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 57.

First Edition (December 2002)

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. About IBM[®] Infoprint[®] Fonts

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)

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 1. 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 2

on page 2. Each of these three type families also contains a symbols collection of scientific, mathematical, and special-purpose characters in Roman Medium and Roman Bold typefaces.

Languages supported

The IBM Expanded Core Fonts include characters for the following language groups defined in ISO standard 8859:

- The Latin language group includes Latin1 through Latin5 and Vietnamese.
- 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.
- The Latin2 language group (ISO 8859-2) includes Albanian, Czech, English, German, Hungarian, Polish, Romanian, Serbocroatian, Slovak, and Slovenian.
- The Latin3 language group (ISO 8859-3) includes Afrikaans, Catalan, Dutch, English, Esperanto, French, German, Italian, Maltese, Spanish, and Turkish.
- The Latin4 language group (ISO 8859-4) includes Danish, English, Finnish, French, German, Greenlandic, Lap, Latvian, Lithuanian, Estonian, and Norwegian.
- The Latin/Cyrillic language group (ISO 8859-5) includes Bulgarian, Byelorussian, English, Macedonian, Russian, Serbocroatian, and Ukrainian.
- The Latin/Arabic language group (ISO 8859-6) includes Latin and Arabic scripts.
- The Latin/Greek language group (ISO 8859-7) includes Latin and Greek scripts.
- The Latin/Hebrew language group (ISO 8859-8) includes Latin and Hebrew scripts.
- The Latin5 language group (ISO 8859-9) includes Danish, Dutch, English, Finnish, French, Irish, Italian, Norwegian, Portuguese, Spanish, Swedish, and Turkish.
- The Latin/Lao language group provides support for the Lao language.
- The Latin/Thai language group provides support for the Thai language.

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

DBCS fonts

The DBCS fonts are derived from the Adobe CID-Keyed font and Type 1 technologies. The DBCS fonts are available in AFP outline format.

DBCS Fonts are provided in the following formats:

Table 2. 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:

- Japanese
 - AFP Japanese Font V2 (5771-AGB)
 - AFP Japanese Heisei Font (5648-104)
- Korean
 - AFP Korean Font (5771-AFW)
- Simplified Chinese
 - AFP Simplified Chinese Font (5771-AEK)
- Traditional Chinese
 - AFP Traditional Chinese Font (5771-AFZ)

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

The Type Transformer Utilities include the following:

- 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

About this release of Infoprint Fonts

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 letters
- 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 utilties

- 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.

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 2, "IBM font concepts" on page 11 explains some basic font concepts, explains the difference between pitch and point size, identifies the languages supported by the various fonts, and provides figures that explain the naming conventions for fonts and code pages.
- Chapter 3, "Font summary tables" on page 37 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
- Chapter 4, "Code pages" on page 49 contains a table that lists the code pages included with Infoprint Fonts.

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

- 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 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 technical references are available only as PDF files at http://www.printers.ibm.com/psc.nsf/support/manuals.

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 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.

Summary of releases

This publication reflects the following licensed program releases:

Table 3. 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

Table 3. Summary of font releases (continued)

Licensed program	Description	Release level
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
5648-E76	IBM Infoprint Fonts for z/OS (contains IBM Expanded Core Fonts)	1.1.0
5648-E77	IBM Infoprint Fonts for Multiplatforms (contains Expanded Core Fonts, as well as font utilities, including Type Transformer)	1.1.0

Chapter 2. IBM font concepts

This section introduces you to font terminology and how characters are represented in digitized type. The structure of IBM 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 IBM font structure, you must first understand some definitions about fonts. Figure 1 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.

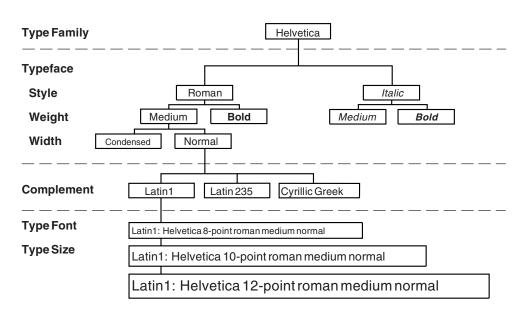


Figure 1. Helvetica type family

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 1)
- 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 1.

- *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 **bold**.
- *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.

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 2 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 2. 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.

Print	Character Rotation (in degrees)							
Direction	0	90	180	270				
Across (0)	ABCD	ABCD	ABDO	ABOD				
Down (90)	ABCD	B D	DCBA	A B C D				
Back (180)	ABCD	ABCD	DCBA	DOBA				
Up (270)	ABCD	D C B A	DCBA	D C B V				

Figure 3 shows how print direction and character rotation can be combined to print in many orientations.

Figure 3. Print direction and character rotation combinations (print orientations)

IBM font structure

- In IBM AFP terminology, a font has three components (Figure 4). They are:
- Coded font
- · Character set
- Code page

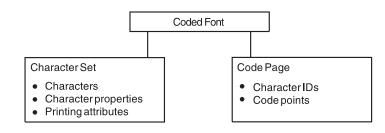


Figure 4. Font components

Coded font

In IBM 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

Character set

In IBM font structure, a *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 5).

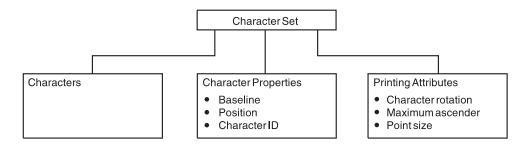


Figure 5. Composition of a character set

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

iviinus sign (–)	Character ID SAUUUUUU
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 16).

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 IBM font structure, a *code page* maps each character of text to the characters in a character set (Figure 6). 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 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.

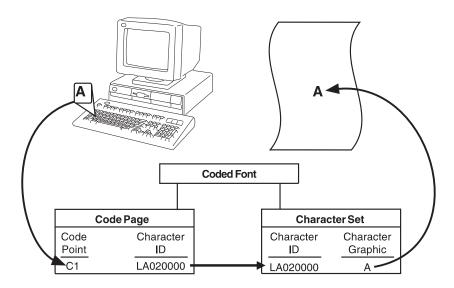


Figure 6. Translation of a keyboard character into a printed character

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 7 on page 16 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		Ø LO610000	Ø LO620000	0 SM190000	$\mu_{_{ m SM170000}}$	^ SD150000	{ SM110000	} SM140000	\ SM070000	0 ND100000
-1	SP300000	é LE110000	/ SP120000	É LE120000	a LA010000	j 1.J010000	~ SD190000	£ SC020000	A LA020000	J 1.J020000	÷ SA060000	1 ND010000
-2	â	ê	Â	Ê	b	k	S	¥	B	K	S	2
	LA150000	LA150000	LA160000	LE160000	LB010000	LK010000	LS010000	5C050000	LB020000	LK020000	LS020000	ND020000
-3	ä	ë	Ä	Ë	C]	t		C	L	T	3
	LA170000	LE170000	LA180000	LE180000	LC010000	LL010000	LT010000	SD630000	LC020000	LL020000	LT020000	ND030000
-4	à	è	À	È	d	m	u	©	D	M	U	4
	LA130000	LE130000	LA140000	LE140000	LD010000	LM010000	LU010000	SM520000	LD020000	LM020000	LU020000	ND040000
-5	á	Í	Á	Í	e	n	V	§	E	N	V	5
	LA110000	LI110000	LA120000	LI120000	LE010000	LN010000	LV010000	SM240000	LE020000	LN020000	LV020000	ND050000
-6	ã	î	Ã	Î	f	O	W	¶	F	O	W	6
	LA190000	LI150000	LA200000	LI160000	LF010000	LO010000	LW010000	SM250000	LF020000	LO020000	LW020000	ND060000

Figure 7. 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 19) 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 IBM 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.

Spacing characteristics of IBM fonts

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 increment¹ 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.

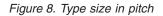
Typographic fonts

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.

Pitch Uniformly spaced fonts are often described or referred to in *pitch*, or the number of characters printed in 1 horizontal inch (Figure 8). Pitch is also referred to as characters per inch (CPI).

10-Pitch	Туре	Width
4 10-pitch _ 1.0 inch		



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

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

an 18-point font is less than 18 points (Figure 9). The line spacing usually includes one or more additional points of white space between lines of type.



Figure 9. 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 "IBM font naming conventions" on page 25 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 size is a vertical measurement.

This is 7 points. This is 8 points. This is 9 points. This is 9 points. This is 10 points. This is 12 points. This is 14 points. This is 16 points. This is 18 points. This is 20 points. This is 24 points. This is 30 points. This is 30 points. This is 36 points.

_{67 8 9 10} 11 12 14 16 18 20 24 **30 36**

Figure 10. 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 11. Pitch size examples

Box size examples

Box size is a 240-pel measurement.

Full-Width Half-Width	a b c d e ァィゥオッ12345ABCDEΖ アイウオツ abcdeァィゥオッ12345ABCDEZアイウオシ Box height of 48 or Point size of 14.4
Full-Width Half-Width	a b c d e アィゥォッ12345ABCDEΖ アイウオツ abcdeァイゥオッ12345ABCDEZアイウオシ Box height of 40 or Point size of 12.0
Full-Width Half-Width	a b c d e ァィゥォッ12345ABCDEΖ アイウオツ abcde7イウオツ12345ABCDEZ7イウオシ Box height of 32 or Point size of 9.6
Full-Width Half-Width	a b c d e アィウオッ12345ABCDEΖアイウオツ abcdeァイウオッ12345ABCDEZアイウオシ Box height of 24 or Point size of 7.2

Figure 12. Box size examples

How IBM supplies fonts

Three IBM font groups that can be used with advanced function printers are included in Infoprint Fonts:

- Expanded Core Fonts
- DBCS Core Fonts
- DBCS Simulation Fonts

Other fonts are available separately as licensed programs.

Expanded Core Fonts

The SBCS type families provided in the Infoprint Fonts are called the Expanded Core Fonts and include:

- Boldface Latin1 (with euro)
- · BookMaster Latin1 and Specials (with euro)
- Courier (with euro)
- Courier APL2
- Gothic Katakana
- Gothic Text Latin1 (with euro)
- Helvetica (with euro)
- IBM Logo (for BookMaster)
- Letter Gothic Latin1 (with euro)
- OCR-A
- OCR-B
- Prestige Latin1 (with euro)
- Times New Roman (with euro)

The Expanded Core Fonts are summarized in "Expanded Core Fonts" on page 38.

DBCS Core Fonts

DBCS type families and languages provided on the Infoprint Fonts: Type Transformer and Utilities for Windows CD-ROM include:

- Japanese
 - Heisei Kaku Gothic
 - Heisei Maru Gothic
 - Heisei Mincho
- Korean with Full Hangul Characters
 - Gothic
 - Myengjo
- Simplified Chinese
 - Fang Song (GB)
 - Hei (GB18030)
 - Kai (GB)
 - Song (GB18030)
- Traditional Chinese
 - Kai
 - Sung

DBCS Simulation Fonts

DBCS Simulation Fonts include the following font families:

- Japanese
 - Heisei Kaku Gothic
 - Heisei Maru Gothic
 - Heisei Mincho
- Korean
 - Gothic
 - Myengjo
- Simplified Chinese
 - Hei
 - Song
- Traditional Chinese
 - Sung

The IBM DBCS Simulation Fonts are summarized in "DBCS Simulation Fonts" on page 45.

Distribution

The following table summarizes the packaging for Infoprint Fonts:

Table 4. Packaging for Infoprint fonts

	General Font Library	Simplified C Traditional C	e, Korean, Chinese, and Chinese Font aries	Outlin	e fonts
Operating system	Expanded Core	DBCS Core	DBCS Simulation	CID-keyed	Туре 1
z/OS	Yes	Yes	Yes	No	No
OS/400	Yes	Yes	Yes	No	No
AIX and Windows	Yes	Yes	Yes	Yes	Yes

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

Table 5. General Font Library distribution information for z/OS

Operating system	Distribution medium	Media feature number	OTC feature number	Material ID
z/OS	3480	5802	0001	N/A

Table 6. General Font Library distribution for OS/400, AIX, and Windows

Operating system	OTC feature number	Media feature number	Medium	Material ID
AIX and Windows Fonts	0001	5957	CD-ROM	LCD4-5587
OS/400 Fonts	0001	5829	CD-ROM	LCD4-5588

Table 7. DBCS Fonts distribution information for z/OS

Language	Operating system	Distribution medium	Media feature number	OTC feature number	Material ID
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 8. DBCS Font Feature for AIX and Windows on CD-ROM medium

	OTC feature	Media feature	
Language	mumber	number	Material ID
Japanese	0002	5849	LCD4-5589
Korean	0003	5889	LCD4-5591
Simplified Chinese	0004	5879	LCD4-5593

 Table 8. DBCS Font Feature for AIX and Windows on CD-ROM medium (continued)

Language	OTC feature mumber	Media feature number	Material ID
Traditional Chinese	0005	5809	LCD4-5595

Table 9. DBCS Font Feature for OS/400

Language	OTC feature number	Media feature number	Medium	Material ID
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 10. Type Transformer and Utilities distribution for Windows

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

Supported languages

Language groups identified in items 1 through 9 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.
- 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.
- 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.
- 14. The DBCS Fonts contain characters for Simplified Chinese, Traditional Chinese, Japanese, and Korean.

IBM 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 34.

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
С	Character set
Х	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 26)
- DBCS Core Fonts (see Figure 14 on page 30 and Figure 15 on page 31)
- DBCS Simulation Fonts (Figure 16 on page 33)

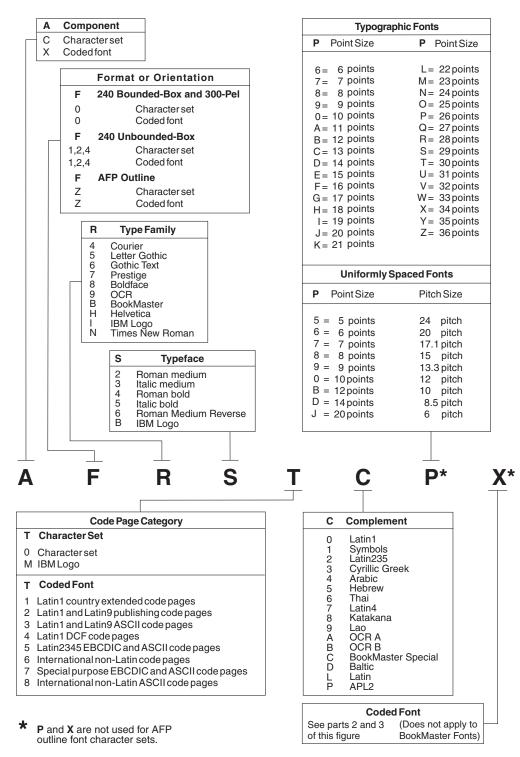
Character set and coded font names are usually distinctive and can be used to determine whether a font is an Expanded Core Font or a DBCS Core Font.

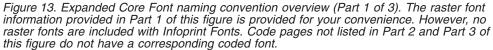
Code page names are usually not distinctive enough to determine for which IBM font group the code page is supplied.

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

- "Expanded Core Fonts" on page 38
- "DBCS Core Fonts" on page 42
- "DBCS Simulation Fonts" on page 45
- **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





Lat	in1 (Country Exten	ded Code Pages (T=1)	L	.atin1	DCF Code Pag	ges (T=4)
Х	С			x	С		
1 2 3 4 5 6	0 0 0 0 0	T1V10037 T1V10273 T1V10274 T1V10275 T1V10277 T1V10278	United States, Canada Austria, Germany Belgium Brazil Denmark, Norway Finland, Sweden	1 2 3 4	0 0 0-7	T1001002 T1001003 T1001068 T1001039	DCF Release 2 Compatibility U. S. Text Subset Text with Numeric Spacing GML List Symbols
7	Ő	T1V10280	Italy	Lá	atin23	45 EBCDIC an	d ASCII Code Pages (T=5)
8 9 0 A B C D	0 0 0 0 0	T1V10281 T1V10282 T1V10284 T1V10285 T1V10297 T1V10200 T1V10500 T1V10871	Japan (Latin) Portugal Spain, Latin America United Kingdom France International #5 Iceland	X 1 2 3 4 5	c 2 2 2 2 2 2	T1000870 T1000905 T1001026 T1000852	Latin2 EBCDIC Latin3 EBCDIC Latin5 EBCDIC Personal Computer: Latin2
				6	2	T1000853 T1000857	Personal Computer: Latin3 Personal Computer: Latin5
X 1 2 5 6 7 0 A	CEEEEEEEE	E T1001140 USA, Canada ECECP E T1001141 Austria, Germany ECECP E T1001142 Denmark, Norway ECECP E T1001143 Finland, Sweden ECECP E T1001144 Italy ECECP E T1001145 Spain, Latin America ECECP		7 8 9 0 8 0 8 0 0	2 2 7 2 2 2 2	T1000912 T1000920 T1001069 T1000914 T1001110 T1001111 T1000913 T1001122	ISO/ANSI8-Bit: Latin2 ISO/ANSI8-Bit: Latin5 Latin4 EBCDIC ISO/ASCII: Latin4 Latin2 Multilingual Latin2 ISO/ANSI8-bit Latin3 ISO/ASCII Estonia EBCDIC
В	E	T1001146 T1001147	UK ECECP France ECECP	Int	ternat	iona l Non-Lati	n Code Pages (T=6)
X 1234567890ABCD EF	C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T1000361 T1000382 T1000383 T1000385 T1000385 T1000386 T1000387 T1000389 T1000390 T1000391 T1000392 T1000394 T1000395 T1000394	International ECECP Iceland ECECP bilshing Code Pages (T=2) International Set #5 Austria, Germany, Switzerland Belgium Brazil Canada (French) Denmark, Norway Sweden, Finland France, Switzerland Italy, S	X 1 2 3 4 5 6 7 8 9 0 A B C D E F	C 4 3 5 5 3 8 3 6 3 5 8 6 3 3 9 8	T1000420 T1000423 T1000424 T1000803 T1000875 T1V10290 T1000880 T1001025 T1001028 T1001027 T1000889 T1001123 T1001123 T1001123 T1001132 T1001139	Arabic Bilingual Greece 183 Hebrew Greece Japan (Katakana) Cyrillic Multilingual Thailand Cyrillic Multilingual Hebrew Publishing Japanese (Latin) Extended Thailand Cyrillic, Ukraine EBCDIC Cyrillic, Ukraine EBCDIC Cyrillic, Ukraine ASCII Lao EBCDIC Japan Katakana Numeric
La	tin1	and Latin9 AS	CII Code Pages (T=3)	4			
Х	С						
1 2 3 4 5 6 7 8 9 A B	0 0 0 0 0 0 0 0 0 0	T1000437 T1000850 T1000860 T1000861 T1000863 T1000865 T1001004 T1000819 T1000858 T1000923 T1001252	Personal Computer Personal Computer: Multilingual Personal Computer: Portugal Personal Computer: Iceland Personal Computer: Nordic IBM PC Desktop Publishing ISO/ANSI 8-Bit: Latin1 PC Multilingual with euro Latin9 Windows Latin1				

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.

Sp	ecia	Purpose EBC	DIC and ASCII Code Pages (T=7)
	с		- · · /
	1	T1000259	Symbols, Set 7
	P	T1000293	APL (USA)
	P	T1000310	Graphic Escape APL
	A	T1000892	OCRA
	В	T1000393	OCRB
	1	T1000899	ASCII: Symbols, Set 7
	1	T1001087	Symbols, Adobe
	1	T1001038	ASCII: Symbols, Adobe
	1	T1001091	Symbols, Set 7 Modified
	1	T1001092	ASCII: Symbols, Set 7 Modified
	1	T1000363	Symbols, Set 8
	1	T1000829	Symbols, Math Symbols
	Ρ	T1000910	APLASCI
2	A	T1000876	OCR-AASCII OCR-BASCII
	В	T1000877	UCR-BASCII
nt	ernat	ionalNon-Lati	n ASCII Code Pages (T=8)
	с		
	3	T1000813	IS0/ASCII8-Bit: Greece
	3	T1000851	Personal Computer: Greek
	3	T1000855	Personal Computer: Cyrillic
	5	T1000856	Personal Computer: Hebrew
	5	T1000862	Personal Computer: Hebrew
	4	T1000864	Personal Computer: Arabic
	3	T1000869	Personal Computer: Greece
	6	T1000874 T1000915	Personal Computer: Thailand ISO/ASCII 8-Bit: Cyrillic
	3 5	T1000915	ISO/ASCII 8-Bit: Hebrew
	4	T1001008	ISO/ASCII 8-Bit: Arabic
	4	T1001029	ISO/ASCII 8-Bit: Arabic
;	4	T1001046	ISO/ASCII 8-Bit: Arabic Extended
)	3	T1000866	Personal Computer: Cyrillic #2
	8	T1000897	Japan PC #1
	8	T1001041	Japanese Extended-PC
à	9	T1001133	LaoISO-8
	5	T1000867	Israel - Personal Computer

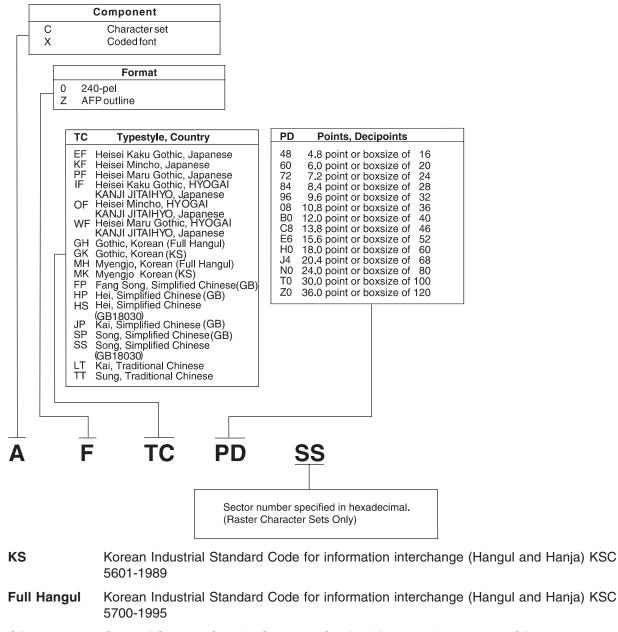
Figure 13. Expanded Core Font naming convention overview (Part 3 of 3). The raster font information provided in Part 1 of this figure is provided for your convenience. However, no raster fonts are included with Infoprint Fonts. Code pages not listed in Part 2 and Part 3 of this figure do not have a corresponding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

DBCS Core Outline Fonts

Table 11. DBCS Core Outline Font naming convention overview. This naming convention is used for CID-keyed outlines and AFP outline character sets.

РР	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



GB Code of Chinese Graphic Character Set for Information Interchange GB 2312-80

GB18030 Code of Chinese Graphic Character Set for Information Interchange GB 18030-2000

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

DBCS Core Half-Width Fonts

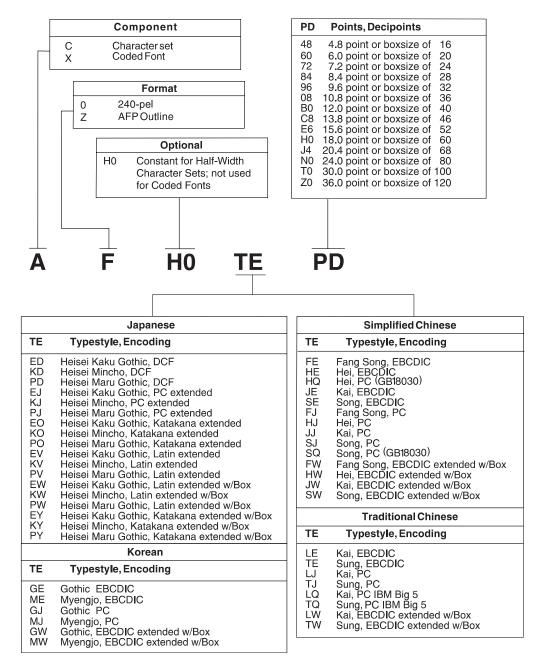


Figure 15. DBCS Core Half-Width Font naming convention overview

DBCS Simulation Fonts

Character set

Table 12. 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 13. DBCS Simulation Fonts naming convention overview for coded fonts. See Figure 16 on page 33 for detailed information.

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

		Japane	ese Full-Widt	h			Korean Full-Width		
BX	Boxsize ((HxV)				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	-	26x26	_	26x26	26x26	64	_	64x64	
32	32x32	32x32		32x32	32x32	04		04704	
			-				Korean Ha	alf-Width	
36	36x36	36x36	36x36	36x36	36x36	BX			
40	40x40	40x40	40x40	40x40	40x40		Boxsize (
44	-	44x44	-	44x44	44x44	0.0	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	
						20	-	20x40	
		lawawa	a a Lla Mid			24	-	24x48	
			se Half-Widt	n		32	-	32x64	
BX	Boxsize (
		Heisei				Sim	plified Chine	ese Full-Width	
		Kaku	Round		Heisei	BX	Boxsize	(HxV)	
	Gothic	Gothic	Gothic	Mincho	Mincho		Gothic	Song	
12	12x30	12x24	-	12x24	12x24	16	16x16	- Song	
13	-	13x26	-	13x26	13x26		10/10	-	
16	16x32	16x32	-	16x32	16x32	26	-	26x26	
18	18x36	18x36	18x36	18x36	18x36	32	-	32x32	
						40	-	40x40	
20	20x40	20x40	20x40	20x40	20x40				
22		22x44	-	-	22x44	Trad	itional Chin	ese Full-Width	
24	24x48	24x48	24x48	24x48	24x48	BX	Boxsize	(HxV)	
26	-	26x52	-	26x52	26x52		Gothic	Ming	
32	32x64	32x64	32x64	32x64	32x64	16	16x16	-	
						24	-	24x24	
						32	_	32232	
						32 40	-	32x32 40x40	
T	BX	E T							
	-	- <u></u>				40	-		
T	– Japan	- <u></u>			Enco	40 Ja			
	Japan ypestyle	ese		E	Enco	40 Ja ding	panese		
ŀ	Japan ypestyle leisei Kaku Go	ese othic	Ith	В	Base	40 Ja ding Set (Sec	- panese tion 41-55)	40x40	
F F	Japan ypestyle leisei Kaku Go leisei Kaku Go	ese othic	Jth	BD	Base DCF	40 Ja ding Set (Sec Set (Half-	- panese tion 41-55)		
+ + (Japan ypestyle leisei Kaku Go leisei Kaku Go dothic	ese othic othic Half-Wic	tth	B D F	Base DCF Full S	40 Ja ding Set (Sec Set (Half- et	- panese tion 41-55)	40x40	
+ ((Japan ypestyle leisei Kaku Go leisei Kaku Go Gothic Gothic Half-Wic	ese othic othic Half-Wic	lth	B D F J	Base DCF Full S PC Se	40 Ja ding Set (Sec Set (Half- et et	- panese tion 41-55)	40x40	
+ ((Japan ypestyle leisei Kaku Go leisei Kaku Go leisei Kaku Go dothic Half-Wic dothic Half-Wic lesei Mincho	ese othic othic Half-Wic	Jth	B D F J N	Base DCF Full S PC So Katak	Ja ding Set (Sec Set (Half- et et ana Set	- panese tion 41-55) Width) / JIS	40x40	
+ ((+	Japan ypestyle leisei Kaku Go leisei Kaku Go Gothic Half-Wic desei Mincho leisei Mincho I	ese othic othic Half-Wic	lth	B D F J N O	Base DCF Full S PC So Katak Exten	40 Ja ding Set (Sec Set (Half- et et ana Set ded Kata	- tion 41-55) Width) / JIS	40x40	
+ C C + N	Japan ypestyle leisei Kaku Go leisei Kaku Go Gothic Gothic Half-Wic desei Mincho leisei Mincho H	ese othic othic Half-Wic oth Half-Width	Jth	B D F J N O U	Base DCF Full S PC So Katak Exten US E	Ja Ja ding Set (Sec Set (Half- et ana Set ded Kata nglish Se	- tion 41-55) Width) / JIS akana Set	40x40	
H C H N N	Japan ypestyle leisei Kaku Gc leisei Kaku Gc Gothic Half-Wic lesei Mincho I disei Mincho I dincho Half-Wi	ese othic othic Half-Wic oth Half-Width		B D F J N O U V	Base DCF Full S PC S Katak Exten US El Exten	Ja Ja ding Set (Sec Set (Half- et ana Set ded Kata nglish Se ded Latii	- panese tion 41-55) Width) / JIS akana Set ti n Set	40x40	
H C C H N F	Japan ypestyle leisei Kaku Go deisei Kaku Go dothic dothic Half-Wic desei Mincho H dincho Half-Wi Round Gothic	ese othic Half-Wic dth Half-Width dth	lth	B D F J N O U	Base DCF Full S PC S Katak Exten US El Exten	Ja Ja ding Set (Sec Set (Half- et ana Set ded Kata nglish Sei ded Lati sion Set	- tion 41-55) Width) / JIS akana Set t n Set (Section 56-	40x40	
F F C C F F N N F F	Japan ypestyle Heisei Kaku Go Heisei Kaku Go Jeisei Kaku Go Jothic Half-Wic Hesei Mincho Heisei Mincho Hincho Half-Wi Round Gothic H	ese othic Half-Wic oth Half-Width dth Half-Width		B D F J N O U V X	Base DCF : Full S PC S Katak Exten US E Exten Exten	40 Ja ding Set (Sec Set (Half- et et ana Set ded Kata nglish Se ded Lati sion Set K	- panese tion 41-55) Width) / JIS akana Set ti n Set	40x40	
F C C F N N F F N	Japan ypestyle Heisei Kaku Go Heisei Kaku Go Heisei Kaku Go Heisei Kaku Go Heisei Mincho Heisei Mincho Heisei Mincho Hincho Half-Wi Round Gothic H Aincho Half-Wi	ese othic Half-Wic oth Half-Width dth Half-Width	 Jth	B D F J N O U V X E	Base DCF : Full S PC S Katak Exten US E Exten Exten	Ja ding Set (Sec Set (Half- et et ana Set ded Kata nglish Se ded Lati sion Set <u>K</u> ding	- tion 41-55) Width) / JIS akana Set t n Set (Section 56-	40x40	
F C C F M N F F N	Japan ypestyle Heisei Kaku Go Heisei Kaku Go Heisei Kaku Go Heisei Kaku Go Heisei Mincho Heisei Mincho Heisei Mincho Hincho Half-Wi Round Gothic H Aincho Half-Wi Aincho Half-Wi	ese othic Half-Wic oth Half-Width dth Half-Width dth	Jth	B D F J N O U V X	Base DCF 3 Full S PC S Katak Exten US El Exten Exten Exten Exten	40 Ja ding Set (Sec Set (Half- et et ana Set ded Kata nglish Se ded Latii sion Set K ding et	- tion 41-55) Width) / JIS akana Set t n Set (Section 56- orean	40x40	
F C F N N F N N N	Japan ypestyle Heisei Kaku Go Heisei Kaku Go Aothic Half-Wic Jesei Mincho Heisei Mincho Hincho Half-Wi Auncho Half-Wi Auncho Half-Wi Aincho Half-Wi Mincho	ese othic Half-Wic oth Half-Width dth Half-Width dth	 Jth	B D F J N O U V X E	Base DCF : Full S PC S Katak Exten US E Exten Exten Exten Exten Exten Exten Exten	40 Ja ding Set (Sec Set (Half- et ana Set ded Kata nglish Se ded Latii sion Set K ding et DIC Set (I	- tion 41-55) Width) / JIS width) / JIS akana Set t n Set (Section 56- orean Half-Width)	40x40	
F C F N N F N N N	Japan ypestyle Heisei Kaku Go Heisei Kaku Go Heisei Kaku Go Heisei Kaku Go Heisei Mincho Heisei Mincho Heisei Mincho Hincho Half-Wi Round Gothic H Aincho Half-Wi Aincho Half-Wi	ese othic Half-Wic oth Half-Width dth Half-Width dth	lth	B D F J N O U V X E K	Base DCF : Full S PC S Katak Exten US E Exten Exten Exten Exten Exten Exten Exten	40 Ja ding Set (Sec Set (Half- et ana Set ded Kata nglish Se ded Latii sion Set K ding et DIC Set (I	- tion 41-55) Width) / JIS width) / JIS akana Set t n Set (Section 56- orean Half-Width)	40x40	
F C C F N N F N N N N	Japan ypestyle Heisei Kaku Go Heisei Kaku Go Aothic Half-Wic Jesei Mincho Heisei Mincho Hincho Half-Wi Auncho Half-Wi Auncho Half-Wi Aincho Half-Wi Mincho	ese othic Half-Wic oth Half-Width dth Half-Width dth	lth	B D F J N O U V X E K K	Base DCF : Full S PC S Katak Exten US E Exten Exten Exten Exten Exten Exten Exten	40 Ja ding Set (Sec Set (Half- et ana Set ded Kata nglish Se ded Latii sion Set K ding et DIC Set (I al and H	- tion 41-55) Width) / JIS akana Set t n Set (Section 56- orean Half-Width) angul Set (S	40x40	
+ C C F F N N F T C C	Japan ypestyle Jeisei Kaku Gc Jeisei Kaku Gc Gothic Jesei Kaku Gc Jesei Kaku Gc Jesei Kaku Gc Jesei Mincho Half-Wi Jincho Half-Wi Jincho Half-Wi Jincho Half-Wi Jincho Kore ypestyle	ese othic Half-Wid oth Half-Width dth Half-Width dth an	Jth	B D F J N O U V X E K K L	Base DCF : Full S PC So Katak Exten US El Exten Exten Exten Full S EBCE Speci	40 Ja ding Set (Sec Set (Half- et ana Set ded Latii sion Set K ding et DIC Set (i al and H Simplif	- tion 41-55) Width) / JIS width) / JIS akana Set t n Set (Section 56- orean Half-Width)	40x40	
+ C C F F M N F F T C C C C C	Japan ypestyle leisei Kaku Go dothic Kaku Go dothic Half-Wic leisei Mincho H leisei Mincho H lincho Half-Wi Round Gothic H lincho Half-Wi lincho Half-Wi Mincho Kore ypestyle dothic Gothic Half-Wic	ese othic Half-Wid oth Half-Width dth Half-Width dth an		B D F J N O U V X E K K L	Base DCF : Full S PC S Katak Exten Exten Exten Exten Full S EBCE Speci	40 Ja ding Set (Sec Set (Half- et ana Set ded Kata nglish Se ded Latii sion Set K ding et DIC Set (I al and H Simplif ding	- tion 41-55) Width) / JIS akana Set tt n Set (Section 56- orean Half-Width) angul Set (S ied Chinese	40x40	
+ + + + N N F F N N N N N N N N N N N N	Japan ypestyle leisei Kaku Gc deisei Kaku Gc dothic Half-Wic lesei Mincho H dincho Half-Wic dincho Half-Wi dincho Half-Wi dincho Half-Wi dincho Half-Wi dincho Kore ypestyle dothic Half-Wic dincho	ese othic Half-Wic dth Half-Width dth Half-Width dth th	Jth	B D F J N O U V X E K K L	Base DCF : Full S PC S Katak Exten Exten Exten Exten Full S EBCE Speci	40 Ja ding Set (Sec Set (Half- et ana Set ded Latii sion Set K ding et DIC Set (i al and H Simplif	- tion 41-55) Width) / JIS akana Set tt n Set (Section 56- orean Half-Width) angul Set (S ied Chinese	40x40	
+ + + + N N F F N N N N N N N N N N N N	Japan ypestyle Heisei Kaku Go Heisei Kaku Go Sothic Half-Wic Aincho Half-Wic Aincho Half-Wi Aincho Half-Wi Aincho Half-Wi Aincho Half-Wi Mincho Kore ypestyle Sothic Half-Wic Aincho Half-Wic Mincho Half-Wic Mincho Half-Wic	ese othic Half-Wic othic Half-Wic dth Half-Width dth Half-Width dth dth dth		B D F J N O U V X E K K L	Base DCF : Full S PC S Katak Exten Exten Exten Exten Full S EBCE Speci	Ja ding Set (Sec Set (Half- et et ana Set ded Latii sion Set ded Latii sion Set Mang et DIC Set (al and H Simplif ding Host (GE	- tion 41-55) Width) / JIS akana Set ti Section 56- orean Half-Width) angul Set (S ied Chinese	40x40	
F C C F F N N F F T C C C N N	Japan ypestyle Heisei Kaku Go Heisei Kaku Go Sothic Half-Wic Heisei Mincho Heisei Mincho Hincho Half-Wi Auncho Half-Wi Auncho Half-Wi Auncho Kore ypestyle Sothic Half-Wic Mincho Half-Wic Simplified	ese othic Half-Wic othic Half-Wic dth Half-Width dth Half-Width dth dth dth		B D F J N O U V X E K K L E P	Base DCF : Full S PC Si Katak Exten US Ei Exten Exten Exten Exten Exten Exten Exten Exten Exten Full S EBCD Speci	Ja Ja ding Set (Sec Set (Half- et et ana Set ded Kata glish Se ded Latii sion Set Med Latii Sion Set (Gal and H Simplif ding Host (Ge Traditio	- tion 41-55) Width) / JIS akana Set tt n Set (Section 56- orean Half-Width) angul Set (S ied Chinese	40x40	
F F F F F T C C C C C C C C C C C C C C	Japan ypestyle Heisei Kaku Gc Heisei Kaku Gc Sothic Half-Wic Heisei Mincho Heisei Mincho Hincho Half-Wi Aincho Half-Wi Aincho Half-Wi Mincho Kore ypestyle Sothic Half-Wic Mincho Half-Wic Simplified ypestyle	ese othic Half-Wic othic Half-Wic dth Half-Width dth Half-Width dth dth dth		B D F J N O U V X E K K L E P	Base DCF : Full S PC Si Katak Exten US El Exten Exten Full S EBCD Speci Enco PRC 1	Ja Ja ding Set (Sec Set (Half- et ana Set ded Kata nglish Se ded Latii sion Set K ding et DIC Set (I al and H Simplif ding Host (GE Traditio ding	- tion 41-55) Width) / JIS akana Set ti Section 56- orean Half-Width) angul Set (S ied Chinese	40x40	
+ + + + + + + + + + + + + + + + + + +	Japan ypestyle Heisei Kaku Gc Heisei Kaku Gc Gothic Sothic Half-Wic Heisei Mincho Heisei Mincho Heisei Mincho Hincho Half-Wi Aincho Half-Wi Aincho Half-Wic Aincho Half-Wic Aincho Half-Wic Mincho Half-Wic Mincho Half-Wic Mincho Half-Wic Mincho Half-Wic Mincho Half-Wic Simplified ypestyle Gothic	ese othic Half-Wic othic Half-Wic dth Half-Width dth Half-Width dth dth dth		B D F J N O U V X E K K L E P	Base DCF : Full S PC Si Katak Exten US El Exten Exten Full S EBCD Speci Enco PRC 1	Ja Ja ding Set (Sec Set (Half- et et ana Set ded Kata glish Se ded Latii sion Set Med Latii Sion Set (Gal and H Simplif ding Host (Ge Traditio	- tion 41-55) Width) / JIS akana Set ti Section 56- orean Half-Width) angul Set (S ied Chinese	40x40	
+ + + + + + + + + + + + + + + + + + +	Japan ypestyle leisei Kaku Gc deisei Kaku Gc dothic Half-Wic desei Mincho leisei Mincho Half-Wic dincho Half-Wi dincho Half-Wi dincho Half-Wi dincho Half-Wic dincho Half-Wic	ese othic Half-Wid dth Half-Width dth Half-Width dth an dth dth		B D F J N O U V X E K K L E P	Base DCF : Full S PC Si Katak Exten US El Exten Exten Full S EBCD Speci Enco PRC 1	Ja Ja ding Set (Sec Set (Half- et ana Set ded Kata nglish Se ded Latii sion Set K ding et DIC Set (I al and H Simplif ding Host (GE Traditio ding	- tion 41-55) Width) / JIS akana Set ti Section 56- orean Half-Width) angul Set (S ied Chinese	40x40	
+ + + + + + + + + + + + + + + + + + +	Japan ypestyle Heisei Kaku Gc Heisei Kaku Gc Gothic Sothic Half-Wic Heisei Mincho Heisei Mincho Heisei Mincho Hincho Half-Wi Aincho Half-Wi Aincho Half-Wic Aincho Half-Wic Aincho Half-Wic Mincho Half-Wic Mincho Half-Wic Mincho Half-Wic Mincho Half-Wic Mincho Half-Wic Simplified ypestyle Gothic	ese othic Half-Wid dth Half-Width dth Half-Width dth an dth dth		B D F J N O U V X E K K L E P	Base DCF : Full S PC Si Katak Exten US El Exten Exten Full S EBCD Speci Enco PRC 1	Ja Ja ding Set (Sec Set (Half- et ana Set ded Kata nglish Se ded Latii sion Set K ding et DIC Set (I al and H Simplif ding Host (GE Traditio ding	- tion 41-55) Width) / JIS akana Set ti Section 56- orean Half-Width) angul Set (S ied Chinese	40x40	
F C C F N N F F N N C C C C C C C C C C	Japan ypestyle leisei Kaku Gc deisei Kaku Gc dothic Half-Wic desei Mincho leisei Mincho Half-Wic dincho Half-Wi dincho Half-Wi dincho Half-Wi dincho Half-Wic dincho Half-Wic	ese othic Half-Wid dth Half-Width dth Half-Width dth an dth dth	Jth	B D F J N O U V X E K K L E P	Base DCF : Full S PC Si Katak Exten US El Exten Exten Full S EBCD Speci Enco PRC 1	Ja Ja ding Set (Sec Set (Half- et ana Set ded Kata nglish Se ded Latii sion Set K ding et DIC Set (I al and H Simplif ding Host (GE Traditio ding	- tion 41-55) Width) / JIS akana Set ti Section 56- orean Half-Width) angul Set (S ied Chinese	40x40	
+ + + + + + + + + + + + + + + + + + +	Japan ypestyle leisei Kaku Gc dothic Cathic Gothic Half-Wic leisei Mincho Half-Wic leisei Mincho Half-Wic lincho Half-Wi dincho Half-Wi dincho Half-Wic dincho Half-Wic Sothic Half-Wic Simplified ypestyle Sothic Sothic Sothic Sothic Sothic	ese othic Half-Wid dth Half-Width dth Half-Width dth an dth dth		B D F J N O U V X E K K L E P	Base DCF : Full S PC Si Katak Exten US El Exten Exten Full S EBCD Speci Enco PRC 1	Ja Ja ding Set (Sec Set (Half- et ana Set ded Kata nglish Se ded Latii sion Set K ding et DIC Set (I al and H Simplif ding Host (GE Traditio ding	- tion 41-55) Width) / JIS akana Set ti Section 56- orean Half-Width) angul Set (S ied Chinese	40x40	

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.

Т	1	Y			1		Y	Υ	Y	Y
							Prefe	erred Code	Pages	
		Y	Y	Y	Y	Y	Y	Category		
		0	0	n	n	n	n	Expanded		
		V	1	n	n	n	n	Expanded		
		В	0	0	n	n	n	BookMast	er	
Т	1	Υ			Y		Υ	Υ	Υ	Υ

	Legacy Code Pages								
Y	Υ	Υ	Y	Υ	Y	Category			
D	х	n	n	n	n	DCF-related			
D	х	В	А	S	Е	Migration			
G	D	Ρ	n	n	n	Dataprocessing			
G	Е	0	n	n	n	Sonoran Display, Sonoran Petite			
G		0	n	n	n	General			
G	Ρ	0	n	n	n	Generalpurpose			
L	0	n	n	n	n	LCS-related			
М	0	0	n	n	n	Mathematics			
S	0	n	n	n	n	6670-related			
S	К	В	n	n	n	Standard keyboard			

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

T1	Always T1	HO	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 15. 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:	55	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 3. Font summary tables

The font summary tables provide the following information for Infoprint Fonts font resources:

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.

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 16. Format and	l oneratina system	s for Expanded	Core Fonts
	і орегаціну зузіень	s ioi Expanueu	Core i onis

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

Table 17. Expanded Core Fonts

AFP typeface name	Type 1 typeface name	Style and weight	Character set identifier	Type 1 file name	GCSGID	FGID
		Α	PL			
Courier APL2	Courier APL2	RM	CZ420P	APL	1364	307
	" Bold	RB	CZ440P	APLB		322
		Ara	abic			
Boutros Typing Arabic	Typing	RM	CZ4204	COU_A	1506	416
	" Bold	RB	CZ4404	COU_AB		420
	″ Italic	IM	CZ4304	COU_AI		424
	" Bold Italic	IB	CZ4504	COU_ABI		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
	l	BookMast	er Specials			
BookMaster Specials	BookMaster Specials	RM	CZB20C	EDFBS	1241	335
	" Bold	RB	CZB40C	EDFBSB		336
	" Italic	IM	CZB30C	EDFBSI		337
	" Bold Italic	IB	CZB50C	EDFBSBI		338
BookMaster Specials Reverse	BookMaster Specials Reverse	RM	CZB60C	EDFBSR	1241	339
		Су	rillic			
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	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
		Gr	eek			
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 17. Expanded Core Fonts	(continued)
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	and weight	set identifier	name		
Helvetica Cyr Grk	RM	CZH203	HEL_CG	1504	2304
" Bold	RB	CZH403	HEL_CGB		2305
" Italic	IM	CZH303	HEL_CGI		2306
" Bold Italic	IB	CZH503	HEL_CGBI		2307
	RM	CZN203	TNR_CG	1504	2308
	RB	CZN403	TNR_CGB		2309
			_		2310
" Bld It	IB	CZN503	TNR_CGBI		2311
	Heb	orew			
Shalom Hebrew	RM	CZ4205	COU_H	1362	416
			_		420
			_		424
" Bold Italic	IB	CZ4505	COU_HBI		428
Narkiss Tam Hebrew	RM	CZH205	HEL_H	1362	2304
					2305
			_		2306
" Bold Italic	IB	CZH505	HEL_HBI		2307
Narkissim Hebrew	RM	CZN205	TNR_H	1362	2308
			_		2309
					2310 2311
					2011
		-		2040	
			LUGUIDINI	2040	51767
				1000	
Gothic Katakana			GOT_K	1306	304
Courier Lee			0111	1941	416
			_	1341	410
					420
" Bold Italic	IB	CZ4509	_		424
Pusuwan	BM	C7H209		1341	2304
				1011	2305
					2306
" Bold Italic	IB	CZH509	HEL_LBI		2307
Kaewfah	RM	CZN209	TNR L	1341	2308
	RB				2309
					2310
" Bold Italic	IB	CZN509	TNR_LBI		2311
	La	itin			
Courier	RM	CZ420L	COU	1503	416
" Bold	RB	CZ440L	COUB		420
	IM	CZ430L	COUI		424
" Bold Italic	IB	CZ450L	COUBI		428
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	RM	CZN20L	TNR	1503	2308
" Bold	RB	CZN40L	TNRB		2309
" Italic	IM	CZN30L	TNRI		2310
" Bold Italic	IB	CZN50L	TNRBI		2311
	 Italic Bold Italic Times New Roman Cyr Grk ["] Bold ["] Italic ["] Bold It Shalom Hebrew ["] Bold Italic Thatic Bold Italic Shalom Hebrew ["] Bold Italic Thatic Bold Italic Narkiss Tam Hebrew ["] Bold ["] Italic ["] Bold Italic Narkissim Hebrew ["] Bold Italic Narkissim Hebrew ["] Bold Italic Narkissim Hebrew ["] Bold Italic IBM Logo IBM Logo	" Bold RB " Italic IM " Bold Italic IB Times New Roman Cyr Grk RM RM " Bold RB " Italic IM " Bold Italic IM " Bold Italic IM " Bold Italic IM " Bold RB " Bold Italic IB Narkiss Tam Hebrew RM " Bold Italic IB Narkissim Hebrew RM " Bold Italic IB Narkissim Hebrew RM " Bold Italic IB IBM Logo RM " Bold Italic IB Courier Lao RM " Bold Italic IB Pusuwan RB " Italic IM " Bold Italic IB Pusuwan RM " Bold Italic IB " Bold Italic IB " Bold Italic IB " Bold Italic IB " Bold Italic	" Bold i talic RB CZH403 " Bold Italic IM CZH303 " Bold Italic IB CZH503 Times New Roman Cyr Grk RB CZN203 " Bold IM CZN303 " Bold IM CZN303 " Bold IM CZN303 " Bold IB CZN503 " Bold IB CZ4205 " Bold RB CZ4205 " Bold Italic IM CZ4305 " Bold Italic IM CZ4205 " Bold Italic IM CZ4205 " Bold Italic IM CZ4305 " Bold Italic IM CZ4305 " Bold Italic IM CZ4305 " Bold Italic IM CZN305 " Bold Italic IM CZN305 " Bold Italic IM CZN305 " Bold Italic IM CZ1209 " Bold Italic RM CZ4209 " Bold Italic IM CZ4309 " B	" Bold RB CZH403 HEL_CGB " Italic IB CZH503 HEL_CGB " Bold Italic IB CZH503 HEL_CGB " Bold RB CZN203 TNR_CG " Bold IM CZN303 TNR_CGB " Bold IM CZN303 TNR_CGB " Bold IM CZ405 COU_H " Bold IB CZ405 COU_H " Bold RB CZ405 HEL_H " Bold RB CZH305 HEL_H " Bold RB CZH305 TNR_H " Bold RB <td>* Bold * RB CZH033 HEL_CGB * Bold Italic IB CZH503 HEL_CGB Times New Roman Cyr Grk RM CZN203 TNR_CG 1504 * Bold RB CZN403 TNR_CGB 1504 * Bold RB CZN405 COU_H 1362 * Bold Italic IM CZ4205 COU_HB 1362 * Bold Italic IM CZ4205 COU_HB 1362 * Bold Italic IM CZ405 COU_HB 1362 * Bold Italic IB CZH05 HEL_HB 1362 * Bold Italic IB CZH05 TNR_H 1362 * Bold Italic IB CZN05 TNR_HB 1362 * Bold Italic IB CZN05 TNR_HB 1362 <t< td=""></t<></td>	* Bold * RB CZH033 HEL_CGB * Bold Italic IB CZH503 HEL_CGB Times New Roman Cyr Grk RM CZN203 TNR_CG 1504 * Bold RB CZN403 TNR_CGB 1504 * Bold RB CZN405 COU_H 1362 * Bold Italic IM CZ4205 COU_HB 1362 * Bold Italic IM CZ4205 COU_HB 1362 * Bold Italic IM CZ405 COU_HB 1362 * Bold Italic IB CZH05 HEL_HB 1362 * Bold Italic IB CZH05 TNR_H 1362 * Bold Italic IB CZN05 TNR_HB 1362 * Bold Italic IB CZN05 TNR_HB 1362 <t< td=""></t<>

Table 17. Expanded Core Fonts (continued)

AFP typeface name	Type 1 typeface name	Style and weight	Character set identifier	Type 1 file name	GCSGID	FGID
		La	tin1			
Boldface Latin1	Boldface	RB	CZ8400	BFC	2041	20224
BookMaster Latin1	BookMaster	RM	CZB200	EDFBL	2041	335
	" Bold	RB	CZB400	EDFBLB		336
	" Italic	IM	CZB300	EDFBLI		337
	" Bold Italic	IB	CZB500	EDFBLBI		338
BookMaster Latin1 Reverse	BookMaster Reverse	RM	CZB600	EDFBLR	2041	339
Courier Latin1	Courier	RM	CZ4200	COU	2041	416
	" Bold	RB	CZ4400	COUB		420
	" Italic	IM	CZ4300	COUI		424
	" Bold Italic	IB	CZ4500	COUBI		428
Gothic Text Latin1	Gothic Text	RM	CZ6200	GOT	2041	304
Helvetica Latin1	Helvetica	RM	CZH200	HEL	2041	2304
	" Bold	RB	CZH400	HELB		2305
	" Italic	IM	CZH300	HELI		2306
	" Bold Italic	IB	CZH500	HELBI		2307
Letter Gothic Latin1	Letter Gothic	RM	CZ5200	LGO	2041	400
Louis Gound Laurr	" Bold	RB	CZ5200 CZ5400	LGOB	2041	400
Prestige Latin1	Prestige	RM	CZ7200	PRS	2041	432
r roolige Latirr	" Bold	RB	CZ7400	PRSB	2041	318
	" Italic	IM	CZ7300	PRSI		319
Times New Roman	Times New Roman	RM	CZN200	TNR	2041	2308
Latin1	" Bold	RB	CZN400	TNRB	2011	2309
	″ Italic	IM	CZN300	TNRI		2310
	" Bold Italic	IB	CZN500	TNRBI		2311
		Latin2, La	tin3, Latin5			
Courier Latin235	Courier	RM	CZ4202	COU	1261	416
	″ Bold	RB	CZ4402	COUB		420
	" Italic	IM	CZ4304	COUI		424
	" Bold Italic	IB	CZ4502	COUBI		428
Helvetica Latin235	Helvetica	RM	CZH202	HEL	1261	2304
	" Bold	RB	CZH402	HELB		2305
	" Italic	IM	CZH302	HELI		2306
	" Bold Italic	IB	CZH502	HELBI		2307
Times New Roman	Times New Roman	RM	CZN202	TNR	1261	2308
Latin235	" Bold	RB	CZN402	TNRB		2309
	" Italic	IM	CZN302	TNRI		2310
	" Bold Italic	IB	CZN502	TNRBI		2311
		La	tin4			
Courier Latin4	Courier	RM	CZ4207	COU	1268	416
	" Bold	RB	CZ4407	COUB		420
	" Italic	IM	CZ4307	COUI		424
	" Bold Italic	IB	CZ4507	COUBI		428
Helvetica Latin4	Helvetica	RM	CZH207	HEL	1268	2304
	" Bold	RB	CZH407	HELB		2305
	" Italic	IM	CZH307	HELI		2306
	" Bold Italic	IB	CZH507	HELBI		2307
Times New Roman	Times New Roman	RM	CZN207	TNR	1268	2308
Latin4	" Bold	RB	CZN407	TNRB		2309
	" Italic	IM	CZN307	TNRI		2310
	" Bold Italic	IB	CZN507	TNRBI		2311
	Optic	al Character	Recognition	(OCR)		
OCRA	OCR A	RM	CZ920AB0	OCR_A	968	305

AFP typeface name	Type 1 typeface name	Style and weight	Character set identifier	Type 1 file name	GCSGID	FGID
OCRB	OCRBMT	RM	CZ920BB0	OCR_B	969	306
		Syn	nbols			
Courier Symbols	Courier Symbols " Bold	RM RB	CZ4201 CZ4401	COU_S COU_SB	1275	416 420
Helvetica Symbols	Helvetica Symbols " Bold	RM RB	CZH201 CZH401	HEL_S HEL_SB	1275	2304 2305
Times New Roman Symbols	Times New Roman Symbols " Bold	RM RB	CZN201 CZN401	TNR_S TNR_SB	1275	2308 2309
		Т	hai			
Courier Thai	Courier Thai " Bold " Italic " Bold Italic	RM RB IM IB	CZ4206 CZ4406 CZ4306 CZ4506	COU_T COU_TB COU_TI COU_TBI	1505	416 420 424 428
Thonburi	Thonburi " Bold " Italic " Bold Italic	RM RB IM IB	CZH206 CZH406 CZH306 CZH506	HEL_T HEL_TB HEL_TI HEL_TBI	1505	2304 2305 2306 2307
Burirum	Burirum ″Bold ″Italic ″Bold Italic	RM RB IM IB	CZN206 CZN406 CZN306 CZN506	TNR_T TNR_TB TNR_TI TNR_TBI	1505	2308 2309 2310 2311

Table 17. Expanded Core Fonts (continued)

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 19 on page 43. 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:

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 19 on page 43:

- 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 19 on page 43. For example, if you want a point size of 12.0, substitute 40 for the lowercase **pd**.

Table 19. DBCS Core Fonts for Japanese

Heisei Kaku IBJHKGW5 Medium	Full Half Half Half Half Half Half half hese Heisei Full	XZEFpd XZEJpd XZEJpd XZEOpd XZEVpd XZEWpd XZEYpd	ei Kaku Gothic CZJHKG CZJHKG CZJHKG CZJHKG CZJHKG CZJHKG c (HYOGAI KAN	T10300 T1H01002 T1H01041 T1H00290 T1H01027 T1H01031 T1H01030 JI JITAIHYO) T1K300	2093 1132 1187 1398 1398 1363 1363 2093	53249
Gothic Japar Heisei Kaku IBJHKGW5 Medium	Half Half Half Half Half Half nese Heisei Full	XZEDpd XZEJpd XZEOpd XZEVpd XZEWpd XZEYpd Kaku Gothi	CZJHKG CZJHKG CZJHKG CZJHKG CZJHKG CZJHKG c (HYOGAI KAN	T1H01002 T1H01041 T1H00290 T1H01027 T1H01031 T1H01030 JJ JITAIHYO)	1132 1187 1398 1398 1363 1363	
Japar Heisei Kaku IBJHKGW5 Medium	Half Half Half Half Half nese Heisei Full	XZEJpd XZEOpd XZEVpd XZEWpd XZEYpd Kaku Gothi	CZJHKG CZJHKG CZJHKG CZJHKG CZJHKG CZJHKG	T1H01041 T1H00290 T1H01027 T1H01031 T1H01030 JJ JITAIHYO)	1187 1398 1398 1363 1363	53240
Heisei Kaku IBJHKGW5 Medium	Half Half Half Half nese Heisei Full	XZEOpd XZEVpd XZEWpd XZEYpd Kaku Gothi	CZJHKG CZJHKG CZJHKG CZJHKG c (HYOGAI KAN	T1H00290 T1H01027 T1H01031 T1H01030 JI JITAIHYO)	1398 1398 1363 1363	53240
Heisei Kaku IBJHKGW5 Medium	Half Half Half nese Heisei Full	XZEVpd XZEWpd XZEYpd Kaku Gothi	CZJHKG CZJHKG CZJHKG c (HYOGAI KAN	T1H01027 T1H01031 T1H01030 JI JITAIHYO)	1398 1363 1363	53240
Heisei Kaku IBJHKGW5 Medium	Half Half nese Heisei Full	XZEWpd XZEYpd Kaku Gothi	CZJHKG CZJHKG c (HYOGAI KAN	T1H01031 T1H01030 JI JITAIHYO)	1363 1363	53240
Heisei Kaku IBJHKGW5 Medium	Half nese Heisei Full	XZEYpd Kaku Gothi	CZJHKG c (HYOGAI KAN	T1H01030 JI JITAIHYO)	1363	53240
Heisei Kaku IBJHKGW5 Medium	nese Heisei Full	Kaku Gothi	c (HYOGAI KAN	JI JITAIHYO)		53240
Heisei Kaku IBJHKGW5 Medium	Full		`	,	2093	53240
		XZIFpd	CZJHKG	T1K300	2093	53240
Gothic	Jai					56245
	04	oanese Heis	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	
Japar	nese Heisei	Maru Gothi	c (HYOGAI KAN	JI JITAIHYO)		
Heisei Maru IBJHKGW4 Semi- Gothic Light	Full	XZWFpd	CZJHMG	T1K300	2093	53250
		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	
		XZKVpd	CZJHMN	T1H01027	1398	
	Half	XZKWpd	CZJHMN	T1H01031	1363	
	Half	XZKYpd	CZJHMN	T1H01030	1363	
Jar	panese Heis	sei Mincho (HYOGAI KANJI	JITAIHYO)		
Heisei Mincho IBJHMNW3 Light	Full	XZOFpd	CZJHMN	T1K300	2093	53248

Table 20. 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	Myengjo			
Myengjo	IBHSM2W5	Medium	Full	XZMKpd	CZHSM2	T10834	1010	53560
			Full	XZMHpd	CZHSM2	T1K834	1098	
			Half	XZMEpd	CZHSM2	T1H00833	1173	
			Half	XZMJpd	CZHSM2	T1H01126	1267	
			Half	XZMWpd	CZHSM2	T1H01150	1365	

Table 21. DBCS Core Fonts for Simplified Chinese

			Sir	nplified Chine	se - GB Fang S	Song		
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 Chin	ese - GB18030	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 Cl	ninese - GB Ka	i		
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	nplified Chine	se - GB18030 S	Song		
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 22. DBCS Core Fonts for Traditional Chinese

AFP/CID typeface name	CID file 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 following raster font products:

- Japanese
 - AFP Japanese Font V2 (5771-AGB)
 - AFP Japanese Heisei Font (5648-104)
- Korean
 - AFP Korean Font (5771-AFW)
- Simplified Chinese
 - AFP Simplified Chinese Font (5771-AEK)
- Traditional Chinese
 AFP Traditional Chinese Font (5771-AFZ)

DBCS Simulation Fonts are provided in the following formats:

T / / 00 F				o:	
Table 23. Forma	at and operating	g systems for	DBCS	Simulation Fon	ts

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

See Table 24 on page 46 for the summary of the DBCS simulation fonts.

Table 24. DE	DBCS Simulation Fonts	ation Font	S					
CID file name	Weight	Width	Coded font	Character set	Code page	GCSGID	FGID	Box Size 240 pel (HxV)
				Japa	Japanese Gothic s	simulated by	by Heisei Kaku Gothic	
IBJHKGW5	Medium	Full Full	XZGbxB XZGbxF	CZJHKG	T11300 T11300	2093 2093	53249 1	
		Full	XZGbxX		T11300	2093		48x48
		Half Half	XZHbxU YZHbv I		T1H01002	1132		12X3U 16X32 18X36 2UX4U 24X48 32X64 19230 16232 18236 20240 24X48 32264
		Half	XZHbxN		T1HK0290	332		16x32 18x36 20x40 24x48
		Half	OxdH ZX		T1H00290	1398		16x32 18x36 20x40 24x48
		Half Half	XZHbxU XZHbxV		T1HK0037 T1H10027	101 1398		12x30 16x32 18x36 20x40 24x48 32x64 12x30 16x32 18x36 20x40 24x48 32x64
				Japanes	ie Gothic (JISS	30) simulate	Japanese Gothic (JIS90) simulated by Heisei Kaku Gothic	
IBJHKGW5	Medium	Full	XZGbxD	CZJHKG	T1J300	2093	53249 1	16x16 20x24 24x30 32x32 36x36 40x40 48x48 64x64
				Japanese I	Heisei Kaku G	othic simul	Japanese Heisei Kaku Gothic simulated by Heisei Kaku Gothic	
IB.IHKGW5	Medium	E	X7FhxB	CZ.IHKG	T10300	2093	53249 24X24 2	26x26 32x32 36x36 40x40 44x44 48x48 52x52 64x64
		Full	XZEbxF		T10300	2093	24x24	32×32 36×36 40×40 44×44 48×48 52×52
		Half	XZFbxD		T1H01002	1132		16x32 18x36 20x40 22x44 24x48 26x52
		Half	XZFbxJ		T1H01041	1187		16x32 18x36 20x40 22x44 24x48 26x52
		Half	XZFbxN		T1HK0290	332		16x32 18x36 20x40 22x44 24x48 26x52
		Half	XZFbxO		T1H00290	1398		16x32 18x36 20x40 22x44 24x48 26x52
		Half Half	XZFbxU X7FhxV		T1HK0037 T1H01027	101 1398	12x24 1 12x24 1	13x26 16x32 18x36 20x40 22x44 24x48 26x52 32x64 13x26 16x32 18x36 20x40 22x44 24x48 26x52 32x64
				Japanes	se Round Goth	nic simulate		
	:		0,1077			0000	10010	10110 10110
IBJHMGW4	Semi-		XZHDXB V7Dbvc	CZJHIMG	T11300	2003	06256	36X36 4UX4U 48X48 64X64
	III	In L	XZRbxX		T11300	2093		40x40 48x48 48x48
		Half	XZSbxD		T1H01002	1132		
		Half	LXSbxJ		T1H01041	1187		20x40 24x48
		Half	NXdSZX		T1HK0290	332		20x40 24x48
		Half	XZSbxO		T1H00290	1398		20x40 24x48
		Half	XZSbxU		T1HK0037	101		20x40 24x48
		Half	XZSbxV		T1H01027	1398		18x36 20x40 24x48 32x64
				Japanese R	Japanese Round Gothic (JIS90)	JIS90) simu	simulated by Heisei Maru Gothic	
IBJHMGW4	Semi- Light	Full	XZRbxD	CZJHMG	T1J300	2093	53250	36x36 40x40 48x48 64x64

ומטום בא. ה												
CID file name	Weight	Width	Coded font	Character set	Code page	GCSGID	FGID			Box	Box Size 240 pel (HxV)	(HxV)
				Ļ	Japanese Mincho simulated by Heisei Mincho	no simulated	I by Heisei Mi	Icho				
£WNMHLBI	Light	F H H H H H H H H H H H H H H H H H H H	XZMbxB XZMbxF XZMbxF XZbxB XZDbxB XZNbxU XZNbxU XZNbxU XZNbxU XZYbxU XZYbxU XZYbxU XZYbxU XZYbxU XZYbxU XZYbxU XZYbxU XZYbxU XZYbxU XZYbxU	CZJHMN	T11300 T11300 T11300 T11300 T11300 T1H01021 T1H01021 T1H01021 T1H00290 T1H01027 T1H01027 T1H01027 T1H010290 T1H00200 T1H00290 T1H0020 T10	2093 2093 2093 2093 2093 1132 1132 1132 1398 1132 1132 1132 1132 1398 101 1398 101 1398 101 1398 1398 1398 1398 1398 1398 1398 139	2093 53248 16x16 2093 53248 16x16 2093 2093 16x16 132 1132 1398 101 1398 1187 1398 1132 1187 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398 101 1398	16x16 24x24 26x26 16x16 24x24 26x26 12x24 12x24 12x24 12x24 12x24 12x24 12x24 12x24 12x24	32x32 32x32 13x26 13x26 13x26 13x26 13x26 13x26	40x40 44x44 40x40 44x44 18x36 20x40 18x36 20x40 18x36 20x40 18x36 20x40 18x36 20x40 18x36 20x40	48x48 52x52 48x48 52x52 48x48 52x52 24x48 26x52 24x48 26x52 24x48 26x52 24x48 26x52 24x48 26x52 24x48 26x52 24x48 26x52	64x64 64x64 64x64 24x24 24x24 23x64 32x64 12x24
IBJHMNW3	Light	Full Full	XZMbxD XZZbxD	CZJHMN	T1J300 2093 53248 16x16 T1J300 2093 2093 16x16 16x16	2093 2093 incho simula	53248 ated by Heisei	16x16 24x24 26x26 Mincho	32x32	36x36 40x40 44x44 48x48	8x48 52x52	64x64 24x24
IBJHMNW3	Light	Full Haif Haif Haif Haif	XZKbxB XZKbxF XZLbxD XZLbxD XZLbxO XZLbxO XZLbxO XZLbxU XZLbxV	CZJHMN	T10300 T10300 T10300 T1H01001 T1H01001 T1H0290 T1H00290 T1H0037 T1H01027 Korean Gc	2093 2093 1132 1187 332 332 1398 101 1398 1398	2093 53248 2093 53248 1132 1187 332 332 1398 101 1398 101 1398 101 1398 Gothic simulated by Gothic	16x16 24x24 26x26 16x16 24x24 26x26 12x24 13x26 12x24 13x26 12x24 13x26 12x24 13x26 12x24 13x26 12x24 13x26 12x24 13x26	5 32x32 36x36 5 32x32 36x36 5 16x32 18x36 5 16x32 18x36 5 16x32 18x36 5 16x32 18x36 6 16x32 18x36 6 16x32 18x36 6 16x32 18x36 6 16x32 18x36	40x40 44x44 40x40 24x44 20x40 22x44 20x40 22x44 20x40 22x44 20x40 22x44 20x40 22x44 20x40 22x44 20x40 22x44	48x48 52x52 48x48 52x52 24x48 26x52 24x48 26x52 24x48 26x52 24x48 26x52 24x48 26x52 24x48 26x52 24x48 26x52 24x48 26x52	64x64 64x64 64x64 32x64 32x64 32x64 32x64 32x64 32x64
IBHKG2W5	Medium	Full Haff Af	XZGbxK XZHbxK XZHbxK	CZHKG2	T10834 T10834 T1H00833	1010 1010 1173	53816				16x16 16x16 8x16 8x16	24x30 24x30 12x30

Table 24. DBCS Simulation Fonts (continued)

10000 44. 1								
CID file name	Weight	Width	Coded font	Character set	Code page	GCSGID	FGID	Box Size 240 pel (HxV)
					Korean Mine	cho simulat	Korean Mincho simulated by Myengjo	
IBHSM2W5	Medium	Full Full Half	XZMbxK XZMbxL XZNbxK	CZHSM2	T10834 T10834 T1H00833	1010 1010 1173	53560 24x24 32x32 30 24x24 32x32 30 12x30 16x32 16	24x24 32x32 36x36 40x40 48x48 64x64 24x24 32x32 36x36 40x40 48x48 64x64 12x30 16x32 18x36 20x40 24x48 32x64
					Simplified Chir	nese Gothic	Simplified Chinese Gothic simulated by Hei	
ILSHEIW6	Semi- bold	Full	XZGbxP	CZSHEI	T10837	1020	54565	16x16
					Simplified Chin	lese Song s	Simplified Chinese Song simulated by Song	
ILSSNGW5	Medium	Full	XZSbxP	CZSSNG	T10837	1020	54567	26x26 32x32 40x40
				F	aditional Chin	ese Gothic	Traditional Chinese Gothic simulated by Sung	
IBTSNGW3	Light	Full	XZGbxT	CZTSNG	T10835	2074	54563	16x16
					raditional Chir	nese Ming s	Traditional Chinese Ming simulated by Sung	
IBTSNGW3	Light	Full	XZMbxT	CZTSNG	T10835	2074	54563	24x24 32x32 40x40

Chapter 4. Code pages

Table 25 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 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**.

Table 25. 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

Code page ID	Description
T10834	Korean Host DBCS KS
T10835	Traditional Chinese Host DBCS
T10837	Simplified Chinese Host DBCS GB
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

Table 25. Code pages shipped with Infoprint Fonts (continued)

Code page ID	Description
T1000902	8-bit Estonia wih eurotin)
T1000903	People's Republic of China (Latin)
T1000904	Taiwan (Latin)
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

Table 25. Code pages shipped with Infoprint Fonts (continued)

Code page ID	Description
T1001123	Cyrillic, Ukraine EBCDIC
T1001124	Cyrillic, Ukraine ISO–8
T1001125	Personal Computer: Cyrillic, Ukraine
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

Table 25. Code pages shipped with Infoprint Fonts (continued)

Code page ID	Description
T1B00274	BookMaster: Belgium
T1B00275	BookMaster: Brazil
T1B00277	BookMaster: Denmark, Norway
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

Table 25. Code pages shipped with Infoprint Fonts (continued)

Code page ID	Description
T1E00813	Greece – ISO 8859-7
T1E00852	Latin2 Multilingual Personal Computer with euro
T1E00857	Latin5 Turkey Personal Computer with euro
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: JISX0213-2003 character shape
T1K834	Korean Host DBCS Full Hangul
T1K837	Simplified Chinese Host DBCS GB18030
T1L0DUMP	LCS Dump Character Set
T1L0FOLD	LCS Gothic Folded

Table 25. Code pages shipped with Infoprint Fonts (continued)

Code page ID	Description
T1L0OCRB	LCS Gothic and OCR B
T1L0OCR1	LCS OCR A
T1L0OCR2	LCS Gothic and OCR A
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

Table 25. Code pages shipped with Infoprint Fonts (continued)

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