Subject: Re: FITS WCS routines

Posted by Chris[7] on Thu, 19 Aug 2010 21:02:06 GMT

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I would also love to see the IDL astro WCS procedures handle N-dimensional (or at least 3 dimensional) image arrays. I've had to write clumsy wrappers to extract coordinate information from spectral data cubes.

chris

On 8/19/10 10:49 AM, wlandsman wrote:

- > On Aug 19, 3:51 pm, Jeremy Bailin<astroco...@gmail.com> wrote:
- >> Does anyone know of a good IDL implementation or wrapper of up-to-date
- >> routines to deal with world coordinate systems in FITS files? The ones
- >> in the astronomy library aren't sufficient in particular, I need
- >> something that can deal with a TNX coordinate system (tangent point
- >> plane with distortions).

>

- > Well, to be fair, there is no established standard yet for
- > representing distortions within FITS. (There is a draft standard
- > that has been in the works for at least 10 years -- but nobody uses
- > it (see Paper IV in
- http://www.atnf.csiro.au/people/mcalabre/WCS/index.html)

>

- > The TNX distortion keywords and convention were created by the IRAF
- > software group (http://fits.gsfc.nasa.gov/registry/tnx.html).
- > have implemented a more popular distortion convention -- the Simple
- > Imaging Polynomial or SIP (
- > http://fits.gsfc.nasa.gov/registry/sip.html) in the Astronomy
- > Library. Unfortunately, that won't help you if you are given files
- > using the TNX keywords.

>

- > I think I once saw IDL code for parsing the TNX keywords but I can't
- > remember where just now. Perhaps someone else will have idea. --
- > Wayne