Subject: complex number woes (help please)
Posted by Steve[3] on Mon, 27 Feb 2006 03:07:34 GMT
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I'm working on a GUI that has 2 text widgets that I use to get the real and imaginary parts of a complex number. I then wish to mutliply this number by every element in a 7x7 array, but my output is yielding only a single complex number (and not the 7x7 complex array output that I'd expect). Funny thing is, I can't seem to reproduce the problem if I just generate a complex number (that is not from my widget),

Here's what I do to create the issue...

```
widget_control, event.top, get_uvalue=global_data
widget_control, global_data.w1_real_id, get_value=real1
widget_control, global_data.w1_imag_id, get_value=imag1
real1=float(real1)
imag1=float(imag1)
w1=complex(real1,imag1)
w2=real1+complex(0,1)*imag1
mat=fltarr(7,7)+1.0
a1=w1*mat
a2=w1*mat
```

Now, both w1, and w2 are showing up as "COMPLEX = Array[1]", and products a1 and a2 have only a single comlplex quatity equal to w1 (but I want 7x7)

Here's the weird part (to me)...

```
w3=complex(float(1),float(0)); try just defining a complex number
q1=float(1)
q2=float(0)
w4=complex(q1,q2); try defining a complex number using variables
sss='1'
sst='0'
w5=complex(float(sss),float(sst)); try defining complex number from
string values
a3=w3*mat
a4=w4*mat
a5=w5*mat
```

Now, w3, w4 and w5 are all "COMPLEX = (1.00000, 0.000000)", and the products are all 7x7 complex arrays.

Any idea what's going on, and why there's a difference?

Thanks in advance for any help...

v/r

-Steve