
Subject: Re: Capturing screen output

Posted by [Liam E. Gumley](#) on Tue, 20 Nov 2001 22:21:56 GMT

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David Shadovitz wrote:

```
>
> I'm running IDL 5.4 on a Sun.
>
> I've got a file, cpsub1, which looks like this:
>
> $ cat cpsub1
> echo "computePPP, /batch, inputfile='abc.hdf'" | idl
>
> If I run it by simply typing cpsub1 at the command line, all of the IDL
> messages and PRINT statement outputs are sent to the screen:
>
> $ cpsub1
> % Compiled module: MODULE1
> % Compiled module: MODULE2
> % Compiled module: MODULE3
> Entered main routine...
> Computing the power...
> Done.
> $
>
> I'd like to capture that information in a log file, so I tried
> redirecting standard output, like this:
>
> $ cat cpsub2
> echo "computePPP, /batch, inputfile='abc.hdf'" | idl > cplog2
>
> $ cpsub2
> % Compiled module: MODULE1
> % Compiled module: MODULE2
> % Compiled module: MODULE3
> $
>
> As you can see, now only the IDL messages are written to the screen.
> But the PRINT statement outputs aren't sent to the log file! Upon
> completion, cplog2 is a 0-byte file.
>
> Then I tried redirecting both standard output and standard error:
>
> $ cat cpsub3
> echo "computePPP, /batch, inputfile='abc.hdf'" | idl > cplog3 2>&1
> $ cpsub3
> $
>
```

> Now nothing is written to the screen. But neither is it going to the
> log file! Upon completion, cplog3 is a 0-byte file.
>
> Can anyone help me capture the IDL messages and the PRINT statement
> output into a file? I'm running my code in this odd manner because
> ultimately I want to run the job in batch mode via 'ssub'.

David,

The following method works for me (I normally use the C shell):

```
#---cut here---
```

```
#!/bin/csh -f
```

```
# Sample script to execute IDL in batch mode
```

```
# Create IDL run script
```

```
echo "print, 'Hello world'" > runidl
```

```
echo "exit" >> runidl
```

```
# Run IDL
```

```
/usr/local/bin/idl runidl >& runidl.out
```

```
#---cut here---
```

You may need to adjust the last line if IDL is installed in a non-default directory.

Cheers,

Liam.

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<http://www.gumley.com/>

Subject: Re: Capturing screen output

Posted by [David Shadovitz](#) on Mon, 26 Nov 2001 17:54:06 GMT

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Liam,

Thanks for that. But I cannot even get that far! If I just make a simple file containing IDL commands, it runs fine unless I try to redirect its output. When I redirect its output, the output file is empty. Here's what I mean:

```
$ cat runidl
```

```
print, 'Hello world'
```

```
exit
```

```
$ idl runidl
IDL Version 5.4 (sunos sparc). (c) 2000, Research Systems, Inc.
Hello world
```

```
$ idl runidl > runidl.out
IDL Version 5.4 (sunos sparc). (c) 2000, Research Systems, Inc.
```

```
$ cat runidl.out
$
```

Any ideas?
-David

"Liam E. Gumley" wrote:

```
> David Shadovitz wrote:
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>>
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>> % Compiled module: MODULE1
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>> Done.
>> $
>>
>> I'd like to capture that information in a log file, so I tried
>> redirecting standard output, like this:
>>
>> $ cat cpsub2
>> echo "computePPP, /batch, inputfile='abc.hdf'" | idl > cplog2
>>
>> $ cpsub2
>> % Compiled module: MODULE1
>> % Compiled module: MODULE2
>> % Compiled module: MODULE3
>> $
>>
```

>> As you can see, now only the IDL messages are written to the screen.
>> But the PRINT statement outputs aren't sent to the log file! Upon
>> completion, cplog2 is a 0-byte file.
>>
>> Then I tried redirecting both standard output and standard error:
>>
>> \$ cat cpsub3
>> echo "computePPP, /batch, inputfile='abc.hdf'" | idl > cplog3 2>&1
>> \$ cpsub3
>> \$
>>
>> Now nothing is written to the screen. But neither is it going to the
>> log file! Upon completion, cplog3 is a 0-byte file.
>>
>> Can anyone help me capture the IDL messages and the PRINT statement
>> output into a file? I'm running my code in this odd manner because
>> ultimately I want to run the job in batch mode via 'ssub'.
>
> David,
>
> The following method works for me (I normally use the C shell):
>
> #---cut here---
> #!/bin/csh -f
>
> # Sample script to execute IDL in batch mode
>
> # Create IDL run script
> echo "print, 'Hello world'" > runidl
> echo "exit" >> runidl
>
> # Run IDL
> /usr/local/bin/idl runidl >& runidl.out
> #---cut here---
>
> You may need to adjust the last line if IDL is installed in a
> non-default directory.
>
> Cheers,
> Liam.
> Practical IDL Programming
> <http://www.gumley.com/>

Subject: Re: Capturing screen output
Posted by [Ken Mankoff](#) on Mon, 26 Nov 2001 18:40:31 GMT
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Hi David, Liam

Liam: Are you using IDL 5.4?

I noticed this change when I switched to v5.4, both on a Linux and Sun system. I wonder if RSI changed stderr/stdout or something like that. All my atjobs stopped sending me output. I ran the commands interactively and all appeared normal. However, I cannot get the redirect command to work in v5.4. Makes debugging harder...

Not even a 'printf, -2, "Hello World"' works!

David, my solution was this: If the output is **not** critical, then debug by starting IDL and typing:

```
IDL> @filename
```

where 'filename' will be used like this:

```
% idl < filename >& output.txt
```

If output is important for more than debugging, I do the following:

```
IDL> mail, 'me@some.com you@dot.com', 'me', 'a message', important_output
```

```
PRO mail, to, from, subj, mesg
```

```
unique = STRTRIM( STRING( LONG( systime( 1 ) ) ), 2 ) + '.email'
```

```
openw, lun, unique, /get
```

```
printf, lun, "To: " + to ; To, From, Subject necessary for sendmail
```

```
printf, lun, "From: " + from
```

```
printf, lun, "Subject: " + subj
```

```
printf, lun, mesg
```

```
close, lun
```

```
sendCmd = 'sendmail -t < ' + unique
```

```
spawn, sendCmd, /sh
```

```
cleanCmd = 'rm ' + unique
```

```
spawn, cleanCmd, /sh
```

```
END
```

hope this helps, and please let us know if you get non-interactive output captured!

-k.

On Mon, 26 Nov 2001, David Shadovitz wrote:

> Liam,

>

> Thanks for that. But I cannot even get that far! If I just make a simple

> file containing IDL commands, it runs fine unless I try to redirect its

> output. When I redirect its output, the output file is empty. Here's what I

```

> mean:
>
> $ cat runidl
> print, 'Hello world'
> exit
>
> $ idl runidl
> IDL Version 5.4 (sunos sparc). (c) 2000, Research Systems, Inc.
> Hello world
>
> $ idl runidl > runidl.out
> IDL Version 5.4 (sunos sparc). (c) 2000, Research Systems, Inc.
>
> $ cat runidl.out
> $
>
> Any ideas?
> -David
>
> "Liam E. Gumley" wrote:
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>> David Shadovitz wrote:
>>>
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>>> redirecting standard output, like this:
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>>> $ cat cpsub2
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>>>

```

```

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>>> % Compiled module: MODULE2
>>> % Compiled module: MODULE3
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>>> $ cpsub3
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>> echo "print, 'Hello world'" > runidl
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>> # Run IDL
>> /usr/local/bin/idl runidl >& runidl.out
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>> You may need to adjust the last line if IDL is installed in a
>> non-default directory.
>>
>> Cheers,
>> Liam.
>> Practical IDL Programming
>> http://www.gumley.com/

```

>
>
>

--

Ken Mankoff
LASP://303.492.3264
<http://lasp.colorado.edu/~mankoff/>

Subject: Re: Capturing screen output
Posted by [Liam E. Gumley](#) on Mon, 26 Nov 2001 18:49:49 GMT
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David Shadovitz wrote:

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> Liam,
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> Hello world
>
> \$ idl runidl > runidl.out
> IDL Version 5.4 (sunos sparc). (c) 2000, Research Systems, Inc.
>
> \$ cat runidl.out
> \$
>
> Any ideas?

David,

Your example works fine for me in Solaris 7 with IDL 5.3:

```
$ cat runidl  
print, 'Hello world'  
exit
```

```
$ idl runidl  
IDL Version 5.3 (sunos sparc). (c) 1999, Research Systems, Inc.
```

```
Hello world
```

```
$ idl runidl > runidl.out  
IDL Version 5.3 (sunos sparc). (c) 1999, Research Systems, Inc.
```

```
$ cat runidl.out  
Hello world
```

This might be a platform specific bug in IDL 5.4 on Solaris. You might want to check with RSI tech support.

Cheers,
Liam.
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