
Subject: array summation

Posted by [Ali Gamal](#) on Tue, 19 Jul 2016 13:45:09 GMT

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Hi,
my IDL program as

```
file='c:\a.sav'  
restore,file,/st
```

```
V=[12,55,44,88,99]
```

```
x=sT[500,1000,15,0] ; it is an image
```

```
y=sT[500,1000,15,2] ; it is an image
```

I want to make

```
z=SUM(v*[x+y])
```

I want to result of z array as [500,1000,15,1], How can I do it ?

Subject: Re: array summation

Posted by [wlandsman](#) on Tue, 19 Jul 2016 14:12:41 GMT

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On Tuesday, July 19, 2016 at 9:45:12 AM UTC-4, AGW wrote:

```
> Hi,  
> my IDL program as  
>  
> file='c:\a.sav'  
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>  
> V=[12,55,44,88,99]  
>  
> x=sT[500,1000,15,0] ; it is an image  
>  
> y=sT[500,1000,15,2] ; it is an image  
>  
> I want to make  
>  
> z=SUM(v*[x+y])  
>
```

```
z = total(v*[x+y])
```

Subject: Re: array summation

Posted by [Ali Gamal](#) on Tue, 19 Jul 2016 14:34:48 GMT

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On Tuesday, July 19, 2016 at 3:45:12 PM UTC+2, AGW wrote:

```
> Hi,  
> my IDL program as  
>  
> file='c:\a.sav'  
> restore,file,/st  
>  
> V=[12,55,44,88,99]  
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> I want to result of z array as [500,1000,15,1], How can I do it ?
```

I try it before, It is not true, result of z is one value not array. I want the result as same dimension of input

Subject: Re: array summation

Posted by [wlandsman](#) on Tue, 19 Jul 2016 14:44:29 GMT

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On Tuesday, July 19, 2016 at 10:34:50 AM UTC-4, AGW wrote:

```
> On Tuesday, July 19, 2016 at 3:45:12 PM UTC+2, AGW wrote:  
>> Hi,  
>> my IDL program as  
>>  
>> file='c:\a.sav'  
>> restore,file,/st  
>>  
>> V=[12,55,44,88,99]  
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>>
```

```
>> z=SUM(v*[x+y])
>>
>>
>> I want to result of z array as [500,1000,15,1], How can I do it ?
>
> I try it before, It is not true, result of z is one value not array. I want the result as same
dimension of input
```

Your original post was mostly jibberish.

$v*[x+y]$ will be a 4 element array. What do you want to do with this array?

Subject: Re: array summation
Posted by [Craig Markwardt](#) on Tue, 19 Jul 2016 16:46:44 GMT
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On Tuesday, July 19, 2016 at 9:45:12 AM UTC-4, AGW wrote:

```
> Hi,
> my IDL program as
>
> file='c:\a.sav'
> restore,file,/st
>
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>
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>
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>
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>
> z=SUM(v*[x+y])
>
>
> I want to result of z array as [500,1000,15,1], How can I do it ?
```

It's not possible with the information you provided.

V is a 5 element vector.

X and Y are single scalar values, not images

The math you describe doesn't make sense with those inputs.

CM

Subject: Re: array summation
Posted by [Ali Gamal](#) on Tue, 19 Jul 2016 17:41:01 GMT

On Tuesday, July 19, 2016 at 3:45:12 PM UTC+2, AGW wrote:

```
> Hi,  
> my IDL program as  
>  
> file='c:\a.sav'  
> restore,file,/st  
>  
> V=[12,55,44,88,99]  
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> I want to make  
>  
> z=SUM(v*[x+y])  
>  
>  
> I want to result of z array as [500,1000,15,1], How can I do it ?
```

OK, x=sT[0:499,0:999,15,0] & x=sT[0:499,0:999,15,2]

Subject: Re: array summation

Posted by [wlandsman](#) on Tue, 19 Jul 2016 17:59:48 GMT

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On Tuesday, July 19, 2016 at 1:41:07 PM UTC-4, AGW wrote:

```
> On Tuesday, July 19, 2016 at 3:45:12 PM UTC+2, AGW wrote:  
>> Hi,  
>> my IDL program as  
>>  
>> file='c:\a.sav'  
>> restore,file,/st  
>>  
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>>  
>> I want to make  
>>  
>> z=SUM(v*[x+y])  
>>  
>>
```

>> I want to result of z array as [500,1000,15,1], How can I do it ?
>
> OK, x=sT[0:499,0:999,15,0] & x=sT[0:499,0:999,15,2]

OK so it appears that ST is a 4 dimensional array
and now X and Y are 2d images

Now what exactly do you want to do?

>> I want to make
>>
>> z=SUM(v*[x+y])

So you add X and Y to make another 2d image, and then you want to multiply by the 5 element vector v?

Subject: Re: array summation
Posted by [Ali Gamal](#) on Tue, 19 Jul 2016 20:42:38 GMT
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On Tuesday, July 19, 2016 at 3:45:12 PM UTC+2, AGW wrote:

> Hi,
> my IDL program as
>
> file='c:\a.sav'
> restore,file,/st
>
> V=[12,55,44,88,99]
>
> x=sT[500,1000,15,0] ; it is an image
>
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>
> I want to make
>
> z=SUM(v*[x+y])
>
>
> I want to result of z array as [500,1000,15,1], How can I do it ?

OK thank, I will try it

Subject: Re: array summation
Posted by [Ali Gamal](#) on Tue, 26 Jul 2016 14:35:11 GMT
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On Tuesday, July 19, 2016 at 3:45:12 PM UTC+2, AGW wrote:

```
> Hi,  
> my IDL program as  
>  
> file='c:\a.sav'  
> restore,file,/st  
>  
> V=[12,55,44,88,99]  
>  
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>  
> I want to make  
>  
> z=SUM(v*[x+y])  
>  
>  
> I want to result of z array as [500,1000,15,1], How can I do it ?
```

OK, now if x=sT[0:499,0:999,0:14,0], I want to print values form 0:14 only, how can I do it

Subject: Re: array summation

Posted by [wlandsman](#) on Tue, 26 Jul 2016 18:20:08 GMT

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On Tuesday, July 26, 2016 at 10:35:14 AM UTC-4, AGW wrote:

```
> On Tuesday, July 19, 2016 at 3:45:12 PM UTC+2, AGW wrote:  
>> Hi,  
>> my IDL program as  
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>>  
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>>  
>> z=SUM(v*[x+y])  
>>  
>>  
>> I want to result of z array as [500,1000,15,1], How can I do it ?  
>
```

> OK, now if `x=st[0:499,0:999,0:14,0]`, I want to print values form 0:14 only, how can I do it

Again, we have to guess what you are asking for.

Your array `x` is dimensioned `[500, 1000, 15]`

To print the first 15 values in `x`

```
IDL> print,x[0:14]
```

To print the 15 values along the third dimension starting at `x[0,0,0]`

```
IDL> print,x[0,0,*]
```

Subject: Re: array summation

Posted by [Ali Gamal](#) on Tue, 26 Jul 2016 19:22:16 GMT

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On Tuesday, July 19, 2016 at 3:45:12 PM UTC+2, AGW wrote:

> Hi,

> my IDL program as

>

> `file='c:\a.sav'`

> `restore,file,/st`

>

> `V=[12,55,44,88,99]`

>

> `x=sT[500,1000,15,0]` ; it is an image

>

> `y=sT[500,1000,15,2]` ; it is an image

>

> I want to make

>

> `z=SUM(v*[x+y])`

>

>

> I want to result of `z` array as `[500,1000,15,1]`, How can I do it ?

thanks for your replay
