Subject: Re: reading header and manipulating according to the header information
Posted by Craig Markwardt on Sat, 15 May 2010 16:21:07 GMT
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On May 15, 12:02 pm, Craig Markwardt <craig.markwa...@gmail.com>
wrote:
> On May 15, 10:21 am, sid <gunvicsi...@gmail.com> wrote:> Hi,
>> Since I am using huge data of several years, different kind of
>> ccds are used on different days. I need to trim the data to a size
>> which depends on ccd size, is there any method to read the header
>> information and take the ccd size from there and then to proceed
>> further, instead of giving the ccd size manually. Because it is really
>> very tedious to check for the ccd size each time and then to proceed.
>> Please help out.
>> For example,
>> in one of my data the ccd size that is 1K by 1k is given in header as,
>
> ...
>
> Anything you can do "manually," you can do in a program. The hard
> part is usually to make it robust.
>
> Based on the headers you provided, it looks like you have FITS image
> files. If you don't already have it, get the IDL Astronomy Library.
> It has many routines for reading FITS images and tables. The easiest
> one to use is MRDFITS(). MRDFITS() returns the image array which you
> can query using SIZE() and then trim as needed.
>
> Simple example:
> filename = 'myfile.fits'
> img = mrdfits(filename) ;; Read image
> sz = size(img, /dim) ;; Determine size of image
> szx = sz(0) ;; Number of columns
> szy = sz(1) ;; Number of rows
> img = img((0+2):(szx-3) , (0+2):(szy-3)) ;; Remove outermost two
> rows and columns

Oh, and if you need other header keywords, then you need to read the
header with a slightly different call to MRDFITS().
  img = mrdfits(filename,0,header)
and then retrieve the keyword KEYNAME with FXPAR()
  value = fxpar(header, keyname)

Craig