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Subject: Re: Problem reading data from stdin using EOF(0) in version 6.0 and 7.0  
Posted by [Wout De Nolf](#) on Mon, 22 Dec 2008 08:32:40 GMT  
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On Sun, 21 Dec 2008 03:48:31 -0800 (PST), "kiwing.to@gmail.com"  
<kiwing.to@gmail.com> wrote:

```
> % 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
> #####
```

I works for me (IDL7.0 Windows x86\_64), except for the fact that there is no way of stopping the loop. Does it always happen after the third line and what was the character you used (^D)?

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Subject: Re: Problem reading data from stdin using EOF(0) in version 6.0 and 7.0  
Posted by [Allan Whiteford](#) on Mon, 22 Dec 2008 15:52:45 GMT  
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kiwing.to@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 not eof(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.
> Licensed for use by: Academia Sinica
>
> % 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 for eof(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 an EOF character. The eof function 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 the EOF function 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

---

Subject: Re: Problem reading data from stdin using EOF(0) in version 6.0 and 7.0  
Posted by [kiwing.to@gmail.com](mailto:kiwing.to@gmail.com) on Wed, 24 Dec 2008 08:15:48 GMT  
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<allan.rem...@phys.remove.strath.ac.remove.uk> wrote:

> kiwing...@gmail.com wrote:

>> I am not sure if theEOF() 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.
>> Licensed for use by: Academia Sinica
>
>> % 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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