
Subject: Re: Sky Falling, etc. : Array substitution + addition with plus-equal (+=)

Posted by [Y.T.](#) on Tue, 13 Mar 2007 07:19:52 GMT

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On Mar 12, 2:17 pm, "Ed Hyer" <ejh...@gmail.com> wrote:

> Tentatively filed under "The Sky Is Falling!," and I hope it will be
> resolved in the same fashion.

>

> Here is the test case, which gives the correct result:

>

> IDL> test=fltarr(2,2,4)

> IDL> testadd=fltarr(2,2,2) + 1

> IDL> print,total(test),total(testadd)

> 0.00000 8.00000

> IDL> test[0,0,1] += testadd

[...etc... snipped for brevity]

> 0.00000 0.00000

> 0.00000 0.00000

; Not even JD Smith

> expected _that_.

>

> Any ideas?

I have no idea, but it persists when you

- strip the leading dimension

- switch from += to traditional addition:

IDL> test=fltarr(2,4)

IDL> testadd=fltarr(2,2)

IDL> testadd[0,*]=1

IDL> print,total(test),total(testadd)

0.000000 2.00000

IDL> test[0,1] = test[0,1]+testadd

IDL> print,total(test),total(testadd)

2.00000 2.00000

IDL> test[0,1] = test[0,1]+testadd

IDL> print,total(test),total(testadd)

6.00000 2.00000

IDL> print,test

0.000000 0.000000

2.00000 1.00000

2.00000 1.00000

0.000000 0.000000

No, I have no idea what's going on there...
