Subject: Print format question for the Experts

Posted by jmcfee on Thu, 02 Aug 2001 18:51:16 GMT

I have a question which I think should have a simple answer. Being a master of kludging code for physics problems, it's not surprising that I haven't been able to figure it out. I'm hoping the experts in this group can.

I am using IDL to read records one at a time from a file and I want to print out a message that each record was successfully read, i.e., I would print something like the following for record 5:

Record number 5 out of 1500

Because I can have several thousand records in a run, I do not want to have a flowing list like:

```
...
Record number 1034 out of 1500
Record number 1035 out of 1500
Record number 1036 out of 1500
...etc.
```

but instead just want one line where the record number increments, i.e.,

Record number n out of 1500 [where n changes at the same spot]

To do that I tried the following code:

```
i=0
print, format='($,"Record number ",t19,i6,t27,"out of " , t28,i6)',i+1,max_rec
for i=0,max_rec-1 do begin
   read_a_record_function
   print, format='($,tl42,i6)', i+1
endfor
```

What I get is something like:

Record number 1 out of 1500 2 3 4 5 6 7 8 9 10 11 13 14
    15....etc.

In other words, the $ format character supresses the new line, but each new print sets the next line's "left-right" pointer at the right edge of the previous printed line.

I've tried the t format char as well as the tl character with no more luck.

Does anybody know how to do this?

Thanks

John McFee

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Subject: Re: Print format question -> DEcTerm Title utility
Posted by Andrew Cool on Fri, 03 Aug 2001 03:47:21 GMT
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John McFee wrote:

>
> Because I can have several thousand records in a run, I do not want to have a
> flowing list like:
>
> ...
> Record number 1034 out of 1500
> Record number 1035 out of 1500
> Record number 1036 out of 1500
> ...etc.
>
> but instead just want one line where the record number increments, i.e.,
>
> Record number n out of 1500 [where n changes at the same spot]

For VMS users,

 This ancient utility to change the title of VMS DECTerms and
 optionally the associated Icon labels may be of interest as an
 alternative to print statements to the Output log, or even
 a widget progress-meter-thingy.

 There's an overhead of course, and for large loops it would
 be prudent to call the routine every nth iteration or so.

Note that a string array applied to the Icon produces multiple
lined labels.

This works nicely under OVMS 7.3

Cheers,

Andrew

```
;+
;1 DECTERM_TITLE
;
;  Write out supplied string/array to either DecTerm title window
;  or the DecTerm's Icon.
;
;  Calling with no title parameter resets the window/icon title
;  to the title as it existed when the IDL session was started up.
;
;  If a string array is passed to the ICON label, Line feeds (LF) will
be
;  inserted automatically to create a multiple line icon. There is a
limit
;  of about 50-60 characters all up for multiple line icons, including 1
LF
;  character per line.
;
;  If a string array is passed to the DecTerm title, a single blank
space
;  is inserted between array elements.
;
;  Examples :
;
;    Insert new title : DECTERM_TITLE,'Executing Test.exe'
;         DECTERM_TITLE,'Test.exe',/ICON
;         DECTERM_TITLE,/ICON,['This','is a','test']
;
;    Reset to previous title : DECTERM_TITLE
;             DECTERM_TITLE,/ICON
;
; Format:
;    IDL> DECTERM_TITLE [,title,/ICON]
;
;
;2 Amendments
; 23-Aug-93  Andrew COOL    1.00    Baseline.
;
;
```

```
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;
;-

PRO Decterm_Title, title, ICON = icon

  IF N_ELEMENTS(title) EQ 0 THEN title = ''

;... Define <ESC> sequence characters

  osc = STRING(157B)
  st  = STRING(156B)

;... If writing to ICON, then set lf to LINE FEED, else set to blank pad

  IF KEYWORD_SET(icon) NE 0 THEN BEGIN
   lf  = STRING(10B)
  ENDIF ELSE BEGIN
   lf  = ' '
  ENDELSE

;... If title is an array, then concatenate elements and add LF's

  IF N_ELEMENTS(title) GT 1 THEN BEGIN
   tmp = title(0) + lf
   FOR i = 1,N_ELEMENTS(title)-1 DO BEGIN
    tmp = tmp + title(i) + lf
   END
   title = tmp
  ENDIF

  IF KEYWORD_SET(icon) NE 0 THEN BEGIN
   cmd = osc + '2L;' + title + st
  ENDIF ELSE BEGIN
   cmd = osc + '21;' + title + st
  ENDELSE

;... Just writing this to the screen affects either the DecTerm title
;... or the icon

  PRINT,cmd

END
```

```
-------------------------------------------------------------- ---------
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