
Subject: Re: Formatting strings to coordinates

Posted by [Paul van Delst](#) on Fri, 19 May 2000 07:00:00 GMT

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Simon de Vet wrote:

>
> The data analysis adventure continues... I have read in the data, and am
> now working on the various plots.
>
> I have a string array, taken from the text file, of coordinates.
> However, they are in the form "43.92i½S" ,and "176.50i½W".

Off the top of my head, I can think of two ways:

1) The STR_SEP method where the degree symbol, i½, is the separator. The first element of the result is then just the number in string form. By using FLOAT, you'll have a real number. (However, I don't know how to represent the symbol i½ in the command....ASCII escape sequence or something like that?)

2) Lopping off the last two characters manually, e.g.:

```
c_lat = "43.92i½S"  
len  = STRLEN( STRTRIM( c_lat, 2 ) ) ; Make sure there are no " " at  
the end  
c_lat = STRMID( c_lat, 0, len - 2 )  
lat  = FLOAT( c_lat )
```

I do this sort of thing all the time reading in radiosonde data

good luck

paulv

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Paul van Delst Ph: (301) 763-8000 x7274
CIMSS @ NOAA/NCEP Fax: (301) 763-8545
Rm.202, 5200 Auth Rd. Email: pvandelst@ncep.noaa.gov
Camp Springs MD 20746

Subject: Re: Formatting strings to coordinates

Posted by [Andy Loughe](#) on Fri, 19 May 2000 07:00:00 GMT

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> The data analysis adventure continues... I have read in the data, and am
> now working on the various plots.

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> I have a string array, taken from the text file, of coordinates.
> However, they are in the form "43.92°S", and "176.50°W".
>
> I would like to be able to take this array of strings and convert it to
> a numerical array or real latitudes and longitudes, from -90 to 90 and 0
> to 360 so that they can eventually be plotted onto a globe.
>
> I've figured out how to use strings to generate numerical values (ie:
> 'Jan' -> 1, 'Feb' -> 2, etc..), but not how to handle parts of strings
> to modify the other parts.
>
> Any suggestions? This group has been a major help so far!
>
> Thanks,
>
> Simon

For example...

```
lat1 = ['43.92°S', '43.92°N', '43.92°S', '43.92°N']  
lat2 = (-2 * (strpos(lat1, 'S') ge 0) + 1) * float(lat1)
```

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Andrew Loughe *****
NOAA/FSL/AD Mailstop: R/FS5 * Email: loughe@fsl.noaa.gov
325 Broadway * Web: www-ad.fsl.noaa.gov/users/loughe/
Boulder, CO 80303 * Phn/Fax: (303)497-6211 / (303)497-6301
