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Subject: Re: Strange array division problem

Posted by [David Klassen](#) on Thu, 07 May 2009 02:03:39 GMT

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On May 5, 9:07 am, David Fanning <n...@dfanning.com> wrote:

> Dave Klassen writes:

>> This seems to do it (well, without the transpose---I assume because

>> IDL thinks of standard vectors as columns...?).

>

> No, IDL does not think of standard vectors as columns.

Hmmm...really?

```
IDL> a=[[2,1],[3,4]]
```

```
IDL> print,a
```

```
  2   1
```

```
  3   4
```

```
IDL> v=[5,6]
```

```
IDL> print,v
```

```
  5   6
```

```
IDL> print,a##v
```

```
  16
```

```
  39
```

Which leads me to my original thought.

But, then again:

```
IDL> print,a#v
```

```
  28   29
```

So I guess IDL figures a vector is whatever it need to be...?

Interestingly:

```
IDL> print,a###transpose(v)
```

```
  16
```

```
  39
```

But:

```
IDL> print,a#transpose(v)
```

```
% Operands of matrix multiply have incompatible dimensions: A,
```

```
<INT
```

```
  Array[1, 2]>.
```

```
% Execution halted at: $MAIN$
```

So that's confusing.

> P.S. I'd give that result an extra pair of eyeballs

> before you turn it in for a final grade. :-)

Well, I didn't get extra eyes, but I did look long and hard, several times, at the output and it looks like what I expect.

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