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Subject: Leap Seconds and JULDAY()

Posted by [Mariolncandenza](#) on Wed, 08 Jul 2015 22:23:33 GMT

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Hello IDL wizards!

I have data timestamped with "seconds-since-epoch," in this case the epoch is 1/1/1993 00:00.

My results had been 8 seconds off, which I never noticed, but then last week, I started to have problems, and found my results were 9 seconds off.

My method is this:

```
EPOCH=JULDAY(1,1,1993,0,0,0)
```

```
SECONDS_IN_A_DAY = DOUBLE(24*60*60)
```

```
TIMESTAMP.UTC = EPOCH + (EPOCH_SECONDS/SECONDS_IN_A_DAY)
```

This gives the wrong answer, because JULDAY() doesn't have epoch seconds. This makes me sad, though there may be some detailed reason why it shouldn't.

--Edward H.

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