Subject: far pascal function pointer
Posted by NilaT on Fri, 10 Jun 2016 10:08:07 GMT

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Hello everyone,

I'm having troubles getting some functions of a loaded dll.
Important notice, I still use 2010 upp sources.

So, the problem is, I load a library using LoadLibraryEx.
After that I get the function pointers using GetProcAddress.

Now, when I want to call the functions, my program crashes with a "__report_gsfailure()" message
to kernel32.dll.

Other dlls work fine, but one particular doesn't want to.
So, maybe it's because the functions in the dll are declared as "far pascal".
Here, take a look at the .h of the dll:
#ifdef __cplusplus
  extern "C" {
__declspec(dllimport) short pascal Get_Version(char *);
}
#else
extern short far pascal Get_Version(char far *);
#endif

I want to test that, but adding "far pascal" to the definition won't compile.
For example, the function:
short (*Get_Version)(char* ID_buf);

How do I add "far pascal" to it?!
Because
short far pascal (*Get_Version)(char* ID_buf);
won't work...

Maybe "far" is unnecessary, since 32 bit architecture don't need them anymore, but "pascal" could
be the reason for the errors.
Or am I missing something here?!

Any help appreciated.
Thanks in advance.

Subject: Re: far pascal function pointer
Posted by NilaT on Fri, 10 Jun 2016 11:02:58 GMT

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Whops, sorry for double posting but I just found the solution myself.

This is for everyone who may run into the same problem.
The function pointer definition must be as follow:
far short (pascal *Get_Version)(char* ID_buf);

Thanks and have a nice weekend.