
Subject: Re: reading data into structs (was (no subject))

Posted by [Seren A. Barr-Kumara](#) on Tue, 08 Aug 1995 07:00:00 GMT

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> Pearson J E <jepear@essex.ac.uk> wrote:
>> A small problem I am having in pvwave.
>>
>> How do you read in values from data files into structs?
>>
>> Any help would be appreciated.
>

Say you have some data

Lat Lon Height

10 10 50

10 10 60

etc 10 lines of data.

Define your stucture as a line

```
tmp = oneline{lat:0, lon:0, height:0} ; all intger values
```

```
;replicate the line for the number of data points create an  
;array of structures
```

```
data = replicate(tmp,10)
```

```
;you can now readin the data in one line
```

```
line="
```

```
openr, unit1, 'filein', /get_lun
```

```
readf, unit1, line ; need to get rid of headers
```

```
readf, unit1, data
```

```
close, unit1
```

```
;you can now access the data eg single line at a time etc
```

```
y = data(i).lon
```

```
or to fit some criteria of lat
```

```
x = data(where (lat gt 20)).height
```

Sometimes you need to define the structure as in a length wise manner. (easier for certain types of manipulation).

Then you would need to read each in sequentially
and assign to the variable.

eg; you have a single lat lon followed by 10 height measurements
and 12 sets of these

```
tmp = oneset {lat:0, lon:0, heights:fltarr(10)}  
data = replicate(tmp,12)  
to read in  
dummy =fltarr(10)
```

```
for i=0, 11 do begin  
  readf, unitx, lat, lon  
  data(i).lat =lat  
  data(i).lon =lon  
  readf, unitx, dummy  
  data(i).heights=dummy  
endfor
```

hope this helps

Regards
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