Subject: Re: Beginner fails miserabley at first hurdle 0.05
0.05
Posted by davidf on Tue, 03 Feb 1998 08:00:00 GMT
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Martin writes:

> Hello all, I'm just starting, but I've come unstuck already. I'm
> trying to write a for .. do begin line, but I can't seem to get it to
> work:
>
> for i=0, 31 do $
> for k=0, 31 do $
> for j=0, 255 DO BEGIN
> real_b(i, k, j)=b(i, k, 2*j)
> imag_b(i, k, j)=b(i, k, (2*j)+1)
> print, i, k, j
> endfor
>
> In desperation I've tried the following:
>
> for i=1, 100 do begin
> print, i
> endfor
>
> and all that happens is that I get 101 printed, then a syntax error on
> the 'n' of endfor. What have I done wrong?

There is nothing wrong with either of these code fragments.
The problem is probably that you are trying to type this code
at the IDL command line, and that is really hard to do with
multi-line code such as FOR loops.

Put this code into a text file. Add and extra END statement
at the bottom of everything else, save the file as "junk.pro"
(my favorite name), and then when you want to execute the code
type this:

```
IDL> .Run junk
```

It will all work as you expect it to. You have made what is
called a main-level IDL program. If you want to run the code
over again, you can type this:

```
IDL> .Go
```

If you get really desperate, you may want to have a look
at my IDL Programming Techniques book. This whole business

of writing programs is explained quite extensively. You can
learn more about the book on my web page.

Cheers,

David

David Fanning, Ph.D.
Fanning Software Consulting
E-Mail: davidf@dfanning.com
Phone: 970-221-0438
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Beginner fails miserabley at first hurdle 0.05
0.05
Posted by David Foster on Fri, 06 Feb 1998 08:00:00 GMT
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clovis21@hotmail.com wrote:
>
> Hello all, I'm just starting, but I've come unstuck already. I'm
> trying to write a for .. do begin line, but I can't seem to get it to
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> the 'n' of endfor. What have I done wrong?
>
> Martin

Martin -

Hang in there man! Since IDL is interpreted line-by-line as you

enter commands, you can't enter loop constructs like you tried,
because those kinds of statements need to be *compiled*. To enter
these commands at the IDL prompt:

```
 IDL> .run
 - for i=1,100 do begin
 -   print, i
 - endfor
 - end
```

and you will get what you expect. Or you can do it on one line:

```
 IDL> for i=1,100 do print, i
```

If you enter your commands like these examples, or put them into
a properly written .pro file and compile them, your statements
will work just fine:

```
; test.pro
PRO test, real_b, imag_b, b

 for i=0, 31 do $
        for k=0, 31 do $
                for j=0, 255 DO BEGIN
                        real_b(i, k, j)=b(i, k, 2*j)
                        imag_b(i, k, j)=b(i, k, (2*j)+1)
                        print, i, k, j
                endfor
return
end
```

Hope this helps.

Dave
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 David S. Foster   Univ. of California, San Diego
  Programmer/Analyst   Brain Image Analysis Laboratory
  foster@bial1.ucsd.edu Department of Psychiatry
  (619) 622-5892   8950 Via La Jolla Drive, Suite 2240
                         La Jolla, CA 92037
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