

Posted by [lasse](#) on Fri, 23 Feb 2007 17:06:50 GMT

Hi there.

However, if I press enter **before** the READ procedure is called, the keyboard input is (aparently) kept in the buffer and directly passed to the READ routine once **is** called. This is clearly biasing the time of the run. Is there a way to avoid this?

- 1) save the attached source on your computer
- 2) start IDL, make sure you are using the command line version, not the IDE

Go > .r the race

IDL: Compiled module: THE_RACE.

Go > the race, /test

Age Group	Number of People
0-10	10
11-20	20
21-30	40
31-40	30
41-50	20
51-60	10
61-70	5
71-80	2
81-90	1
91-100	1

|||||

|||||

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

```

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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

```

```

    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
```
