
Subject: to read and to save multiple fits format files at a time

Posted by [sid](#) on Thu, 04 Mar 2010 12:41:56 GMT

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HI,

My data is in fits format, I am having 22 fits file and all the 22 files should be subtracted by single fits file individually, and I should save it separately after subtraction. So please help me how to read all these 22 files at a single stretch and subtract all the 22 files separately with one fits file and save the subtracted ones.

regards

sid

Subject: Re: to read and to save multiple fits format files at a time

Posted by [thoeger](#) on Fri, 05 Mar 2010 07:45:03 GMT

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On Mar 4, 7:41 am, sid <gunvicsi...@gmail.com> wrote:

> HI,

> My data is in fits format, I am having 22 fits file and all the 22
> files should be subtracted by single fits file individually, and I
> should save it separately after subtraction. So please help me how to
> read all these 22 files at a single stretch and subtract all the 22
> files separately with one fits file and save the subtracted ones.

> regards

> sid

Yep, I'd do something in the vein of naming the files appropriately so they can be found in an automated search/filtering quite easily, then:

```
files = file_search('pattern_to_search_for*.fits')
subtraction_file = 'filename_of_that_file.fits'
subtraction_data = readfits(subtraction_file)
for i = 0, n_elements(files) do begin
    imgdata = readfits(files(i), hdr)
    imgdata = imgdata - subtraction_data
    outputfile = 'output_'+strtrim(i, 2)+'*.fits'
    writefits, outputfile, data, hdr
endfor
```

Cheers;

Emil
