
Subject: Unequally spaced ticklabels with the FSC_COLORBAR function

Posted by [Karlo Janos](#) on Thu, 31 Oct 2013 08:49:09 GMT

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Hi,

I have found an issue with the FSC_COLORBAR function.
I wondered why the ticklabels were not distributed equally in the given range in my example (the line with the "levels" variable is taken from "fsc_colorbar__define.pro"):

```
IDL> minval = 46.8614502
IDL> maxval = 46.8615112
IDL> divisions = 10
IDL> levels = minval >
(INDGEN(divisions+1)*(maxval-minval)/divisions+minval) < maxval
IDL> pm, levels, FORMAT='(F0.6)'
46.861450
46.861458
46.861462
46.861469
46.861473
46.861481
46.861488
46.861492
46.861500
46.861504
46.861511
```

The reason is that when I call the function with "divisions" being an integer the above result occurs. A change to a DOUBLE value yields the correct result:

```
IDL> divisions = 10d0
IDL> levels = minval >
(INDGEN(divisions+1)*(maxval-minval)/divisions+minval) < maxval
IDL> pm, levels, FORMAT='(F0.6)'
46.861450
46.861456
46.861462
46.861469
46.861475
46.861481
46.861487
46.861493
46.861499
46.861505
```

46.861511

IDL>

David, if you are reading this, please consider a floating point variable for the division by the variable "divisions".

Regards

Karlo
