Subject: Re: continuous update of plot
Posted by Tim Patterson on Mon, 02 Jun 1997 07:00:00 GMT
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A quick test is to use the spawn command to list the file, =

save the returned data, and then next time around the loop, you can do
the same and see if the returned string has changed.

A nasty mix of IDL and pseudocde comments might make it clearer...

; do some processing

; write out your data file 'myfile.dat'

; get a check string for use later

spawn, 'ls -l myfile.dat', returned_data

while data_to_process do begin   ; just start some sort of loop

; do some more processing

; now check file to see if it's changed

spawn, 'ls -l myfile.dat', =

if returned_data2(0) NE returned_data(0) THEN BEGIN ; file date changed!

returned_data =3D returned_data2
=

        ; display your new data
end if

endwhile

This depends on the fact that returned_data contains the normal
"ls -l" listing which will have a different date/time and maybe size
each time the file is changed. It's very unix dependent though, but
might be a quick solution, if not the cleanest.

Tim

=C3=E9=FE=F1=E3=EF=F2 =C2=E5=F4=EF=FD=EB=E7=F2 wrote:
> =

> Hello,
> =

> suppose I have a simulation that every so often writes out a 2d array.
> Is there a way for idl to detect that the file has changed, and
> replot or display the new data?
> This would be under unix (digital and/or sparc) with the data
> being produced by fortran.
> =

> I suppose that even a delay loop would serve, in the sense that
> it would redisplay the file every, say, 10 sec irrespectively of
> whether it changed or not. But this sounds wasteful.
> =

> Any ideas?
> =

> Thanks a lot!
> =

> =

> --
> Georgios Vetoulis, Institute for Plasma Research
> University of Maryland at College Park

Subject: Re: continuous update of plot
Posted by David Foster on Tue, 03 Jun 1997 07:00:00 GMT
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Tim Patterson wrote:
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If you do not want to have to be in a loop when the plot gets
updated, you could do what Tim suggests but use timer events
so that the file is "polled" every N seconds, and the plot updated
accordingly. This way, you could have the plot updated while you are
doing other useful things with your program.

dave
--

~~~~~~ ~~~~~~~
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La Jolla, CA 92037
~~~~~~ ~~~~~~~

"I have this theory that if we're told we're bad,
then that's the only idea we'll ever have.
But maybe if we are surrounded in beauty,
someday we will become what we see." - Jewel Kilcher

Subject: Re: continuous update of plot
Posted by rivers on Wed, 04 Jun 1997 07:00:00 GMT
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In article <slrn5p63uq.q12.vetoulis@dyson.umd.edu>, vetoulis@dyson.umd.edu

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The simplest way is to just spawn 'ls -l filename' periodically to see if the file has changed.

IDL> spawn, 'ls -l chart1.ps', result
IDL> print, result
-rw-r--r-- 1 epics epics 163527 Jan 11 12:29 chart1.ps
IDL> print, strmid(result, 41, 12)
Jan 11 12:29

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Subject: Re: continuous update of plot
Posted by R. Bauer on Wed, 04 Jun 1997 07:00:00 GMT
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=C3=E9=FE=F1=E3=EF=F2 =C2=E5=F4=EF=FD=EB=E7=F2 wrote:
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> =

Yes,

I think you can use fstat or spawn,'ls',result to detect if the file is new.
If it is new you can use:

resolve_routine,'plscript' =

a =3D execute('plscript') =

resolve_routine will compile the procedure plscript and the following function will execute it.

plscript will be the routine which reads the data and will produce the plot.

R.Bauer

-- =

R.Bauer =

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Forschungszentrum Juelich
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