
Subject: Re: IImage Command Line
Posted by [Jean H.](#) on Mon, 16 Oct 2006 17:55:25 GMT
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StevenM wrote:

> I hope that someone can help me.
>
> I have a 3D array of data. I am trying to display this using iimage.
> When I use the command
> iimage, filename(*,*,30)
> I get the slice I want through the volume. But if I try to get the
> slice at another orientation i.e
> iimage, filename(30,*,*)
> I get an error message that says the first argument is invalid.
>
> If I use the tvscl command I get images in both orientations with no
> problems but I would rather use iimage as I find further manipulations
> are easier.
>
> Thanks in advance
>
> Steven
>

try iimage, REFORM(filename[30,*,*])

If you put a number in the first position, you will have an additional dimension of size 1.

a = indgen(10,10,10)

```
DL> help, a[*,*,1]
<Expression>  INT      = Array[10, 10]
IDL> help, a[2,*,*]
<Expression>  INT      = Array[1, 10, 10]
IDL help, reform(a[2,*,*])
<Expression>  INT      = Array[10, 10]
```

Jean

Subject: Re: IImage Command Line
Posted by [Michael Galloy](#) on Mon, 16 Oct 2006 18:01:10 GMT
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StevenM wrote:

> I have a 3D array of data. I am trying to display this using iimage.
> When I use the command

> iimage, filename(*,*,30)
> I get the slice I want through the volume. But if I try to get the
> slice at another orientation i.e
> iimage, filename(30,*,*)
> I get an error message that says the first argument is invalid.

Try:

```
iimage, reform(filename[30, *, *])
```

It's one of those quirks of IDL that

```
filename[*, *, 30]
```

is a m by n array, but

```
filename[30, *, *]
```

is a 1 by n by k array. iimage does not like a 1 by m by n array. The REFORM above removes the extra dimension of size 1 (and can do other dimension juggling tasks with more arguments).

Mike

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