Subject: Re: Overwriting printings
Posted by promashkin on Thu, 22 Jun 2000 07:00:00 GMT
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Paul van Delst wrote:

snip-snip

> I absolutely agree with the original posters comment about code
> slow-down vs. psychological benefits. It's like getting stuck in the
> subway with no info about why..... yoicks.

A lot more productive would be to put in an audible end-of-loop alert,
switch to your web browser and, while IDL is crunching, to check for the
best and latest on http://www.dfanning.com :-)

Cheers,
Pavel

Subject: Re: Overwriting printings
Posted by John-David T. Smith on Thu, 22 Jun 2000 07:00:00 GMT
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Simon de Vet wrote:
>
> I've been playing around with a montecarlo simulation. Since it is very
> boring to watch the program to do nothing while calculating 1000000
> iterations, I have it outputing the current result, which I can watch
> stream by. While the program is probably slowed down by this output, the
> psychological effect more than compensates for it.
>
> However, with 1000000 iterations come 1000000 lines of screen output,
> which is a little ackward.
>
> Is there a way to get IDL to overwrite the previous print output, rather
> than starting a new line? I'm running IDL in Linux..
>
> Simon

There's always David's even fancier progress meter at
http://www.dfanning.com/programs/showprogress__define.pro, or the similar one I
posted a year ago. Both are pretty easy to use. I think an update every 10s
or so should appease most psyche's.

JD

Subject: Re: Overwriting printings
Posted by Paul van Delst on Thu, 22 Jun 2000 07:00:00 GMT
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dominik@astro.uva.nl wrote:
>
> In article <395214A5.BA0D21B1@mathstat.dal.ca>,
> simon@mathstat.dal.ca wrote:
>
>> Is there a way to get IDL to overwrite the previous print output,
>> ratherthan starting a new line? I'm running IDL in Linux..
>
> the `$' format character disables the automatic newline,
> the character control-k kill the current output line.
> Use something like this:
>
> for i=1,1000 do begin
> print,format='(A,A,$)',string(13b),string(i)
> endfor
> print,'' ; terminate the current line
>

I do this sort of thing by printing out the backspace character (8B) however many times I need to overwrite the last output. This way, my line title doesn't get smushed. In the following snippet, the XXXX, XXX of XXX... gets overwritten with the current numbers, but the line title "Transforming....blah blah" does not:

```
bksp = MAKE_ARRAY( 20, VALUE = 8B )
PRINT, FORMAT = '( /5x, "Transforming IFG for AIRS channel:", /, "XXXX,
XXX of XXX....", $ )'

begin_channel = 0
end_channel   = n_channels - 1

FOR i = begin_channel, end_channel DO BEGIN

  PRINT, FORMAT = '( a, i4, ", ", i3, " of ", i3, "....", $ )', $
                 STRING( bksp ), analysis[ i ].channel, i + 1,
n_channels
```

(I'm sure your news reader will truncate the lines at 80 cols, dammit)

I absolutely agree with the original posters comment about code slow-down vs. psychological benefits. It's like getting stuck in the subway with no info about why..... yoicks.

paulv
--

Paul van Delst Ph: (301) 763-8000 x7274
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Rm.202, 5200 Auth Rd. Email: pvandelst@ncep.noaa.gov
Camp Springs MD 20746

Subject: Re: Overwriting printings
Posted by Simon de Vet on Thu, 22 Jun 2000 07:00:00 GMT
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Craig Markwardt wrote:

>
> Since you are on Unix, you can try STATUSLINE, available from my web
> page. It does exactly this sort of thing.
>
> http://cow.physics.wisc.edu/~craigm/idl/idl.html (under Misc)
>
> If the output truly dominates the processing speed then of course you
> could only output every 10th or 100th iteration. You're still not
> missing much if there are 10^6 iterations.

Output certainly does dominate the speed.

At 10000 iterations, printing every line takes 2m49s, overwriting each line
takes 1m05s, and printing nothing takes 0m20s.

I think your script will be worth looking at :)

Simon

Subject: Re: Overwriting printings
Posted by Craig Markwardt on Thu, 22 Jun 2000 07:00:00 GMT
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Simon de Vet <simon@mathstat.dal.ca> writes:

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Craig

--

---------- ----------
Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
---------- ----------

Subject: Re: Overwriting printings
Posted by dominik on Thu, 22 Jun 2000 07:00:00 GMT
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In article <395214A5.BA0D21B1@mathstat.dal.ca>,
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```

-Carsten

Subject: Re: Overwriting printings
Posted by Paul van Delst on Fri, 23 Jun 2000 07:00:00 GMT
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Pavel Romashkin wrote:
>
> Paul van Delst wrote:
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> switch to your web browser and, while IDL is crunching, to check for the
> best and latest on http://www.dfanning.com :-)

No no no... while IDL is crunching on my prototype software, I would be implementing the same in Fortran-90 for production run where
speed is really needed. :o)

I've shifted from "Use IDL for everything" mode to "Use IDL for testing mode" simply because everyone here has a Fortran compiler,
but very few people have an IDL license. I have found my IDL experience very handy now that Fortran-90/95 has array based syntax and
luckily there is enough highly robust freeware out there that replicates most of the IDL mathematical functionality. For displaying
the results, though, IDL can't be beat.

paulv
--
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