

68 6F 6D 6500000000000000000000000000000400000000008 F 01 EF $0001000 C 00$ OF 00 FF FF FF FF $00000 B 00$ $74300000000000000000000000000000040029000 C 00$ A1 00 7E 00 B8 00010012001600 FF FF 1B $000 C 00$ 1F 00 74310000000000000000000000000000 2D 0029009300 A1 000901 B8 00010012001600 FF FF 1B 0020003300

## Image properties data

block size $=23$ bytes
size $=$ block size x count stored in the file header at $0 \times 0020$
position in file $=$ stored in the file header at $0 \times 0030$

| Offset | Length | Example* | Description |
| :---: | :---: | :---: | :---: |
| 0x0000 | DWORD | 00000000 | ? |
| 0x0004 | BYTE | 00 | ? |
| 0x0005 | DWORD | 00000900 | relative start position of font data |
| 0x0009 | WORD | 0018 | width of image (00 18= 24 pixels) |
| 0x000B | WORD | 0018 | height of image (00 18=24 pixels) |
| 0x000D | DWORD | 00000480 | size of image data |
| 0x0011 | BYTE | 01 | ? |
| 0x0012 | DWORD | 00000480 | size of image data ? |
| 0x0016 | BYTE | 00 | ? |
| Examples |  |  |  |

0000000000000000001800180080040000018004000000
0000000000800400001800180080040000018004000000
000000000000000000 EO 01100100 FC 03000100 FC 030000

## Image data

size $=$ size of image data at image property 0x000D
position in file $=$ stored in the file header at $0 \times 0010+$ relative start position of image data at image property $0 \times 0005$
Image data is 2-bytes per pixel, RGB565 image data in little-endian byte order.

## Font properties data

block size $=27$ bytes
size $=$ block size x count stored in the file header at $0 \times 0022$
position in file $=$ stored in the file header at $0 \times 0034$

| Offset | Length | Example* | Description |
| :---: | :---: | :---: | :---: |
| 0x0000 | DWORD | 00000000 | ? |
| $0 \times 0004$ | BYTE | 00 | character set ( $00=$ English charset, $01=$ Chinese charset) |
| $0 \times 0005$ | BYTE | 20 | width of a character ( $20=32$ pixels) |
| $0 \times 0006$ | BYTE | 20 | height of a character ( $20=32$ pixels) |
| $0 \times 0007$ | WORD | 0000 | ? (for English charset 0000 , for Chinese F7 A1) |
| 0x0009 | WORD | 0000 | ? (for English charset 0000 , for Chinese FE A1) |
| $0 \times 000 \mathrm{~B}$ | DWORD | 0000005 F | number of characters in font file |
| 0x000F | WORD | 0000 | ? |
| $0 \times 0011$ | WORD | 0015 | font name length -1 |
| $0 \times 0013$ | DWORD | 000005 F5 | file size of font data |
| $0 \times 0017$ | DWORD | 00104066 | relative start position of font data |
| Examples |  |  |  |

00000000012020 A1 F7 A1 FE 5120000000000 F 009028100000000000
$00000000001020000000005 F 00000000001500$ D6 17000090281000
00000000000810000000005 F 00000000000400 F5 05000066401000

## Font data

block size = width of a character $\mathbf{x}$ ( height of a character / 8 )
size $=$ block size $x$ number of characters in font file
position in file $=$ stored in the file header at $0 \times 0014+$ relative start position of font data at font property $0 \times 0017$
Font data is 1-bit per pixel image data. Font height is always multiples of 8 pixels ( $=1$ byte).

Component attributes' index data
block size $=6$ bytes
size $=$ block size x count stored in the file header at $0 \times 0024$
position in file $=$ stored in the file header at $0 \times 0038$

| Offset | Length | Example* | Description |
| :--- | :--- | :--- | :--- |
| $0 \times 0000$ | DWORD | 00000023 | relative start position in parameter data |
| $0 \times 0004$ | WORD | 0059 | data size in bytes |

Examples
030000002000
230000005900
7C 0000003300
AF 000000 4F 00

If you have any idea about the missing fileds (marked with a red question mark), have any correction or a question please send an e-mail to uniko(at)vnet.hu

