
Subject: Re: Ploting some data during fortran code execution

Posted by [steinhh](#) on Thu, 03 Jun 1999 07:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

Oh, by the way, I thought I should mention a **very** nice way to take advantage of IDL's RPC capabilities.

I'm currently developing C programs for my PhD thesis, but I like to use IDL as a plotting program (for easy visual debugging) and as a prototyping language.

The way I do this is to use Remote Procedure Calls to send data and commands to IDL. The **really** neat thing, however, is that one idlrpc server process can be a server for more than one client simultaneously.

So what I do is to use the `idl/external/rpc/example.c` program as a command input front-end to an idlrpc process running in the background.

My C programs connect to the same process and send data and [e.g. plotting] commands. At the same time, I can use the front-end to type commands interactively. The `example.c` program is pretty "dumb" wrt. command line editing, but guess what, you can easily run it under `idl-shell` (sorry, `idlwave-shell`) in emacs, giving you all the command line editing functionality you could ever want, as well as the neat debugging/breakpoint functionality of the `idlwave` package!

I really don't know what I'd do without it!

Regards,

Stein Vidar

Subject: Re: Ploting some data during fortran code execution

Posted by [steinhh](#) on Thu, 03 Jun 1999 07:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

In article <3756640D.A277B67D@eureka.kjist.ac.kr>

Jaedeuk Lee <goodman@eureka.kjist.ac.kr> writes:

> Hi, all.

>

> I'm solving a nonlinear optimization problem.

> In my code, optimum solution is computed by iterative scheme.

> (I used L-BFGS-B routine.)

- > In this case, I want to trace the shape of solution during iteration.
- > To do that, I must plot that data during execution of executable made by
- >
- > fortran code.
- > In pv-wave, it was possible by using 'waveinit', 'wavecmd', 'waveterm'.
- > However, It looks impossible in idl, because idl don't have 'waveinit',
- > 'wavecmd', 'waveterm'.
- > Is there any method to execute idl commands in fortran program.

What's wrong with IDL_Init(), IDL_ExecuteStr() and IDL_Cleanup()?
You wouldn't expect RSI to use their competitor's name in their
own routines, would you?

Look at "Introduction to Callable IDL" and "Using Callable IDL under
Unix and VMS" in the External Development Guide (among the "Other
Online Books in the online help). There's a section on Fortran
use as well.

Regards,

Stein Vidar
