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:

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?