File Structure

00 7F	selection header
80 FF	master table
mt	map table
gt	glyph table

Selection Header

00	magic value \$55 ('U')
01	magic value \$38 ('8')
02	magic value \$2F ('/')
03	magic value \$4D ('M')
04	family name length
05	
	family name (null-padded)
7A	
7B	null terminator
7C	family ID (low)
7D	family ID (high)
7E	style
7F	point size

Master Table

80	glyph table offset (page address)
81	glyph table offset (bank address)
82	glyph count (low)
83	glyph count (high)
84	map table offset (page address)
85	map table offset (bank address)
86	map count (low)
87	map count (high)
88	map index for native 0x00 - 0x3F (low)
89	map index for native 0x00 - 0x3F (high)
8A	map index for native 0x40 - 0x7F (low)
8B	map index for native 0x40 - 0x7F (high)
8C	map index for native 0x80 - 0xBF (low)
8D	map index for native 0x80 - 0xBF (high)
8E	map index for native 0xC0 - 0xFF (low)
8F	map index for native 0xC0 - 0xFF (high)
90	map index for U+0000 - U+003F (low)
91	map index for U+0000 - U+003F (high)

CE map index for U+07C0 - U+07FF (low)
CF map index for U+07C0 - U+07FF (high)
D0 map index for U+0000 - U+0FFF (low)
D1 map index for U+0000 - U+0FFF (high)

EE map index for U+F000 - U+FFFF (low)

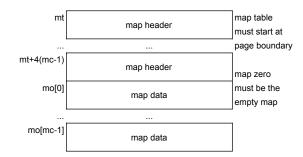
EF map index for U+F000 - U+FFFF (high)

F0 map index for U+000000-03FFFF (low)

F1 map index for U+000000-03FFFF (high)

FA map index for U+140000-17FFFF (low)
FB map index for U+140000-17FFFF (high)
FC line ascent
FD line descent
FE line gap
FF line height

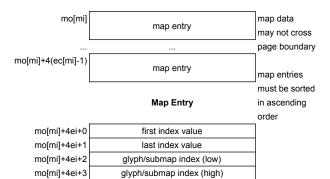
Map Table



Map Header

mt+4mi+0	map offset (byte address)
mt+4mi+1	map offset (page address low)
mt+4mi+2	map offset (page address high)
mt+4mi+3	number of entries

Map Data



Glyph Table

gt	glyph record	glyph table must start at
	***	page boundary
gt+4(gc-1)	glyph record	glyph zero
bo[0]	bitmap record	must be the notdef glyph
	•••	
bo[gc-1]	bitmap record	

Glyph Record

gt+4gi+0	bitmap offset (byte address)
gt+4gi+1	bitmap offset (page address low)
gt+4gi+2	bitmap offset (page address high)
gt+4gi+3	advance width

Bitmap Record

bo[gi]+0	y offset (signed)	bitmap record
bo[gi]+1	x offset (signed)	may not cross
bo[gi]+2	height	page boundary
bo[gi]+3	width	1
bo[gi]+4	bitmap data (max length 252 bytes)	