Subject: Passing > 64Kb arrays to IDL DLL's Posted by smd on Mon, 24 Apr 1995 07:00:00 GMT

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Hi,

I use IDL v 3.6.1a on a PC. I would like to find out if one can pass arrays larger than 64Kbytes to DLL functions using CALL_EXTERNAL. I have been trying to pass long arrays of size > 16384 elements, which means greater than 64K bytes; so far I haven't been successful. FYI I have used huge pointers to access the array elements.

I know I can do my operations within IDL itself, but I may speed up my total execution time, if I perform some of the processing in C. Most of it involves FOR loops over images. If anybody has experience with writing DLL's for IDL, please advise me.

Thanks

Sandeep Dalal

Philips Laboratories 345, Scarborough Road, Briarcliff Manor, NY 10510

Email: smd@philabs.philips.com

Subject: Re: Passing > 64Kb arrays to IDL DLL's Posted by Gary Kushner on Tue, 02 May 1995 07:00:00 GMT View Forum Message <> Reply to Message

Karl Krieger <kak@ipp-garching.mpg.de> wrote:

> smd@philabs.philips.com (Sandeep Dalal) wrote:

- >
- >> I use IDL v 3.6.1a on a PC. I would like to find out if one can >> pass arrays larger than 64Kbytes to DLL functions using
- >> CALL_EXTERNAL. I have been trying to pass long arrays of
- >> size > 16384 elements, which means greater than 64K bytes;
- >> so far I haven't been successful. FYI I have used huge
- >> pointers to access the array elements.

>> ...

>

>> Thanks

>>

>> Sandeep Dalal

- > I still hope that I am wrong, but as far as I know, this is not
- > possible, because IDL for Windoze3.1 only supports 16bit DLLs.
- > That means that you are restricted to 64kb chunks for transferring
- > data (or pointers to data) under Win3.1. Inside your DLL you can
- > of course allocate larger arrays.
- > Apparently, the only solution at the moment is waiting for an
- > IDL version which supports 32bit DLLs using Win32s (or switching
- > to WinNT). If someone has a better idea, please post it!

>

> Karl Krieger

As far as I know, Karl is correct; 64kb is all you can pass through a windows 16bit DLL.

IDL sent me a note indicating that IDL 4.0 will run under Win32s with 16 bit Windows. Thus you can recompile your DLL for win32 and the DLL should then be able to pass >64kb chunks of data to IDL 4.0.

When I receive my copy of IDL 4.0, I will try this out with some of my code and post an update if I have a chance. We are also thinking of trying out Windows NT.

Gary Kushner University of CO. http://casa.colorado.edu/casa/kushner