Subject: Re: Interesting Rant
Posted by Steve Eddins on Fri, 17 Nov 2006 01:00:48 GMT
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Nigel Wade wrote:
[snip]
>> In MATLAB, both 7/2 and 7/2. evaluate to 3.5 (displayed as
>> 3.5000 by default).
>
> MATLAB defaults to using double precision for all variables. As a corollary to
> the IDL "problem" of 7/2, try the same integer calculation in MATLAB to see how
> useful the opposite camp can be:
>
>>> int16(7)/int16(2)
>
> That one rather annoyed me when MATLAB first introduced non-double matrices.
> After I spent several days reprogramming a MATLAB to C interface so it returned
> integer matrices for integer data I discovered just how comprehensive their
> support of non-double data types was.
>
>
> For those of you who don't have access to MATLAB, the result of the MATLAB
> integer division is:
>
> ??? Error using ==> /
> Function '/' is not defined for values of class 'int16'.
>
> I wonder how much that would annoy our CS major ranter?

Those who have access to MATLAB 7.0 (June 2004) or later would get this:

```
 >> int16(7) / int16(2)
ans =
      4
```

(MATLAB rounds the fractional part instead of truncating it.)

--
Steve Eddins
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