
Subject: xtickformat value

Posted by [gri](#) on Fri, 24 Sep 2004 11:07:33 GMT

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Hi IDL users,

I am trying to make a plot with multiple x axis labels. I am using the xtickformat keyword to call a function I have written and then use the output value from this function as an index into an array. This all seems to work very well. However, The first level axis produces about eight labels all where they should be an good values, but the next levels (there are three of them) only produce labels every other step. The value output from the function seems to change between the first level and the remaining levels. I have set the xtickunits value to be the same for each level, so it looks like this, ['hours','hours','hours','hours'].

The function is:

```
FUNCTION fullhours, axis, index, value, level
```

```
COMMON arrays, timehrs,Lshell,sc_lat,localtime
```

```
CASE level OF
```

```
0: BEGIN
```

```
    firstrow=timehrs(value*5380)
```

```
    firstrow=STRCOMPRESS(STRING(firstrow,FORMAT='(F5.1)'),/REMOV E_ALL)
```

```
    RETURN,firstrow
```

```
END
```

```
1: BEGIN
```

```
    secondrow=Lshell(value*5380)
```

```
    secondrow=STRCOMPRESS(STRING(secondrow,FORMAT='(F6.1)'),/REM OVE_ALL)
```

```
    RETURN, secondrow
```

```
END
```

```
2: BEGIN
```

```
    thirdrow=sc_lat(value*5380)
```

```
    thirdrow=STRCOMPRESS(STRING(thirdrow,FORMAT='(F6.1)'),/REMOV E_ALL)
```

```
    RETURN, thirdrow
```

```
END
```

```
3: BEGIN
```

```
    fourthrow=localtime(value*5380)
```

```
    fourthrow=STRCOMPRESS(STRING(fourthrow,FORMAT='(F6.1)'),/REM OVE_ALL)
```

```
    RETURN, fourthrow
```

```
END
```

```
ENDCASE
```

```
END
```

Has anybody else come across this before, or know how to fix it?

Thanks in advance.

Gethyn
