Subject: Re: Problems with long IDL background jobs Posted by wmconnolley on Thu, 06 Nov 2003 17:05:24 GMT

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J.K. <ellips@yahoo.com> wrote:

> idl \$1 >& log.\$1 &

Possibly replace with:

(idl \$1 > & log.\$1 &) &

that leaves the inner process more disconnected.

-W.

--

William M Connolley | wmc@bas.ac.uk | http://www.antarctica.ac.uk/met/wmc/ Climate Modeller, British Antarctic Survey | Disclaimer: I speak for myself I'm a .signature virus! copy me into your .signature file & help me spread!

Subject: Re: Problems with long IDL background jobs Posted by R.Bauer on Thu, 06 Nov 2003 17:11:11 GMT

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Hi

I know this problem too. My solution is to start the session without the X-Server. If I did only a ssh -C then it works while ssh -XC doesn't.

If you have only a terminal connection then nothing which requires X is started. I think the problem belongs more to the OS or user environment as to idl.

regards Reimar

J.K. wrote:

- > I have some processing that takes about 12hrs so
- > I'd like to run this in the background. I'm on
- > IRIX. It must be something simple that I'm doing
- > wrong. After I log out and close my X11 connections,
- > I'll get a message in my log file:

>

```
XIO: fatal IO error 131 (Connection reset by peer) on X server "xxxxxxxx:0.0"
      after 116 requests (116 known processed) with 0 events remaining.
>
>
   Am I not redirecting standard out properly?
   Below is what I'm doing. Any help appreciated.
>
   idlstartbg.pro startup file, I only set the path, no device commands.
>
   !PATH=!PATH+":~/idl:~/wave/wvproc:~/wave/fermi98
>
  runidl batch file:
>
> #!/bin/csh
> setenv IDL_STARTUP idlstartbg.pro
> idl $1 >& log.$1 &
>
> runback.pro
> .run sdsnan
> exit
>
> sdsnan.pro is a main
> filelist = strarr(600)
> openr, unit, "list",/get_lun
> i = -1
> fn = ' '
> while (not eof(unit)) do begin
> i = i + 1
> readf, unit, fn
> filelist(i) = fn
> print, i,filelist(i)
> endwhile
> close, unit
> ; do lots of other stuff with some print statments
> end
>
   How I execute:
>
   nohup runidl runback >& out &
>
>
   exit (close X window)
>
>
>
   Produces:
>
   out: empty
>
   log.runback has standard out but also the X11 message and job does not
>
            complete.
>
>
   What am I doing wrong?
>
   If I change all print to printf in sdsnan.pro to write to a file it
>
   works but why can't I capture the standard out?
>
```

Thanks, John K. Reimar Bauer Institut fuer Stratosphaerische Chemie (ICG-I) Forschungszentrum Juelich email: R.Bauer@fz-juelich.de a IDL library at ForschungsZentrum Juelich http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html _____

Subject: Re: Problems with long IDL background jobs Posted by Craig Markwardt on Fri, 07 Nov 2003 05:32:11 GMT View Forum Message <> Reply to Message

Reimar Bauer <R.Bauer@fz-juelich.de> writes:

- > Hi
- > I know this problem too. My solution is to start the session without the
- > X-Server. If I did only a ssh -C then it works while ssh -XC doesn't.

- > If you have only a terminal connection then nothing which requires X is
- > started. I think the problem belongs more to the OS or user environment
- > as to idl.

And, why not SET_PLOT, 'NULL' or SET_PLOT, 'Z' to *really* prevent IDL from doing anything with X?

Craig

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@REMOVEcow.physics.wisc.edu Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

Subject: Re: Problems with long IDL background jobs Posted by Nigel Wade on Fri, 07 Nov 2003 09:52:45 GMT View Forum Message <> Reply to Message

J.K. wrote:

- > I have some processing that takes about 12hrs so
- > I'd like to run this in the background. I'm on
- > IRIX. It must be something simple that I'm doing
- > wrong. After I log out and close my X11 connections,
- I'll get a message in my log file:

XIO: fatal IO error 131 (Connection reset by peer) on X server "xxxxxxxx:0.0" after 116 requests (116 known processed) with 0 events remaining. >

- Am I not redirecting standard out properly?
- Below is what I'm doing. Any help appreciated.

No, that's the X client (IDL) complaing it's lost its connection to the X server.

```
>
   idlstartbg.pro startup file, I only set the path, no device commands.
   !PATH=!PATH+":~/idl:~/wave/wvproc:~/wave/fermi98
> runidl batch file:
> #!/bin/csh
> setenv IDL_STARTUP idlstartbg.pro
  idl $1 >& log.$1 &
>
> runback.pro
  .run sdsnan
   exit
>
> sdsnan.pro is a main
> filelist = strarr(600)
> openr, unit, "list",/get_lun
> i = -1
> fn = ' '
> while (not eof(unit)) do begin
> i = i + 1
> readf, unit, fn
  filelist(i) = fn
   print, i,filelist(i)
> endwhile
> close, unit
> ; do lots of other stuff with some print statments
> end
>
   How I execute:
>
   nohup runidl runback >& out &
>
>
   exit (close X window)
```

>

>

> Produces:

- > out: empty
- > log.runback has standard out but also the X11 message and job does not

> complete.

>

- > What am I doing wrong?
- > If I change all print to printf in sdsnan.pro to write to a file it
- > works but why can't I capture the standard out?

>

- > Thanks,
- > John K.

Does your IDL code do any plotting? I didn't think IDL actually opened any connection to the X server unless you issued a command which initiates graphics.

Anyway, try issuing the command 'unset DISPLAY' before running IDL (assuming you are using sh/ksh). And, for good measure, in IDL use the command SET_PLOT,'PS' to change the default display device to PostScript.

--

Nigel Wade, System Administrator, Space Plasma Physics Group,

University of Leicester, Leicester, LE1 7RH, UK

E-mail: nmw@ion.le.ac.uk

Phone: +44 (0)116 2523548, Fax: +44 (0)116 2523555

Subject: Re: Problems with long IDL background jobs Posted by R.G. Stockwell on Fri, 07 Nov 2003 20:01:40 GMT View Forum Message <> Reply to Message

"Nigel Wade" <nmw@ion.le.ac.uk> wrote in message news:bofq1e\$t73\$1@south.jnrs.ja.net...

>

- > Does your IDL code do any plotting? I didn't think IDL actually opened any
- > connection to the X server unless you issued a command which initiates graphics.

>

As a guess, perhaps you have some commands in your startup that initiate the X server connection.

I don't know if the following commands do this: device,true=24; i do not think i need this device,retain = 2 device,decomposed=0

Subject: Re: Problems with long IDL background jobs Posted by R.Bauer on Sun, 09 Nov 2003 09:56:13 GMT

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Craig Markwardt wrote:

```
> Reimar Bauer <R.Bauer@fz-juelich.de> writes:
>> Hi
>>
>> I know this problem too. My solution is to start the session without the
>> X-Server. If I did only a ssh -C then it works while ssh -XC doesn't.
>>
>> If you have only a terminal connection then nothing which requires X is
>> started. I think the problem belongs more to the OS or user environment
>> as to idl.
>
> And, why not SET_PLOT, 'NULL' or SET_PLOT, 'Z' to *really* prevent IDL
> from doing anything with X?
>
> Craig
```

Most time you are right but what is if you don't like to change your normal startup file.

The problem is e.g. device, decompose=0 or a window command and so on.

Reimar

Forschungszentrum Juelich email: R.Bauer@fz-juelich.de http://www.fz-juelich.de/icg/icg-i/

a IDL library at ForschungsZentrum Juelich http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html

Subject: Re: Problems with long IDL background jobs Posted by Nigel Wade on Mon, 10 Nov 2003 09:37:44 GMT View Forum Message <> Reply to Message

R.G. Stockwell wrote: > "Nigel Wade" <nmw@ion.le.ac.uk> wrote in message > news:bofq1e\$t73\$1@south.jnrs.ja.net... > > >> Does your IDL code do any plotting? I didn't think IDL actually opened any >> connection to the X server unless you issued a command which initiates > graphics. > > > > As a guess, perhaps you have some commands in your startup > that initiate the X server connection. > I don't know if the following commands do this: > device,true=24; i do not think i need this > device, retain = 2 > device,decomposed=0 > > Cheers, > bob > >

I think that any DEVICE command has the potential to open a graphics channel as it may well need it to perform the requested operation. For example, a device,true=24 will almost certainly do so as it's requesting a 24bit TrueColor visual from the X server and will need to communicate with the X server to do so. I think retain=2 will also, as it's asking for use of the X servers backing store.

--

>

Nigel Wade, System Administrator, Space Plasma Physics Group, University of Leicester, Leicester, LE1 7RH, UK

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Phone: +44 (0)116 2523548, Fax: +44 (0)116 2523555