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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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:
>>
>> 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.
> 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, mesq
 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, mesq
 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:
>
>> 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.
>> Practical IDL Programming
>> http://www.gumley.com/
```

http://lasp.colorado.edu/~mankoff/

Subject: Re: Capturing screen output Posted by Liam E. Gumley on Mon, 26 Nov 2001 18:49:49 GMT View Forum Message <> Reply to Message

```
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,
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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