Subject: Double precision data into caldat
Posted by laura.hike on Tue, 08 Sep 2015 19:37:23 GMT
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Hi,

I'm trying to convert some Julian dates back into standard dates using caldat. (In fact, I am testing what I got out of julday in the first place.) There should be hours and minutes in the results. If I take the output of julday as a variable, say TEST, and put it into caldat as

```
caldat, test, m, d, y, h, mm, s
```

I get the right answer. However, if I just use the actual value of test, I get odd results. So, for the Julian day 2456658.56250000, I should get

```
2014        1        1        1       30       0
```

in year, month, day, hour, min, sec form. If I use

```
caldat, 2456658.56250000D, m, d, y, h, mm, s
```

the results are correct, but if I do the type conversion using double(), it doesn't. So I have

```
caldat, double(2456658.56250000), m, d, y, h, mm, s
```

and

```
p = double(2456658.56250000)
caldat, p, m, d, y, h, mm, s
```

both giving the result

```
2014        1        1        0        0      0
```

Does anyone know why this is? As far as I know, all of those input values are the same.

Thanks!

PS Why on earth does IDL use month, day, year rather than year, month, day in both caldat and julday??