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Subject: Re: Julian Day Question

Posted by [David Fanning](#) on Fri, 26 May 2006 06:13:48 GMT

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David Fanning writes:

> Consider:

>

> IDL> Print, JULDAY(1, 1, 1999) ; 1 Jan 1999

> 2451180

>

> This is the wrong answer according to Meeus, who lists the

> answer as 2451179.5.

>

> But, then consider this, which should be the SAME time:

>

> IDL> Print, JULDAY(1, 1, 1999, 0) ; 1 Jan 1999 at 0 hours

> 2451179.5

>

> What do you make of that?

Here is the same thing, but with JHUAPL routines:

```
IDL> Print, YMD2JD(1999, 1, 1)
```

```
2451180
```

But, converting first to "Julian seconds", and then to the Julian Day:

```
IDL> js = YMDS2JS(1999, 1, 1, 0)
```

```
IDL> Print, JS2JD(js)
```

```
2451179.5
```

Clearly, I am missing something important here. :-(

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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