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Subject: Re: Using CALL\_EXTERNAL with a pointer to a pointer  
Posted by [Mark Rivers](#) on Tue, 11 Apr 2000 07:00:00 GMT  
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Harvey Rarback wrote in message  
<38F39CFF.FD15A82E@ssrl.slac.stanford.edu>...  
> Folks,

Hi Harvey,

> I would like to interface IDL to an existing C function in an existing VMS  
> shareable image. The C prototype looks like  
>  
> int ext\_camac\_canaf (camcab16r \*\*resultp)  
>  
> where camcab16r is a structure whose definition I know. Is it possible to  
use  
> the CALL\_EXTERNAL interface to access the structure members? Do I have to  
write  
> a wrapper routine in C? Use LINK\_IMAGE?

I think you need to write a wrapper routine in C. Although VMS does not  
have to use the (argc, argv) mechanism as other OS versions of IDL do, I  
don't know of a way to get IDL to pass a pointer  
to a pointer.

The only thing you have to worry about is whether IDL uses the same padding  
in the structure as the shareable image does.

Mark Rivers

argument passing mechanism to the one which the shareable image uses.

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