
Subject: Out of range subscript encountered:
Posted by [Katie Burnett](#) on Tue, 23 Feb 2010 17:51:39 GMT
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Hello,

I'm writing a bit of code and receiving the following error message:
Out of range subscript encountered: DU

I have tried everything I can think of to fix this, playing with the values and such. Below is the code associated with this error, as the program itself is quite long:

```
v_400 = FLTARR(84,56)
FOR k=0,26 DO BEGIN
  FOR i=0,83 DO BEGIN
    FOR j=0,55 DO BEGIN

      IF Pres[k,i,j] GT 40000L AND Pres[k+1,i,j] LT
40000L THEN BEGIN
        v_400[i,j] = ((vwind[k+1,i,j]-vwind[k,i,j])/
(pres[k+1,i,j]-pres[k,i,j]))*(40000-Pres[k,i,j]) + vwind[k,i,j]
        ENDIF
      ENDFOR
    ENDFOR
  ENDFOR
ENDFOR

du = FLTARR(84,56)
FOR k=0,26 DO BEGIN
  FOR i=0,82 DO BEGIN
    FOR j=0,54 DO BEGIN
      du[i,j] = (u_400[i+1,j]-u_400[i,j])/(2*dx)
    ENDFOR
  ENDFOR
ENDFOR
```

I wasn't able to bold the line that's causing the trouble, but it's not liking the fourth line from the bottom ($du[i,j] = (u_400[i+1,j] - u_400[i,j]) / (2 * dx)$)

I've used this exact same bit of code several other times in the program for other variables and this is the one giving me a problem.
Help?!

Thanks,
Katie
