Subject: call_external with PASCAL calling convention
Posted by Eddie Breeveld on Fri, 02 Oct 1998 07:00:00 GMT
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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 IDL program runs, but returns a 'CARD NOT FOUND' error, which
probably means that the parameters supplied to the routine are
incorrect.
I think there is a problem with the 'PASCAL' type definition of the
function 'W_7200_Initial', but call_external still returns the wrong
result with or without '/cdecl'.

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);
 }
```

And the 7200.h file contains (amongst a lot of other stuff...)

```
typedef unsigned char   U8;
typedef unsigned short  U16;

 int PASCAL W_7200_Initial(U8 card_number, U16 *base_address, U8
*irq_no );
```

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?
