
Subject: How to reform a 3-D array?

Posted by [atmospheric physics](#) on Fri, 13 Mar 2015 16:20:28 GMT

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Hello,

I have a data array in 3-dimensions i.e., X -> BYTE = [3,360,2167]. I want to transform the data array retaining the same dimensions as X' -> BYTE = [3,2167,360]. Is there a simple function in IDL which can automatically rearrange the data to the new dimensions?

Any suggestions would be of great help.

Thanking you in advance,

Regards,

Madhavan

Subject: Re: How to reform a 3-D array?

Posted by [Helder Marchetto](#) on Fri, 13 Mar 2015 16:24:56 GMT

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On Friday, March 13, 2015 at 5:20:29 PM UTC+1, Madhavan Bomidi wrote:

> Hello,

>

> I have a data array in 3-dimensions i.e., X -> BYTE = [3,360,2167]. I want to transform the data array retaining the same dimensions as X' -> BYTE = [3,2167,360]. Is there a simple function in IDL which can automatically rearrange the data to the new dimensions?

>

> Any suggestions would be of great help.

>

> Thanking you in advance,

> Regards,

> Madhavan

Would this do:

```
IDL> a = bytarr(3,50,100)
```

```
IDL> help, transpose(a,[0,2,1])
```

```
<Expression>  BYTE    = Array[3, 100, 50]
```

Cheers,

Helder

Subject: Re: How to reform a 3-D array?

Posted by [Helder Marchetto](#) on Fri, 13 Mar 2015 16:27:41 GMT

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On Friday, March 13, 2015 at 5:24:58 PM UTC+1, Helder wrote:

> On Friday, March 13, 2015 at 5:20:29 PM UTC+1, Madhavan Bomidi wrote:

>> Hello,

>>

>> I have a data array in 3-dimensions i.e., X -> BYTE = [3,360,2167]. I want to transform the data array retaining the same dimensions as X' -> BYTE = [3,2167,360]. Is there a simple function in IDL which can automatically rearrange the data to the new dimensions?

>>

>> Any suggestions would be of great help.

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>> Thanking you in advance,

>> Regards,

>> Madhavan

>

> Would this do:

> IDL> a = bytarr(3,50,100)

> IDL> help, transpose(a,[0,2,1])

> <Expression> BYTE = Array[3, 100, 50]

>

> Cheers,

> Helder

Here is a better example:

IDL> file1 = FILEPATH('Night.jpg', SUBDIRECTORY=['examples','data'])

IDL> read_jpeg, file1, a

IDL> help, a

A BYTE = Array[3, 1024, 512]

IDL> image(transpose(a,[0,2,1]))

This way the image is...weel, transposed.

Cheers,

Helder