Subject: Re: Strange behavior of function READ in a loop.
Posted by ben.bighair on Tue, 25 Sep 2012 17:46:27 GMT
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On Tuesday, September 25, 2012 1:10:45 PM UTC-4, Gerry Yu wrote:
> Hello everyone:
>
>   I got a strange output with the function READ in a loop.
>
> A simplified example is as below:
>
> _____
>
> pro test
>
> print, "This is the first line.", format="(A30/)"
>
> for i=1,3 do begin
>
>   read, a ,PROMPT="input:"
>
>   print, i,": input is ",a
>
> endfor
>
> end
>
> _____
>
> The expected output should be something like:
>
> _____
>
> This is the first line.
>
> input:1
>
>   1: input is 1.0000
>
> input:2
>
>   2: input is 2.0000
>
> input:3
>
>   3: input is 3.0000
>
> _____

>
> But what I get is (with IDL 7.1.1 on Win 7):
>
> _____
>
> input:1
>
> This is the first line.
>
> input:2
>
>
>
>   1: input is   1.00000
>
> input:3
>
>   2: input is   2.00000
>
>   3: input is   3.00000
>
> _____
>
> I am really confused by such a result.
>
> Do someone know what happens here?
>
>

Hi,

I don't have IDL hand test this out, but this looks like a buffering issue. Could you try adding the FLUSH command to your routine.

http://idlastro.gsfc.nasa.gov/idl_html_help/FLUSH.html

I think the command line is unit -1.

```
pro test
print, "This is the first line.", format="(A30/)"
for i=1,3 do begin
   read, a ,PROMPT="input:"
   print, i,": input is ",a
   flush, -1
endfor
end
```

Cheers,

Ben