
Subject: Julian time problem

Posted by [corinnefrey](#) on Fri, 24 Nov 2006 11:16:19 GMT

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Hi,

I have following problem:

First I define two times in the Julian system:

```
jul_time1=JULDAY(11,5,2006,10,10)
```

```
jul_time2=JULDAY(11,5,2006,10,20)
```

Then I make a time array which starts at the first time given above

```
time_array= TIMEGEN(30,units="minutes", START=jul_time1)
```

The second time is only 10 minutes after the first time, so I should be able to find it in the generated time array.

When I print, I get following thing:

```
IDL> print,time_array(10),format='(d20.5)'
```

```
2454044.93056
```

```
IDL> print,jul_time2,format='(d20.5)'
```

```
2454044.93056
```

That seems to be ok! But if I make the difference then I don't get zero:

```
IDL> print,time_array(10)-jul_time2
```

```
4.6566129e-010
```

What happend here? The jul_time2 and the time_array are both in DOUBLE format.

```
IDL> help,jul_time2
```

```
JUL_TIME2    DOUBLE    =    2454044.9
```

```
IDL> help,time_array
```

```
TIME_ARRAY    DOUBLE    = Array[30]
```

I need to have both numbers the same, so that I can search in the time string for a desired time or date.

Thanks for your help,
corinne
