
Subject: Re: IDL missing date and data

Posted by [Wout De Nolf](#) on Thu, 29 Jan 2009 12:38:19 GMT

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On Thu, 29 Jan 2009 02:15:05 -0800 (PST), mbo <mstyasi@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
> 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:

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

```
> On 29 jan, 11:15, mbo <msty...@gmail.com> wrote:
>
>
>
>
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>
> - Tekst uit oorspronkelijk bericht weergeven -

```

Nevermind my bollocks and use the code of Wox :)
