Subject: Re: POLY\_2D inconsitent interpolation Posted by news.verizon.net on Fri, 11 Aug 2006 14:50:20 GMT View Forum Message <> Reply to Message

## R>

- > Is this a well known bug? Do workarounds exist? I am especially
- > interested in workarounds for hastrom, since this bug shift my sources
- > by 1/2 a pixel relative to the astrometry in the header depending on the
- > interpolation method used.

I think the bug is well known but only as it pertains to CONGRID for which RSI added a CENTER keyword in 2001 after numerous complaints:

- ; CENTER: If this keyword is set, shift the interpolation so that points
- ; in the input and output arrays are assumed to lie at the midpoint
  - ; of their coordinates rather than at their lower-left corner.

Examing the code for CONGRID one finds that use of the CENTER keyword alters the input parameters to POLY\_2D by 0.5 for the interpolation cases but not for the nearest neighbor, just what was found was needed in the original posting by Craig DeForest.

It sounds like a similar fix is needed to hastrom.pro in the IDL Astronomy Library but I don't have time to do this today (but probably within a week). --Wayne