
Subject: Re: Complex exponentiation problem
Posted by [asb](#) on Tue, 28 May 1996 07:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

It also works correctly if the exponent is a complex array:

```
IDL> w= EXP( -COMPLEX(0.0,1.0)*(2.0*pi)/16)
IDL> print,w
( 0.923880, -0.382683)
IDL> p=[1,2,3]
IDL> print,w^p
( 0.923880, -0.382683)( 0.707107, -0.707107)
( 0.382683, -0.923880)
IDL> p=1.0*p
IDL> print,w^p
( 0.857090, -0.000000)( 0.857090, -0.000000)
( 0.857090, -0.000000)IDL> w= EXP( -COMPLEX(0.0,1.0)*(2.0*pi)/16)
IDL> print,w
( 0.923880, -0.382683)
IDL> p=[1,2,3]
IDL> print,w^p
( 0.923880, -0.382683)( 0.707107, -0.707107)
( 0.382683, -0.923880)
IDL> p=1.0*p
IDL> print,w^p
( 0.857090, -0.000000)( 0.857090, -0.000000)
( 0.857090, -0.000000)
IDL> p=complex(1.,0.)*p
IDL> print,w^p
( 0.923880, -0.382683)( 0.707107, -0.707107)
( 0.382683, -0.923880)

IDL> p=complex(1.,0.)*p
IDL> print,w^p
( 0.923880, -0.382683)( 0.707107, -0.707107)
( 0.382683, -0.923880)
```

Truly bizarre.

Alan
