



```

>> Ben
>> { x86_64 darwin unix Mac OS X 7.1 Apr 21 2009    64    64}
>>
>> ;data-in.txt looks like the following
>>
>> ;-1.8750000000 78.8750000000 1.317
>> ;-1.8750000000 78.6250000000 1.284
>> ;-1.8750000000 78.3750000000 1.216
>> ;-1.8750000000 78.1250000000 1.148
>> ;-1.8750000000 77.8750000000 1.080
>>
>> infile = "data-in.txt"
>> n = FILE_LINES(infile)
>> s = FLTARR(3, n)
>> OPENR, U, infile, /GET_LUN
>> READF, U, s
>> FREE_LUN, u
>>
>> outfile = "data-out.txt"
>> OPENW,U, outfile,/GET_LUN
>> PRINTF, U, s
>> FREE_LUN, U
>>
>> ; data-out.txt looks like the following
>>
>> ;   -1.87500    78.8750    1.31700
>> ;   -1.87500    78.6250    1.28400
>> ;   -1.87500    78.3750    1.21600
>> ;   -1.87500    78.1250    1.14800
>> ;   -1.87500    77.8750    1.08000
>
> Thanks Ben. Your way is perfect. I don't know why my way does not
> working?
> Cheers
> Dave

```

Hi again,

I know that when I get bogged down with this kind of stuff (happens often\*) using a tiny simple example helps - I like to use BINDGEN to create an ordered easy-to-read array. Below, you can see that I separate the reformed array (rs) from the transposed reformed array (trs). See how reform inserts the data into the new array in the original order? Note that the top row in rs is ordered 0,1,2,3,4. Does the rs value printed look like what you expected? Then also note that down the first column the order is 0, 5, 10. When you transpose it back to being a 3x5 array the top row becomes 0,5,10. Thus your woes begin.

```
IDL> s = bindgen(3,5)
IDL> rs = reform([s[0,*],s[1,*],s[2,*]],n_elements(s[2,*]),3)
IDL> trs = transpose(rs)
IDL> print, s
  0  1  2
  3  4  5
  6  7  8
  9 10 11
 12 13 14
IDL> print, rs
  0  1  2  3  4
  5  6  7  8  9
 10 11 12 13 14
IDL> print, trs
  0  5 10
  1  6 11
  2  7 12
  3  8 13
  4  9 14
```

Cheers,  
Ben

\* Especially now that I use R a lot. It's either row- or column- major.  
I can't remember, but I know it is whatever IDL isn't.

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