
Subject: Re: Solving elliptic equation in IDL
Posted by [Mark Hadfield](#) on Thu, 28 Aug 2003 20:12:37 GMT
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Chris Dallimore wrote:

> Mark, I just saw this thread and thought I'd make a comment. I did a
> bit of interfacing between IDL and Fortran last year but I've just
> moved and my code is in transit so I don't have any examples with me.
>
> We did it a little differently but the principle was the same. The
> comment I wanted to make was that this method removes any chance of
> porting code because the "ATTRIBUTES VALUE" declaration is compiler
> and OS specific.

Yes. So is the the %VAL function used to dereference the elements of
argv (though I believe the %VAL function is more widely supported than
the ATTRIBUTES VALUE declaration).

If you want to make any sense of the argc argument you do need some way
to tell the Fortran routine that it has been passed by value. If that's
not possible on your compiler, then you can do without. Just declare
your argv array as "argv(*)". Make sure you don't go out of bounds and
don't expect argc to have a meaningful value.

On the other hand you definitely can't do without %VAL (or equivalent).
If your compiler doesn't support that you need to write your glue
routine in C.

The good news is that Fortran 2000 will standardise all this.

> Also one other thing that we found was that to link
> IDL to Compaq fortran the machine needed to have Visual C++ installed.
> I never actually tracked down what libraries were required but I
> couldn't get it to work without VC++ installed.

Hmmm. I don't have any problems there and I have never had VC++
installed on this machine.

> Did you build a dll or a dlm?

DLL.

--

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