Subject: Convert MJD date range to number of days elapsed in IDL
Posted by cdav1601 on Sun, 25 Sep 2016 19:53:01 GMT
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I'm trying to figure out if there's some way I can take a range of MJD values and convert them into number of days elapsed over that range so I can normalize a plot of two supernova and their absolute magnitudes over time in IDL. Is there a simple conversion for this I'm not seeing or do I need to tediously convert every value to determine the number of days to use for my x-axis?

Note: I do not wish to convert to the date, but the actually number of days elapsed as to normalize my two plots for comparison.

Thanks!

Subject: Re: Convert MJD date range to number of days elapsed in IDL
Posted by wlandsman on Mon, 26 Sep 2016 13:46:20 GMT
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If you have a vector of modified Julian dates, MJD, and want to convert them to elapsed time from a scalar reference time, MJD0, then just subtract

IDL> TElapse = MJD - MJD0

I suspect that you actually asking for something else but, if so, you will have to clarify your question. --Wayne

On Sunday, September 25, 2016 at 3:53:03 PM UTC-4, cdav...@terpmail.umd.edu wrote:
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> Note: I do not wish to convert to the date, but the actually number of days elapsed as to normalize my two plots for comparison.
>
> Thanks!

Subject: Re: Convert MJD date range to number of days elapsed in IDL
Posted by Markus Schmassmann on Mon, 26 Sep 2016 13:54:10 GMT
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On 09/25/2016 09:53 PM, cdav1601@terpmail.umd.edu wrote:
> I'm trying to figure out if there's some way I can take a range of
> MJD values and convert them into number of days elapsed over that

> range so I can normalize a plot of two supernova and their absolute
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>
> Note: I do not wish to convert to the date, but the actually number
> of days elapsed as to normalize my two plots for comparison.

```
jd=julday(month,day,year)
days_elapsed=jd-jd[0]
```

month, day & year are arrays
