
Subject: Re: reading header and manipulating according to the header information
Posted by [Gray](#) on Sun, 16 May 2010 16:13:15 GMT

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On May 16, 10:31 am, sid <gunvicsi...@gmail.com> wrote:

> On May 15, 9:21 pm, Craig Markwardt <craig.markwa...@gmail.com> wrote:

>

>

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>

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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

>>>> ccdds 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
>
> Thank you this works now i could able to read the size of ccd as a
> variable.
> In my data header I have a line like the one below,
>
> COMMENT = 090222 Lat=40N exp=50s seeing 3",
>
> in this line I need to read the lat=40N that is the value 40 as a idl
> variable which I need use for further analysis,
> but if I do the same process like, img = mrdfits(filename,0,header) and
> value = fxpar(header, comment),
> then it prints the whole sentence '090222 Lat=40N exp=50s seeing
> 3"'.
> So can anyone suggest is there any way to read only the desired part
> of the string.
>
> regards
> sid
```

STRSPLIT will split the comment into multiple elements, then
WHERE(STREGEX(/Boolean)) will tell you which one you want, then GETTOK
or STRSPLIT will extract the value.
