
Subject: Re: Bug in IDL's TIMEGEN function

Posted by chris_torrence@NOSPAM on Fri, 24 Aug 2007 22:19:00 GMT

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Hi Dave,

Good catch! This is indeed a bug. I've just fixed the code for the next IDL release.

If you want, you can patch your copy of timegen. Go to your \$IDL_DIR/lib/timegen.pro.

Around line 400, replace the following bad lines:

```
monthArray = (monthArray MOD 12) + 1
```

```
IF (step_size LT 0) THEN monthArray = (monthArray + 12) MOD 12
```

With the following good lines:

```
if (step_size ge 0) then begin
```

```
    monthArray = (monthArray mod 12) + 1
```

```
endif else begin
```

```
    monthArray = (((monthArray mod 12) + 12) mod 12) + 1
```

```
endelse
```

Using this version, I get the following results:

```
IDL> MyTimes = TIMEGEN( units="Months", step_size=-1, $
```

```
IDL> start=julday(1,15,2007), final=julday(10,15,2006))
```

```
IDL> print, MyTimes - MyTimes(0)
```

```
0.00000000  -31.000000  -61.000000  -92.000000
```

Hope this didn't cause you too many problems.

Cheers,

Chris Torrence

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