Subject: Re: Bug/feature in matrix multiply Posted by davidf on Fri, 12 Mar 1999 08:00:00 GMT

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Mark Fardal (fardal@weka.phast.umass.edu) writes:

- > is the following a bug or feature? I don't understand why changing the
- > type of the array changes the dimensions of the result. Then again,
- > it's late on Friday, so my brain might just be mush.

>

- > IDL> junk=fltarr(3)
- > IDL> junk=reform(junk,3,1)
- > IDL> help,junk
- > JUNK FLOAT = Array[3, 1]
- > IDL> help,[3.,2.,1.]#junk
- > <Expression> FLOAT = Array[1]
- > IDL> help,[3.d0,2.d0,1.d0]#junk
- > <Expression> DOUBLE = Array[3, 3]

I don't know if it is a bug or a feature, but I agree that it is strange. But so is this command:

```
junk = reform(junk, 3, 1)
```

Do you mean this:

```
junk = reform(junk, 1, 3)
```

The latter will make a column vector, which makes more sense when multiplied by a row vector. What kind of result were you expecting? From my reading of the # operator I think the result with the floating array is correct. I don't have a clue why the double expression does what it does. :-(

Cheers,

David

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