Subject: Re: StaticImage cannot show BMP file Posted by hans on Sat, 13 Sep 2014 18:18:45 GMT

View Forum Message <> Reply to Message

Hi, your struct BMP_FILEHEADER has the wrong memory layout, it must be "packed" meaning no gaps between the members.

You have:

```
struct BMP_FILEHEADER {
word bfType; 2 bytes
gap----->2 bytes
dword bfSize; 4 bytes
word bfReserved1; 2 bytes
word bfReserved2; 2 bytes
dword bfOffBits; 4 bytes
In sum 16 bytes
```

but the Microsoft spec requires that no gap between members exists (in the time defining the struct it was traded not to "waste" space often).

So it must be

```
struct BMP_FILEHEADER {
word bfType; 2 bytes
dword bfSize; 4 bytes
word bfReserved1; 2 bytes
word bfReserved2; 2 bytes
dword bfOffBits; 4 bytes
```

In sum 14 bytes

Your change to get it work (bfOffBits changing type) is not right, because you have still bfSize member at invalid memory position.

The upp code tries to get the "packed" aligment by using for Microsoft Compiler

```
#ifdef COMPILER_MSC
#pragma pack(push, 1)
#endif
or for GCC
```

#ifdef COMPILER_GCC

attribute_	_((packed))
#endif	

You can check if the right compiler #define is defined. Or your compiler ignores this directive for whatever reason.

Hope it helps.