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Subject: Re: call\_external with PASCAL calling convention  
Posted by [Eddie Breeveld](#) on Fri, 02 Oct 1998 07:00:00 GMT  
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Oops - error in the Reply-to field of my last message, and no signature either. sorry.  
Eddie

--  
Edward Breeveld      MSSL/UCL, Holmbury St. Mary, Dorking, Surrey RH5  
6NT, UK  
e.breeveld@physics.org tel: +44 (0)1483 204178/267632 fax: +44 (0)1483  
278312

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Subject: Re: call\_external with PASCAL calling convention  
Posted by [rivers](#) on Tue, 06 Oct 1998 07:00:00 GMT  
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In article <3614D696.8B3EDE4C@mssl.ucl.ac.uk>, "E. Breeveld" <erb@mssl.ucl.ac.uk> writes:

> Any call\_external gurus out there?

>

> We have a windows DLL that interfaces with a PC card and  
> we'd like it to be incorporated (via call\_external) into IDL, but  
> can't make it work. The equivalent C program does work however!  
> We are using IDL Version 5.1 Win32 (x86) with windows 98.

...

> The test idl program is:

>

```
> card = 0b ; Byte
> basadd2 = 0 ; Int
> irq1 = 0b ; Byte
> ; test without cdecl
> result = call_external('7200.dll', 'W_7200_Initial', $
>   card, basadd2, irq1, val=[1, 0, 0])
> help, result, basadd2, irq1
> end
```

>

> The C program that works looks like:

>

```
> #include <windows.h>
> #include <stdio.h>
> #include "c:\7200\include\7200.h"
```

>

```
> unsigned char irq1;
> unsigned short base_address2;
> long status4;
```

>

```
> void main(void)
```

```
> {  
> status4 = W_7200_Initial(0, &base_address2, &irq1);  
> printf("Status= %ld\n"  
>      "Base Address= 0x%X\n"  
>      "IRQ= %d\n", status4, base_address2, irq1);  
> }
```

...

```
> We could write a C wrapper for 7200.dll, but this is messy. Is there  
> any other solution, or is there a bug in IDL with the /cdecl switch?
```

The problem here is clear: you cannot call this function `W_7200_Initial` directly from IDL because it does not use the `(argc, argv)` argument passing mechanism which IDL uses with `CALL_EXTERNAL`. You must write a wrapper routine to convert IDL's `(argc, argv)` calling convention to the parameter list your function needs.

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Mark Rivers	(773) 702-2279 (office)
CARS	(773) 702-9951 (secretary)
Univ. of Chicago	(773) 702-5454 (FAX)
5640 S. Ellis Ave.	(708) 922-0499 (home)
Chicago, IL 60637	rivers@cars.uchicago.edu (e-mail)

or:

Argonne National Laboratory	(630) 252-0422 (office)
Building 434A	(630) 252-0405 (lab)
9700 South Cass Avenue	(630) 252-1713 (beamline)
Argonne, IL 60439	(630) 252-0443 (FAX)

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