
Subject: Re: Dates conversions

Posted by [Michael Galloy](#) on Thu, 05 Nov 2015 23:02:46 GMT

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On 11/05/2015 11:47 AM, lucesmm@gmail.com wrote:

> Hello I have a problem and I am trying to see if IDL can solve this

>

> I have an initial date

> 08/05/2012 05:14:39

>

> and then my data is arrange in days and fractions of days

> DAY

> 9.77013 -> meaning 9.77013 days after the initial date

> 9.77037

> 9.77060

> 9.77083

> 9.77106

> 9.77130

> 9.77153

> 9.77175

> 9.77199

> 9.77222

> 9.77245

>

> is there a way that IDL can help me to convert each point to real

> date

and time given the start date and time ?

>

>

> Thanks

>

Yes, convert to Julian days:

```
IDL> dates = [9.77013, 9.77037, 9.77060, 9.77083, 9.77106, 9.77130,
9.77153, 9.77175, 9.77199, 9.77222, 9.77245]
```

```
IDL> jd = julday(8, 5, 2012, 5, 14, 39)
```

```
% Compiled module: JULDAY.
```

```
IDL> jdates = jd + dates
```

```
IDL> caldat, jdates, months, days, years, hours, minutes, seconds
```

```
% Compiled module: CALDAT.
```

```
IDL> print, hours
```

```
      23      23      23      23      23
23      23
      23      23      23      23
```

```
IDL> print, minutes
```

```
      43      43      44      44      44
45      45
```

45	46	46	46
IDL> print, seconds			
38.245639	58.927402	18.867587	38.725375
58.583163			
19.347323	39.205112	58.238925	18.920688
38.778476			
58.718661			

Mike

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Modern IDL: A Guide to IDL Programming (<http://modernidl.idldev.com>)
