
Subject: Re: the dimension of array

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

[View Forum Message](#) <> [Reply to Message](#)

From: "jjali" <jjali3@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]
```

Mark Hadfield

m.hadfield@niwa.cri.nz <http://katipo.niwa.cri.nz/~hadfield>

National Institute for Water and Atmospheric Research

--

Posted from clam.niwa.cri.nz [202.36.29.1]

via Mailgate.ORG Server - <http://www.Mailgate.ORG>
