
Subject: Re: simultaneous run
Posted by [tai](#) on Tue, 05 Jul 1994 13:01:48 GMT
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Victor Shvetsky (Garden) (victor@astro2.ps.uci.edu) wrote:

```
: a=widget_base()
: b=widget_base(a, event_pro='x')
: c=widget_base(a,event_pro='y')
```

: How can one run x and y simulataneously?

I have never needed to use the event_pro keyword. Thus, I handle all events under the main base in one procedure with a single CASE statement. Here is an quick example I created using wided:

```
PRO MAIN1_Event, Event
  WIDGET_CONTROL,Event.Id,GET_UVALUE=Ev
  CASE Ev OF
    'Button': BEGIN
      Print, 'Event for Button'
    END
  ENDCASE
END
```

```
PRO test, GROUP=Group
  IF N_ELEMENTS(Group) EQ 0 THEN GROUP=0
  junk = { CW_PDMENU_S, flags:0, name:" }
  MAIN1 = WIDGET_BASE(GROUP_LEADER=Group, ROW=1, MAP=1, UVALUE='MAIN1')
  BASE2 = WIDGET_BASE(MAIN1, ROW=1, FRAME=1, MAP=1, TITLE='Base 1', $
    UVALUE='BASE2')
  BASE3 = WIDGET_BASE(MAIN1, ROW=1, FRAME=1, MAP=1, UVALUE='BASE3')
  BUTTON4 = WIDGET_BUTTON( BASE3, UVALUE='Button', VALUE='Button')
  WIDGET_CONTROL, MAIN1, /REALIZE
  XMANAGER, 'MAIN1', MAIN1
END
```

Alan

Subject: Re: simultaneous run
Posted by [8015](#) on Tue, 05 Jul 1994 16:46:46 GMT
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In article <2vavun\$3d8@news.service.uci.edu>,
Victor Shvetsky (Garden) <victor@astro2.ps.uci.edu> wrote:
> For example:
...

> a=widget_base()
> b=widget_base(a, event_pro='x')
> c=widget_base(a,event_pro='y')
>
> How can one run x and y simulataneously?
> And if iyt impossible, then what would you do in order to make 2
> programs run simulataneously with XMANAGER, because xmanager, 'x',b
> and xmanager,'y',c does not work
> Thanks!!!!!!!!!!!!

I believe the answer centers around the use of the timer keyword to Widget_Base, but I don't have enough experience with using timer (read as "damn near none") to help beyond that. This would allow b and c run as background tasks to the base, a.

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Subject: SIMULTANEOUS RUN
Posted by [victor](#) on Thu, 07 Jul 1994 02:58:57 GMT
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I want to thank everyone who replied to my posting; however, unfortunately, it was not able to run TWO events simultaneously, .
sorry for miscommunication.

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.
Thanks!

Subject: Re: SIMULTANEOUS RUN
Posted by [stl](#) on Thu, 07 Jul 1994 11:19:04 GMT
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In article <2vfr1h\$idl@news.service.uci.edu> victor@astro2.ps.uci.edu (Victor Shvetsky (Garden)) writes:

```
>
> 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.
```

Hi,

okay, well, if you are using xmanager (which you should be) you will set up an event handler for your program something like the following:

```
xmanager,'your_program',a
then in your event handler called: your_program_event.pro you parse for
what event occurred, from say your two buttons. I believe once one is
started from within the event handler, you can hit the other button, and
even though the other one is not done yet, the new event will trigger
new code to start (while the other is still running) You should not
need to use the TIMER event stuff because it doesn't sound like your
code is time specific, you just want it to run more or less in parallel.
```

hope this helps a little. if not, let me know and we can mail back and forth about this.

good luck,

-stephen

--

```
Stephen C Strebel          /    SKI TO DIE
strebel@sma.ch             /    and
Swiss Meteorological Institute, Zuerich / LIVE TO TELL ABOUT IT
01 256 93 85               / (and pray for snow)
```

Subject: Re: SIMULTANEOUS RUN

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

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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()
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> 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

--

```

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