
Subject: Re: Strange floating-point precision behavior
Posted by [Craig Markwardt](#) on Tue, 11 Feb 2003 03:57:36 GMT
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James Kuyper <kuyper@saicmodis.com> writes:

>
> Are you sure those are ECI coordinates? Interpreted as ECR
> (Earth-Centered Rotating) coordinates, they correspond pretty closely to
> Boulder CO. Interpreted as ECI coordinates, you'd need a fourth value,
> the precise time at which the conversion from ECI to ECR should occur.
> ECI and ECR coordinates match only once each day, so it would be quite a
> coincidence if those ECI coordinates happened to match the ECR
> coordinates for Boulder.

And, if 12 cm precision is really desired, then earth precession,
nutation, and polar wander are of concern, in which case, ECI and ECR
match each other... pretty much never! :-)

Craig

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