
Subject: Re: displaying an image in simple geographic coordinates

Posted by [James Kuyper](#) on Tue, 29 May 2007 17:36:18 GMT

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Matt wrote:

> Any reason why my !RADEG values appear to be different than the ones
> posted above? When I run the same commands I get different results:

>

> IDL> map_set, /continents, /grid

> IDL> print,map_proj_forward([-90,90],[-45,45])*!RADEG

> -90.000001 -45.000001

> 90.000001 45.000001

>

> Not a huge difference but it seems to me like the conversion factor

> should be the same, right?

This looks like a floating point round-off error to me. See <http://www.dfanning.com/math_tips/sky_is_falling.html> for relevant information. We are probably running on different platforms. I performed that test on my Linux desktop machine; where "uname -srvmp" gives:

Linux 2.4.21-47.EL #1 Tue Aug 1 08:56:24 EDT 2006 i686 i686

If you're using a different platform, then it's quite feasible for your round-off errors to be a little different from the ones I get on my machine.
