
Subject: Re: hor2eq mystery - disagreeing output from same input?

Posted by [wlandsman](#) on Wed, 17 Jun 2009 15:17:46 GMT

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On Jun 17, 9:45 am, MichaelT <michael.theus...@googlemail.com> wrote:

> I have run into a problem using the hor2eq. It output different
> results when using single values from an array as input (correct
> output) compared to using the same array as a whole (wrong output).

First, for non-astronomers, hor2eq.pro is a program in the IDL astronomy library (<http://idlastro.gsfc.nasa.gov>). The vectorization was done incorrectly (not by me), or at least it didn't anticipate all usages. It assumed that the Julian date would be supplied as a vector with a separate date for each position. (So it would loop over the number of Julian dates.) But you are giving a scalar Julian date with vector positions, so all positions except the first are not being precessed. I have now updated hor2eq.pro to recognize your case (<http://idlastro.gsfc.nasa.gov/ftp/pro/astro/hor2eq.pro>)

--Wayne
