Subject: Re: Recognizing double precision?
Posted by Maarten[1] on Tue, 09 Oct 2007 15:24:04 GMT
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On Oct 9, 3:11 pm, "edward.s.mei...@aero.org" <mei...@aero.org> wrote:
> On Oct 8, 9:18 am, wlandsman <wlands...@gmail.com> wrote:
>
>> Except that single precision or even a long integer (e.g. 2441636)
>> *could* be valid, if the user was not interested in fractional
>> days. I agree that it is probably safest to force the user to
>> input double precision, but this does not feel like the "IDL way".
>> Thanks, --Wayne
>
> Actually, it gets rounded:
>
> IDL> jd = 2441636.1
> IDL> print, jd, f='(f10.2)'
> 2441636.00
> IDL> jd = 2441636.9
> IDL> print, jd, f='(f10.2)'
> 2441637.00
>
> You're right, that is not a good thing. Mathematica has been doing it
> correctly for a long time, why can't IDL?

Well, we have
compile_opt defint32
what I want is
compile_opt defdouble
to have floating point constants on the command line and in code be in
double precision by default. If needed, one can use float() to
explicitly downcast a double, the other way round is impossible.

Best,

Maarten