Subject: Newbie IDI question
Posted by John[1] on Thu, 13 Dec 2001 04:47:20 GMT
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can someone tell me as to from where I can download IDL
if it is freely available?
thanks
John

Subject: Re: Newbie IDL question
Posted by JD Smith on Mon, 08 Jan 2007 23:48:14 GMT
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On Mon, 08 Jan 2007 15:40:55 -0800, tony.ohagan wrote:

> I new to IDL but have lots of experience in other programming languages.
>
> It appears that all nested control statements IF/CASE/WHILE etc force me
> to
> suffix every line with & $ to avoid syntax errors. Is there any way of
> ridding myself of this pain?
>
> Example:
>
> name = 'Larry'
> CASE name OF & $
>   'Larry': PRINT, 'Stooge 1' & $
>   'Moe': PRINT, 'Stooge 2' & $
>   'Curly': PRINT, 'Stooge 3' & $
> ELSE: PRINT, 'Not a Stooge' & $
> ENDCASE

Do you mean from the command line? Put them in a file foo.pro sans & $
and:

IDL> .run foo

JD

Subject: Re: Newbie IDL question
Posted by Braedley on Tue, 09 Jan 2007 04:04:57 GMT
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JD Smith wrote:
> On Mon, 08 Jan 2007 15:40:55 -0800, tony.ohagan wrote:

>
>> I new to IDL but have lots of experience in other programming languages.
>>
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> Do you mean from the command line? Put them in a file foo.pro sans & $
> and:
>
> IDL> .run foo
>
> JD

If this already in a program, you don't need the & and $. If this is
at the command line, I must ask, why are you using a case block at the
command line? Seems, well, strange, but that's just me.

If you're using if, else, for, or while, and sometimes case and switch,
then you should be using begin and end[if|else|for|while]. Here's a
short example for each:

for stooge_num=0, 3 do begin
 case stooge_num of
 1:begin
  name='Larry'
  PRINT, 'Stooge 1'
 end
 2:begin
  name='Curly'
  PRINT, 'Stooge 2'
 end
 3:begin
  name='Moe'
  PRINT, 'Stooge 3'
 end
 else:begin

```
  name=''
  PRINT, 'Not A Stooge'
 endelse
 endcase
endfor
stooge_num=temporary(stooge_num)*(-2)
while stooge_num ne 0 do begin
 if stooge_num ne abs(stooge_num) then begin
  stooge_num=abs(temporary(stooge_num))
  print, 'Ahh, negative number!'
 endif else begin
  stooge_num--
  print, "We're on our way!"
 endelse
endwhile
```

Subject: Re: Newbie IDL question
Posted by tony.ohagan on Tue, 09 Jan 2007 04:26:23 GMT
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> If this already in a program, you don't need the & and $. If this is
> at the command line, I must ask, why are you using a case block at the
> command line? Seems, well, strange, but that's just me.

No I'm not using it from the command line.
I've already got it inside a .pro file.
I'm running it via NASA's SeaDAS library - perhaps this is the culprit?

$ seadas myprog.pro

I agree that it's very strange and contrary to all examples in the IDL
manuals.
Unfortunately if I don't use "& $" suffixes I get syntax errors.

> If you're using if, else, for, or while, and sometimes case and switch,
> then you should be using begin and end[if|else|for|while]. Here's a
> short example for each:

In fact I'm already using begin/ends in my case statements.
I've read the IDL manuals on case statements.
This example was from the manual.

Subject: Re: Newbie IDL question
Posted by tony.ohagan on Tue, 09 Jan 2007 04:29:25 GMT
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tony.oha...@gmail.com wrote:
>> If this already in a program, you don't need the & and $. If this is
>> at the command line, I must ask, why are you using a case block at the
>> command line? Seems, well, strange, but that's just me.
>
> No I'm not using it from the command line.
> I've already got it inside a .pro file.
> I'm running it via NASA's SeaDAS library - perhaps this is the culprit?
>
> $ seadas myprog.pro
>
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> manuals.
> Unfortunately if I don't use "& $" suffixes I get syntax errors.
>
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>> then you should be using begin and end[if|else|for|while]. Here's a
>> short example for each:
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> In fact I'm already using begin/ends in my case statements.
> I've read the IDL manuals on case statements.
> This example was from the manual.

Ahh ... actually I can reproduce the same sytax errors when running the
program from
  $ idl myprog.pro

... so it's not seadas.

---

tony.ohagan@gmail.com wrote:
> Ahh ... actually I can reproduce the same sytax errors when running the
> program from
> $ idl myprog.pro

Tony - Just what is in your myprog.pro?

If it looks like this:

name = 'Larry'
CASE name OF
  'Larry': PRINT, 'Stooge 1' & $
  'Moe': PRINT, 'Stooge 2' & $
  'Curly': PRINT, 'Stooge 3' & $

ELSE: PRINT, 'Not a Stooge' & $
ENDCASE

then running it from the command line with idl myprog.pro will work because that is essentially the same as starting IDL and typing @myprog, which uses the command line interpreter. Your "& $"s make everything look like a single line command, which is all the command line interpreter can handle.

If you actually create a program like this and put it in myprog2.pro:

```
pro myprog2
name = 'Larry'
CASE name OF
  'Larry': PRINT, 'Stooge 1'
  'Moe': PRINT, 'Stooge 2'
  'Curly': PRINT, 'Stooge 3'
ELSE: PRINT, 'Not a Stooge'
ENDCASE
end
```

then you can start IDL and give the command myprog2. IDL will find myprog2.pro, look for myprog2 in it and compile it (and it will compile without errors becuase the compiler can handle multiline statements) and then run it.

Does that work for you?

Mike