## **BMP** Contents

The following table contains a description of the contents of the BMP file. For every field, the file offset, the length and the contents will be given. For a more detailed discussion, see the following chapters.

Offset	Field	Size	Contents	
0000h	Identifier	2 bytes	The characters identifying the bitmap. The following entries are possible:  'BM' Windows 3 by 95 NT	
			'BM' - Windows 3.1x, 95, NT, 'BA' - OS/2 Bitmap Array	
			'CI' - OS/2 Color Icon	
			'CP' - OS/2 Color Pointer	
			'IC' - OS/2 Icon	
			'PT' - OS/2 Pointer	
0002h	File Size	1 dword	Complete file size in bytes.	
0006h	Reserved	1 dword	Reserved for later use.	
000Ah	Bitmap Data Offset	1 dword	Offset from beginning of file to the beginning of the bitmap data.	
000Eh	Bitmap Header	1 dword	Length of the Bitmap Info Header used to describe the bitmap colors,	
	Size		compression, The following sizes are possible:	
			28h - Windows 3.1x, 95, NT,	
			0Ch - OS/2 1.x	
			F0h - OS/2 2.x	
0012h	Width	1 dword	Horizontal width of bitmap in pixels.	
0016h	Height	1 dword	Vertical height of bitmap in pixels.	
001Ah	Planes	1 word	Number of planes in this bitmap.	
001Ch	Bits Per Pixel	1 word	Bits per pixel used to store palette entry information. This also	
			identifies in an indirect way the number of possible colors. Possible	
			values are:	
			1 - Monochrome bitmap	
			4 - 16 color bitmap	
			8 - 256 color bitmap	
			16 - 16bit (high color) bitmap	
			24 - 24bit (true color) bitmap	
00151	<u> </u>	1 1 1	32 - 32bit (true color) bitmap	
001Eh	Compression	1 dword	Compression specifications. The following values are possible:	
			0 - none (Also identified by BI_RGB) 1 - RLE 8-bit / pixel (Also identified by BI_RLE4)	
			2 - RLE 4-bit / pixel (Also identified by BI_RLE4)	
			3 - Bitfields (Also identified by BI BITFIELDS)	
0022h	Bitmap Data	1 dword	Size of the bitmap data in bytes. This number must be rounded to the	
	Size	1 awora	next 4 byte boundary.	
0026h	HResolution	1 dword	Horizontal resolution expressed in pixel per meter.	
002Ah	VResolution	1 dword	Vertical resolution expressed in pixels per meter.	
002Eh	Colors	1 dword	Number of colors used by this bitmap. For a 8-bit / pixel bitmap this	
			will be 100h or 256.	
0032h	Important	1 dword	Number of important colors. This number will be equal to the number	
	Colors		of colors when every color is important.	
0036h	Palette	N * 4 byte	The palette specification. For every entry in the palette four bytes are	
		-	used to describe the RGB values of the color in the following way:	
			1 byte for blue component	
			1 byte for green component	
			1 byte for red component	
			1 byte filler which is set to 0 (zero)	
0436h	Bitmap Data	x bytes	Depending on the compression specifications, this field contains all the	
			bitmap data bytes which represent indices in the color palette.	

*Note:* The following sizes were used in the specification above:

Size	# bytes	Sign
char	1	signed
word	2	unsigned
dword	4	unsigned