
ClibPDF Library Reference Manual

CJK Font Addendum

[Manual version 2.01-Addendum; 1999-09-29]

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ClibPDF™ is a library of C functions for generating PDF files directly. This is a supplement/addendum to the **ClibPDF™** manual version 2.00, until the sections below are incorporated into the main manual.

Asian Language Font Support in Version 2.01-r1

Starting with version 2.01-r1 of ClibPDF, the library now supports creation of PDF documents containing Asian language text. In order to view and print Asian language PDF files correctly, either Asian Font Packs from Adobe Systems (available for free downloading from the Acrobat Reader download page) must be installed for Acrobat Reader 4.0, or you must have installed Acrobat 3.x or 4.x on a system with OS-supported Asian language fonts (such as Windows 95/98/NT-Japanese, -Chinese, and -Korean). These fonts are called CJK fonts which stand for Chinese, Japanese and Korean fonts. ***Note that CJK fonts are not required at all for creating PDF files containing CJK text using ClibPDF.*** This is an important distinction to make.

CJK fonts are very simple to use, and are no different from standard roman fonts from your (the programmer's) point of view. All that is needed is to specify the font name and encodings (CJK CMap names, p. 215 PDF Reference Manual v1.3). However, not all possible font encodings are currently supported yet. In particular, Unicode text is not yet supported. Also, **TextBox API functions do not support CJK fonts yet.** Do not use TextBoxes with CJK text.

```
int cpdf_setFont(CPDFdoc *pdf, const char *basefontname, const char *encodename, float size);
```

(REQUIRED)

Sets the current font specified by “**basefontname**” with character encoding specified by “**encodename**.”

For roman fonts, “**encodename**” must be one of “**MacRomanEncoding**”, “**MacExpertEncoding**”, “**WinAnsiEncoding**”, and “**NULL**”. If **NULL** is used, the font’s built-in encoding is used. Possible encodings for CJK fonts are noted further below. Font “**size**” must be given in points. For applications that require fast PDF generation and small PDF size, it is recommended that “**basefontname**” be one of 41 roman/symbol fonts or 7 CJK fonts built into ClibPDF. The following list shows these fonts (See the output PDF file generated by examples/fontlist.c for font samples):

PDF Base 14 fonts:

Helvetica	Helvetica-Bold
Helvetica-Oblique	Helvetica-BoldOblique
Times-Roman	Times-Bold
Times-Italic	Times-BoldItalic
Courier	Courier-Bold
Courier-Oblique	Courier-BoldOblique
Symbol	ZapfDingbats

Additional 25 PostScript Type 1 fonts:

AvantGarde-Book	AvantGarde-BookOblique
AvantGarde-Demi	AvantGarde-DemiOblique
Bookman-Demi	Bookman-DemiItalic
Bookman-Light	Bookman-LightItalic
Helvetica-Narrow	Helvetica-Narrow-Oblique
Helvetica-Narrow-Bold	Helvetica-Narrow-BoldOblique
NewCenturySchlbk-Roman	NewCenturySchlbk-Italic
NewCenturySchlbk-Bold	NewCenturySchlbk-BoldItalic
Palatino-Roman	Palatino-Italic
Palatino-Bold	Palatino-BoldItalic
Helvetica-Condensed	Helvetica-Condensed-Bold
Helvetica-Condensed-Oblique	Helvetica-Condensed-BoldOblique
ZapfChancery-MediumItalic	

Two additional fonts we configured by manipulating metrics/flag:

CPDF-Monospace	(Helvetica-like monospace font)
CPDF-SmallCap	(SmallCap font derived from Times-Roman)

CJK Fonts and Encodings Supported

Currently, only those encodings listed below have been tested with `cpdf_text()` and `cpdf_textAligned()` (and their "raw" equivalent). CJK encodings that use proportional character widths for the Roman chars may work for left-aligned fonts, but `cpdf_stringWidths()` and `cpdf_textAligned()` will not work correctly because the metrics information for Roman chars is not built in. Unicode is not supported yet. In addition, do not attempt to use TextBox API functions with CJK text. Also note that these names are case-sensitive, and no checking is performed on the encoding names.

Chinese (Traditional)

<i>basefont</i>	<i>encoding</i>
MHei-Medium	ETen-B5-H
MSung-Light	ETen-B5-H

Chinese (Simplified)

<i>basefont</i>	<i>encoding</i>
STSong-Light	GB-EUC-H

Japanese

<i>basefont</i>	<i>encoding</i>
HeiseiKakuGo-W5	90ms-RKSJ-H
HeiseiMin-W3	90ms-RKSJ-H

Korean

<i>basefont</i>	<i>encoding</i>
HYGoThic-Medium	KSC-EUC-H
HYSMyeongJo-Medium	KSC-EUC-H

NOTE: Each of the above CJK fonts is actually worth 4 different font styles. The base font name may be modified by an optional style specification: "**Bold**", "**Italic**", or "**BoldItalic**". For example, "**MSung-Light**" can be modified as "**MSung-Light,Bold**", "**MSung-Light,Italic**", or "**MSung-Light,BoldItalic**". Effectively, therefore, we have 28 (7 x 4) CJK fonts available for our use, in addition to the 41 Roman/symbol fonts.

Notes on Added CJK Example Programs

A. Chinese *[examples/CJK/Chinese/cn-test.c]*

B. Japanese *[examples/CJK/Japanese/jpntest.c]*
[examples/weather/weatherj.c]

The Japanese version of the same weather plot example available in English in the same directory.

C. Korean *[examples/CJK/Korean/kr-test.c]*

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