Subject: Re: overwrite output to screen; unix vs windows Posted by David Fanning on Wed, 27 Jun 2012 00:23:30 GMT

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jdeast@gmail.com writes:

```
> I'd like to print a status that runs inside a for loop and gets overwritten after each iteration, so as
not to flood the screen. In unix, you can do it like this:
> (unix, good)
IDL> for i=1, 5 do print, i, format='("' + string(13b) + ",i3,"% complete",$)' & print, "
   5% complete
>
> which prints " 1% complete", the "string(13b)" is a carriage return, but the "$" tells it to continue
on the same line, so it is promptly overwritten by " 2% complete" and so on until it finishes at "
5% complete", all on the same line. The final print, " is outside the loop and just resets the IDL
prompt when it's done. In this simple example, it happens so fast you only see the final output.
> However, the same line, executed in windows, prints it on 5 separate lines:
>
  (windows, bad):
> IDL> for i=1, 100 do print, i, format='("' + string(13b) + '",i3,"% complete",$)' & print, "
>
    1% complete
>
   2% complete
   3% complete
>
   4% complete
   5% complete
> Is there a way to get the unix behavior in windows?
Ronn Kling's progress bar is a corker. I love it!
 http://kilvarock.com/widgets.htm
Cheers.
David
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")
```

Subject: Re: overwrite output to screen; unix vs windows Posted by jdeast on Wed, 27 Jun 2012 15:37:07 GMT

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Hmmm... that looks like swatting a mosquito with an a-bomb. Surely there's a simpler way, like my working unix example?

Subject: Re: overwrite output to screen; unix vs windows Posted by cgguido on Wed, 27 Jun 2012 15:49:12 GMT

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http://astro.berkeley.edu/~johnjohn/idl.html#COUNTER

For people who don't like A-bombs.

On Wednesday, June 27, 2012 10:37:07 AM UTC-5, jde...@gmail.com wrote:

> Hmmm... that looks like swatting a mosquito with an a-bomb. Surely there's a simpler way, like my working unix example?

Subject: Re: overwrite output to screen; unix vs windows Posted by David Fanning on Wed, 27 Jun 2012 16:03:54 GMT View Forum Message <> Reply to Message

jdeast@gmail.com writes:

> Hmmm... that looks like swatting a mosquito with an a-bomb. Surely there's a simpler way, like my working unix example?

Really!? It's three lines of uncomplicated code, compared to one line of really complicated code. Seems a good trade-off to me. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.idlcoyote.com/

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: overwrite output to screen; unix vs windows Posted by lecacheux.alain on Wed, 27 Jun 2012 16:32:01 GMT

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```
On 27 juin, 01:00, jde...@gmail.com wrote:
```

```
> I'd like to print a status that runs inside a for loop and gets overwritten after each iteration, so as
not to flood the screen. In unix, you can do it like this:
>
```

```
> (unix, good)
> IDL> for i=1, 5 do print, i, format='("' + string(13b) + ",i3,"% complete",$)' & print, "
   5% complete
```

> which prints " 1% complete", the "string(13b)" is a carriage return, but the "\$" tells it to continue on the same line, so it is promptly overwritten by " 2% complete" and so on until it finishes at " 5% complete", all on the same line. The final print, " is outside the loop and just resets the IDL prompt when it's done. In this simple example, it happens so fast you only see the final output.

```
>
> However, the same line, executed in windows, prints it on 5 separate lines:
>
> (windows, bad):
```

> IDL> for i=1, 100 do print, i, format='("' + string(13b) + '",i3,"% complete",\$)' & print, "

```
>
   1% complete
>
   2% complete
```

3% complete 4% complete >

5% complete >

> Is there a way to get the unix behavior in windows?

```
>
> Thanks,
> Jason
```

You can use a combination of T and \$ formats: IDL> print,indgen(10),FORMAT='(10(T1,i4,\$))' & print 9

alx.

>

>

Subject: Re: overwrite output to screen; unix vs windows Posted by ideast on Wed, 27 Jun 2012 16:59:20 GMT View Forum Message <> Reply to Message

Thanks for your help everyone.

- @David: I just looked at the 12 files and the widgets and it seemed like too much. Did I miss something? Are there 3 lines I can extract from those codes that do this in the terminal? This is just a minor annoyance for a minority of users, and not worth requiring an additional library and adding a GUI to my otherwise command-line only code.
- @Gianguido: that routine has the same problem as mine. Works in unix, not in Windows.
- @alx: can that be broken up into separate commands which get executed at each cycle in a for loop?

I tried

print, 0, format='(t1,i4,\$)' & print, 1, format='(t1,i4,\$)' & print

but that doesn't work in unix or windows. This:

print, 0, format='(t1,i4,\$,"' + string(13b) + '")' & print, 1, format='(t1,i4,\$)' & print

works in unix, but not windows.

Thanks, Jason

Subject: Re: overwrite output to screen; unix vs windows Posted by David Fanning on Wed, 27 Jun 2012 17:18:12 GMT View Forum Message <> Reply to Message

jdeast@gmail.com writes:

> @David: I just looked at the 12 files and the widgets and it seemed like too much. Did I miss something? Are there 3 lines I can extract from those codes that do this in the terminal? This is just a minor annoyance for a minority of users, and not worth requiring an additional library and adding a GUI to my otherwise command-line only code.

Windows users don't understand command line code. You might as well give them something they are used to.

Otherwise, you are going to face support nightmares. :-)

Cheers,

David

David Fanning, Ph.D. Fanning Software Consulting, Inc. Coyote's Guide to IDL Programming: http://www.idlcoyote.com/ Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: overwrite output to screen; unix vs windows Posted by David Fanning on Wed, 27 Jun 2012 17:52:47 GMT

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jdeast@gmail.com writes:

> @David: I just looked at the 12 files and the widgets and it seemed like too much. Did I miss something? Are there 3 lines I can extract from those codes that do this in the terminal? This is just a minor annoyance for a minority of users, and not worth requiring an additional library and adding a GUI to my otherwise command-line only code.

I've never looked at that zip file, but all you need is the one progress bar file. All the others are test programs.

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Covote's Guide to IDL Programming

Coyote's Guide to IDL Programming: http://www.idlcoyote.com/

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: overwrite output to screen; unix vs windows Posted by jdeast on Wed, 27 Jun 2012 19:27:45 GMT

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I think you're all too right that supporting windows is not a path I want to go too far down. I was just hoping there was a simple fix. Instead, I've kludged it so it limits the number of prints if !version.os_family eq 'Windows'.

Thanks for your help, Jason

On Wednesday, June 27, 2012 10:52:47 AM UTC-7, David Fanning wrote:

> jdeast@gmail.com writes:

>

>> @David: I just looked at the 12 files and the widgets and it seemed like too much. Did I miss

something? Are there 3 lines I can extract from those codes that do this in the terminal? This is just a minor annoyance for a minority of users, and not worth requiring an additional library and adding a GUI to my otherwise command-line only code.

```
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Cheers,
David
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")
```

Subject: Re: overwrite output to screen; unix vs windows Posted by lecacheux.alain on Wed, 27 Jun 2012 22:21:08 GMT View Forum Message <> Reply to Message

```
On 27 juin, 18:59, jde...@gmail.com wrote:
```

> Thanks for your help everyone.

>

>

> @David: I just looked at the 12 files and the widgets and it seemed like too much. Did I miss something? Are there 3 lines I can extract from those codes that do this in the terminal? This is just a minor annoyance for a minority of users, and not worth requiring an additional library and adding a GUI to my otherwise command-line only code.

> @Gianguido: that routine has the same problem as mine. Works in unix, not in Windows.

> @alx: can that be broken up into separate commands which get executed at each cycle in a for loop?

```
> I tried
> print, 0, format='(t1,i4,$)' & print, 1, format='(t1,i4,$)' & print
> but that doesn't work in unix or windows. This:
> print, 0, format='(t1,i4,$,"' + string(13b) + '")' & print, 1, format='(t1,i4,$)' & print
> works in unix, but not windows.
```

- > Thanks,
- > Jason

>

>

I am not aware of "overwrite" format in IDL FORTRAN formats. But you might achieve your goal by mixing with IDL C-style formats. For instance, doing the following code in a Windows command window, I can overwrite on a same output line all the 11 numbers, one per second.

IDL> .run

- for i=0,10 do begin
- print,i,FORMAT='(%"\b%d",\$)'
- wait,1
- endfor
- print
- end

% Compiled module: \$MAIN\$.

10

IDL>

%" ... " are delimiters for C-style format; \b is the escape code for backspace.

Please refer to the documentation.

alain.

Subject: Re: overwrite output to screen; unix vs windows Posted by jdeast on Sat, 30 Jun 2012 21:50:34 GMT

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Excellent, thanks! It doesn't work from the IDLDE interface in windows, but I'll take it.

(Sorry for the late reply, I had given up.)

Jason

On Wednesday, June 27, 2012 3:21:08 PM UTC-7, alx wrote:

- > On 27 juin, 18:59, jde...@gmail.com wrote:
- >> Thanks for your help everyone.

>>

>> @David: I just looked at the 12 files and the widgets and it seemed like too much. Did I miss something? Are there 3 lines I can extract from those codes that do this in the terminal? This is just a minor annoyance for a minority of users, and not worth requiring an additional library and adding a GUI to my otherwise command-line only code.

>>

```
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>>
>> but that doesn't work in unix or windows. This:
>>
>> print, 0, format='(t1,i4,$,"' + string(13b) + '")' & print, 1, format='(t1,i4,$)' & print
>>
>> works in unix, but not windows.
>>
>> Thanks,
>> Jason
>>
>>
> I am not aware of "overwrite" format in IDL FORTRAN formats.
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>
> IDL> .run
> - for i=0,10 do begin
> - print,i,FORMAT='(%"\b%d",$)'
> - wait.1
> - endfor
> - print
> - end
> % Compiled module: $MAIN$.
> 10
> IDL>
> %" ... " are delimiters for C-style format; \b is the escape code for
> backspace.
> Please refer to the documentation.
>
> alain.
```