Subject: passing an idl function to a c-code ?
Posted by simona bellavista on Thu, 06 May 2010 17:24:23 GMT

Hi,

I would like to call a c library (a sharable library .so, I work on
linux) from idl by call_external, this c-library requires a pointer to
an user-defined function.
sadly for other reasons I have already written my user-defined
function in idl. I was wondering if there is a way to pass this
function to the c-code. I guess not.
have anybody had this problem already? is there any option other than
rewriting in c the user-function?

probably it's irrelevant, but I want to make precise this c-library is
just a wrapper to a fortran subroutine.

simona

Subject: Re: passing an idl function to a c-code ?
Posted by Chris[6] on Sat, 08 May 2010 02:08:51 GMT

On May 6, 7:24 am, simona bellavista <afy...@gmail.com> wrote:
> Hi,
>
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> linux) from idl by call_external, this c-library requires a pointer to
> an user-defined function.
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> function to the c-code. I guess not.
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> rewriting in c the user-function?
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> probably it's irrelevant, but I want to make precise this c-library is
> just a wrapper to a fortran subroutine.
>
> simona

wow - so you want IDL to call a C program, which wraps to Fortran, and
which re-calls IDL?! are you sure you don't want to throw some python
in there, just to round things out :)?

chris

Subject: Re: passing an idl function to a c-code ?
Posted by simona bellavista on Mon, 10 May 2010 11:46:33 GMT

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I was trying to use the library multinest, a tool for bayesian
statistics.
It requires a user-function as input.
there are some previous posts on this group discussing this problem,
but they were quite old and unsuccessful.
I was hoping there were news about that.

anyway multinest is mpi-compatible, and into the External Development
Guide they say
you should not call an idl function in a parallel code
(and you should not use callable idl in a code called somehow by idl).
by the way I gave up and wrote a c-code.

> wow - so you want IDL to call a C program, which wraps to Fortran, and
> which re-calls IDL?! are you sure you don't want to throw some python
> in there, just to round things out :)?
>
> chris