```
// BMP-related data types based on Microsoft's own
#include <stdint.h>
// These data types are essentially aliases for C/C++ primitive data types.
// Adapted from <a href="http://msdn.microsoft.com/en-us/library">http://msdn.microsoft.com/en-us/library</a>/cc230309.aspx.
// See <a href="https://en.wikipedia.org/wiki/C">https://en.wikipedia.org/wiki/C</a> data types#stdint.h for more on stdint.h.
typedef uint8_t BYTE;
typedef uint32_t DWORD;
typedef int32_t LONG;
typedef uint16_t WORD;
// The BITMAPFILEHEADER structure contains information about the type, size,
// and layout of a file that contains a DIB [device-independent bitmap].
// Adapted from <a href="http://msdn.microsoft.com/en-us/library/dd183374(VS.85">http://msdn.microsoft.com/en-us/library/dd183374(VS.85</a>).aspx.
typedef struct
    WORD
             bfType;
    DWORD bfSize;
    WORD
             bfReserved1;
    WORD
             bfReserved2;
    DWORD bf0ffBits;
    _attribute__((__packed__))
BITMAPFILEHEADER;
// The BITMAPINFOHEADER structure contains information about the
// dimensions and color format of a DIB [device-independent bitmap].
// Adapted from <a href="http://msdn.microsoft.com/en-us/library/dd183376(VS.85">http://msdn.microsoft.com/en-us/library/dd183376(VS.85</a>).aspx.
typedef struct
     DWORD biSize;
             biWidth;
    LONG
    LONG
             biHeight;
    WORD
             biPlanes;
    WORD
             biBitCount;
    DWORD biCompression;
    DWORD biSizeImage;
             biXPelsPerMeter;
    LONG
             biYPelsPerMeter;
    LONG
    DWORD biClrUsed;
    DWORD biClrImportant;
    _attribute__((__packed__))
BITMAPINFOHEADER;
// The RGBTRIPLE structure describes a color consisting of relative intensities of
// red, green, and blue. Adapted from <a href="http://msdn.microsoft.com/en-us/library/">http://msdn.microsoft.com/en-us/library/</a>
aa922590.aspx.
typedef struct
    BYTE rgbtBlue;
    BYTE rgbtGreen;
    BYTE rgbtRed;
    _attribute__((__packed__))
RGBTRIPLE;
```