
Subject: Planetary ephemeris library?

Posted by [anton](#) on Wed, 26 Apr 1995 07:00:00 GMT

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I'm just wondering - is there any library which performs physical ephemeris calculations for planets. Like subearth/subsolar latitude/longitude, position angle etc.

I wrote some extrapolation for Astronomical Almanac, but I don't like it.

Thanks

Anton

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Subject: Re: Planetary ephemeris library?

Posted by [chris](#) on Tue, 02 May 1995 07:00:00 GMT

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Anton Ivanov (anton@mola.gps.caltech.edu) wrote:

: I'm just wondering - is there any library which performs physical
: ephemeris calculations for planets. Like subearth/subsolar latitude/longitude,
: position angle etc.
: I wrote some extrapolation for Astronomical Almanac, but I don't like it.

I'm not sure if this is what you want, but I have written an IDL program which drives the JPL Planetary Ephemeris, (which you must download from navigator.jpl.nasa.gov) Basically it gives the position and velocity of any planet w/ respect to any other planet, including the Solar System Barycenter, Earth-Moon barycenter & Moon.

Presently, its setup in a somewhat machine specific way, but I intend to make it portable in the near future. Let me know if this is what you want.

-chris
