
Subject: Re: SIMULTANEOUS RUN

Posted by [robijn](#) on Thu, 07 Jul 1994 19:30:33 GMT

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

In article <2vfr1h\$idl@news.service.uci.edu>,

Victor Shvetsky (Garden) <victor@astro2.ps.uci.edu> wrote:

>
> Here is what I need:
> I have a very long deconvolution routine < about 5-10 minutes to finish>
> and during this time I want to use the xsurface routine < to rotate the image>
> right now I have something like this:
> a=widget_base()
> b=widget_base(a)
> XSURFACE is under the B base
>
> c=widget_base(a)
> DECONVOLUTION ROUTINE under c base
>
> HOW do I call xmanager so that I get DECONVOLUTION ROUTINE_event to run
> and If I choose XSURFACE button when deconvolution is running,
> I would be able to use xsurface WHILE DECON is running and NOT after.

You can't, at least not in plain IDL. What you need for that is to split the IDL process in two threads - one running the DECON and the other executing other IDL commands. This is typically handled by an operating system. On a PC running Windows 3.1 (IDL also runs on that platform) it is not possible to run two programs simultaneously, so IDL would have to provide the code to handle the time sharing between the threads. That would be quite an effort.

There is a possibility to run DECON parallel to IDL on Unix machines, but that requires that you use CALL_EXTERNAL or SPAWN. The latter is the easiest: adapt the deconvolution procedure so that it reads the input data from a file and writes the results to another file. Use SPAWN to start a second IDL session in the background. That second session only runs DECON and exits. The first IDL process then has to check periodically (widget_control, /timer) whether the file with results is complete or whether the second process is still running. If it has finished, the first IDL process reads the results and can continue.

Frank

--

/ / / Frank Robijn Internet: Robijn@Strw.LeidenUniv.NL
/ / / Sterrewacht Leiden Bitnet: Robijn@HLERUL51
/ / \ Phone (31) 71 275841 Local: Robijn@HL628
/ / \ Fax : (31) 71 275819 Snail: P.O.Box 9513, 2300 RA Leiden,
The Netherlands
