## Subject: Re: PLOT keywords vs System Variables Posted by zawodny on Mon, 19 Apr 1993 12:45:54 GMT

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In article <1qmd1hINNc6o@golem.wcc.govt.nz> hadfield_m@kosmos.wcc.govt.nz writes:
> Consider the following
> plot,indgen(10)
> As you'd expect, a graph of a straight line appears on the graphics output
> device. But this:
```

> plot,indgen(10),position=!P.position

> gives a blank screen and the message:

> % PLOT: Data coordinate system not established.

> % Execution halted at \$MAIN\$ (PLOT).

Just to make sure there's nothing strange about the setting of !P.positionsystem variable we type:

> help,!P.position & print,!P.position > <Expression> FLOAT = Array(4) > 0.000000 0.000000 0.0000000 >

But this is strange! You have asked PLOT to draw a plot with dimensions of zero. PLOT has to do some division by zero to set up the coordinate system. My understanding is that if plot goes off and finds a !p(x or y).aaaa system variable and finds it filled with zeros or null stings then it will use some default value. When you specify a keyword though, IDL says "Hey, this guy must know what he is doing" and uses it directly (no checking whether to use defaults).

I do agree though that the behavior you would like to see should be the way that it works. It would make a lot of programs easier to write. But for now that is the way it is.

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