Subject: Re: READ\_ASCII truncating data
Posted by David Fanning on Wed, 12 Mar 2014 13:02:40 GMT
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## Simon Mitchell writes:

- > I have an issue with READ\_ASCII truncating data (IDL 8,01 Win7 64bit).
- > I am sure it is something to do with regional settings, the decimal place is set to "," instead of "."
- > The file that I am reading is space delimeter (HEX char 20) and my READ\_ASCII statement reflects this (ie is default for the delimeter)
- > red\_data = READ\_ASCII(redfile, DATA\_START = 6, COUNT = nl)
- >
- > An example of the data from the input file is:
- > 0,4571 1334,62 9,356
- > But when looking at the array after reading, the values are
- > 0,0 1334,0 9,0

>

- > The same issue occurs if I include DELIMETER=string(20)
- > I do know that if I change the win7 regional settings to have the decimal place "." the data is read correctly without truncating.
- > But I do not want to change the settings as I have other software which does not work if it is changed.
- > Also, if the input file is changed to replace the "," with "." then the file is read correctly.
- > Would anyone have any idea as to why the READ\_ASCII is behaving this way and have a solution?
- > Is it a mistake that I have made in the code, or is there some settings that need to be changed in IDL?
- > I cannot find any reference to this problem anywhere and there is nothing on regionalizing decimal place characters that I can find.

You can simply open READ\_ASCII up and have a look at why it is behaving like this. I find this bit of code near the top of the file and without investigating too thoroughly imagine this would be a good place to start:

```
; If there are no strings in the line, just split on ; commas and return. if (ARRAY_EQUAL(isQuote, 0b)) then begin return, STRTOK(lineIn, STRING(44b), /EXTRACT, /PRESERVE_NULL) endif
```

I think if it were me, I would just write a short routine to read this

file myself, line by line, as READ\_ASCII does, but I would do the substitutions of commas for decimal points myself with Mike Galloy's wonderful routine STR\_REPLACE (found in the public folder of the Coyote Library because of its usefulness):

```
IDL> line = '123,4 18,456'
IDL> modified_line = str_replace(a, ',', '.', /Global)
IDL> print, modified_line
123.4 18.456
IDL> data = fltarr(2)
IDL> reads, modified_line, data
IDL> print, data
123.400 18.4560
```

Cheers,

David

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Sepore ma de ni thue. ("Perhaps thou speakest truth.")