Subject: Re: Why is my code truncating my image dimensions?
Posted by Helder Marchetto on Mon, 13 Aug 2012 16:03:46 GMT
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On Monday, August 13, 2012 5:33:51 PM UTC+2, adh...@gmail.com wrote:
> 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,fnam e9,fname10,$
>
>  fname11,fname12,fname13,fname14,fname15,fname16,fname17,fnam
e18,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,fnam e9,fname10,$
>
>  fname11,fname12,fname13,fname14,fname15,fname16,fname17,fnam
e18,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
```

Hi,
although I have no experience with such images, my first guess is that you need to change the FORMAT in the READF command.
Using '(I3)' will read 3 digits of integer numbers. I would put a I4. Can you check what comes up by doing that?
Therefore try with: FORMAT = '(I4,/,I4,2(/,I4),25(/,A100),/,A100)'
(I have not tested this...!!!)
Cheers,
Helder