
Subject: Re: Adding or deduct values in a ARRAY

Posted by [btt](#) on Fri, 19 Jan 2007 13:45:03 GMT

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Erik wrote:

> Hey Wox,

>

> Thanks for your reply.

>

> I've tried `ARR1[0,*] -10` and `ARR1[0,*,*] -10` (both the same)

>

> Then I got a float array with dimensions [1, 4]

>

> 83.0000

> 83.0000

> 141.000

> 141.000

>

> These are the good values, however as stated before I want the array to

> stay a [3,4] array with the old Y and Z values still stored in it.

>

Hello Erik,

I think you might have missed the subtle syntax that Wox posted. It both reduced the first column by 10 AND assigned the result to the original column.

```
IDL> arr1 = FINDGEN(3,4)
```

```
IDL> print, arr1
```

0.00000	1.00000	2.00000
3.00000	4.00000	5.00000
6.00000	7.00000	8.00000
9.00000	10.0000	11.0000

the following is the assignment that reduces the first column by 10, this is the "traditional" way to do it and it is pretty clear

```
IDL> arr1[0,*] = arr1[0,*] - 10
```

```
IDL> print, arr1
```

-10.0000	1.00000	2.00000
-7.00000	4.00000	5.00000
-4.00000	7.00000	8.00000
-1.00000	10.0000	11.0000

and the following syntax does the same thing (note the "-=") even though it is a little less obvious until you get used to it

```
IDL> arr1[0,*] -= 10
IDL> print, arr1
-20.0000    1.00000    2.00000
-17.0000    4.00000    5.00000
-14.0000    7.00000    8.00000
-11.0000   10.0000    11.0000
```

most likely you have been assigning the result of the subtraction to a new variable which assigns the new variable the (changed) value of the first column

```
IDL> arr2 = arr1[0,*] - 10
IDL> print, arr2
-30.0000
-27.0000
-24.0000
-21.0000
```

Does the help?
Ben
