
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 2.000000
IDL> test[0,1] = test[0,1]+testadd
IDL> print,total(test),total(testadd)
 2.000000 2.000000
IDL> test[0,1] = test[0,1]+testadd
IDL> print,total(test),total(testadd)
 6.000000 2.000000
IDL> print,test
 0.000000 0.000000
 2.000000 1.000000
 2.000000 1.000000
 0.000000 0.000000
```

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