
Subject: Re: CALL_EXTERNAL puzzle (still) ?
Posted by [rmlongfield](#) on Fri, 04 Sep 1998 07:00:00 GMT
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Hi all,

In article <6smfdj\$iqk\$1@readme.uio.no>,
steinhh@ulrik.uio.no (Stein Vidar Hagfors Haugan) wrote:
>
> rmlongfield@my-dejanews.com wrote:
>
>> print,'de-referenced pointer: ',*filename
>> result = CALL_EXTERNAL(VALUE=[1B],'example_c.so','example_c', filename)
>
> Whooa - here you're sending a *pointer* to a *string* variable
> into the call_external routine - and it's definitely *not* set
> up to receive it! In fact, your routine would *only* work if
> you sent it a scalar string that is passed by *value* only.
> (E.g. a string literal)

Thanks for your comments, but ... after some additional testing, I still maintain that something is not clear about CALL_EXTERNAL. Firstly, regardless of the unconventional setup of my program, it *worked*. What bothered me was that I didn't understand why (i.e. it worked for reasons that would not be clear if one reads the code).

When I first started working with the strings, I couldn't get the value passed. Now it seems to work, see result_b below :).

However, why can't I pass a pointer? And if I want to pass a pointer, and print the value of another pointer just before the CALL_EXTERNAL, why is the wrong one passed? (See result_a). Ok, I'm neither a UNIX nor C expert (I'd like to say I'm an experienced user) and working with CALL_EXTERNAL was the first time I had to deal with argc and argv, and strings seemed to be a particular problem...Someone tells me that maybe the stdio and stdin are connected for CALL_EXTERNAL... I use PRINT statements all the time to guide my way through the operation of my code. I am also rather fond of the use of pointers. Any further comments?

Nevertheless, the filename, chosen with an IDL widget, is passed to my C programs, as was my intent. I've gotten rid of the pointer part.

Rose

```
;;; IDL CODE ;;;;;;;;;; See previous post for C code;;;;;;;;;;  
PRO example_idl  
day1 = '961081302'  
day2 = '999999999'
```

```
filename1=(PTR_NEW(STRTRIM(STRING(day1),2)))
filename2=(PTR_NEW(STRTRIM(STRING(day2),2)))

print,'de-referenced pointer: ',*filename1
result_a = CALL_EXTERNAL(VALUE=[1B],'example_c.so','example_c', filename2)

print,'de-referenced pointer: ',*filename1
; This works !!!!!!!!!!!!!
result_b = CALL_EXTERNAL(VALUE=[1B],'example_c.so','example_c', day2)

end
```

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