
Subject: how to read date as structure

Posted by [limiq](#) on Mon, 30 Oct 2017 17:23:03 GMT

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Hi,

I wonder if someone could show me how to read a data with dates as structure.

I need to read thousands of files each with thousands of lines e like this one:

FileIn1:

```
2015-06-01 11:02:28 -17.8620 -34.3080 -12.1940
2015-06-01 11:02:29 -12.4835 -24.4790 -8.8535
2015-06-01 11:02:30 -10.9240 -22.0480 -7.8587
2015-06-01 11:02:31 -11.6355 -22.9650 -8.0603
2015-06-01 11:02:32 -12.7080 -26.4340 -8.5855
2015-06-01 11:02:33 -12.4525 -24.8820 -8.4100
2015-06-01 11:02:34 -11.2980 -23.5610 -7.9932
2015-06-01 11:02:44 8.8110 12.8375 4.2657
2015-06-01 11:03:00 -5.4033 -10.9245 -3.4665
2015-06-01 11:03:01 -9.4730 -19.0120 -5.6915
```

I done this:

```
=====
```

```
Pro ReadMyData
```

```
FileIn='FileIn1'
```

```
Close, /All
```

```
nlines=File_lines(FileIn)
```

```
datastruct={MyDate:' ', MyTime:' ', var1:0.0, var2:0.0, var3:0.0}
```

```
Mydata=Replicate(datastruct, nlines)
```

```
Mydata.MyDate = STRING(Mydata.MyDate, FORMAT = '(A10)')
```

```
Mydata.MyTime = STRING(Mydata.MyTime, FORMAT = '(A10)')
```

```
OpenR,lun, FileIn,/Get_Lun
```

```
ReadF,lun, dataw
```

```
Free_Lun, lun
```

```
End
```

```
=====
```

But i get the error message: READF: Input conversion error. Unit: 100.

I will appreciate any assistance.

Thanks

Subject: Re: how to read date as structure

Posted by [Markus Schmassmann](#) on Fri, 03 Nov 2017 10:54:22 GMT

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On 10/30/2017 06:23 PM, Lim wrote:

> I wonder if someone could show me how to read a data with dates as structure.

>

> I need to read thousands of files each with thousands of lines e like this one:

>

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> 2015-06-01 11:03:01 -9.4730 -19.0120 -5.6915

>

>

> I done this:

>

> =====

> Pro ReadMyData

>

> FileIn='FileIn1'

> Close, /All

> nlines=File_lines(FileIn)

>

> datastruct={MyDate:' ', MyTime:' ', var1:0.0, var2:0.0, var3:0.0}

> Mydata=Replicate(datastruct, nlines)

> Mydata.MyDate = STRING(Mydata.MyDate, FORMAT = '(A10)')

> Mydata.MyTime = STRING(Mydata.MyTime, FORMAT = '(A10)')

>

> OpenR,lun, FileIn,/Get_Lun

> ReadF,lun, dataw

> Free_Lun, lun

>

> End

> =====

> But i get the error message: READF: Input conversion error. Unit: 100.

I hope this is what you are looking for, Markus

pro ReadMyData

FileIn='FileIn1'

nlines=File_lines(FileIn)

datastruct={MyDate:' ', MyTime:' ', var1:0.0, var2:0.0, var3:0.0}

Mydata=Replicate(datastruct, nlines)

fileStr=strarr(nlines)

OpenR,lun, FileIn,/Get_Lun

ReadF,lun, fileStr

Free_Lun, lun

allStr=(strsplit(fileStr,/extract)).toArray()

Mydata.MyDate= allStr[:,0]

Mydata.myTime= allStr[:,1]

Mydata.var1 =float(allStr[:,2])

Mydata.var2 =float(allStr[:,3])

Mydata.var3 =float(allStr[:,4])

end
