
Subject: Re: READ issue

Posted by [Vince Hradil](#) on Fri, 23 Feb 2007 17:31:15 GMT

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On Feb 23, 11:06 am, l...@lbnc.de wrote:

> Hi there,
>
> I created a game using IDL. The idea is that a horse runs along and as
> fences come up, the user has to press "enter" for the horse to jump
> over it. The program advances the fence up to the point where it is
> directly in front of the horse. Then the READ procedure is used to wait
> for the user input. Once that is entered the horse runs along until
> the next fence comes up.
> However, if I press enter *before* the READ procedure is called, the
> keyboard input is (apparently) kept in the buffer and directly passed
> to the READ routine once it is *is* called. This is clearly biasing the
> time of the run. Is there a way to avoid this?
>
> If that all does not make much sense, do the following:
> 1) save the attached source on your computer
> 2) start IDL, make sure you are using the command line version, not
> the IDE
> 3) compile it and run it with the "test" keyword set, i.e.:
> Go > .r the_race
> IDL: Compiled module: THE_RACE.
> Go > the_race, /test
> |||||
> |||||
> |||||
> Go >
> Now adjust the size of the shell window so that you can only see the
> i's and the command input (40x4 characters). Then type "the_race".
> 4) Enjoy!
>
> I have only tested this under UNIX, I do not know if it'll work under
> WINDOWS. It does not work in the IDE because the output window does
> not use a fixed width font.
>
> Also, it would be nice to code this using the "backspace" character,
> i.e. overwriting previously written output. In order to achieve this,
> one needs to "undo" newlines. Is this possible? I tried around a
> little and apparently it is not?
>
> Cheers,
> Lasse
>
> Here's the source:
> pro the_race, test=test, fences=fences

```

>
> length = 40
> dist = 20
> h_offset = 15
> h_len = 8
> dummy_input = "
> started = 0
> if not(keyword_set(fences)) then fences = 8
>
> horse = make_array(3, 4, /string, value=' ')
>
> horse[0,0] = '   _ '
> horse[1,0] = ' ===/ '
> horse[2,0] = ' _/___\__ '
>
> horse[0,1] = '   _ '
> horse[1,1] = ' ===/ '
> horse[2,1] = ' __\_/___ '
>
> horse[0,2] = '   _ '
> horse[1,2] = ' __===/ __ '
> horse[2,2] = ' _____ '
>
> horse[0,3] = '   _ '
> horse[1,3] = ' ===/ '
> horse[2,3] = ' __|__|__ '
>
> if keyword_set(test) then begin
>   print, strjoin(replicate('i', length),")
>   print, strjoin(replicate('i', length),")
>   print, strjoin(replicate('i', length),")
>   return
> endif
>
> world = make_array(3,length, /string, value=' ')
> world[2,0:length-2] = '_'
> world[2,length-1] = '|'
> act_fence = 1
>
> top_str = strjoin(reform(world[0,*]), ")
> mid_str = strjoin(reform(world[1,*]), ")
> bas_str = strjoin(reform(world[2,*]), ")
>
> hip = 0
> dist_count = dist
>
> while started lt 3 do begin
>

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> world[0,h_offset:h_offset+h_len-1] = strmid(horse[0,3],
> indgen(h_len), 1)
> world[1,h_offset:h_offset+h_len-1] = strmid(horse[1,3],
> indgen(h_len), 1)
> world[2,h_offset:h_offset+h_len-1] = strmid(horse[2,3],
> indgen(h_len), 1)
>
> if started eq 0 then begin
>   sstr = 'Ready... '
> endif else if started eq 1 then begin
>   sstr = 'Steady...'
> endif else if started eq 2 then begin
>   sstr = 'Go!      '
> endif
> world[0,2:2+strlen(ssstr)-1] = strmid(ssstr, indgen(strlen(ssstr)),
> 1)
>
> top_str = strjoin(reform(world[0,*]), " ")
> mid_str = strjoin(reform(world[1,*]), " ")
> bas_str = strjoin(reform(world[2,*]), " ")
>
> print, top_str
> print, mid_str
> print, bas_str
> print, " ", format='(a,$)'
>
> if started eq 2 then break
> wait, randomu(systime)*3
>
> started = started+1
>
> endwhile
>
> stime = systime(/seconds)
> atime = systime(/seconds)
> while act_fence le fences do begin
>
>   ; print time
>   etime = atime-stime
>   etime_str = string(etime, format='(F7.3)')
>   world[0,length-7:length-1] = strmid(etime_str, indgen(7), 1)
>
>   ; find fences
>   bas_bak = strjoin(reform(world[2,*]), " ")
>   npos = -1
>   pos = 0
>   pos = strpos(bas_bak, '|')
>   while pos ne -1 do begin

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>     if npos[0] eq -1 then $
>         npos = pos $
>     else $
>         npos = [npos, pos]
>         pos = strpos(bas_bak, '|', pos+1)
> endwhile
>
>     sinds = where(npos ge h_offset+1 and npos lt h_offset+h_len-2)
>     if sinds[0] ne -1 then hip=2
>     if hip eq 2 and sinds[0] eq -1 then hip=0
>
>     world[0,h_offset:h_offset+h_len-1] = strmid(horse[0,hip],
> indgen(h_len), 1)
>     world[1,h_offset:h_offset+h_len-1] = strmid(horse[1,hip],
> indgen(h_len), 1)
>     world[2,h_offset:h_offset+h_len-1] = strmid(horse[2,hip],
> indgen(h_len), 1)
>
> ; replace fences
> if npos[0] ne -1 then begin
>     for i=0, n_elements(npos)-1 do begin
>         world[2, npos] = '|'
>     endfor
> endif
>
> top_str = strjoin(reform(world[0,*]), "")
> mid_str = strjoin(reform(world[1,*]), "")
> bas_str = strjoin(reform(world[2,*]), "")
>
> print, top_str
> print, mid_str
> print, bas_str
>
> oinds = where(npos eq h_offset+h_len-2)
> if oinds[0] ne -1 then begin
>     read, "", dummy_input
> endif else $
>     print, "", format='(a,$)'
>
> ; move the world!
> world[2,*] = shift(world[2,*], -1)
>
> ; fill up end
> dist_count = dist_count - 1
> if dist_count eq 0 then begin
>     world[2,length-1] = '|'
>     act_fence = act_fence + 1
>     dist_count = dist

```

```
>     if act_fence eq fences then begin
>         dist_count = dist-2
>         world[2,length-1] = 'G'
>     endif
> endif else begin
>     world[2,length-1] = ' _ '
> endelse
> ; change horse
> if hip eq 0 then hip=1 else hip=0
> atime = systime(/seconds)
> wait, .1
> endwhile
>
> end
```

Have you looked at using GET_KBRD?
