
Subject: Re: Time conversion

Posted by [tam](#) on Wed, 14 Mar 2001 19:52:43 GMT

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JD Smith wrote:

... In any case,

> it is oh so trivial to convert date to systime, the inverse:

>

> st=(julday(month,day,year,hr,min,sec)-2440587.5D)*86400.0D

>

> That's it! For instance:

>

> IDL> st0=systime(0) & st1=systime(1)

> IDL> d=bin_date(st0)

> IDL> st=(julday(d[1],d[2],d[0],d[3],d[4],d[5])-2440587.5D)*86400. 0D

> IDL> print,FORMAT='(A,":",2D30.5)',st0,st1,st

>

...

>

> JD

How are leap seconds accounted for here? They usually cause niggling problems if one actually needs to worry about precision at the second level over periods of more than a month or two. It looks like your code is ignoring them. The biggest pain is that they are not predictable so the code needs to access an external file, or update an internal table periodically.

Regards,

Tom McGlynn
