IBM AFP Font Collection for MVS, OS/390, VM, and VSE
Program Number 5648-B33

IBM AFP Font Collection for MVS, OS/390, VM, and VSE, hereafter referred to as AFP Font Collection, provides AFP font resources for the MVS, OS/390, VM, and VSE operating systems.

**About this release of AFP Font Collection**
The previous AFP Font Collection, 5648-113, contained fonts for the MVS, OS/390, VM, and VSE operating systems and the AIX, AS/400, and OS/2 operating systems. This product has been separated into two products:

? IBM AFP Font Collection for MVS, OS/390, VM, and VSE, 5648-B33, described in this *Licensed Program* Specification, provides AFP Expanded Core, DBCS Core, and DBCS Simulation fonts for the MVS, OS/390, VM, and VSE operating systems.

? IBM AFP Font Collection for AIX, AS/400, and Windows, 5648-B45, described in Licensed Information, G544-5632, provides AFP Expanded Core, Compatibility fonts, DBCS Core, and DBCS Simulation fonts for AIX, OS/400, and Windows operating systems. It also contains SBCS and DBCS Type 1 and CID-Keyed outline fonts and Windows font utilities.

**New enhancements to this release of AFP Font Collection:**

**Euro currency symbol**: The euro currency symbol has been added to all Latin 1, Japanese, and Traditional Chinese fonts. AFP Font Collection includes new code pages and coded fonts to enable you to access the euro character.

**Thai and Lao languages support:** Complete Core Interchange font support for the Thai and Lao languages is provided in this release of AFP Font Collection.

**Note**: Please refer to *IBM Font Summary for AFP Font Collection, S544-5633*, for more information about the euro currency symbol, how to print the euro, and the Thai and Lao language support.

**IBM Expanded Core Fonts**

The IBM Expanded Core Fonts are provided with AFP Font Collection. 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 all three printer formats supported by AFP software for SBCS fonts The three formats are:

? 240-pel bounded-box raster format
? 300-pel raster format
? AFP outline format

**The Expanded Core Fonts include the following font families:**

- ✍ Boldface in Roman Bold typeface
- ✍ BookMaster Latin 1 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". 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 1 language group (ISO 8859-1) includes Danish, Dutch, English, Faeroese, Finnish, French, German, Icelandic, Irish, Italian, Norwegian, Portuguese, Spanish, and Swedish. The Latin 1 language group also provides the euro currency symbol and all Latin 9 (ISO 8859-15)  characters.

The Latin 2 language group (ISO 8859-2) includes Albanian, Czech, English, German, Hungarian, Polish, Romanian, Serbocroatian, Slovak, and Slovenian.

The Latin 3 language group (ISO 8859-3) includes Afrikaans, Catalan, Dutch, English, Esperanto, French, German, Italian, Maltese, Spanish, and Turkish.

The Latin 4 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 Latin 5 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 two formats:
240-pel bounded-box raster format
AFP outline format

DBCS Fonts are provided in the following formats:

| Table 1. Format and Operating Systems for DBCS Fonts | |
|---|---|
| **Format** | **Operating Systems** |
| 240-pel bounded-box fonts | MVS, OS/390, VSE, OS/400, AIX, Windows |
| AFP outline fonts | MVS, OS/390, VSE, 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 various typefaces suitable for printing a variety of Chinese, Japanese, and Korean documents.

**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)

**Publications**

The following publications document AFP Font Collection:
? IBM Font Summary for AFP Font Collection, S544-5633
? IBM Technical Reference for AFP Font Collection Expanded Core Fonts, S544-5228
? IBM AFP Fonts: Technical Reference for Code Pages, S544-3802
? IBM AFP Fonts: Font Samples, S544-3792
? IBM AFP Fonts: Introduction to Typography, G544-3122
? IBM Technical Reference for AFP Font Collection Japanese Fonts, S544-5685
? IBM Technical Reference for AFP Font Collection Korean Fonts, S544-5686
? IBM Technical Reference for AFP Font Collection Simplified Chinese Fonts, S544-5687
? IBM Technical Reference for AFP Font Collection Traditional Chinese Fonts, S544-5688

IBM Font Summary for AFP Font Collection is shipped with all font features.


**Specified Operating Environment**

?This product uses only existing attachment interfaces

**Software Requirements**

To use the raster and outline font functions in AFP Font Collection, one of the following IBM Print Services Facility (PSF) products is required. The fonts contained in AFP Font Collection require one of the IBM Print Services Facility products listed below:

- ✍ PSF/MVS V2.2 or later version or release (5695-040).
- ✍ PSF/VM V2.1.1 (5684-141). Download of outline fonts is not supported.
- ✍ PSF/VSE V2.2.1 (5685-040).

If outline fonts are desired, an application that makes use of them is required. IBM products that support outline fonts include:

- ✍ OGL Version 1.1 (5688-191) with APAR PN71601 (SBCS), or PN80020 (DBCS)
- ✍ PPFA Version 1.1 (5688-190) with APAR PN71525 (both SBCS and DBCS)
- ✍ DCF Version 1.4 (5648-XX9) with APAR PN69168 (SBCS only)

**Limitations**

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.

**Licensed Program Materials Availability**

Restricted materials are not applicable to fonts.

**Supplemental Terms:**

Testing Period for Basic License: 1 month.

Processor License: Location License applies.

Usage License: Not applicable.

Type/Duration of Program Services: Central Service, including the IBM Support Center, will be available until discontinued by IBM with a minimum of 6 months' written notice.

**Warranty**

This program is warranted as specified in the IBM license.

Licensed Program Specifications may be updated from time to time, and such updates may constitute a change in specifications.

Following the discontinuance of all program services, this program will be provided "As Is" as specified in the IBM license.

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| APL2 | BookMaster |
| IBM | Print Services Facility |
| PSF | S/390 |

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