
Subject: Re: Conversion of MS 64bit timestamps to JD
Posted by [andrewcool777](#) on Sun, 13 Nov 2016 11:48:15 GMT
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Hi Dick,

Using your method, here are the decodes of the 64bit timestamps
embedded in a short SER image that a friend supplied.

Cheers,

Andrew

2016.0000	11.000000	13.000000	6.0000000	38.000000	16.072238
2016.0000	11.000000	13.000000	6.0000000	38.000000	16.332335
2016.0000	11.000000	13.000000	6.0000000	38.000000	16.593015
2016.0000	11.000000	13.000000	6.0000000	38.000000	16.851370
2016.0000	11.000000	13.000000	6.0000000	38.000000	17.114491
2016.0000	11.000000	13.000000	6.0000000	38.000000	17.456318
2016.0000	11.000000	13.000000	6.0000000	38.000000	17.633305
2016.0000	11.000000	13.000000	6.0000000	38.000000	17.891857
2016.0000	11.000000	13.000000	6.0000000	38.000000	18.152162
2016.0000	11.000000	13.000000	6.0000000	38.000000	18.412077
2016.0000	11.000000	13.000000	6.0000000	38.000000	18.671080
2016.0000	11.000000	13.000000	6.0000000	38.000000	18.932369
2016.0000	11.000000	13.000000	6.0000000	38.000000	19.191133
2016.0000	11.000000	13.000000	6.0000000	38.000000	19.451026

On Sunday, 13 November 2016 09:55:34 UTC+10:30, [andrew...@gmail.com](#) wrote:

> Hi Dick,
>
> This is Gold Star stuff! Maybe even an Elephant stamp too.
>
> Of course, having the ability to record 100nanosecond intervals assumes that the Windows
clock is up to that int eh first place, and well calibrated, but that's another story.
>
> A friend and I recorded and occultation by the Centaur asteroid Chariklo
> on Oct 1st, using SER format. I've written a converter to get individual FITS
> files from the SER file, but it needs those 64bit timestamps converted too.
>
> Many Thanks.
>
> Andrew
>
> Working the other way, to turn serDateTime into six parameters:
>

```
> IDL> serDateTime = 636144921840000001 ; 2016-11-11T20:16:24.0000001 from above
>
> IDL> Jul2Greg,(serDateTime / (24LL * 60 * 60 * 10000000)) + Greg2Jul(1,1,1,0,0,0),mo,d,y
> IDL> increments = serDateTime MOD (10000000LL * 24 * 60 * 60)
> IDL> s = increments MOD (10000000LL * 60) / 1D7
> IDL> m = increments / (10000000LL * 60) MOD 60
> IDL> h = increments / (10000000LL * 60 * 60)
>
> This seems to have worked:
>
> IDL> help,y,mo,d,h,m
> Y      LONG    =      2016
> MO     LONG    =       11
> D      LONG    =       11
> H      LONG64   =       20
> M      LONG64   =       16
>
>
>> Andrew
```
