
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 of 1440,31) 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.
