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Subject: Re: C Alignment/IDL structures

Posted by [Randall Skelton](#) on Mon, 21 Mar 2005 23:03:27 GMT

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> Ok, this probably answers my question. I was hoping I could create  
> an array of structs, but this is maybe not so memory efficient so  
> I might try to create one structure with multiple arrays.

Good news Joey, you can create an array of structs in C and pass them back to IDL so you are not trying to do the impossible. I'm not entirely sure what is going wrong in the code you posted. Are you seg faulting IDL, getting garbage in the resulting array of structures or getting an undefined variable returned?

Download the code at :

<http://brutus.uwaterloo.ca/~skelton/Code/TestStruct.tar.gz>

The code assumes a \*nix operating system but modifying it to work with windows shouldn't be too difficult. The code gives two methods of creating an array of structures in C and pass them to back to IDL. The first is quite similar to what you are trying to do (uses IDL\_ImportArray) and the second handles the case where the C structure doesn't cleanly map to the new IDL structure (slightly more complicated and requires some pointer arithmetic).

Let me know if it helps.

Cheers,  
Randall

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