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Subject: Re: convert from Julian date to calendar date and vice verse

Posted by [Andy Sayer](#) on Mon, 02 Jul 2012 18:04:58 GMT

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I suggest looking into the in-built IDL procedure CALDAT:

<http://star.pst.qub.ac.uk/idl/CALDAT.html>

and JULDAY to go the other way:

<http://star.pst.qub.ac.uk/idl/JULDAY.html>

Hope this helps,

Andy

On Monday, July 2, 2012 9:21:45 AM UTC-4, (unknown) wrote:

> Dear all,

>

> I have the following time units of "days since 1-1-1 00:00:0.0".

> 17619336.    17619360.    17619384.    17619408.

> 17619432.    17619456.    17619480.    17619504.

> 17619528.    17619552.    17619576.    17619600.

>

> I would like to convert them from Julian date to calendar date and

> vice verse.

> thanks in advance

> Khaled

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Subject: Re: convert from Julian date to calendar date and vice verse

Posted by [stefan.meingast](#) on Tue, 03 Jul 2012 10:32:23 GMT

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Am Montag, 2. Juli 2012 15:21:45 UTC+2 schrieb (unbekannt):

> Dear all,

>

> I have the following time units of "days since 1-1-1 00:00:0.0".

> 17619336.    17619360.    17619384.    17619408.

> 17619432.    17619456.    17619480.    17619504.

> 17619528.    17619552.    17619576.    17619600.

>

> I would like to convert them from Julian date to calendar date and

> vice verse.

> thanks in advance

> Khaled

you could use this:

<http://idlastro.gsfc.nasa.gov/ftp/pro/astro/daycnv.pro>

but be aware that your dates are not Julian dates since the zero-point is wrong. The ZP for the JD is

12:00 January 1, 4713 BC, Monday

and you will have to convert to this before you perform the conversion.

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Subject: Re: convert from Julian date to calendar date and vice verse

Posted by [wlandsman](#) on Tue, 03 Jul 2012 23:15:44 GMT

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My posts from a few hours ago don't seem to have shown up -- sorry if they appear twice

daycnv.pro does not have the wrong zero point. It converts to Gregorian (not Julian) calendar day, and JD 0.0 corresponds to November 24 4713 BC in the Gregorian calendar.

( e.g. [http://www.hermetic.ch/cal\\_stud/jdn.htm#comp](http://www.hermetic.ch/cal_stud/jdn.htm#comp) ). Cheers, --Wayne

On Tuesday, July 3, 2012 6:32:23 AM UTC-4, Stefan wrote:

> you could use this:

>

> <http://idlastro.gsfc.nasa.gov/ftp/pro/astro/daycnv.pro>

>

> but be aware that your dates are not Julian dates since the zero-point is wrong. The ZP for the JD is

>

> 12:00 January 1, 4713 BC, Monday

>

> and you will have to convert to this before you perform the conversion.

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Subject: Re: convert from Julian date to calendar date and vice verse

Posted by [wlandsman](#) on Wed, 04 Jul 2012 15:19:50 GMT

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Stefan, Sorry I misinterpreted your post. You didn't say that daycnv.pro had the wrong zero point, but that numbers given by the OP were not Julian dates since they had the wrong zero point.

Khaled, to convert your numbers to Julian day you need to add  $JULDAY(1,1,1) = 1721424$  to all your dates. But are you sure that your numbers are not \*hours\* rather than days since 1-1-1? If it is days then they refer to a year far in the future, but if they are hours then they refer to the

year 2012.

--Wayne

On Tuesday, July 3, 2012 7:15:44 PM UTC-4, wlandsman wrote:

> My posts from a few hours ago don't seem to have shown up -- sorry if they appear twice

>

> daycnv.pro does not have the wrong zero point. It converts to Gregorian (not Julian) calendar day, and JD 0.0 corresponds to November 24 4713 BC in the Gregorian calendar.

>

> ( e.g. [http://www.hermetic.ch/cal\\_stud/jdn.htm#comp](http://www.hermetic.ch/cal_stud/jdn.htm#comp) ). Cheers, --Wayne

>

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