECP	v	_		
D	Ε	T1001149	Iceland ECECP	X	С		
				1	4	T1000420	Arabic Bilingual
				2	3 5	T1000423 T1000424	Greece 183 Hebrew
La	tın1 a	and Latin9 Pul	olishing Code Pages (T=2)	4	5	T1000424	Hebrew
Х	С			5	3	T1000875	Greece
1	0	T1000361	International Set #5	6	8	T1V10290	Japan (Katakana)
2	0	T1000381	Austria, Germany, Switzerland	7	3	T1000880	Cyrillic Multilingual
3	0	T1000382	Belgium	8	6	T1000838	Thailand
4	0	T1000384	Brazil	9	3	T1001025	Cyrillic Multilingual
5	0	T1000385	Canada (French)	0 A	5 8	T1001028 T1001027	Hebrew Publishing Japanese (Latin) Extended
6	0	T1000386	Denmark, Norway	В	6	T1001027	Thailand
7	0	T1000387	Sweden, Finland	C	3	T1000003	Cyrillic, Ukraine EBCDIC
8 9	0	T1000388 T1000389	France, Switzerland Italy, Switzerland (Italian)	D	3	T1001124	Cyrillic, Ukraine ASCII
0	0	T1000389	Japan (Latin)	E	9	T1001132	Lao EBCDIC
A	0	T1000390	Portugal	F	8	T1001139	Japan Katakana Numeric
В	0	T1000392	Spain, Philippines				
С	0	T1000393	Latin America (Spanish)				
D	0	T1000394	United Kingdom, Australia,				
			Ireland, Hong Kong,				
Е	0	T1000395	New Zealand United States, Canada (English)				
F	0	T1000395	Latin9				
				4			
La	tin1	and Latin9 AS	CII Code Pages (T=3)	_			
X	С						
1	0	T1000437	PersonalComputer				
2	0	T1000850	Personal Computer: Multilingual				
3	0	T1000860	Personal Computer: Portugal				
4	0	T1000861	Personal Computer: Iceland				
5	0	T1000863	Personal Computer: Canadian French				
6	0	T1000865	Personal Computer: Nordic				
7 8	0	T1001004 T1000819	IBM PC Desktop Publishing ISO/ANSI 8-Bit: Latin1				
9	0	T1000819	PC Multilingual with euro				
А	0	T1000923	Latin9				

Figure 13. Expanded Core Font naming convention overview (Part 2 of 3). The raster font information provided in Part 1 of this figure is provided for your convenience. However, no raster fonts are included with Infoprint Fonts. Code pages not listed in Part 2 and Part 3 of this figure do not have a corresponding coded font.

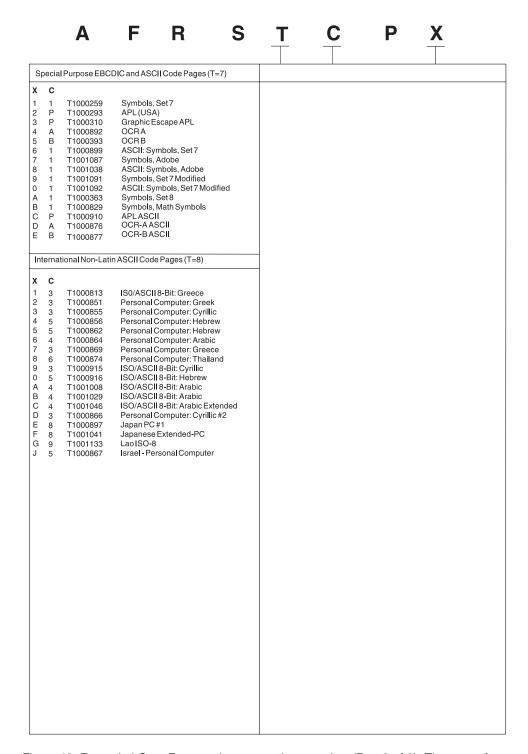


Figure 13. Expanded Core Font naming convention overview (Part 3 of 3). The raster font information provided in Part 1 of this figure is provided for your convenience. However, no raster fonts are included with Infoprint Fonts. Code pages not listed in Part 2 and Part 3 of this figure do not have a corresponding coded font.

DBCS Core Outline Fonts

Table 13. DBCS Core Outline Font naming convention overview. This naming convention is used for CID-keyed outlines and AFP outline character sets.

PP	Prefix	xxxx	Language and Typeface	Wn	Weight
IB	CID outline	JHKG	Japanese Heisei Kaku	W3	Light
IL	CID outline (GB18030)		Gothic	W4	Semilight
CZ	AFP outline	JHMG	Japanese Heisei Maru Gothic	W5	Medium
		JHMN	Japanese Heisei Mincho	W6 Note:	Semibold Wn is not used when PP is
		HKG2	Korean Gothic	CZ.	
		HSM2	Korean Myengjo		
		SFSG	Simplified Chinese Fang Song (GB)		
		SHEI	Simplified Chinese Hei (GB18030)		
		SKAI	Simplified Chinese Kai (GB)		
		SSNG	Simplified Chinese Song (GB18030)		
		TKAI	Traditional Chinese Kai		
		TSNG	Traditional Chinese Sung		

DBCS Core Full-Width Fonts

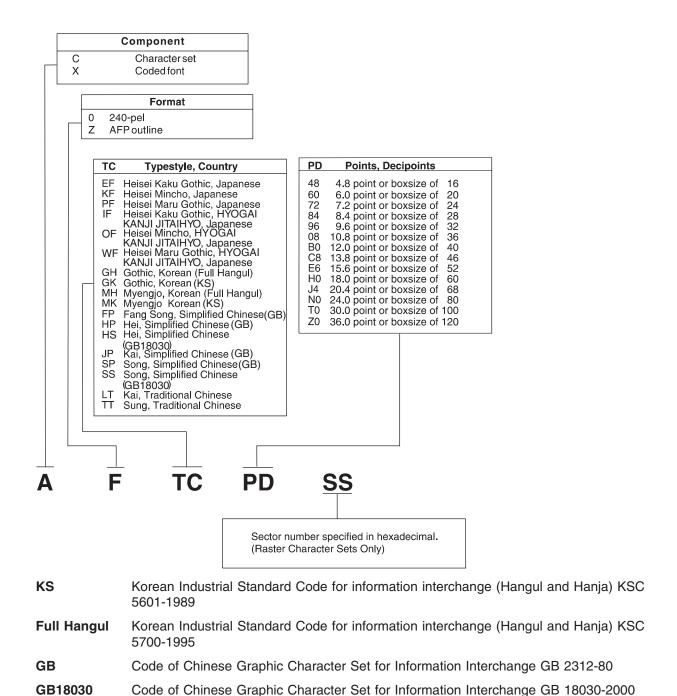


Figure 14. DBCS Core Full-Width Font naming convention overview

DBCS Core Half-Width Fonts

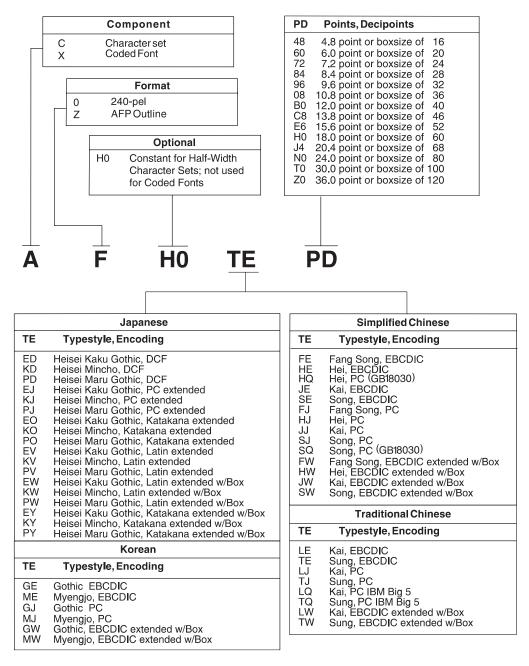


Figure 15. DBCS Core Half-Width Font naming convention overview

DBCS Simulation Fonts

Character set

Table 14. DBCS Simulation Font naming convention overview for character sets

cz	Character set	xxxx	Language and typeface
CZ	AFP outline character set	JHKG	Japanese Heisei Kaku Gothic
		JHMG	Japanese Heisei Maru Gothic
		JHMN	Japanese Heisei Mincho
		HKG2	Korean Gothic
		HSM2	Korean Myengjo
		SHEI	Simplified Chinese Hei
		SSNG	Simplified Chinese Song
		TSNG	Traditional Chinese Sung

Coded font

Table 15. DBCS Simulation Fonts naming convention overview for coded fonts. See Figure 16 on page 37 for detailed information.

XZ	Coded font	xxxx	
XZ	AFP outline coded font	т	Typestyle
		вх	Box Size
		E	Encoding

			se Full-Widt	:h			Korean Fu	
вх	Boxsize (<u> </u>				BX	Boxsize (
		Heisei					Gothic	Mincho
		Kaku	Round		Heisei	16	16x16	-
	Gothic	Gothic	Gothic	Mincho	Mincho	24	24x30	24x24
16	16x16	-	-	16x16	16x16	36	_	36x36
20	20x24	_	_	-	-	40	_	40x40
24	24x30	24x24	_	24x24	24x24	48	_	48x48
26	24700	26x26	_	26x26	26x26	64		64x64
1	20220		-			04	-	04804
32	32x32	32x32	-	32x32	32x32		Korean Ha	If_Width
36	36x36	36x36	36x36	36x36	36x36	DV		
40	40x40	40x40	40x40	40x40	40x40	ВХ	Boxsize (
44	-	44x44	-	44x44	44x44		Gothic	Mincho
48	48x48	48x48	48x48	48x48	48x48	08	8x16	-
52	-	52x52	-	52x52	52x52	12	12x30	12x24
64	64x64	64x64	64x64	64x64	64x64	18	-	18x36
• •	0 1.7.0 1	0 1.7.0 1	0 1.40 1	0 17.0 1	0	20	_	20x40
						24	_	24x48
		Japane	se Half-Widt	th		32	_	32x64
вх	Boxsize ((HxV)				7 02		OZXOT
	DOXOILO (Heisei				Simr	lified Chine	ese Full-Width
		Kaku	Round		Heisei			
	Gothic			N. C		ВХ	Boxsize (· · · · · · · · · · · · · · · · · · ·
40		Gothic	Gothic	Mincho	Mincho		Gothic	Song
12	12x30	12x24	-	12x24	12x24	16	16x16	-
13	-	13x26	-	13x26	13x26	26	_	26x26
16	16x32	16x32	-	16x32	16x32	32	_	32x32
18	18x36	18x36	18x36	18x36	18x36	40	_	40x40
20	20x40	20x40	20x40	20x40	20x40	70		40,440
22	-	22x44	-		22x44	Tue of	Alamal Ohim	a a a First M/Salata
24	24x48	24x48	24x48	24x48	24x48			ese Full-Width
	24840		24,40			ВХ	Boxsize (
26	-	26x52	-	26x52	26x52		Gothic	Ming
32	32x64	32x64	32x64	32x64	32x64	16	16x16	-
						24	_	24x24
						24 32	-	24x24 32x32
	ВХ	E				32	-	32x32
		Τ_				32 40	-	32x32
T	Japan	Τ_			Encor	32 40 Jap	-	32x32
	Japan pestyle	ese		E R	Encoo	32 40 Jap	- - panese	32x32
He	Japano pestyle isei Kaku Go	ese	l t h	В	Base	Jap ding Set (Sec	- - panese tion 41-55)	32x32 40x40
Hei Hei	Japan pestyle isei Kaku Go isei Kaku Go	ese	lth	B D	Base DCF S	Jap ding Set (Sec Set (Half-	- - panese tion 41-55)	32x32 40x40
Hei Hei Go	Japano pestyle isei Kaku Go isei Kaku Go thic	ese othic othic Half-Wic	lth	B D F	Base DCF S Full S	Jap ding Set (Sec Set (Half-	- - panese tion 41-55)	32x32 40x40
Hei Hei Go Go	Japand pestyle isei Kaku Go isei Kaku Go thic thic Half-Wid	ese othic othic Half-Wic	lth	B D F J	Base DCF S Full S PC Se	Jap Jaing Set (Sec Set (Half- et	- - panese tion 41-55)	32x32 40x40
Hei Hei Go Go Hei	Japano pestyle isei Kaku Go isei Kaku Go thic thic Half-Wid sei Mincho	ese othic thic Half-Wic	lth	B D F J N	Base DCF S Full S PC Se Katak	Jap Jap Jing Set (Sec Set (Half- et ana Set	- - panese tion 41-55) Width) / JIS	32x32 40x40
Hei Hei Go Go Hei Hei	Japano pestyle isei Kaku Go isei Kaku Go thic Half-Wid sei Mincho isei Mincho H	ese othic thic Half-Wic	lth	B D F J N	Base DCF S Full S PC Se Katak Exten	Jap Jap Jing Set (Sec Set (Half- et ana Set ded Kata	- panese tion 41-55) Width) / JIS	32x32 40x40
Hei Hei Go Go Hei Mir	Japane pestyle isei Kaku Go isei Kaku Go thic thic Half-Wid sei Mincho isei Mincho H	ese othic thic Half-Wic dth	lth	B D F J N O U	Base DCF S Full S PC Se Katak Exten US Er	Jap Jing Set (Sec Set (Half- et ana Set ded Kata nglish Se	- panese tion 41-55) Width) / JIS kana Set t	32x32 40x40
Hei Hei Go Go Hei Hei Mir	Japan pestyle isei Kaku Go isei Kaku Go thic thic Half-Wid sei Mincho I isei Mincho I ncho Half-Wid	ese othic thic Half-Wic dth	lth	B D F J N	Base DCF S Full S PC Se Katak Exten US Er Exten	Jap Jing Set (Sec Set (Half- et et ana Set ded Kata rglish Se ded Latir	- panese tion 41-55) Width) / JIS kana Set t	32x32 40x40
Hei Hei Go Go Hei Hei Mir Mir	Japano pestyle isei Kaku Go isei Kaku Go thic thic Half-Wid sei Mincho isei Mincho I ncho ncho Half-Wid und Gothic	ese thic thic Half-Wic th Half-Width dth	lth	B D F J N O U	Base DCF S Full S PC Se Katak Exten US Er Exten	Jap Jing Set (Sec Set (Half- et et ana Set ded Kata rglish Se ded Latir	- panese tion 41-55) Width) / JIS kana Set t	32x32 40x40
Hei Hei Go Go Hei Hei Mir Mir	Japan pestyle isei Kaku Go isei Kaku Go thic thic Half-Wid sei Mincho I isei Mincho I ncho Half-Wid	ese thic thic Half-Wic th Half-Width dth	lth	B F J N O U V	Base DCF S Full S PC Se Katak Exten US Er Exten	Jap ding Set (Sec Set (Halfet ana Set ded Katanglish Sed ded Latirision Set	canese tion 41-55) Width) / JIS kana Set t n Set (Section 56-	32x32 40x40
Hei Hei Go Go Hei Hei Mir Roi Roi	Japano pestyle isei Kaku Go isei Kaku Go thic thic Half-Wid sei Mincho isei Mincho I ncho ncho Half-Wid und Gothic	ese Ithic Ithic Half-Wic Ith Half-Width Half-Width Half-Width	lth	B D F J N O U V X	Base DCF S Full S PC Se Katak Exten US Er Exten	Jap ding Set (Sec Set (Halfet ana Set ded Katanglish Set ded Latirsion Set	- panese tion 41-55) Width) / JIS kana Set t	32x32 40x40
Hei Hei Go Go Hei Mir Mir Ro Ro Mir	Japano pestyle isei Kaku Go ithic thic Half-Wid sei Mincho isei Mincho H ncho ncho Half-Wid und Gothic und Gothic	ese Ithic Ithic Half-Wic Ith Half-Width Half-Width Half-Width	lth	B D F J N O U V X	Base DCF S Full S PC S Katak Exten US Er Exten Exten	Jap Jap Jap Set (Sec Set (Half-et ana Set ded Katan Set ded Latirsion Set Kdling	canese tion 41-55) Width) / JIS kana Set t n Set (Section 56-	32x32 40x40
Hei Hei Go Go Hei Mir Mir Ro Ro Mir	Japano pestyle isei Kaku Go ithic Half-Wid sei Mincho isei Mincho H ncho Half-Wid und Gothic und Gothic H ncho Half-Wid	ese Ithic Ithic Half-Wick Ith Half-Width dth Half-Width dth	lth	B D F J N O U V X E K	Base DCF S Full S PC Se Katak Exten US Er Exten Exten Exten	Jap Jap Jing Set (Sec Set (Half-et ana Set ded Kata glish Se ded Latir sion Set Ki	canese tion 41-55) Width) / JIS kana Set t t o Set (Section 56-orean	32x32 40x40
Hei Hei Go Go Hei Mir Mir Ro Ro Mir	Japano pestyle isei Kaku Go isei Kaku Go ithic thic Half-Wid sei Mincho isei Mincho I ncho Half-Wid und Gothic und Gothic I ncho Half-Wid ncho Half-Wid ncho Korea	ese Ithic Ithic Half-Wick Ith Half-Width dth Half-Width dth	lth	B D F J N O U V X E K K	Base DCF S Full S PC Se Katak Exten US Er Exten Exten Exten Encoc	Jap Jap Jing Set (Sec Set (Half-et ana Set ded Kata rglish Se ded Latir sion Set Kr Jing et IC Set (H		32x32 40x40
Hei Hei Go Go Hei Mir Mir Ro Mir Mir	Japane pestyle isei Kaku Go isei Kaku Go isei Kali Go thic Half-Wid isei Mincho I isei Mincho I isei Morcho isei Mincho I isei Korei isei Korei isei Kali Gottic isei Mincho isei Minch	ese Ithic Ithic Half-Wick Ith Half-Width dth Half-Width dth	lth	B D F J N O U V X E K	Base DCF S Full S PC Se Katak Exten US Er Exten Exten Exten Encoc	Jap Jap Jing Set (Sec Set (Half-et ana Set ded Kata rglish Se ded Latir sion Set Kr Jing et IC Set (H		32x32 40x40
Hei Hei Go Go He: Hei Mir Ro Ro Mir Mir	Japane pestyle isei Kaku Go isei Kaku Go thic thic Half-Wid sei Mincho isei Mincho I isei Mincho I iseho Half-Wid und Gothic und Gothic I icho Half-Wie incho Koree pestyle	ese thic thic Half-Wice th Half-Width dth Half-Width dth dth an	lth	B D F J N O U V X E K K	Base DCF S Full S PC Se Katak Exten US Er Exten Exten Exten Encoc	Jap Jap Jing Set (Sec Set (Half-et ana Set ded Kata glish Se ded Latir sion Set Ki ding et IIC Set (Half-et)	banese tion 41-55) Width) / JIS kana Set t t s Set (Section 56- orean Half-Width) angul Set (Se	32x32 40x40 90 (Full-Width) 68)
Hei Hei Go Go He: Hei Mir Ro Ro Mir Mir	Japane pestyle isei Kaku Go isei Kaku Go isei Kali Go thic Half-Wid isei Mincho I isei Mincho I isei Morcho isei Mincho I isei Korei isei Korei isei Kali Gottic isei Mincho isei Minch	ese thic thic Half-Wice th Half-Width dth Half-Width dth dth an	lth	B D F J X O U V X E K K L	Base DCF S Full S PC Se Katak Exten US Er Exten Exten Exten Specie	Jap Jing Set (Sec Set (Half-et et ded Kata glish Se ded Latirsion Set Kata glish Set (Half-et et ded Latirsion Set Kata glish Set Ged Latirsion Set Set (Half and Half Simplifit		32x32 40x40 90 (Full-Width) 68)
Hei Hei Go Go He: Hei Mir Ro Ro Mir Mir T y Go	Japane pestyle isei Kaku Go isei Kaku Go thic thic Half-Wid sei Mincho isei Mincho I isei Mincho I iseho Half-Wid und Gothic und Gothic I icho Half-Wie incho Koree pestyle	ese thic thic Half-Wice th Half-Width dth Half-Width dth dth an	lth	B D F J Z O U > X E K K L	Base DCF S Full S PC SS Katak Exten US Er Exten Exten Exten Specia	Jap Jing Set (Sec Set (Half- et et ana Set ded Kata glish Se ded Latir sion Set Ki Jing et IC Set (Hala and Ha Simplifi	canese tion 41-55) Width) / JIS width) / JIS kana Set t i Set (Section 56- corean Half-Width) angul Set (Se	32x32 40x40 90 (Full-Width) 68)
Hei Hei Go Go Hei Mir Mir Ro Mir Mir T y Go Mir	Japano pestyle isei Kaku Go thic thic Half-Wid sei Mincho isei Mincho I ncho ncho Half-Wid und Gothic und Gothic I ncho Half-Wid when Half-Wid thic Half-Wid thic Half-Wid thic Half-Wid	ese Ithic Ithic Half-Wick Ith Half-Width Ith Half-Width Ith Ith	lth	B D F J X O U V X E K K L	Base DCF S Full S PC SS Katak Exten US Er Exten Exten Exten Specia	Jap Jing Set (Sec Set (Half-et et ded Kata glish Se ded Latirsion Set Kata glish Set (Half-et et ded Latirsion Set Kata glish Set Ged Latirsion Set Set (Half and Half Simplifit	canese tion 41-55) Width) / JIS width) / JIS kana Set t i Set (Section 56- corean Half-Width) angul Set (Se	32x32 40x40 90 (Full-Width) 68)
Hei Hei Go Go Hei Mir Mir Ro Mir Mir T y Go Mir	Japano pestyle isei Kaku Go isei Kaku Go ithic Half-Wid sei Mincho I ncho Half-Wid und Gothic und Gothic I ncho Half-Wid ncho Half-Wid ncho Half-Wid ncho Half-Wid ncho Half-Wid ncho Half-Wid	ese whice whice Half-Wice the Half-Width dth Half-Width dth the Half-Width dth dth	lth	B D F J Z O U > X E K K L	Base DCF S Full S PC Se Katak Exten US Er Exten Exten Exten Encor Full S EBCD Specia	Jap Jap Jap Set (Sec Set (Half-et et ana Set ded Kata nglish Se ded Latir sion Set IC Set (Half-et et and Half-et Simplifi ding Host (GB	banese tion 41-55) Width) / JIS kana Set t n Set (Section 56- brean Half-Width) angul Set (Si ed Chinese	32x32 40x40 90 (Full-Width) 68)
Hei Hei Go Go Hei Mir Mir Ro Mir Mir T y Go Go Mir	Japano pestyle isei Kaku Go isei Kaku Go ithic Half-Wid sei Mincho isei Mincho I ncho Half-Wid und Gothic und Gothic und Gothic I ncho Half-Wid ncho Kore pestyle thic Half-Wid ncho icho Half-Wid	ese whice whice Half-Wice the Half-Width dth Half-Width dth the Half-Width dth dth	lth	B D F J N O U V X E K K L E P	Base DCF S Full S PC Se Katak Exten US Er Exten Exten Exten Encor Full S EBCD Specia	Jap Jap Jing Set (Sec Set (Half-et et ana Set ded Kata glish Se ded Latir sion Set IC Set (Fal and Ha Simplifi Jing Host (GB Tradition	canese tion 41-55) Width) / JIS width) / JIS kana Set t i Set (Section 56- corean Half-Width) angul Set (Se	32x32 40x40 90 (Full-Width) 68)
Hei Hei Go Go Hei Mir Mir Roo Mir Mir T y Go Go Mir	Japane pestyle isei Kaku Go isei Kaku Go ithic Half-Wid sei Mincho isei Mincho I isei Mincho isei	ese whice whice Half-Wice the Half-Width dth Half-Width dth the Half-Width dth dth	lth	B D F J X O U > X E K K L E P	Base DCF S Full S PC Se Katak Exten US Er Exten Exten Exten Encoc Full S EBCD Specia	Jap Jing Set (Sec Set (Half- et et ded Kata glish Se ded Latir sion Set K ding et IC Set (Half- et and Ha Simplifi ding Host (GB	banese tion 41-55) Width) / JIS kana Set t n Set (Section 56- brean Half-Width) angul Set (Si ed Chinese	32x32 40x40 90 (Full-Width) 68)
Hei Hei Go Go Hei Mir Mir Roo Mir Mir T y Go Go Mir Mir	Japane pestyle isei Kaku Go isei Kaku Go isei Mincho isei Mincho isei Mincho I icho Half-Wie und Gothic und Gothic I icho Half-Wie icho Kore pestyle thic thic Half-Wie icho Simplified pestyle thic	ese whice whice Half-Wice the Half-Width dth Half-Width dth the Half-Width dth dth	lth	B D F J N O U V X E K K L E P	Base DCF S Full S PC Se Katak Exten US Er Exten Exten Exten Encoc Full S EBCD Specia	Jap Jap Jing Set (Sec Set (Half-et et ana Set ded Kata glish Se ded Latir sion Set IC Set (Fal and Ha Simplifi Jing Host (GB Tradition	banese tion 41-55) Width) / JIS kana Set t n Set (Section 56- brean Half-Width) angul Set (Si ed Chinese	32x32 40x40 90 (Full-Width) 68)
Hei Hei Go Go Hei Mir Mir Roo Mir Mir T y Go Go Mir	Japane pestyle isei Kaku Go isei Kaku Go thic Half-Wid sei Mincho isei Mincho I ncho ncho Half-Wid und Gothic I ncho Half-Wid ncho Kore pestyle thic Half-Wid ncho Simplified pestyle thic	ese thic thic Half-Wick th Half-Width dth Half-Width dth an th dth Chinese	lth	B D F J X O U > X E K K L E P	Base DCF S Full S PC Se Katak Exten US Er Exten Exten Exten Encoc Full S EBCD Specia	Jap Jing Set (Sec Set (Half- et et ded Kata glish Se ded Latir sion Set K ding et IC Set (Half- et and Ha Simplifi ding Host (GB	banese tion 41-55) Width) / JIS kana Set t n Set (Section 56- brean Half-Width) angul Set (Si ed Chinese	32x32 40x40 90 (Full-Width) 68)
Hei Hei Go Go Hei Mir Ro Ro Mir T y Go Go Mir Mir	Japano pestyle isei Kaku Go isei Kaku Go ithic Half-Wid sei Mincho isei Mincho isei Mincho I ncho incho Half-Wid und Gothic I incho Half-Wid incho Korei pestyle thic Simplified pestyle thic ig Traditional	ese thic thic Half-Wick th Half-Width dth Half-Width dth an th dth Chinese	lth	B D F J X O U > X E K K L E P	Base DCF S Full S PC Se Katak Exten US Er Exten Exten Exten Encoc Full S EBCD Specia	Jap Jing Set (Sec Set (Half- et et ded Kata glish Se ded Latir sion Set K ding et IC Set (Half- et and Ha Simplifi ding Host (GB	banese tion 41-55) Width) / JIS kana Set t n Set (Section 56- brean Half-Width) angul Set (Si ed Chinese	32x32 40x40 90 (Full-Width) 68)
Hei Hei Go Go Hei Mir Ro Ro Mir T y Go Go Mir Mir	Japane pestyle isei Kaku Go isei Kaku Go thic Half-Wid sei Mincho isei Mincho I ncho ncho Half-Wid und Gothic I ncho Half-Wid ncho Kore pestyle thic Half-Wid ncho Simplified pestyle thic	ese thic thic Half-Wick th Half-Width dth Half-Width dth an th dth Chinese	lth	B D F J X O U > X E K K L E P	Base DCF S Full S PC Se Katak Exten US Er Exten Exten Exten Encoc Full S EBCD Specia	Jap Jing Set (Sec Set (Half- et et ded Kata glish Se ded Latir sion Set K ding et IC Set (Half- et and Ha Simplifi ding Host (GB	banese tion 41-55) Width) / JIS kana Set t n Set (Section 56- brean Half-Width) angul Set (Si ed Chinese	32x32 40x40 90 (Full-Width) 68)
Hei Hei Go Go Hei Mir Ro Ro Mir Mir T y Go Go Mir T y	Japano pestyle isei Kaku Go isei Kaku Go ithic Half-Wid sei Mincho isei Mincho isei Mincho I ncho incho Half-Wid und Gothic I incho Half-Wid incho Korei pestyle thic Simplified pestyle thic ng Traditional	ese thic thic Half-Wick th Half-Width dth Half-Width dth an th dth Chinese	lth	B D F J X O U > X E K K L E P	Base DCF S Full S PC Se Katak Exten US Er Exten Exten Exten Encoc Full S EBCD Specia	Jap Jing Set (Sec Set (Half- et et ded Kata glish Se ded Latir sion Set K ding et IC Set (Half- et and Ha Simplifi ding Host (GB	banese tion 41-55) Width) / JIS kana Set t n Set (Section 56- brean Half-Width) angul Set (Si ed Chinese	32x32 40x40 90 (Full-Width) 68)

Figure 16. Simulation Font naming convention

IBM code page naming conventions

The name of an IBM code page makes it possible to recognize it as a code page. The resource names of all AFP code pages begin with **T1**.

Single-byte code pages

The name of a single-byte code page used with single-byte character sets makes it possible to identify its code page number or name. For more information on fonts, visit the **Printing Systems Font Database** that you can access through the **Printing Systems Information Center** at:

http://publib.boulder.ibm.com/printer/psindex.htm

From the pull-down list under Select Navigation View, select Fonts.

The last 6 characters of the code page name are used to identify the code page. In all cases where the first two characters are **00**, **V1**, or **B0**, the following 4 characters are the Code Page Global Identifier, a number registered by IBM to uniquely identify each code page. All future code pages provided by IBM will be named in this manner.

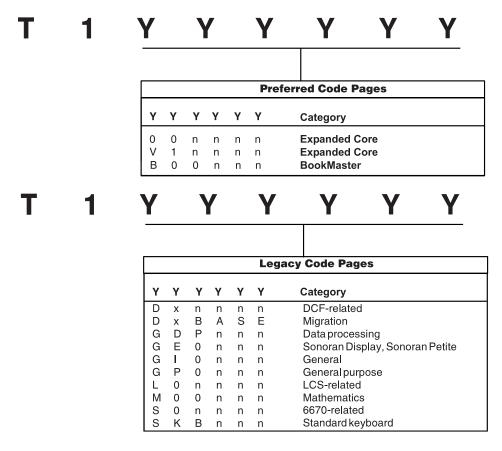


Figure 17. Code page name and category or version level

DBCS code pages using half-width characters

You can recognize a new single-byte code page used with double-byte character sets because the third and fourth characters of its name are H0. Some older code pages follow a different naming convention.

Table 16. DBCS code pages using half-width characters naming convention overview

T1	Always T1	Н0	Always H0	XXXX	Code page global identifier	
			Exception: Japanese CPGID:0037,00290 and Simplified Chinese CPGID:1114 take HK.		(CPGID)	

DBCS code pages using full-width characters

The names of double-byte code pages supplied for use with IBM CJK fonts follow a new convention, so you may see some older double-byte code pages with different names.

You can recognize a double-byte code page used with an outline font because its name is only 6 characters long instead of the usual 8.

Table 17. DBCS code pages using full-width characters naming convention overview

T1	Always T1	xxxx	Code page global identifier (CPGID)	ss ss	Section number Code page used with a
			Exceptions:		raster font
			 Korean Full Hangul code page is K834 for CPGID:0834. 	blank	Code page used with an outline font
			 Simplified Chinese GB18030 code page is K837 for CPGID:0837. 		
			 Japanese HYOGAI KANJI JITAIHYO code page is K300 for CPGID:0300. 		
			 Japanese IBM JIKEI code page is I300 for CPGID:0300. 		
			 Japanese JIS90 JIKEI code page is J300 for CPGID:0300. 		

Chapter 6. WorldType font naming conventions

The WorldType file naming convention uses the format of *TTTTLLSB* with the definitions listed in Table 18 and Table 19.

Table 18. WorldType font naming: TTTT identifies the typeface name

TTTT	Typeface name
mts_	Monotype Sans [™] WT
mtsd	Monotype Sans Duospace [™] WT
thrd	Thorndale Duospace [™] WT
tnr_	Times New Roman® WT

Table 19. WorldType font naming: LLSB identifies the localization, subset and the presents of embedded bitmaps

LLSB	Typeface name appendage	Description	Bitmaps
j	J	Japanese	No
jb	J	Japanese	Yes
j_e_	J EA	Japanese—East Asia	No
j_eb	J EA	Japanese—East Asia	Yes
k	K	Korean	No
kb	K	Korean	Yes
k_e_	K EA	Korean—East Asia	No
k_eb	K EA	Korean—East Asia	Yes
m	ME	Middle East	No
s	SC	Simplified Chinese	No
sb	SC	Simplified Chinese	Yes
s_e_	SC EA	Simplified Chinese—East Asia	No
s_eb	SC EA	Simplified Chinese—East Asia	Yes
sxb_	Ext B	Simplified Chinese—Extension B	No
t	TC	Traditional Chinese	No
tb	TC	Traditional Chinese	Yes
t_e_	TC EA	Traditional Chinese—East Asia	No
t_eb	TC EA	Traditional Chinese—East Asia	Yes
W		Windows Glyph List 4	No

Chapter 7. Font summary tables

The Expanded Core Fonts, DBCS Core Fonts, and DBCS Simulation Fonts summary tables provide the following information:

AFP typeface name

This is the IBM name for the typeface.

Type 1 typeface name

This is the Type 1 outline font name for the typeface. It is used in the Typefaces window of SBCS Type Transformer.

Style and weight

Possible values are:

RB Roman Bold
RM Roman Medium
IM Italic Medium
IB Italic Bold

Character set identifier

A 6- or 8-character name used to identify AFP character sets. The second character identifies the character set as raster or outline.

Type 1 file name

Extensions are AFM, INF, and PFB.

CID-keyed file name

Extensions are CID and CMP.

Graphic Character Set Global Identifier (GCSGID)

The GCSGID is a collection of characters registered with a unique number and sometimes used for font and code page selection.

Font Global Identifier (FGID)

The FGID is a number assigned to each typeface and is sometimes used for font selection.

The WorldType Fonts summary table provides the following information:

Full Font Name

The combination of the Font Family name and the Font Subfamily name

Style & Weight

RM Roman Medium

Filename

The font file name; extensions are TTF or OTF

Localization

The view preference of the glyph shapes

Glyph List

The set of glyphs contained in the font

Bitmaps

Font contains embedded bitmaps for better quality at screen resolutions.

Note: Not all information applies to all font groups.

Expanded Core Fonts

This section describes the Expanded Core Fonts available for use with IBM Print Services Facility (PSF) licensed programs. These fonts contain various typefaces and font sizes (include typographic and uniformly spaced typeface families) suitable for printing a variety of documents. They are provided in the following formats:

Table 20. Format and operating systems for Expanded Core Fonts

Format	Operating systems		
AFP outline fonts	z/OS, OS/400, AIX, Windows		
Type 1 outline fonts	AIX, Windows		

Table 21. Expanded Core Fonts

		Style	Character	Time 4 file		
AFP typeface name	Type 1 typeface name	and weight	set identifier	Type 1 file name	GCSGID	FGID
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		APL			
Courier APL2	Courier APL2	RM	CZ420P	APL	1364	307
	" Bold	RB	CZ440P	APLB		322
		Α	rabic			
Boutros Typing Arabic	Typing	RM	CZ4204	COU_A	1506	416
	" Bold	RB	CZ4404	COU_AB		420
	" Italic" Bold Italic	IM IB	CZ4304 CZ4504	COU_AI COU_ABI		424 428
ITC Boutros Modern	Rokaa	RM	CZH204	HEL A	1506	2304
Rokaa Arabic	" Bold	RB	CZH404	HEL_AB		2305
	" Italic	IM	CZH304	HEL_AI		2306
	" Bold Italic	IB	CZH504	HEL_ABI		2307
ITC Boutros Setting	Setting	RM	CZN204	TNR_A	1506	2308
Arabic	" Bold	RB	CZN404	TNR_AB		2309
	" Italic	IM	CZN304	TNR_AI		2310
	" Bold Italic	IB	CZN504	TNR_ABI		2311
			ter Specials			
BookMaster Specials	BookMaster Specials	RM	CZB20C	EDFBS	1241	335
	" Bold " Italic	RB	CZB40C	EDFBSB		336
	" Bold Italic	IM IB	CZB30C CZB50C	EDFBSI EDFBSBI		337 338
BookMaster Specials	BookMaster Specials	RM	CZB60C	EDFBSR	1241	339
Reverse	Reverse	LIM	CZDOOC	EDIDON	1241	339
		C	yrillic			
Courier Cyrillic Greek	Courier Cyr Grk	RM	CZ4203	COU_CG	1504	416
	" Bold	RB	CZ4403	COU_CGB		420
	" Italic	IM	CZ4303	COU_CGI		424
	" Bold Italic	IB	CZ4503	COU_CGBI		428
Helvetica Cyrillic Greek	Helvetica Cyr Grk	RM	CZH203	HEL_CG	1504	2304
	" Bold	RB	CZH403	HEL_CGB		2305
	" Italic" Bold Italic	IM IB	CZH303 CZH503	HEL_CGI HEL_CGBI		2306 2307
Times New Roman	Times New Roman Cyr (CZN203	TNR_CG	1504	2308
Cyrillic Greek	" Bold	RB	CZN403	TNR_CGB	100-	2309
,	" Italic	IM	CZN303	TNR_CGI		2310
	" Bld It	IB	CZN503	TNR_CGBI		2311
		G	reek			
Courier Cyrillic Greek	Courier Cyr Grk	RM	CZ4203	COU_CG	1504	416
	" Bold	RB	CZ4403	COU_CGB		420
	" Italic	IM	CZ4303	COU_CGI		424
	" Bold Italic	IB	CZ4503	COU_CGBI		428

Table 21. Expanded Core Fonts (continued)

		Style and	Character set	Type 1 file		
AFP typeface name	Type 1 typeface name	weight	identifier	name	GCSGID	FGID
Helvetica Cyrillic Greek	Helvetica Cyr Grk	RM	CZH203	HEL_CG	1504	2304
rionolioa Cyrillo Greek	" Bold	RB	CZH403	HEL_CGB	1001	2309
	" Italic	IM	CZH303	HEL_CGI		2306
	" Bold Italic	IB	CZH503	HEL_CGBI		2307
Times New Roman	Times New Roman Cyr Grk	RM	CZN203	TNR_CG	1504	2308
Cyrillic Greek	" Bold	RB	CZN403	TNR_CGB		2309
,	" Italic	IM	CZN303	TNR_CGI		2310
	" Bld It	IB	CZN503	TNR_CGBI		2311
		Hel	brew			
Shalom Hebrew	Shalom Hebrew	RM	CZ4205	COU_H	1362	416
	" Bold	RB	CZ4405	COU_HB		420
	" Italic	IM	CZ4305	COU_HI		424
	" Bold Italic	IB	CZ4505	COU_HBI		428
Narkiss Tam Hebrew	Narkiss Tam Hebrew	RM	CZH205	HEL_H	1362	2304
	" Bold	RB	CZH405	HEL_HB		2305
	" Italic	IM	CZH305	HEL_HI		2306
	" Bold Italic	IB	CZH505	HEL_HBI		2307
Narkissim Hebrew	Narkissim Hebrew	RM	CZN205	TNR_H	1362	2308
	" Bold	RB	CZN405	TNR_HB		2309
	" Italic	IM	CZN305	TNR_HI		2310
	" Bold Italic	IB	CZN505	TNR_HBI		2311
		IBM	Logo			
IBM Logo	IBM Logo	RM	CZIBM0	LOGOIBM	2040	51767
		Kata	akana			
Gothic Katakana	Gothic Katakana	RM	CZ6208	GOT_K	1306	304
		L	.ao			
Courier Lao	Courier Lao	RM	CZ4209	COU_L	1341	416
200	" Bold	RB	CZ4409	COU_LB		420
	" Italic	IM	CZ4309	COU_LI		424
	" Bold Italic	IB	CZ4509	COU_LBI		428
Pusuwan	Pusuwan	RM	CZH209	HEL_L	1341	2304
	" Bold	RB	CZH409	HEL_LB		2305
	" Italic	IM	CZH309	HEL_LI		2306
	" Bold Italic	IB	CZH509	HEL_LBI		2307
Kaewfah	Kaewfah	RM	CZN209	TNR L	1341	2308
	" Bold	RB	CZN409	TNR_LB		2309
	" Italic	IM	CZN309	TNR LI		2310
	" Bold Italic	IB	CZN509	TNR_LBI		2311
		La	atin			
Courier Latin	Courier	RM	CZ420L	COU	1503	416
	" Bold	RB	CZ440L	COUB		420
	" Italic	IM	CZ430L	COUI		424
	" Bold Italic	IB	CZ450L	COUBI		428
Helvetica Latin	Helvetica	RM	CZH20L	HEL	1503	2304
	" Bold	RB	CZH40L	HELB		2305
	" Italic	IM	CZH30L	HELI		2306
	" Bold Italic	IB	CZH50L	HELBI		2307
Times New Roman	Times New Roman	RM	CZN20L	TNR	1503	2308
Latin	" Bold	RB	CZN40L	TNRB	-	2309
	" Italic	IM	CZN30L	TNRI		2310
	" Bold Italic	IB	CZN50L	TNRBI		2311

Table 21. Expanded Core Fonts (continued)

AFP typeface name			Style	Character	Type 1 file		
Solidace Latin1	AFP typeface name	Type 1 typeface name	and weight	set identifier	Type 1 file	GCSGID	FGID
Boldface Latin1	Air typerace name	Type I typelace hame			name	GOGGID	I GIL
BookMaster Latin1	Poldfood Latin1	Poldfood			DEC	2041	2022
Bold							
Bold Halic Bi CZB500 EDFBLB 33 33 33 33 34 34 34 3	BookMaster Latin1					2041	
BookMaster Latin1							
BookMaster Latin1							
Reverse	PoolsMoster Letin1					2041	
Bold	Reverse	Bookwaster Reverse	HIVI	CZB600	EUFBLK	2041	
Italic IM CZ4300 COUI 42.	Courier Latin1					2041	416
Bold Italic B							420
Southic Text Latin1							
Helvetica Latin1							
Bold RB CZH400 HELB 230	Gothic Text Latin1	Gothic Text	RM	CZ6200	GOT	2041	304
"Italic Bold Italic B CZH500 HELB 230 230 241 400 230 241 400 400 241 400	Helvetica Latin1	Helvetica	RM	CZH200	HEL	2041	2304
Bold Italic							2305
Letter Gothic Latin1							2306
Prestige RM CZ7200 PRS 2041 433 433 433 434 43		" Bold Italic	IB	CZH500	HELBI		2307
Bold	Letter Gothic Latin1					2041	400 404
Bold	Prestine Latin1	Prestine	RM	C77200	PRS	2041	432
Italic	1 103tige Latil11					2041	318
### Bold RB CZN400 TNRB 2300 2310							319
### Bold RB CZN400 TNRB 2300 2310	Times New Roman	Times New Roman	RM	CZN200	TNR	2041	2308
"Italic						2041	2309
Bold Italic IB CZN500 TNRBI 231							2310
Courier Latin235		" Bold Italic	IB	CZN500	TNRBI		2311
Bold			Latin2, La	tin3, Latin5			
Italic	Courier Latin235					1261	416
Bold Italic B							420
Helvetica Latin235							424
Bold		Bold Italic	IB	CZ4502	COORI		428
Italic	Helvetica Latin235					1261	2304
Bold Italic IB CZH502 HELBI 2300							2305
Times New Roman							2306
Bold RB			IB	CZH502	HELBI		2307
Italic	Times New Roman					1261	2308
Bold Italic IB CZN502 TNRBI 2311	Latin235						2309
Courier Latin4							
Courier Latin4		Bold Italic			INKBI		2311
Bold							
Italic	Courier Latin4					1268	416
Bold Italic IB CZ4507 COUBI 428 Helvetica Latin4 Helvetica RM CZH207 HEL 1268 2304 Bold RB CZH407 HELB 2304 Italic IM CZH307 HELI 2304 Bold Italic IB CZH507 HELBI 2304 Times New Roman Times New Roman RM CZN207 TNR 1268 2304 Latin4 Bold RB CZN407 TNRB 2304 Italic IM CZN307 TNRI 2314 Bold Italic IB CZN507 TNRB 2314 CZN507 TN							420
Helvetica Latin4							424
Bold							
Italic	Helvetica Latin4					1268	2304
" Bold Italic IB CZH507 HELBI 230 Times New Roman Times New Roman RM CZN207 TNR 1268 230 Latin4 " Bold RB CZN407 TNRB 230 " Italic IM CZN307 TNRI 231 " Bold Italic IB CZN507 TNRBI 231 Optical Character Recognition (OCR)							
Times New Roman Times New Roman RM CZN207 TNR 1268 2308 Latin4 " Bold RB CZN407 TNRB 2308 " Italic IM CZN307 TNRI 2319 " Bold Italic IB CZN507 TNRBI 2319 Optical Character Recognition (OCR)							
atin4	Times New Devices					1000	
" Italic IM CZN307 TNRI 2310 " Bold Italic IB CZN507 TNRBI 2310 Optical Character Recognition (OCR)						1268	
" Bold Italic IB CZN507 TNRBI 231 Optical Character Recognition (OCR)	Latii14						
Optical Character Recognition (OCR)							
<u> </u>							2011
OUTA NIVI CZ9ZUA OUT_A 900 3U	OCRA	·			` '	069	205
	OUNA	JUN A	UIVI	UZ9ZUA	OUN_A	900	305

Table 21. Expanded Core Fonts (continued)

		Style and	Character set	Type 1 file		
AFP typeface name	Type 1 typeface name	weight	identifier	name	GCSGID	FGID
OCRB	OCRBMT	RM	CZ920B	OCR_B	1502	306
		Syn	nbols			
Courier Symbols	Courier Symbols	RM	CZ4201	COU_S	1275	416
	" Bold	RB	CZ4401	COU_SB		420
Helvetica Symbols	Helvetica Symbols	RM	CZH201	HEL_S	1275	2304
	" Bold	RB	CZH401	HEL_SB		2305
Times New Roman	Times New Roman Symbols	RM	CZN201	TNR_S	1275	2308
Symbols	" Bold	RB	CZN401	TNR_SB		2309
		Т	hai			
Courier Thai	Courier Thai	RM	CZ4206	COU_T	1505	416
	" Bold	RB	CZ4406	COU_TB		420
	" Italic	IM	CZ4306	COU_TI		424
	" Bold Italic	IB	CZ4506	COU_TBI		428
Thonburi	Thonburi	RM	CZH206	HEL_T	1505	2304
	" Bold	RB	CZH406	HEL_TB		2305
	" Italic	IM	CZH306	HEL_TI		2306
	" Bold Italic	IB	CZH506	HEL_TBI		2307
Burirum	Burirum	RM	CZN206	TNR_T	1505	2308
	" Bold	RB	CZN406	TNR_TB		2309
	" Italic	IM	CZN306	TNR_TI		2310
	" Bold Italic	IB	CZN506	TNR_TBI		2311

DBCS Core Fonts

This section describes the DBCS Core Fonts available for use with IBM Print Services Facility (PSF) licensed programs. These fonts contain various typefaces suitable for printing a variety of Chinese, Japanese, and Korean documents. They are provided with the Outline Fonts and Programs feature as PostScript CID-keyed fonts. These CID-keyed fonts can be used with example jobs provided with Infoprint Font Utilities to create the fonts listed in Table 23 on page 49. The fonts can then be stored on the z/OS operating system. The CID-keyed fonts can be used directly by the AIX and Windows environments.

Type Transformer and the CID fonts are all part of the Type Transformer and Utilities for Windows CD-ROM shipped with IBM Inforpint Fonts for Multiplatforms (program number 5648-E77). AFP Fonts are all part of the DBCS Fonts feature of IBM Infoprint Fonts for z/OS (program number 5648-E76).

DBCS Core Fonts are provided in the following formats:

Table 22. Format and operating systems for DBCS Core Fonts

Format	Operating systems
AFP outline fonts	z/OS, OS/400, AIX, Windows
CID-keyed fonts	AIX, Windows

The following list shows the values to be used in Table 23 on page 49:

- 4.8 point size/box size of 16
- 6.0 point size/box size of 20
- 7.2 point size/box size of 24
- 8.4 point size/box size of 28
- 9.6 point size/box size of 32
- 10.8 point size/box size of 36
- 12.0 point size/box size of 40
- 13.8 point size/box size of 46
- 15.6 point size/box size of 52
- 18.0 point size/box size of 60
- 24.0 point size/box size of 80
- 30.0 point size/box size of 100
- 36.0 point size/box size of 120

Substitute the box size value from this list for the lowercase **pd** (point deci–point) used in the coded font and character set names in Table 23 on page 49. For example, if you want a point size of 12.0, substitute 40 for the lowercase pd.

Table 23. DBCS Core Fonts for Japanese

AFP/CID typeface	CID file							
name	name	Weight	Width	Coded font	Character set	Code page	GCSCID	FGID
				Japanese Heise	ei Kaku Gothic			
Heisei Kaku	IBJHKGW5	Medium	Full	XZEFpd	CZJHKG	T10300	2093	53249
Gothic			Half	XZEDpd	CZJHKG	T1H01002	1132	
			Half	XZEJpd	CZJHKG	T1H01041	1187	
			Half	XZEOpd	CZJHKG	T1H00290	1398	
			Half	XZEVpd	CZJHKG	T1H01027	1398	
			Half	XZEWpd	CZJHKG	T1H01031	1363	
			Half	XZEYpd	CZJHKG	T1H01030	1363	
		Japa	nese Heis	ei Kaku Gothio	c (HYOGAI KANJ	I JITAIHYO)		
Heisei Kaku Gothic	IBJHKGW5	Medium	Full	XZIFpd	CZJHKG	T1K300	2093	53249
				Japanese Heise	ei Maru Gothic			
Heisei Maru	IBJHMGW4	Semi-	Full	XZPFpd	CZJHMG	T10300	2093	53250
Gothic		Light	Half	XZPDpd	CZJHMG	T1H01002	1132	
			Half	XZPJpd	CZJHMG	T1H01041	1187	
			Half	XZPOpd	CZJHMG	T1H00290	1398	
			Half	XZPVpd	CZJHMG	T1H01027	1398	
			Half	XZPWpd	CZJHMG	T1H01031	1363	
			Half	XZPYpd	CZJHMG	T1H01030	1363	
		Japa	nese Heis	ei Maru Gothio	(HYOGAI KANJ	I JITAIHYO)		
Heisei Maru	IBJHKGW4	Semi-	Full	XZWFpd	CZJHMG	T1K300	2093	53250
Gothic		Light						
				Japanese He	eisei Mincho			
Heisei Mincho	IBJHMNW3	Light	Full	XZKFpd	CZJHMN	T10300	2093	53248
			Half	XZKDpd	CZJHMN	T1H01002	1132	
			Half	XZKJpd	CZJHMN	T1H01041	1187	
			Half	XZKOpd	CZJHMN	T1H00290	1398	
			Half	XZKVpd	CZJHMN	T1H01027	1398	
			Half	XZKWpd	CZJHMN	T1H01031	1363	
			Half	XZKYpd	CZJHMN	T1H01030	1363	
		Ja	panese H	eisei Mincho (I	HYOGAI KANJI J	ITAIHYO)		
Heisei Mincho	IBJHMNW3	Light	Full	XZOFpd	CZJHMN	T1K300	2093	53248

Table 24. DBCS Core Fonts for Korean

AFP/CID typeface name	CID file name	Weight	Width	Coded font	Character set	Code page	GCSCID	FGID
				Korean	Gothic			
Gothic	IBHKG2W5	Medium	Full	XZGKpd	CZHKG2	T10834	1010	53816
			Full	XZGHpd	CZHKG2	T1K834	1098	
			Half	XZGEpd	CZHKG2	T1H00833	1173	
			Half	XZGJpd	CZHKG2	T1H01126	1267	
			Half	XZGWpd	CZHKG2	T1H01150	1365	
				Korean I	Myengjo			
Myengjo	IBHSM2W5	Medium	Full	XZMKpd	CZHSM2	T10834	1010	53560
, 0,			Full	XZMHpd	CZHSM2	T1K834	1098	
			Half	XZMEpd	CZHSM2	T1H00833	1173	
			Half	XZMJpd	CZHSM2	T1H01126	1267	
			Half	XZMWpd	CZHSM2	T1H01150	1365	

Table 25. DBCS Core Fonts for Simplified Chinese

			Sir	nplified Chines	se - GB Fang S	ong		
Fang Song	IBSFSGW4	Semi-	Full	XZFPpd	CZSFSG	T10837	1020	54566
		Light	Half	XZFEpd	CZSFSG	T1H00836	1174	
			Half	XZFJpd	CZSFSG	T1H01115	1240	
			Half	XZFWpd	CZSFSG	T1H01151	1366	
			Si	implified Chine	ese - GB18030 I	Hei		
Hei	ILSHEIW6	Semi-	Full	XZHPpd	CZSHEI	T10837	1020	54565
		Bold	Full	XZHSpd	CZSHEI	T1K837	2103	
			Half	XZHEpd	CZSHEI	T1H00836	1174	
			Half	XZHJpd	CZSHEI	T1H01115	1240	
			Half	XZHQpd	CZSHEI	T1H01252	0103	
			Half	XZHWpd	CZSHEI	T1H01151	1366	
				Simplified Ch	inese - GB Kai			
Kai	IBSKAIW5	Medium	Full	XZJPpd	CZSKAI	T10837	1020	54568
			Half	XZJEpd	CZSKAI	T1H00836	1174	
			Half	XZJJpd	CZSKAI	T1H01115	1240	
			Half	XZJWpd	CZSKAI	T1H01151	1366	
			Sir	mplified Chines	se - GB18030 S	ong		
Song	ILSSNGW5	Medium	Full	XZSPpd	CZSSNG	T10837	1020	54567
			Full	XZSSpd	CZSSNG	T1K837	2103	
			Half	XZSEpd	CZSSNG	T1H00836	1174	
			Half	XZSJpd	CZSSNG	T1H01115	1240	
			Half	XZSQpd	CZSSNG	T1H01252	0103	
			Half	XZSWpd	CZSSNG	T1H01151	1366	

Table 26. DBCS Core Fonts for Traditional Chinese

AFP/CID typeface	CID file							
name	name	Weight	Width	Coded font	Character set	Code page	GCSCID	FGID
				Traditional (Chinese Kai			
Kai	IBTKAIW5	Medium	Full	XZLTpd	CZTKAI	T10835	2074	54568
			Half	XZLEpd	CZTKAI	T1H00037	1175	
			Half	XZLJpd	CZTKAI	T1H01043	1189	
			Half	XZLQpd	CZTKAI	T1H01114	1500	
			Half	XZLVpd	CZTKAI	T1H01159	1399	
			Half	XZLWpd	CZTKAI	T1H01152	1367	
				Traditional C	hinese Sung			
Sung	IBTSNGW3	Light	Full	XZTTpd	CZTSNG	T10835	2074	54563
			Half	XZTEpd	CZTSNG	T1H00037	1175	
			Half	XZTJpd	CZTSNG	T1H01043	1189	
			Half	XZTQpd	CZTSNG	T1H01114	1500	
			Half	XZTVpd	CZTSNG	T1H01159	1399	
			Half	XZTWpd	CZTSNG	T1H01152	1367	

DBCS Simulation Fonts

This section describes the DBCS Simulation Fonts available for use with IBM Print Services Facility (PSF) licensed programs. The DBCS Simulation Fonts are provided in AFP Outline Font Format that simulates the raster font products shown in Table 11 on page 11.

DBCS Simulation Fonts are provided in the following formats:

Table 27. Format and operating systems for DBCS Simulation Fonts

Format	Operating systems
AFP outline fonts	z/OS, OS/400, AIX, Windows
CID-keyed fonts	AIX, Windows

See Table 28 on page 52 for the summary of the DBCS simulation fonts.

Table 28. DBCS Simulation Fonts

CID file name	Weight	Width	Coded font	Character set	Code page	GCSGID	FGID	Box Size 240 pel (HxV)
				ال	Japanese Gothic		simulated by Heisei Kaku Gothic	
IBJHKGW5	Medium		XZGbxB XZGbxF	CZJHKG	T11300 T11300	2093 2093	53249	16x16 20x24 24x30 32x32 36x36 40x40 48x48 64x64 16x16 20x24 24x30 32x32 36x36 40x40 48x48 64x64
		Full Half Half	XZGbxX XZHbxD XZHbxJ		T1I300 T1H01002 T1H01041	2093 1132 1187		48x48 64x64 12x30 16x32 18x36 20x40 24x48 32x64 12x30 16x32 18x36 20x40 24x48 32x64
		Hart Hart	XZHbxN XZHbxU XZHbxU		T1HK0290 T1H00290 T1HK0037	332 1398 101		16x32 18x36 20x40 24x48 16x32 18x36 20x40 24x48 16x32 18x36 20x40 24x48
		<u> </u>	VZ1 10 V V	Japar	nese Gothic (JI	IS90) simulated	Japanese Gothic (JIS90) simulated by Heisei Kaku Gothic	hic
IBJHKGW5	Medium	Full	XZGbxD	CZJHKG	T1J300	2093	53249	16x16 20x24 24x30 32x32 36x36 40x40 48x48 64x64
				Japanes	se Heisei Kaku	Gothic simulate	Japanese Heisei Kaku Gothic simulated by Heisei Kaku Gothic	iothic
IBJHKGW5	Medium	Full Half Half Half Half Half Half	XZEbxB XZEbxF XZFbxD XZFbxJ XZFbxN XZFbxN XZFbxU XZFbxU XZFbxU	СZJНКG	T10300 T10300 T1H01002 T1H01041 T1HK0290 T1HK0037 T1HK0037	2093 2093 1132 1187 332 1398 101 1398	53249	24x24 26x26 32x32 36x36 40x40 44x44 48x48 52x52 64x64 24x24 26x26 32x32 36x36 40x40 44x44 48x48 52x52 64x64 12x24 13x26 16x32 18x36 20x40 22x44 24x48 26x52 32x64 12x24 13x26 16x32 18x36 20x40 22x44 24x48 26x52 32x64 12x24 13x26 16x32 18x36 20x40 22x44 24x48 26x52 32x64 12x24 13x26 16x32 18x36 20x40 22x44 24x48 26x52 32x64 12x24 13x26 16x32 18x36 20x40 22x44 24x48 26x52 32x64 12x24 13x26 16x32 18x36 20x40 22x44 24x48 26x52 32x64 12x24 13x26 16x32 18x36 20x40 22x44 24x48 26x52 32x64 12x24 13x26 16x32 18x36 20x40 22x44 24x48 26x52 32x64
				Јараг	Japanese Round Go	othic simulated	Gothic simulated by Heisei Maru Gothic	nic
IBJHMGW4	Semi- light	Full Full Half Half Half Half	XZRbxB XZRbxX XZRbxX XZSbxD XZSbxJ XZSbxN XZSbxN XZSbxV XZSbxV XZSbxV	СZJНМG	T11300 T11300 T11300 T1H01002 T1H01041 T1H00290 T1HK0037	2093 2093 2093 1132 1187 332 1398 101	53250	36x36 40x40 48x48 64x64 36x36 40x40 48x48 64x64 48x48 64x64 18x36 20x40 24x48 32x64 18x36 20x40 24x48 32x64
				Japanese	Japanese Round Gothic (JIS90)	c (JIS90) simula	simulated by Heisei Maru Gothic	Gothic
IBJHMGW4	Semi- Light	Fu	XZRbxD	CZJHMG	T1J300	2093	53250	36x36 40x40 48x48 64x64
					Japanese Min	cho simulated k	Japanese Mincho simulated by Heisei Mincho	

B-HWAWN3 Light Full XZAXbe T11800 2889 552-84 16x16 544-24 26x56 50x50 24x44 44x44 44x44 64x46 56x26 56x26 56x56 40x40 44x44 44x44 64x46 56x26 56x26 56x56 40x40 44x44 44x44 64x46 56x26 56x	CID file name	Weight	Width	Coded font	Character set	Code page	GCSGID	FGID	Box Size 240 pel (HxV)
Fill X2Dhe Fil	IBJHMNW3	Light	Full	XZMbxB	CZJHMN	T11300	2093	53248	24x24 26x26 32x32 36x36 40x40 44x44 48x48 52x52
Full XZZDNE Full XZZDN			5 E	XZMbxX		T11300	2093		32773 30730 40740 44744 40740 32732 48x48
Half XZNbac			Full	XZZbxB		T11300	2093		24X24
Heli XZNbxD			Full	XZZbxF		T11300	2093		
Haif XZNbxA			Half	XZNbxD		T1H01002	1132		13x26 16x32 18x36 20x40 24x48 26x52
Haif XZNbxN			Half	CXQNZX		T1H01041	1187		13x26 16x32 18x36 20x40 24x48 26x52
Haif XZNbxX			Half	NXQNZX		T1HK0290	332		13x26 16x32 18x36 20x40 24x48 26x52
Half XZNWX			Halt	OxqNZX		T1H00290	1398		13x26 16x32 18x36 20x40 24x48 26x52
Half X2Nbx			Half	OxgNZX		T1HK0037	101		13x26 16x32 18x36 20x40 24x48 26x52
Half XZTNbad			Hall	VXGNZX		11H010Z/	1398		13XZ6 16X3Z 18X36 Z0X40 Z4X48 Z6X5Z
Half XZYDM			Hall	XZYbxU		11H01002	1132		12X24
Haif X2YbxV			Hall	CXGYZX		T1H01041	118/		12X24
Half X2YbxV			Hall Lall	XZYBXN VZVbxO		11HK0290	332		12X24
Helf XZYBXD THR0020 THR0020			<u> </u>	72/byd		T11100230	0.00		12721
Light Full XZMbxD CZJHMN TiJ300 2093 53248 16x16 24x24 26x26 32x32 36x36 40x40 44x44 48x48 52x32 58x32 36x38 40x40 44x44 48x48 52x32 48x42 26x32 36x38 40x40 44x44 48x48 52x32 48x42 26x32 36x38 40x40 44x44 48x48 52x32 48x42 26x32 36x38 40x40 44x44 48x48 52x32 48x32 26x32 36x38 40x40 44x44 48x48 26x32 48x32 26x32 36x38 40x40 44x44 48x48 26x32 48x32 26x32 36x38 40x40 44x44 26x32 48x32 26x32 36x38 40x40 44x44 26x32 48x32 26x32 36x38 40x40 44x44 26x32 48x32 26x32 36x38 20x40 22x44 24x48 26x32 48x32 26x32 36x32			Ha <u>l</u> Ha	XZYbxV		T1H01027	1398		12X24
Light Full XZMbxD CZJIHMN T1J300 2093 53248 16x16 24x24 26x26 32x32 36x36 40x40 44x44 48x48 52x52 20x12 20					rel.	Janese Minch	Slumis (08SII.)	ted by Heise	
Full XZDMXD TJ300 2093 53248 T6X16 24X24 26X26 35X32 36X36 40X40 44X44 46X48 52X32 SX252 36X36 40X40 44X44 46X48 56X32 SX252 36X36 40X40 44X44 46X48 56X32 SX252 36X36 22X44 24X48 26X32 SX252 36X			:				(2222)	6 50	
Full XZZXXD Japanese Heisel Mincho simulated by Myengjo	IBJHMINW3	Light	≣ :	UXQIMIZX	CZJHMN	113300	2093	53248	24XZ4 Z6XZ6 3ZX3Z 36X36 40X40 44X44 48X48 5ZX5Z
Light Full XZKbxB CZJHMN T10300 2093 55248 16x16 24x24 26x26 32x32 36x36 40x40 44x44 48x48 52x52 2 10x1 XZKbxB CZJHMN T10300 2093 55248 16x16 24x24 26x26 32x32 36x36 40x40 44x44 48x48 52x52 2 10x1 XZKbxF T10401002 T1040102 T1040102 T10401002 T10401002 T10401002 T10401002			Full	XZZbxD		T1J300	2093		24x24
Light Full XZKbxB CZJHMN T10300 2093 53248 16x16 24x24 26x26 32x32 36x36 40x40 44x44 48x48 52x52 4x16 24x24 26x26 32x32 36x36 40x40 44x44 48x48 52x52 4x16 24x24 26x26 32x32 36x36 40x40 44x44 48x48 52x52 4x16 24x24 26x26 32x32 36x36 40x40 44x44 48x48 52x52 4x16 24x24 26x26 32x32 36x36 40x40 24x44 24x48 26x52 4x24 1x2bxJ 11401041 1142 1142 12x24 13x26 16x32 18x36 20x40 22x44 24x48 26x52 11401027 11401041041 11401041041 11401041041 11401041041 11401041041 11401041041041 11401041041041041 1140104104104104104104104104104104104104					Ja	panese Heisei	Mincho simula	ted by Heise	ii Mincho
Full XZKbxF T10300 2093 16x16 24x24 26x26 32x32 36x36 40x40 44x44 48x48 5x52 2 4x42 24x42 24x42 26x52 24x24 24x42 26x52 24x42 24x42 26x52 24x42 24x42 26x52 24x42 24x42 26x52 24x42 24x43 26x52 24x42 24	IBJHMNW3	Light	Full	XZKbxB	CZJHMN	T10300	2093	53248	24x24 26x26 32x32 36x36 40x40 44x44 48x48 52x52
Haif XZLbxD		,	Full	XZKbxF		T10300	2093		24x24 26x26 32x32 36x36 40x40 44x44 48x48 52x52
Half XZLbxJ			Half	XZLbxD		T1H01002	1132		13x26 16x32 18x36 20x40 22x44 24x48 26x52
Half XZLbxN			Half	XZLbxJ		T1H01041	1187		13x26 16x32 18x36 20x40 22x44 24x48 26x52
Half XZLbxO T1H00290 1398 12x24 13x26 16x32 18x36 20x40 22x44 24x48 26x52 Half XZLbxU T1HK0037 101 12x24 13x26 16x32 18x36 20x40 22x44 24x48 26x52 T1H01027 T1H01027 101 12x24 13x26 16x32 18x36 20x40 22x44 24x48 26x52 Medium Full XZCbxK CZHKG2 T10834 1010 53816 16x16 16x16 Full XZGbxL T1H00833 1173 1173 8x16 16x16 16x16 XZHbxK XZHbxK T1H00833 1173 XZHbx XZHbx<			Half	XZLbxN		T1HK0290	332		13x26 16x32 18x36 20x40 22x44 24x48 26x52
Half XZLbxU T1HK0037 101 12x24 13x26 16x32 18x36 20x40 22x44 24x48 26x52 Medium Full XZGbxK CZHKG2 T10834 1010 53816 16x16 Half XZGbxK CZHKG2 T10834 1010 53816 16x16 Half XZGbxK T1H00833 1173 8x16 8x16 Koream Mincho simulated by Myengjo Myengjo Myengjo Myengjo Myengjo			Half	XZLbxO		T1H00290	1398		13x26 16x32 18x36 20x40 22x44 24x48 26x52
Medium Full XZGbxK CZHKG2 T10834 1010 53816 16x3c 16			Half	XZLbxU		T1HK0037	101		13x26 16x32 18x36 20x40 22x44 24x48 26x52
Korean Gothic simulated by Gothic Medium Full XZGbxK CZHKG2 T10834 1010 53816 16x16 Full XZGbxL T10834 1010 53816 16x16 Half XZHbxK T1H00833 1173 8x16 Korean Mincho simulated by Myengjo Korean Mincho simulated by Myengjo Myengjo			<u> </u>	AZEDAV			080		12X24 13X20 10X32 10X30 20X40 22X44 24X40 20X32
Medium Full XZGbxK CZHKG2 T10834 1010 53816 16x16 <						Korean	Gothic simulate	ed by Gothic	
Korean Mincho simulated by Myengjo	IBHKG2W5	Medium		XZGbxK XZGbxL	CZHKG2	T10834 T10834	1010	53816	16x16 24x30 16x16 24x30 16x16 24x30
Korean Mincho simulated by Myengjo			<u></u>	VZI IDAN			2		00481
Korean Mincho simulated by Myengjo									
Korean Mincho simulated by Myengjo									
Korean Mincho simulated by Myengjo									
Korean Mincho simulated by Myengjo									
						Korean M	incho simulate	d by Myengj	0

Table 28. DBCS Simulation Fonts (continued)

CID file name Weight Width Coded font	Weight	Width	Coded font	Character set	Code page	GCSGID	FGID	Box Size 240 pel (HxV)
IBHSM2W5	Medium	Full Full Half	XZMbxK XZMbxL XZNbxK	CZHSM2	T10834 T10834 T1H00833	1010 1010 1173	53560	24x24 32x32 36x36 40x40 48x48 64x64 24x24 32x32 36x36 40x40 48x48 64x64 12x30 16x32 18x36 20x40 24x48 32x64
					Simplified C	hinese Gothic	Simplified Chinese Gothic simulated by Hei	
ILSHEIW6	Semi- bold	E E	Full XZGbxP	CZSHEI	T10837	1020	54565	16x16
					Simplified Cl	inese Song si	Simplified Chinese Song simulated by Song	
ILSSNGW5	Medium Full	Full	XZSbxP	CZSSNG	T10837	1020	54567	26x26 32x32 40x40
					Traditional Ch	inese Gothic s	Traditional Chinese Gothic simulated by Sung	
IBTSNGW3	Light	Full	Full XZGbxT	CZTSNG	T10835	2074	54563	16x16
					Traditional C	hinese Ming si	Traditional Chinese Ming simulated by Sung	
IBTSNGW3	Light	Full	XZMbxT	CZTSNG	T10835	2074	54563	24x24 32x32 40x40

WorldType Fonts

Table 29. WorldType Directory and file naming

Full Font Name	Style &	Filename	Localization	Glyph List	Bit- maps	
	Weight					
Monotype Sans WT						
Monotype Sans WT	RM	mts_wttf	n/a	WGL	No	
Monotype Sans WT J	RM	mts_jttf	Japanese	Complete	No	
Monotype Sans WT J	RM	mts_jb.ttf	Japanese	Complete	Yes	
Monotype Sans WT J EA	RM	mts_j_ettf	Japanese	East Asia	No	
Monotype Sans WT J EA	RM	mts_j_eb.ttf	Japanese	East Asia	Yes	
Monotype Sans WT K	RM	mts_kttf	Korean	Complete	No	
Monotype Sans WT K	RM	mts_kb.ttf	Korean	Complete	Yes	
Monotype Sans WT K EA	RM	mts_k_ettf	Korean	East Asia	No	
Monotype Sans WT K EA	RM	mts_k_eb.ttf	Korean	East Asia	Yes	
Monotype Sans WT ME	RM	mts_mttf	n/a	Middle East	No	
Monotype Sans WT SC	RM	mts_sttf	Simplified Chinese	Complete	No	
Monotype Sans WT SC	RM	mts_s_b.ttf	Simplified Chinese	Complete	Yes	
Monotype Sans WT SC EA	RM	mts_s_ettf	Simplified Chinese	East Asia	No	
Monotype Sans WT SC EA	RM	mts_s_eb.ttf	Simplified Chinese	East Asia	Yes	
Monotype Sans WT TC	RM	mts_tttf	Traditional Chinese	Complete	No	
Monotype Sans WT TC	RM	mts_tb.ttf	Traditional Chinese	Complete	Yes	
Monotype Sans WT TC EA	RM	mts_t_ettf	Traditional Chinese	East Asia	No	
Monotype Sans WT TC EA	RM	mts_t_eb.ttf	Traditional Chinese	East Asia	Yes	
Monotype Sans Duospace WT						
Monotype Sans Duospace WT	RM	mtsdwttf	n/a	WGL	No	
Monotype Sans Duospace WT J	RM	mtsdjttf	Japanese	Complete	No	
Monotype Sans Duospace WT J	RM	mtsdjb.ttf	Japanese	Complete	Yes	
Monotype Sans Duospace WT J EA	RM	mtsdj_ettf	Japanese	East Asia	No	
Monotype Sans Duospace WT J EA	RM	mtsdj_eb.ttf	Japanese	East Asia	Yes	
Monotype Sans Duospace WT K	RM	mtsdkttf	Korean	Complete	No	
Monotype Sans Duospace WT K	RM	mtsdkb.ttf	Korean	Complete	Yes	
Monotype Sans Duospace WT K EA	RM	mtsdk_ettf	Korean	East Asia	No	
Monotype Sans Duospace WT K EA	RM	mtsdk_eb.ttf	Korean	East Asia	Yes	
Monotype Sans Duospace WT ME	RM	mtsdmttf	n/a	Middle East	No	
Monotype Sans Duospace WT SC	RM	mtsdsttf	Simplified Chinese	Complete	No	
Monotype Sans Duospace WT SC	RM	mtsds_b.ttf	Simplified Chinese	Complete	Yes	
Monotype Sans Duospace WT SC EA	RM	mtsds_ettf	Simplified Chinese	East Asia	No	
Monotype Sans Duospace WT SC EA	RM	mtsds_eb.ttf	Simplified Chinese	East Asia	Yes	
Monotype Sans Duospace WT EXT B	RM	mtsdsxbttf	Simplified Chinese	Extension B	No	
Monotype Sans Duospace WT TC	RM	mtsdtttf	Traditional Chinese	Complete	No	
Monotype Sans Duospace WT TC	RM	mtsdtb.ttf	Traditional Chinese	Complete	Yes	

Table 29. WorldType Directory and file naming (continued)

Full Font Name	Style &	Filename	Localization	Glyph List	Bit- maps
	Weight				
Monotype Sans Duospace WT TC EA	RM	mtsdt_ettf	Traditional Chinese	East Asia	No
Monotype Sans Duospace WT TC EA	RM	mtsdt_eb.ttf	Traditional Chinese	East Asia	Yes
Th	orndale I	Duospace WT			
Thorndale Duospace WT	RM	thrdwttf	n/a	WGL	No
Thorndale Duospace WT J	RM	thrdjttf	Japanese	Complete	No
Thorndale Duospace WT J	RM	thrdjb.ttf	Japanese	Complete	Yes
Thorndale Duospace WT J EA	RM	thrdj_ettf	Japanese	East Asia	No
Thorndale Duospace WT J EA	RM	thrdj_eb.ttf	Japanese	East Asia	Yes
Thorndale Duospace WT K	RM	thrdkttf	Korean	Complete	No
Thorndale Duospace WT K	RM	thrdkb.ttf	Korean	Complete	Yes
Thorndale Duospace WT K EA	RM	thrdk_ettf	Korean	East Asia	No
Thorndale Duospace WT K EA	RM	thrdk_eb.ttf	Korean	East Asia	Yes
Thorndale Duospace WT ME	RM	thrdmttf	n/a	Middle East	No
Thorndale Duospace WT SC	RM	thrdsttf	Simplified Chinese	Complete	No
Thorndale Duospace WT SC	RM	thrds_b.ttf	Simplified Chinese	Complete	Yes
Thorndale Duospace WT SC EA	RM	thrds_ettf	Simplified Chinese	East Asia	No
Thorndale Duospace WT SC EA	RM	trhds_eb.ttf	Simplified Chinese	East Asia	Yes
Thorndale Duospace WT TC	RM	thrdtttf	Traditional Chinese	Complete	No
Thorndale Duospace WT TC	RM	thrdt_b.ttf	Traditional Chinese	Complete	Yes
Thorndale Duospace WT TC EA	RM	thrdt_ettf	Traditional Chinese	East Asia	No
Thorndale Duospace WT TC EA	RM	thrdt_eb.ttf	Traditional Chinese	East Asia	Yes
Times New Roman WT					
Times New Roman WT	RM	tnr_wttf	n/a	WGL	No
Times New Roman WT J	RM	tnr_jttf	Japanese	Complete	No
Times New Roman WT J	RM	tnr_jb.ttf	Japanese	Complete	Yes
Times New Roman WT J EA	RM	tnr_j_ettf	Japanese	East Asia	No
Times New Roman WT J EA	RM	tnr_j_eb.ttf	Japanese	East Asia	Yes
Times New Roman WT K	RM	tnr_kttf	Korean	Complete	No
Times New Roman WT K	RM	tnr_kb.ttf	Korean	Complete	Yes
Times New Roman WT K EA	RM	tnr_k_ettf	Korean	East Asia	No
Times New Roman WT K EA	RM	tnr_k_eb.ttf	Korean	East Asia	Yes
Times New Roman WT ME	RM	tnr_mttf	n/a	Middle East	No
Times New Roman WT SC		tnr_sttf	Simplified Chinese	Complete	No
Times New Roman WT SC		tnr_sb.ttf	Simplified Chinese	Complete	Yes
Times New Roman WT SC EA	RM	tnr_s_ettf	Simplified Chinese	East Asia	No
Times New Roman WT SC EA	RM	tnr_s_eb.ttf	Simplified Chinese	East Asia	Yes
Times New Roman WT TC	RM	tnr_tttf	Traditional Chinese	Complete	No
Times New Roman WT TC	RM	tnr_t_b.ttf	Traditional Chinese	Complete	Yes

Table 29. WorldType Directory and file naming (continued)

Full Font Name	Style & Weight	Filename	Localization	Glyph List	Bit- maps
Times New Roman WT TC EA	RM	tnr_t_ettf	Traditional Chinese	East Asia	No
Times New Roman WT TC EA	RM	tnr_t_eb.ttf	Traditional Chinese	East Asia	Yes

Chapter 8. Code pages

Table 30 lists, in code page ID sequence, all the code pages included with Infoprint Fonts.

To see a grid for each code page, visit the **Printing Systems Font Finder** that you can access through the **Printing Systems Information Center**.

Table 30. Code pages shipped with Infoprint Fonts

Code page ID	Description
T1000259	Symbols, Set 7
T1000290	Gothic Katakana, Katakana 10, Katakana 12
T1000293	APL (USA)
T10300	Japanese DBCS—Host: JISX0213-2000 character shape
T1000310	APL Graphic Escape
T1000361	Publishing: International #5
T1000363	Symbols, Set 8
T1000382	Publishing: Austria, Germany, Switzerland
T1000383	Publishing: Belgium
T1000384	Publishing: Brazil
T1000385	Publishing: Canada (French)
T1000386	Publishing: Denmark, Norway
T1000387	Publishing: Finland, Sweden
T1000388	Publishing: France, Switzerland
T1000389	Publishing: Italy, Switzerland
T1000390	Publishing: Japan (Latin)
T1000391	Publishing: Portugal
T1000392	Publishing: Spain, Philippines
T1000393	Publishing: Latin America (Spanish)
T1000394	Publishing: United Kingdom, Australia, Hong Kong, Ireland, New Zealand
T1000395	Publishing: United States, Canada (English)
T1000420	Arabic Bilingual
T1000423	Greece 183
T1000424	Hebrew
T1000437	Personal Computer: ASCII
T1000803	Hebrew Character Set A
T1000813	ISO/ANSI 8-Bit Greek
T1000819	ISO/ANSI 8-Bit Latin1
T1000829	Math Symbols
T10834	Korean Host DBCS KS
T10835	Traditional Chinese Host DBCS
T10837	Simplified Chinese Host DBCS GB

Table 30. Code pages shipped with Infoprint Fonts (continued)

Code page ID	Description
T1000808	Personal Computer: Cyrillic, Russian with euro
T1000836	People's Republic of China
T1000838	Thailand
T1000848	Personal Computer: Cyrillic, Ukraine with euro
T1000849	Personal Computer: Cyrillic, Belo Russian with euro
T1000850	Personal Computer: Multilingual
T1000851	Personal Computer: Greece
T1000852	Personal Computer: Latin2
T1000853	Personal Computer: Latin3
T1000855	Personal Computer: Cyrillic
T1000856	Personal Computer: Hebrew
T1000857	Personal Computer: Latin5
T1000858	Personal Computer – Multilingual with euro
T1000860	Personal Computer: Portugal
T1000861	Personal Computer: Iceland
T1000862	Personal Computer: Hebrew (ASCII)
T1000863	Personal Computer: France, Canada (French)
T1000864	Personal Computer: Arabic
T1000865	Personal Computer: Nordic—Denmark, Norway
T1000866	Personal Computer: Cyrillic #2
T1000867	Israel – Personal Computer
T1000869	Personal Computer: Greece
T1000870	Personal Computer: Latin2 Multilingual
T1000872	Cyrillic Personal Computer with euro
T1000874	Personal Computer: Thailand
T1000875	Greece
T1000876	OCR-A ASCII
T1000877	OCR-B ASCII
T1000848	Personal Computer: Cyrillic, Ukraine with euro
T1000849	Personal Computer: Cyrillic, Belo Russian with euro
T1000880	Cyrillic Multilingual
T1000889	Thailand
T1000892	OCR-A
T1000893	OCR-B
T1000897	Katakana Personal Computer
T1000899	ASCII Symbol Set 7
T1000901	Personal Computer Baltic Multilingual with euro
T1000902	8-bit Estonia wih eurotin)
T1000903	People's Republic of China (Latin)
T1000904	Taiwan (Latin)

Table 30. Code pages shipped with Infoprint Fonts (continued)

Code page ID	Description
T1000905	Latin3 Multilingual
T1000910	APL ASCII
T1000912	Latin2 ISO/ANSI 8-Bit
T1000913	Latin3 ISO/ASCII
T1000914	Latin4 ISO/ANSI
T1000915	Cyrillic ISO/ANSI 8-Bit
T1000916	Hebrew ISO/ANSI 8-Bit
T1000920	Latin5 ISO/ANSI 8-Bit
T1000921	Personal Computer Baltic Multilingual
T1000922	Estonia Personal Computer
T1000923	Latin9
T1000924	Latin9 EBCDIC
T1001002	DCF
T1001003	United States Text Subset
T1001004	Personal Computer: Desktop Publishing
T1001008	Arabic ISO/ASCII 8-Bit
T1001025	Cyrillic Multilingual
T1001026	Latin5
T1001027	Katakana
T1001028	Hebrew Publishing
T1001029	Arabic ISO/ASCII 8-Bit
T1001038	ASCII Symbols Abode
T1001039	GML List Symbols
T1001041	Katakana Personal Computer
T1001042	Simplified Chinese Extended
T1001043	Traditional Chinese Extended
T1001046	Arabic Extended ISO/ASCII 8-Bit
T1001068	Text with numeric spacing
T1001069	Latin4
T1001087	Symbols Abode
T1001091	Symbols, Set 7 Modified
T1001092	ASCII Symbols, Set 7 Modified
T1001093	IBM Logo
T1001110	Latin2 Multilingual
T1001111	Latin3 Multilingual
T1001112	Baltic - Multilingual EBCDIC
T1001122	Estonia EBCDIC
T1001123	Cyrillic, Ukraine EBCDIC
T1001124	Cyrillic, Ukraine ISO-8
T1001125	Personal Computer: Cyrillic, Ukraine

Table 30. Code pages shipped with Infoprint Fonts (continued)

Code page ID	Description
T1001129	Vietnamese ISO-8
T1001130	Vietnamese EBCDIC
T1001131	Personal Computer: Cyrillic, Belo Russian
T1001132	Lao EBCDIC
T1001133	Lao ISO-8
T1001139	Japan Alphanumeric Katakana
T1001140	USA, Canada ECECP
T1001141	Austria, Germany ECECP
T1001142	Denmark, Norway ECECP
T1001143	Finland, Sweden ECECP
T1001144	Italy ECECP
T1001145	Spain, Latin America ECECP
T1001146	UK ECECP
T1001147	France ECECP
T1001148	International ECECP
T1001149	Iceland ECECP
T1001153	Latin2 Multilingual with euro
T1001154	EBCDIC Cyrillic, Multilingual with euro
T1001155	EBCDIC Turkey with euro
T1001156	EBCDIC Baltic Multilingual with euro
T1001157	EBCDIC Estonia with euro
T1001158	EBCDIC Cyrillic, Ukraine with euro
T1001160	Thailand EBCDIC with euro
T1001161	Thailand Personal Computer with euro
T1001162	Windows Thailand
T1001163	Vietnamese ISO-8 with euro
T1001164	Vietnamese, EBCDIC with euro
T1001166	EBCDIC Cyrillic, Multilingual with euro
T1001250	Windows Latin2
T1001251	Windows Cyrillic
T1001252	Windows Latin1
T1001253	Windows Greek
T1001254	Windows Turkish
T1001257	Windows Baltic Rim
T1001258	Windows Vietnamese
T1B00037	BookMaster: United States, Canada
T1B00273	BookMaster: Austria, Germany, Switzerland
T1B00274	BookMaster: Belgium
T1B00275	BookMaster: Brazil
T1B00277	BookMaster: Denmark, Norway

Table 30. Code pages shipped with Infoprint Fonts (continued)

Code page ID	Description
	-
T1B00278	BookMaster: Finland, Sweden
T1B00280	BookMaster: Italy, Switzerland
T1V00281	BookMaster: Japan (Latin)
T1B00282	BookMaster: Portugal
T1B00284	BookMaster: Spain, Latin America
T1B00285	BookMaster: United Kingdom
T1B00297	BookMaster: France
T1B00382	BookMaster: Austria, Germany, Switzerland
T1B00383	BookMaster: Belgium
T1B00384	BookMaster: Brazil
T1B00385	BookMaster: Canada (French)
T1B00386	BookMaster: Denmark, Norway
T1B00387	BookMaster: Finland, Sweden
T1B00388	BookMaster: France, Switzerland
T1B00389	BookMaster: Italy, Switzerland
T1B00390	BookMaster: Japan (Latin)
T1B00391	BookMaster: Portugal
T1B00392	BookMaster: Spain, Philippines
T1B00393	BookMaster: Latin America (Spanish)
T1B00394	BookMaster: United Kingdom, Australia, China (Hong Kong S.A.R.), Ireland, New Zealand
T1B00395	BookMaster: United States, Canada (English)
T1B00500	BookMaster: International #5
T1B00871	BookMaster: Iceland
T1B00BGS	BookMaster: Specials
T1DABASE	Migration: Austria, Germany
T1DBBASE	Migration: Belgium, Luxemburg, Switzerland
T1DDBASE	Migration: Denmark, Iceland, Norway
T1DEBASE	Migration: Finland, Sweden
T1DFBASE	Migration: France
T1DIBASE	Migration: Italy
T1DNBASE	Migration: Netherlands, Portugal
T1DSBASE	Migration: Spain, Latin America
T1DUBASE	Migration: United Kingdom
T1D0BASE	Migration: DCF
T1D0GP12	DCF Gothic Tri-Pitch
T1E00420	Arabic Bilingual with euro
T1E00813	Greece - ISO 8859-7
T1E00852	Latin2 Multilingual Personal Computer with euro
T1E00857	Latin5 Turkey Personal Computer with euro
	1

Table 30. Code pages shipped with Infoprint Fonts (continued)

Code page ID	Description
T1E00864	Arabic Personal Computer with euro
T1E00869	Greece – Personal Computer
T1E00875	Greece – EBCDIC
T1E00877	OCR B Personal Computer with euro
T1E00893	OCR B with euro
T1E01008	Arabic ISO with euro
T1E01046	Arabic Extended ISO with euro
T1H00037	Traditional Chinese Host SBCS
T1H00290	Japanese Katakana Extended
T1H00833	Korean SBCS Host
T1H00836	Simplified Chinese Host
T1H01002	Japanese DCF Compatibility
T1H01027	Japanese Latin Extended
T1H01030	Japanese Katakana Extended with box
T1H01031	Japanese (Latin) Extended with box
T1H01041	Japanese Personal Computer Extended
T1H01043	Traditional Chinese Host SBCS
T1H01088	Korean SBCS Personal Computer
T1H01114	Traditional Chinese Personal Computer SBCS
T1H01115	Simplified Chinese Personal Computer, GB
T1H01126	Korean SBCS Personal Computer
T1H01150	Korean Latin with Box
T1H01151	Simplified Chinese Latin with Box
T1H01152	Traditional Chinese SBCS with box characters
T1H01159	Traditional Chinese SBCS with Euro
T1H01252	Simplified Chinese Personal Computer, GB18030
T1HK0037	Japanese Latin
T1HK0290	Japanese Katakana
T1HK1114	Simplified Chinese Personal Computer GBK
T1I300	Japanese DBCS—Host: Supports 751 unique IBM chatacter shapes
T1J300	Japanese DBCS—Host: Supports 751 unique IBM chatacter shapes with 14 of them changed according to JIS90
T1K300	Japanese DBCS—Host: HYOGAI KANJI JITAIHYO character shape
T1K834	Korean Host DBCS Full Hangul
T1K837	Simplified Chinese Host DBCS GB18030
T1L0DUMP	LCS Dump Character Set
T1L0FOLD	LCS Gothic Folded
T1L0OCRB	LCS Gothic and OCR B
T1L0OCR1	LCS OCR A
T1L0OCR2	LCS Gothic and OCR A

Table 30. Code pages shipped with Infoprint Fonts (continued)

Code page ID	Description
T1L0OCR3	LCS Gothic and OCR A
T1L0PCAN	LCS Gothic
T1L0PCHN	LCS Gothic
T1L00A11	LCS Gothic
T1L00FMT	LCS Format Characters
T1L00KN1	LCS Gothic, Katakana (KN1)
T1L00QNC	LCS Gothic
T1L000GN	LCS Gothic
T1L000RN	LCS Gothic
T1L000SN	LCS Text-1 and Text-2
T1L000XN	LCS Gothic
T1L038BA	LCS Gothic
T1L038TE	LCS Text-1 and Text-2
T1L000YN	LCS Gothic
T1L02773	LCS Gothic, Katakana (2773)
T1L02774	LCS Gothic, Katakana (2774)
T1S0AE10	APL (AE10)
T1S0S192	6670 Symbol Set
T1S0S193	6670 Symbol Set
T1S0S198	6670 Symbol Set
T1V10037	Country Extended: United States, Canada
T1V10273	Country Extended: Austria, Germany, Switzerland
T1V10274	Country Extended: Belgium
T1V10275	Country Extended: Brazil
T1V10277	Country Extended: Denmark, Norway
T1V10278	Country Extended: Finland, Sweden
T1V10280	Country Extended: Italy, Switzerland
T1V10281	Country Extended: Japan (Latin)
T1V10282	Country Extended: Portugal
T1V10284	Country Extended: Spain, Latin America
T1V10285	Country Extended: United Kingdom
T1V10290	Japan (Katakana)
T1V10297	Country Extended: France
T1V10500	Country Extended: International #5
T1V10871	Country Extended: Iceland

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