Subject: Re: Named Indices Posted by davidf on Wed, 27 Sep 2000 07:00:00 GMT

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Jason P. Meyers (jpm7934@cis.rit.edu) writes:

```
I am brand new to IDL programming. I am using version 5.3.1 on a PC
> and started going through some examples from my Digital Image Processing
> (DIP) class as well as some from the online manuals and Dave Fanning's
> book. I got to wondering if there exists (either built-in or developed
> by someone else) a list of named indices. Such a beast would be useful
> for specifying things line styles using names instead of numbers.
>
 For example,
>
>
>
     PLOT, time, curve, LineStyle=LongDash
  makes more sense to me than
    PLOT, time, curve, LineStyle=5
>
>
  One idea I had was to create a structured system variable named! I (for
  indices) which then has the various indices as fields. For example:
>
>
    !I.Solid = 0
    !I.Dot = 1
>
    !I.Dash = 2
>
    !I.DashDot = 3
>
    !I.Dash3Dot = 4
>
    !I.LongDash = 5
> I couldn't find a reference to such a system variable. Furthermore, I
> don't even know if it is possible to create new system variables like
> this. Finally, if something like this can be created, I don't want to
> reinvent the wheel if it already exists.
```

Well, it *is* possible to do something like this, since you can make new system variables. In fact, to do what you want to do requires an IDL statement like this:

DefSysV, '!LS', {solid:0, dot:1, dash:2, dashdot:3, dashdotdot:4, longdash:5}, 1

I used !LS for "line style", but what name you choose is up to you. You can put this kind of statement in, for example, an IDL start-up file.

The principle reason this is not done more often is that programs that rely on it:

Plot, Findgen(11), Linestyle=!LS.Dash

don't work when they are passed along to someone else. You always forget to give them your start-up file, or they got it, but they forget to run it, etc. So most of us stay with the lowest common denominator code:

Plot, Findgen(11), Linestyle=2

And most of us (present company included) don't have any idea what that code does five minutes after we write the program.

And, anyway, making code "readable" is not really the true programmer's solution anyway. If you want to earn the big bucks, "cryptic" is better. :-)

If everyone in your workgroup would agree to use the same IDL startup file, however, this would work great.

Cheers,

David

David Fanning, Ph.D. Fanning Software Consulting

Phone: 970-221-0438 E-Mail: davidf@dfanning.com

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