Subject: Re: reading ascii in array merging with strsplit
Posted by Andrea Pitacco on Thu, 08 Feb 2007 09:39:02 GMT
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On 6 Feb 2007 05:46:39 -0800, "leatherback"
<jelle.ferwerda@rmit.edu.au> wrote:

> Hi All,
>
> I use a template to read_ascii data of the following format:
>
> D9 6-2-1998 17:00 37,59 0,59 36,5
>
> Which returns a structure of arrays.
>
> However, the date (6-2-1998) and time (17:00) I need to convert to
> julian time, which takes
>
> JULDAY(Month, Day, Year, Hour, Minute, Second)
>
> I -could- for each entry in the list do a strsplit:
>
> daysarr = STRTRIM(strsplit(data.date[ThisLine], '-', /extract), 2)
> timearr = STRTRIM(strsplit(data.time[ThisLine], ':', /extract), 2)

Dear Jelle,
if you are heading to Julian time and your date&time timestamp is a single string tag of an array of structures, you may conveniently read and transform the whole vector using just using the native ReadS instruction and an appropriate FORMAT.

As the online help "synthetically" writes, ReadS can act on a vector. What is essential, is to provide it with a properly dimensioned double-precision destination array:

```
jtime = DblArr(N_Elements(data))
ReadS, data.timestamp, jtime, FORMAT =
'(C(CYI,X,CMOI,X,CDI,X,CHI,X,CMI,X,CSI))'
```

Regards, Andrea

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