Subject: Moving array of data into a table Posted by JH7 on Thu, 25 Jul 1996 07:00:00 GMT

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I need to be able to convert an array of structures to a table so that I can do a query on it.

The build_table function can not do this since it does not accept variables that are a part of a structure it only accepts 1D vectors of data.

Ex. This code shows that a data file of unknown structure has been read into an array of structures. Which should then be transfered into a table.

; Code to read the data file and put the data into a stucture

```
nfields = 50 ; this value is read from ascii file header nrec = 20 ; this is calculated from file length; The names of the fields in the record are given in the header as; well the structure of the each record; It looks like the following data_rec = {struct, time:0.0, frame:0L, var:fltarr(nfields-2)} d =assoc(unit,struct,offset); use assoc to read records from the file data = replicate(struct,nrec); create an arrary of records for i=0,nrec-1 do begin ; read each record from file data(i) = d(i); into the arrary structure endfor
```

; Code to tranfer data from structure to the table

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; Create a string to be used by build_table to relate the data in the ; data structure to the columns of data in the table. This string is ; actually generated from a description header that describes the file ; format. One would assume data.time, data.frame, etc... would be a ; 1-D array but pv-wave does not see it that way table_str = 'data.time TIME, data.frame FRAME, & data.var(0) POSX, data.var(1) POSY, ..., & data.var(49) SIZE' ; I get an error on the next line because data.time is not ; considered to be a pv-wave variable table = build_table(table_str)
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Or even better... is there a better way to read a file as shown above directly or indirectly into a table and have the names assigned to each column of data appropriately? However, the structure of the file(table) is unknown until the description header has been read.

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