
Subject: Re: tvimage, imcontour and ps dimensions
Posted by [David Fanning](#) on Fri, 15 Apr 2005 21:53:57 GMT
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burkina writes:

```
> I have a problem with ps output.  
> I have an astronomical image with some contours on it. I use tvimage  
> and imcontour.  
> So far so good.  
> I want to produce several similar (but different!) images with exactly  
> the same ps width and height size.  
> The ps file is created in the script in this way:  
>  
> set_plot, 'ps'  
> device, filename='test.ps', xsize=20, ysize=20, /color  
>  
> The problem is that in this way (of course no matter the x and ysize),  
> I get the y labels of the imcontour outside of the ps file, the image  
> is truncated at the axis.  
> It happens the same if I work on the screen, but if I resize it  
> manually and then retry an imcontour, after a few trial I get the right  
> result.  
> If then I use again the ps device, I also get all the image on the file  
> but, since I resize the screen manually, the actual size of the image  
> inside the ps is everytime different!  
>  
> What am I doing wrong?
```

Humm. I'm not sure even when you get it to work
you are doing anything right. :-)

Why don't you show us the code. It might offer
a few more clues. But I suspect maybe you haven't
read the documentation in the program headers.

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: tvimage, imcontour and ps dimensions

Posted by [burkina](#) on Sun, 17 Apr 2005 10:14:08 GMT

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Here is my code. I get the same problem even if I do not redefine all the ! variables.

Thanks,

Stefano

```
file='file.fits'
```

```
im=readfits(file,hdr)
```

```
file2='file2.fits'
```

```
hst=readfits(file2,hdr2)
```

```
hextract, hst, hdr2, 100, 480, 220, 460
```

```
hastrom, im, hdr, hdr2, MISSING=0
```

```
sm=smooth(im,15,/edge_truncate)
```

```
set_plot, 'ps'
```

```
device, filename='test_paper.ps', xsize=20, ysize=20, /color
```

```
!P.charsize=0.8
```

```
!P.thick=5
```

```
!X.thick=3
```

```
!Y.thick=3
```

```
!P.charthick=3
```

```
erase
```

```
tvimage,bytsc1(-hst,min=-20,max=0),/keep_aspect, position=pos
```

```
imcontour, alog(sm), hdr, nlevels=3, min_value=-0.6, max_value=3,  
position=pos, /TYPE, /noerase,color=fsc_color('black'), subtitle="",  
title="Test"
```

```
device, /close_file
```

Subject: Re: tvimage, imcontour and ps dimensions

Posted by [David Fanning](#) on Sun, 17 Apr 2005 22:36:50 GMT

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Stefano writes:

```

> Here is my code. I get the same problem even if I do not redefine all
> the ! variables.
>
> Thanks,
>
> Stefano
>
> file='file.fits'
> im=readfits(file,hdr)
>
> file2='file2.fits'
> hst=readfits(file2,hdr2)
>
> hextract, hst, hdr2, 100, 480, 220, 460
>
> hastrom, im, hdr, hdr2, MISSING=0
>
> sm=smooth(im,15,/edge_truncate)
>
> set_plot, 'ps'
> device, filename='test_paper.ps', xsize=20, ysize=20, /color
>
> !P.charsize=0.8
> !P.thick=5
> !X.thick=3
> !Y.thick=3
> !P.charthick=3
>
> erase
>
> tvimage,bytsc1(-hst,min=-20,max=0),/keep_aspect, position=pos
>
> imcontour, alog(sm), hdr, nlevels=3, min_value=-0.6, max_value=3,
> position=pos, /TYPE, /noerase,color=fsc_color('black'), subtitle="",
> title="Test"
>
> device, /close_file

```

Ah, right. I see you **were** reading the header documentation.
Sometimes that's the problem. :-)

What you want to do is define the variable "pos" before
you use it in the TVIMAGE command. That will solve
all your problems, I think:

```

pos = [0.1, 0.1, 0.9, 0.9]
tvimage,bytsc1(-hst,min=-20,max=0),/keep_aspect, position=pos
imcontour, alog(sm), hdr, nlevels=3, min_value=-0.6, max_value=3, $

```

```
position=pos, /TYPE, /noerase,color=fsc_color('black'), $  
subtitle="", title="Test"
```

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: tvimage, imcontour and ps dimensions
Posted by [burkina](#) on Mon, 18 Apr 2005 08:56:40 GMT
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Thank you David,

that did the trick!
Actually, pos = [0.1, 0.1, 0.9, 0.9] seems to be the default (am I
right?), you need something more than 0.1 to get the y axis label of
imcontour inside the ps.

Thanks again,

Stefano
