Subject: saving arrays within loop
Posted by rkombiyil on Sun, 22 Apr 2007 13:15:30 GMT
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Dear listmembers,

I am wondering what is the best way to tackle this situation, in order to "avoid using loops". Maybe it's trivial, but please be kind, newbie here, still in the learning process...
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I have binary datafiles (daily records for every minute from a given station) which I could read using anonymous structures without any problem. What I am trying to do is to read data from different stations and group them into one big array, having indices = (number_of_stations, data_having_dimensions_of_dim).

For example, I have tried this.. Outside the loop, I define the struct and replicate the struct and within the loop, read the complete datafile ('data', having dimensions of1440,31) from different stations.
---

numdays=31 & numhrs= 24L & numins=60L

dim=numdays*numhrs*numins

;------------------
;stations is a string array containing station ID

for i=0,n_elements(stations)-1 do begin

;---------> this doesn't work, problem with indexing? <-----

temp=fltarr(n_elements(stations),dim)
temp[i,*]=reform(data.temp,dim)

----

endfor

;--
I think, the problem is the way I am imagining arrays, those data (data.temp having dimension, dim) doesn't go into array 'temp' , such that I have:

temp[0,*], temperature values for the first station

temp[1,*], for the second station and so on..

But only, the last station values get stored?! Do I need to index the individual station temp values? I didn't think so.

What is it that I am doing which is so obviously wrong? I am brain dead, please help! Sorry for the long mesg, hope I am "clear".
TIA,
~rk

Subject: Re: saving arrays within loop
Posted by MarioIncandenza on Tue, 24 Apr 2007 16:29:08 GMT
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> for i=0,n_elements(stations)-1 do begin
> temp=fltarr(n_elements(stations),dim)
> endfor

You are re-declaring (filling with zeroes) your output array on each pass through the loop. This is why only the last value is stored.
