
Subject: Re: Using IDL shell in crontab

Posted by [Vince Hradil](#) on Sat, 24 Nov 2007 17:25:43 GMT

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On Nov 24, 7:07 am, Bearstone <bearst...@gmail.com> wrote:

> I tried hard to get the answer on the web, but I got no clue.
>
> My problem is really simple.
>
> I draw simple figures with IDL code and it work without any problem.
>
> I use simple shell file like
>
> idl << EOF
> .run 1122.pro
> .run 1122-arsl.pro
> .run 1122size.pro
> EOF
>
> when I run it manually, it has no problem
>
> But when I put the shell file in crontab - because I have to draw
> figure every 10 minures- it doesn't work at all
>
> Crontab setting is like below
> */10 7-20 * * * /bin/csh /data1/kimws/skyrad/Seoul/POM01MKII/1122one-
> mk2.csh > /data1/kimws/skyrad/mk2.out
>
> If I just run manually on prompt like
> [arsl]/data1/kimws/skyrad/Seoul/POM01MKII{442}/data1/kimws/s kyrad/
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> It works good.
> It's doesn't work only when it is in crontab.
>
> Other shell files that doesn't contain any IDL code work without any
> problem.
>
> How can I solve this problem? T.T

Is it

1- a license issue?

2- an X issue?

Those would be my first guesses.

Subject: Re: Using IDL shell in crontab
Posted by [rkombiyil](#) on Sun, 25 Nov 2007 04:45:52 GMT
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On Nov 24, 10:07 pm, Bearstone <bearst...@gmail.com> wrote:

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Hello there,

Usually, cron invokes the command from the user's HOME directory with the shell, (/usr/bin/sh). A minimal default environment for every shell is supplied, which defines:

```
HOME=YOUR HOME DIR  
LOGNAME=YOUR USERID  
PATH=/usr/bin:/usr/sbin:.  
SHELL=/usr/bin/sh
```

If you need different ones you need to specify at the beginning of your cronjob file. For example I wrote a small script called hello.sh

```
-----<begin script>-----
```

```
#!/bin/bash
# You can see from line #1 that I use bash, you can replace with
#this --->#!/bin/csh in your script
echo Hello World
```

```
-----<end script>-----
```

So I edited crontab with `crontab -e` and added these lines to the cronjob. I guess your problem will be solved with this one line given below.

```
SHELL=/bin/bash
*/1 12-13 25 11 0 /bin/bash /home/hello.sh >~/hello.txt
```

and it works and writes "Hello world" to hello.txt "every minute" without any problem. So your problem narrows down to "telling cron what shell to use explicitly".

Good luck,

~rk

Subject: Re: Using IDL shell in crontab

Posted by [Anthony\[1\]](#) on Sun, 25 Nov 2007 21:26:17 GMT

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On Nov 24, 1:07 pm, Bearstone <bearst...@gmail.com> wrote:

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Try giving the full path for idl, e.g.,

/local/bin/idl <<EOF

That's worked for me in the past.

Anthony

Subject: Re: Using IDL shell in crontab

Posted by [rkombiyil](#) on Mon, 26 Nov 2007 03:36:37 GMT

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On Nov 26, 6:26 am, Anthony <anthonymsmit...@gmail.com> wrote:

> On Nov 24, 1:07 pm, Bearstone <bearst...@gmail.com> wrote:

>

>

>

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>
> Anthony

Hmm, I agree with Anthony. I didnt test IDL when I posted earlier, but in my experiance usually, if the script doesn't work when executed as cronjob (but otherwise does), then the cron environment needs to be checked. After I saw this reply, I wrote a 2 line idl program to plot some random data every 2 minutes and gave the full path to IDL (/usr/local/bin/idl) and it worked, but strange, in this case, it didn't require the explicit definition of shell variable in crontab? It will come to me, but not now, heh! Anyway, thanks.

Subject: Re: Using IDL shell in crontab
Posted by [Bearstone](#) on Mon, 26 Nov 2007 05:50:26 GMT
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> local/bin/idl) and it worked, but strange, in this case, it didn't
> require the explicit definition of shell variable in crontab? It will
>
```

Appreciate for your help.
I put full path of idl. like
/usr/local/rsi/idl_6.3/bin/idl << EOF

and I put 2> option to see error message
2> /data1/kimws/skyrad/error.out

error message is below

```
% Compiled module: $MAIN$.
% DEVICE: Unable to connect to X Windows display: :0.0
% DEVICE: Unable to open X Windows display.
    Is your DISPLAY environment variable set correctly?
% Execution halted at: $MAIN$      1
    /data1/kimws/skyrad/Seoul/POM01MKII/work/1122.pro
```

1122.pro is a program that draw a figure and save as .png file.

Subject: Re: Using IDL shell in crontab
Posted by [Bearstone](#) on Mon, 26 Nov 2007 09:01:30 GMT
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> /data1/kimws/skyrad/Seoul/POM01MKII/work/1122.pro
>

>

I almost solve the problem using z-buffer.
Thank you everyone ^^
