Subject: Re: IDL missing date and data Posted by Wout De Nolf on Thu, 29 Jan 2009 12:38:19 GMT View Forum Message <> Reply to Message

On Thu, 29 Jan 2009 02:15:05 -0800 (PST), mbo <mstyesi@gmail.com>

wrote: > I am to creating a monthly time series data from daily averages data > that spans from 1999 to 2008. > > However, there data gaps of about 2 to for 4 days for some of the > monts. So that this data would look like this > > 20/07/1999 20 40 > 24/07/1999 > You would notice that there are 4 days missing but the data shows no > gaps int it. > > How can I expand this kind of data to look like this > 20/07/1999 20 > 21/07/1999 NaN > 22/07/1999 NaN > 23/07/1999 NaN > 24/ 07/1999 40 How about this: days=[20,24,25,26] months=[7,7,7,7]years=[1999,1999,1999,1999] data=[20,40,10,10] date=JULDAY(months,days,years) ind=date-date[0] ndays=ind[n elements(date)-1]+1 date_full=lindgen(1,ndays)+date[0] data_full=make_array(1,ndays,value=!values.f_nan) data full[ind]=data CALDAT, date_full, months, days, years print, [months, days, years, \$ data_full],format='(I02,"/",I02,"/",I04,F)'

Subject: Re: IDL missing date and data Posted by loebasboy on Thu, 29 Jan 2009 12:41:41 GMT

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On 29 jan, 11:15, mbo <msty...@gmail.com> wrote:

- > I am to creating a monthly time series data from daily averages data
- > that spans from 1999 to 2008.

>

- > However, there data gaps of about 2 to for 4 days for some of the
- > monts. So that this data would look like this

>

> 20/07/1999 20 > 24/07/1999 40

>

You would notice that there are 4 days missing but the data shows no paps int it.

gaps ir

> How can I expand this kind of data to look like this

>

- > 20/07/1999 20
- > 21/07/1999 NaN
- > 22/07/1999 NaN
- > 23/07/1999 NaN
- > 24/07/1999 40

First make a matrix with 2 columns with length of all days. The first column consist of all the dates of days you need. I think you can generate that with the TIMEGEN function. The second column all consist of Nan values which you can create by using !values.f_nan . Then do a for loop on the original matrix to fill in the data you have by comparing the dates of the second matrix with the first matrix and getting the index with a where function. Then fill in the second matrix with that index and the right value. An easy, but maybe not that efficient (cause of the for loop), solution.

Subject: Re: IDL missing date and data Posted by loebasboy on Thu, 29 Jan 2009 12:42:53 GMT View Forum Message <> Reply to Message

On 29 jan, 13:41, loebasboy <stijn....@gmail.com> wrote:

- > On 29 jan, 11:15, mbo <msty...@gmail.com> wrote:
- > >
- >
- >
- >> I am to creating a monthly time series data from daily averages data

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>> that spans from 1999 to 2008.
>
>> However, there data gaps of about 2 to for 4 days for some of the
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                   20
>> 24/07/1999
                   40
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>> How can I expand this kind of data to look like this
>
>> 20/07/1999 20
>> 21/07/1999 NaN
>> 22/07/1999 NaN
>> 23/07/1999 NaN
>> 24/07/1999 40
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> getting the index with a where function. Then fill in the second
> matrix with that index and the right value. An easy, but maybe not
> that efficient (cause of the for loop), solution.- Tekst uit oorspronkelijk bericht niet weergeven -
>
> - Tekst uit oorspronkelijk bericht weergeven -
```

Nevermind my bollocks and use the code of Wox:)