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Subject: Re: number formats inputting ascii data

Posted by [Craig Markwardt](#) on Sat, 30 Apr 2005 20:35:54 GMT

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"Haje Korth" <haje.korth@jhuapl.edu> writes:

- > Dave,
- > I see two issues you can try:
- > 1. You are defining aa=0l. Why do you define as a long if you want a double
- > in the end? Try aa=0.0d0 and so on
- > 2. Your combo array is defined as float (fltarr). Use dblarr to get a double
- > precision array.

And,

- 3. The FORMAT keyword does not appear to be correct. For me to get it to work, I need () parentheses.
- 4. You don't need to give both the LUN and the FILENAME, pick one.

Craig

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>
> Haje
>
>
>
>
> "dave" <dcfinnegan@gmail.com> wrote in message
> news:1114784794.648073.62000@f14g2000cwb.googlegroups.com...
>> A quick question that I guess follows on to Ed's precision question.
>>
>> I'm having similar problems when I import an ascii datafile of X,Y,Z
>> values.
>>
>> the x and y values are utm meter and the z value is mm's
>>
>> When I import the data it definitely looks different than it should?
>>
>> I'm using the transread program from Craig M. to import the data. I've
>> attached a snipet of the data and the code below...any ideas?
>>
>> Dave
>>
>> ----data file
>> LAT LON ELEV
>> 37626408 5352625 668694
>> 37626406 5352080 671058
>> 37626406 5352015 674405
>> 37626405 5351812 682801
```

```

>> 37626409 5352791 668146
>> 37626405 5351757 686651
>> 37626405 5351655 694568
>> 37626407 5352339 669945
>> 37626405 5351701 690698
>> 37626405 5351914 677368
>> 37626411 5353354 666662
>> 37626409 5352874 667493
>> 37626410 5353031 666536
>> 37626404 5351470 702865
>> 37626408 5352625 668677
>> 37626407 5352209 670414
>> 37626411 5353456 668980
>> 37626406 5352034 673583
>> 37626412 5353788 666713
>> 37626409 5352920 667493
>> 37626404 5351554 698988
>> 37626409 5352837 667973
>> 37626404 5351406 709303
>> 37626404 5351424 707796
>> 37626404 5351517 700894
>> 37626410 5353003 666463
>> 37626409 5352883 667347
>> 37626409 5352874 667493
>> 37626410 5353003 666474
>> 37626409 5352948 667574
>> 37626408 5352717 668299
>> 37626405 5351868 679227
>> 37626407 5352394 670108
>> 37626404 5351646 695965
>> 37626408 5352569 669591
>> 37626406 5351988 675233
>> 37626407 5352339 670110
>> 37626406 5352172 670095
>> 37626408 5352597 668901
>> 37626407 5352422 670716
>> 37626408 5352560 668695
>> 37626405 5351674 690904
>> ---end data file
>>
>> pro plane_fit, x, y, z, file=filnam
>>
>> IF NOT Keyword_set(filnam) THEN BEGIN
>>   filnam=dialog_PICKFILE( PATH=path,TITLE='Select xyz Data for',
>> /MULTIPLE_FILES, /MUST_EXIST)
>> ENDIF
>>
>> print, "

```

```

>> print,'Filename: ', filnam
>> print, '
>>
>>
>> A = 0L & B = 0L & C =0L
>>
>> FOR i=0, N_ELEMENTS(FILNAM)- 1 DO BEGIN
>>   Aa = 0L & Bb = 0L & Cc =0L
>>   OPENR, lun, filnam[i], /GET_LUN
>>   TRANSREAD, lun, Aa, Bb, Cc,FORMAT='D0.0, D0.0, D0.0', $
>>   FILENAME=filnam[i]
>>   FREE_LUN, lun
>> xA=[A,Aa]
>> yB=[B,Bb]
>> zC=[C,Cc]
>> ENDFOR
>>
>>
>> print, 'number of data lines: ', n_elements(xA)
>>
>> ;---Extracting the data from the variables
>>   lon=xA[*]
>>   lat=yB[*]
>>   elev=zC[*]
>>
>> ;-- Creating a 3 column dbl array to house the lon, lat and elev data
>>   combo=fltarr(3,N_ELEMENTS(lon))
>>
>> ;-- Passing the data into the array
>>   combo[0,*] = lon
>>   combo[1,*] = lat
>>   combo[2,*] = elev
>>   data=combo
>> print, 'first lines of data from original file: ', data(*, 0:2)
>> ;--Display the original data
>> return
>> end;
>>
>> Thanks in advance,
>>
>> Dave
>>
>
>

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