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Subject: Re: Subtracting from double complex array  
Posted by [alghafisuct](#) on Sun, 10 Jan 2016 10:18:59 GMT  
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On Saturday, January 9, 2016 at 1:02:09 PM UTC-8, Jim P wrote:  
> On Saturday, January 9, 2016 at 7:53:59 AM UTC-7, algha...@gmail.com wrote:  
>> Hi all  
>>  
>> I have a double complex array for example 500 by 500 and I want to subtract (3.5e14 + j  
2.5e12) from all the values in the complex array that I have... Is there a way of doing it in IDL  
>>  
>> Thanks  
>  
> IDL> a = dcomplexarr(500, 500) ; your array, simulated with zeroes  
> IDL> a -= dcomplex(3.5d14, 2.5d12) ; subtracts the scalar from all elements  
> IDL> print, a[0]  
> ( -3.5000000e+014, -2.5000000e+012)  
>  
> Jim P.

Thanks Jim I tried what you gave me and seems like not getting what I want. I have the following:

```
array_HV = make_array(5000, 5359, /dcomplex, /nozero)
filename_HV = ('C:\Users\lasus\Desktop\Metasensing\IDL_PROJECTS\20151021115
853_12_SAR_CPLX_0_pres_8.dat')
OPENR, importUnit, filename_HV, /GET_LUN
READU, importUnit, array_HV
CLOSE, importUnit
FREE_LUN, importUnit
```

```
array_HV = dcomplexarr(5000, 5359) ; your array, simulated with zeroes
array_HV -= dcomplex(3.6435137d11, 1.6869517d12) ; subtracts the scalar from all elements
print, array_HV[0]
```

The value of array\_HV at [2798,2263] is (3.6435137d11, 1.6869517d12) so if I subtract it should read zero when I write print, array\_HV-[2798,2263] but it did not give me zero. It is giving the following:

```
IDL> print, ARRAY_HV -[2798,2263]
( 3.6435137e+011, 1.6869517e+012)( 3.6435137e+011, 1.6869517e+012)
IDL> print, ARRAY_HV [2798,2263]
( 3.6435137e+011, 1.6869517e+012)
```

Hope you got my point

Thanks

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