
Subject: Re: plot label help

Posted by [Martin Schultz](#) on Fri, 10 Oct 1997 07:00:00 GMT

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Rick McDaniel wrote:

```
>
> Here's the one I wrote. It's not a thing of beauty. It works great but
> has one flaw. Instead of printing 10^0, it justs prints 10. The other
> exponents print out fine. Again any help appreciated.
>
> FUNCTION LOGTICKS, axis, index, value
>
> IF value/10.0^9 EQ 1.0 THEN n = 9
> IF value/10.0^8 EQ 1.0 THEN n = 8
> IF value/10.0^7 EQ 1.0 THEN n = 7
[cut]
```

This indeed looks weird! Try the following:

```
IDL> x = 10^(findgen(20)-8)
```

```
IDL> print,fix(alog10(x))
```

```
  -8  -7  -6  -5  -4  -3  -2  -1   0
   1   2   3   4   5   6   7   8   9
  10  11
```

You can also use something like `ceil(alog10(val))` in order to get integer exponents
for values ne 10, 100, 1000, etc.

```
>
> RETURN, STRING(n, $
>     FORMAT="('10!E',i2.0)")
> END
>
```

If you use `format=i2` instead of `i2.0`, the 0 will be printed ! Also, to improve the

look of you numbers you may want to try

```
return, strcompress( string(n, format="('10!E',i2)")) , /remove_all)
```

This eliminates the blanks in e.g. 10!E 4.

Cheers,
Martin.

-----Dr.

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