
Subject: Re: Fortran + IDL

Posted by [fskhk](#) on Fri, 24 Aug 2001 10:53:18 GMT

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Craig Markwardt <craigmnet@cow.physics.wisc.edu> wrote in message news:<onelq6a3c7.fsf@cow.physics.wisc.edu>...

> fskhk@puknet.puk.ac.za (Helena Kruger) writes:

>> I am working in Fortran (with a complicated program) and IDL. Up to
>> now I put the output of the fortran data in a text file, go to IDL,
>> read the text file in IDL and draw the graphs. For every small change
>> in fortran I have to go in and out the fortran program and IDL
>> program. Will it be easier and better to use ActiveX or Callable IDL
>> under Windows? How and where can I learn to make the linkage?

>

> Stein Vidar's response spawned a thought. Why aren't you using SPAWN?

> One point of any programming language is to proceduralize mundane
> tasks so you don't have to keep doing the tasks yourself.

>

> You could start with something like this:

>

> pro dofortran, array

> ;; Call fortran program

> spawn, 'runfortran', output

>

> ;; Determine number of elements in array - assume it's a 3xN array

> n = n_elements(output)

> array = fltarr(3,n)

>

> for i = 0L, n-1 do begin

> v0 = [0., 0., 0.]

> reads, output(i), v0

> array(*,i) = v0

> endfor

>

> return

> end

>

> Obviously you will have to customize for your program name and the
> number of variables, etc.

>

> Craig

I got an example of Callable IDL from internet, using the fortran program align2.f, a c-wrapper, written by Doug Loucks of RSI, in 1998 and the IDL program, called align.pro. I used these programs and tried to link them, but am still struggling. I use the following

versions of software: Visual C++ 5.0, IDL 5.2.1 and Visual Fortran Professional Edition 5.0A, working under WINDOWS.

I can compile the fortran program and the c-wrapper (Callable.c) with no problems.

I get the following error messages:

```
-----Configuration: callable - Win32
Debug-----
Linking...
LINK : warning LNK4098: defaultlib "libc.lib" conflicts with use of
other libs; use /NODEFAULTLIB:library
callable.obj : error LNK2001: unresolved external symbol
_IDL_Win32Init
callable.obj : error LNK2001: unresolved external symbol
_IDL_ExecuteStr
callable.obj : error LNK2001: unresolved external symbol
_IDL_ImportNamedArray
callable.obj : error LNK2001: unresolved external symbol _IDL_Cleanup
align2.obj : error LNK2001: unresolved external symbol
_IDL_WIN32INIT@4
align2.obj : error LNK2001: unresolved external symbol
_IDL_IMPORTNAMEDARRAY@32
align2.obj : error LNK2001: unresolved external symbol
_IDL_EXECUTESTR@8
align2.obj : error LNK2001: unresolved external symbol _IDL_CLEANUP@4
Debug/callable.exe : fatal error LNK1120: 8 unresolved externals
Error executing link.exe.
```

Is the reason that it look for the IDL32.LIB file because of the different versions of software used or maybe the path? How can I bypass this linking problem?

Helena
