

<allan.rem...@phys.remove.strath.ac.remove.uk> wrote:

> kiwing...@gmail.com wrote:

>> I am not sure if the EOF() function in IDL version newer than 5.2

>> really has some problem or some setting has to be adjusted.

>

>> I just want to read data from the stdin and automatically stop at

>> the end-of-file. The following codes work for version 5.2 but not

>> for version 6.0 nor version 7.0.

>

>> Just want to know if anyway around it ?

>

>> #####

>> ;--- test\_eof.pro -----

>> pro test\_eof

>> a=float(1)

>> while noteof(0) do begin

>> read, a

>> print, a

>> endwhile

>> end

>> ;---- end of 'test\_eof.pro' ----

>

>> #####

>> ;---- test\_eof.idl -----

>> .compile test\_eof

>> .run test\_eof

>> exit

>> ;---- end of 'test\_eof.idl' -----

>> #####

>

>> When I ran it using "idl test\_eof.idl"

>> I got error at the end of my input.

>

>> ##### #

>> IDL Version 7.0 (linux x86 m32). (c) 2007, ITT Visual Information

>> Solutions

>> Installation number: 60188.

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>

>> % Compiled module: \$MAIN\$.

>> % Compiled module: \$MAIN\$.

>> : 1

>> 1.00000

```

>> : 2
>> 2.00000
>> : ^D
>> % READ: Error encountered reading from file. Unit: 0
>> File: <stdin>
>> % Execution halted at: $MAIN$ 3 /home/ericto/test_eof.pro
>> #####
>
> You can't check foreof(0) when you're giving input from the keyboard.
>
> It can't know what you're going to type next so it returns a 0 and then
> control passes to your "read, a" statement which subsequently fails when
> you pass it anEOFcharacter. Theeoffunction never gets to see that
> you typed Ctrl-D.
>
> If you read from a file like this:
>
> idl test_eof.idl < file.dat
>
> then all will be well.
>
> I don't know why it worked on IDL5.2 - I can only find versions 5.1 and
> 5.3 (typical!) and in both of them I see the same behaviour.
>
> Maybe in IDL5.2 theEOFfunction detected it was attached to a keyboard
> and blocked until it got another byte from the keyboard? It seems
> unlikely but I think that's the only way the above example would have
> worked in 5.2.
>
> Thanks,
>
> Allan

```

Dear Allan,

Thanks for your information. I tried your suggestion :

```
idl test_eof.idl < datafile
```

and it works in version 5.2 as well as version 7.0

However, when it is used as filter, like the following command :

```
cat datafile | idl test_eof.idl
```

it only works in version 5.2 but not in version 7.0.

some error reported :

% READ: End of file encountered. Unit: 0, File: <stdin>  
% Execution halted at: \$MAIN\$

Any comments and suggestions are welcomed.

Thanks again.

```
;---- file : test_eof.idl ----  
while not eof(0) do begin & read, a & print, a & endwhile  
exit  
;---- end of test_eof.idl ----
```

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