Subject: Re: FITS image with RA and DEC axis
Posted by Wayne Landsman on Tue, 30 Nov 2004 18:42:38 GMT
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Stefano Bianchi wrote:
>
> I have a simple practical task to perform.
> I have a fits astronomical image. I just want to zoom it as I like and
> then overplot on it x and y axis with the correct RA and DEC
> coordinates as read from the header.

You might use the procedure IMCONTOUR in the IDL Astronomy Library.
This procedure provide a contour with astronomical labeling, but by
providing the /NODATA keyword you can skip the contour and just do the
astronomical labeling.   You should display the image using one of the
display program that recognize plot coordinates such as David Fanning's
TVIMAGE.   For example, given a FITS image, im, and header, h, the
following two lines displays the image with astronomical labeling (RA
and Dec).

IDL> tvimage,im,/keep_aspect, position = pos
IDL> imcontour,im,h,/nodata,/Noerase,/TYPE,position = pos

To work with zoomed images, use the procedures hextract.pro, hrebin.pro
and hcongrid.pro which will, respectively, extract a subimage, REBIN or
CONGRID an image while updating the FITS header so that the astrometry
remains correct.

It would certainly be nice if a lot more of this work were automated
(e.g. incorporated into ATV), but there haven't been any volunteers yet ;-)

Cheers, --Wayne