
Subject: Strange behaviour ? of Subscript range values of the form low:high

Posted by [LNpellen](#) on Thu, 16 Jun 2011 06:28:44 GMT

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I want to paste a small matrix into a large matrix and I have done this several times before, but suddenly I've met the wall...

The two matrices

```
DOSETEMP      FLOAT    = Array[493, 300]
```

```
DOSETEMPFULL  FLOAT    = Array[512, 512]
```

and I want to do this:

```
doseTempFull[xstart:xslutt,ystart:yslutt]=doseTemp
```

```
print, xstart,xslutt,ystart,yslutt
```

Gives me

```
19      511      100      399
```

This works ok:

```
doseTempFull[19:511,100:399]=1
```

or

```
doseTempFull[19:511,100:399]=doseTemp
```

but the real code do not work:

```
doseTempFull[xstart:xslutt,ystart:yslutt]=doseTemp
```

This gives me the typical error:

```
% XMANAGER: Caught unexpected error from client application. Message follows...
```

```
% Subscript range values of the form low:high must be >= 0, < size, with low <= high: DOSETEMPFULL.
```

What is going on here? Writing the values works, but the variables with the same values don't....

Please give me the obvious explanation that I cannot see.

Best regards

Ellen

Subject: Re: Strange behaviour ? of Subscript range values of the form low:high

Posted by [Brian Daniel](#) on Tue, 21 Jun 2011 11:22:30 GMT

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On Jun 21, 3:33 am, LNpellen <lnpel...@gmail.com> wrote:

```
> The story goes on - and the problem occurs again and this time even  
> stranger (to me).
```

```

>
> I stop my code just before the error occurs and do some printouts:
>
> IDL> help, doseTemp
> DOSETEMP      FLOAT    = Array[502, 494]
> IDL> help, doseTempFull
> DOSETEMPFULL  FLOAT    = Array[512, 512]
> IDL> print, x1,x2,y1,y2
>      5      506      3      496
> IDL> doseTempFull[5:506,3:496]=doseTemp
> IDL> doseTempFull[x1:x2,y1:y2]=doseTemp
>
> Everything works fine to this point. The latter line above is the next
> line in the code and it appears to run with no errors so lets continue
> the code:
>
> IDL> .cont
> % XMANAGER: Caught unexpected error from client application. Message
> follows...
> % Subscript range values of the form low:high must be >= 0, < size,
> with low <= high: DOSETEMPFULL.
> % Execution halted at: GENERATEDDOSEDISPLAY 106 P:\RTPlanViewer
> \RTPlanViewer\generateDoseDisplay.pro
> %
> %          RTPLANVIEWER_EVENT 291 P:\RTPlanViewer
> \RTPlanViewer\RTPlanViewer_event.pro
> %
> %          XMANAGER_EVLOOP_STANDARD 478 C:\Programfiler
> \ITT\IDL71\lib\xmanager.pro
> %
> %          XMANAGER          708 C:\Programfiler\ITT
> \IDL71\lib\xmanager.pro
> %
> %          RTPLANVIEWER      109 P:\RTPlanViewer
> \RTPlanViewer\RTPlanviewer.pro
> %
> %          $MAIN$
>
> So the "doseTempFull[x1:x2,y1:y2]=doseTemp" works in command line, but
> not in the code..... I understand nothing.
>
> Ellen

```

Ellen,

Try pulling this section of code out of your application and into a stand-alone procedure. I have no idea why this would happen, but maybe XMANAGER is to blame? If true, the bug is with XMANAGER and the GUI side of IDL, if not, the bug is much more sinister. Just my two cents.

-Brian

Subject: Re: Strange behaviour ? of Subscript range values of the form low:high
Posted by [David Fanning](#) on Tue, 21 Jun 2011 17:53:00 GMT
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LNpellen writes:

> So the "doseTempFull[x1:x2,y1:y2]=doseTemp" works in command line, but
> not in the code..... I understand nothing.

I would like to see not a PRINT of these four variables, but a HELP. I still think these are not scalars, but vectors.

Help, x1, x2, y1, y2

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thue. ("Perhaps thos speakest truth.")

Subject: Re: Strange behaviour ? of Subscript range values of the form low:high
Posted by [LNpellen](#) on Wed, 22 Jun 2011 05:36:58 GMT
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Thank you for helping me finding the right focus here. I had focus on the fact that the variables were integers, not float or string and then I forgot to check wether it was scalars not vectors. I had been using the WHERE function to find the y values.... And also I had the code two similar places with this type of code and it turned out that I kept debugging the first after this was fixed and overlooked that the line number where the error actually occured had changed....
Arg ...

Thank you so much for pointing me back on the road!

On 21 Jun, 19:53, David Fanning <n...@dfanning.com> wrote:

> LNpellen writes:
>> So the "doseTempFull[x1:x2,y1:y2]=doseTemp" works in command line, but
>> not in the code..... I understand nothing.
>

> I would like to see not a PRINT of these four
> variables, but a HELP. I still think these are
> not scalars, but vectors.
>
> Help, x1, x2, y1, y2
>
> Cheers,
>
> David
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>
> Sepore ma de ni thue. ("Perhaps thos speakest truth.")
