
Subject: Why is my code truncating my image dimensions?

Posted by [adhdunn](#) on Mon, 13 Aug 2012 15:33:51 GMT

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Hi!

I am trying to read in two datasets (Landsat and NLDAS) using a .ctl file but my code seems to be truncating the last digit of the Landsat image. I have run through various trials to see why this is happening, with not luck. If someone could take a look below and see if a glaring error pops out I would greatly appreciate it!

NOTE*** The Landsat image has dimensions 7931 x 7001. The NLDAS file has dimensions of 224 x 464. The NLDAS data dimensions read in correctly, but the Landsat image prints 793 and 700. In the code below 'nmx' and 'nmy' represent the Landsat input while 'nx' and 'ny' represent the NDLAS input. My original thought was that the data type was set wrong, but I no longer think this to be the case after several test. Also, the truncation occurs when it is first read in not after the FIX operation (if that matters).

Any suggestions would be appreciated! Thank you!!

Here is the code:

```
OPENR, 1, fname_ctl
```

```
nmx = 0L & nmy = 0L & nx = 0L & ny = 0L & rad_fname = " & $
fname0 = " & fname1 = " & fname2 = " & fname3 = " & fname4 = " & fname5 = " & $
fname6 = " & fname7 = " & fname8 = " & fname9 = " & fname10 = " & $
fname11 = " & fname12 = " & fname13 = " & fname14 = " & fname15 = " & $
fname16 = " & fname17 = " & fname18 = " & fname19 = " & fname20 = " & $
fname21 = " & fname22 = " & fname23 = " & fname50 = "
```

```
; Read in each line
```

```
WHILE (~ EOF(1)) DO BEGIN
```

```
  READF, 1, $
  FORMAT = '(I3,3(/,I3),25(/,A100),/,A100)', nmx, nmy, nx, ny, rad_fname, fname0, $
    fname1, fname2, fname3, fname4, fname5, fname6, fname7, fname8, fname9, fname10, $
    fname11, fname12, fname13, fname14, fname15, fname16, fname17, fname18, fname19, fname20, $
    fname21, fname22, fname23, fname50
```

```
  PRINT, $
  FORMAT = '(I3,3(/,I3),25(/,A100),/,A100)', nmx, nmy, nx, ny, rad_fname, fname0, $
    fname1, fname2, fname3, fname4, fname5, fname6, fname7, fname8, fname9, fname10, $
    fname11, fname12, fname13, fname14, fname15, fname16, fname17, fname18, fname19, fname20, $
    fname21, fname22, fname23, fname50
```

ENDWHILE

; Convert the read in values to proper type

nx = FIX(nx, TYPE = 3) ; nx and ny are the dimensions of the NLDAS data.

ny = FIX(ny, TYPE = 3)

nmx = FIX(nmx, TYPE = 3) ; nmx and nmy are the dimensions of the LANDSAT

nmy = FIX(nmy, TYPE = 3) ; image taken from the header information.

****THIS IS WHAT PRINTS OUT-

793

700

224

464
