Subject: Re: Contour dimension problem
Posted by Mat on Sat, 26 Nov 2011 20:40:47 GMT
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On Nov 27, 2:57 am, "Kenneth P. Bowman" <k-bow...@null.edu> wrote:
> In article < f717fe01-26a2-47db-b9f8-1a1157eac...@a2g2000prb.googlegroups .com >,
>
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>
>
> Mat <m...@waikato.ac.nz> wrote:
>> On Nov 26, 5:02 am, "Kenneth P. Bowman" <k-bow...@null.edu> wrote:
>>> In article
>>> < cca14042-fbbd-40da-a693-70828da8c...@s17g2000pra.googlegroup s.com >,
>
>>> Mat <m...@waikato.ac.nz> wrote:
>>>> I'm trying to create a contour plot of temperature, depth and time.
>>>> Right now I have the temperature at 13 depths and 30169 date/times as
>>>> "temp" FLOAT [13, 30169], "depths" Int[13], and "time" FLOAT[30169].
>
>>>> I don't have my dimensions right for the following command:
>
>>>> IDL> contour, temp, time, depths
>>>> % CONTOUR: Array must have 2 dimensions: TEMP.
>>>> % Execution halted at: $MAIN$
>
>>>> Does anyone know the command to contour this data with one degree
>>>> contours?
>
>>>> Thanks for your help
>
>>> Try
>
>>>   HELP, temp, time, depths
>
>>> If temp = temp(depth, time)
>
>>> Then you should call
>
>>>   CONTOUR, temp, depth, time
>
>>> I hope your data is very smooth in the time dimension.
>

>>> Ken Bowman

>

>> Hi Ken,

>

>> Thanks for your help. My data is in 15 min intervals. I would think a

>> matrix is 2d but it still gives me the same error when I create a

>> matrix of temperature and depth! Is there an ideal way to format the

>> data to make this easier. What if I put all the data into a matrix of

>> time, depth, temp. OR separate into 3 vectors?

>

> What is the result when you do this?

>

>   HELP, temp, time, depths

>

> It sounds like you think that temp is a 2-D array, but it is not.

>

> Ken

Hi Ken,

I thought depth_time was 2d but I see its not. Anyway here is the
result of help:
IDL> help, temp, time, depth
TEMP   STRUCT   = -> <Anonymous> Array[1]
TIME   STRUCT   = -> <Anonymous> Array[1]
DEPTH   STRUCT   = -> <Anonymous> Array[1]

I thought this would work for vectors but I get:

IDL> contour, temp,time,depth, /Irregular
% CONTOUR: Struct expression not allowed in this context: TIME.
% Execution halted at: $MAIN$

One thing to note is that this is a very large dataset, with depth,
time, and temp all FLOAT[392197].

Cheers,

Mat