Subject: Re: Running IDL from cron
Posted by R.Bauer on Fri, 23 Feb 2001 07:34:02 GMT
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"Liam E. Gumley" wrote:

Dear Liam,

write_png instead of write_gif ...

cheers

Reimar

>
> Gwyn Fireman wrote:
>> How do you run IDL routines from cron - while maintaining IDL_PATH and
>> other environment variables?
>>
>> I have had no trouble running my idl routines using batch or at, when
>> starting in the same directory as the main-level routine. In that case
>> my environment is copied to the spawned process.
>>
>> Now I have the need to run these from cron. I have been able to write
>> scripts to cd to the appropriate directory and to run my .cshrc (where
>> my IDL_PATH and other environment variables are defined), but keep
>> running into problems. The latest is than .cshrc bombs on a
>> system-level env that apparently isn't defined when running from cron.
>
> Craig has given you a good start in a previous post. The other item
> which often causes problems when running IDL via cron is that you can't
> use graphics windows (unless you are prepared to leave a login session
> running all the time).
>
> The solution is to use the Z-buffer, which allows you to emulate the
> functionality of an 8-bit graphics window. Let's say you want to call
> this procedure (myplot.pro):
>
> ;---
> PRO MYPLOT, X
> plot, x
> END
> ;---
>
> You'll need an IDL script which sets up the Z-buffer, calls the
> procedure, and saves the resulting image (script.pro):
>
> ;---

```
> ;- Set up Z buffer for 8-bit graphics
> set_plot, 'Z'
> device, z_buffering=0, set_resolution=[640, 480], $
>   set_colors=256, set_character_size=[10, 12]
>
> ;- Run my plotting procedure
> myplot, findgen(10)
>
> ;- Save the result to a GIF file
> tvlct, r, g, b, /get
> write_gif, 'myplot.gif', tvrd(), r, g, b
 write_png, 'myplot.png', tvrd(), r, g, b
>
> ;- Exit IDL
> exit
> ;---
>
> Finally, you need a shell script to configure and run IDL (script.csh):
>
> #---
> #!/bin/csh
> cd $HOME/myplot
> source /usr/local/rsi/idl/bin/idl_setup
> setenv IDL_PATH ${IDL_PATH}:+\${IDL_DIR}/user_contrib/jhu_apl
> setenv IDL_STARTUP
> idl script.pro >& script.out
> #---
>
> Make sure the shell script has execute permission, and you're done. Test
> the script to make sure it works:
>
> % ./script.csh
>
> and you should get the following output in script.out:
>
> IDL Version 5.3 (IRIX mipseb). (c) 1999, Research Systems, Inc.
> Installation number: 13221.
> Licensed for use by: Space Science & Engineering Cntr, Univ of WI
>
> % Compiled module: MYPLOT.
> % Compiled module: WRITE_GIF.
> % Loaded DLM: GIF.
>
> Cheers,
> Liam.
> http://cimss.ssec.wisc.edu/~gumley/
```

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==
a IDL library at ForschungsZentrum Jï¿½lich
 http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml

http://www.fz-juelich.de/zb/text/publikation/juel3786.html