
Subject: Re: the dimension of array

Posted by [Mark Hadfield](#) on Wed, 17 Oct 2001 03:30:17 GMT

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From: "jjiali" <jiali3@21cn.com>

> Hi, I offer use the following operation:

> a=fltarr(10,10,10) is a 3-d array,

> if I set

> b=a(0,*,*), it is still a 3-d array. But I hope b is a 2-d

> array. How can I do then?

Use REFORM. From the documentation:

"The REFORM function changes the dimensions of an array without changing the total number of elements. If no dimensions are specified, REFORM returns a copy of Array with all dimensions of size 1 removed..."

For example

```
IDL> a = fltarr(10,10,10)
```

```
IDL> b = a[0,*,*]
```

```
IDL> c = reform(b)
```

```
IDL> help, a, b, c
```

```
A FLOAT = Array[10, 10, 10]
```

```
B FLOAT = Array[1, 10, 10]
```

```
C FLOAT = Array[10, 10]
```

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