Subject: How to add several *.fit files (matrices) into one output *.fit file?
Posted by Griffons on Thu, 06 Nov 2008 15:20:10 GMT
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Hello Everyone,

Anyone would know how to add several *.fit files (matrices) into one
output *.fit file using IDL?

Thank you.

Griffons

Subject: Re: How to add several *.fit files (matrices) into one output *.fit file?
Posted by Christopher Thom on Thu, 06 Nov 2008 17:53:10 GMT
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Quoth Wox:

> On Thu, 6 Nov 2008 09:14:30 -0800 (PST), Griffons
> <griffons76@gmail.com> wrote:
>
>> I downloaded readfits, writefits and the other files required.
>> I am not sure what to do next. I compiled and ran readfits and
>> writefits, but then what to do?
>
> files=['test1.fits','test2.fits',...] ; use e.g. file_search for this
> sum   = READFITS(files[0], /NOSCALE)
> for i=1,n_elements(files)-1 do $
> sum += READFITS(files[i], /NOSCALE)
> writefits, 'sum_filename', sum
>
> Both readfits and writefits depend on some other procedures from the
> ASTRO library. Make sure you compiled them too.

And a minor point to add...be clear that you really want to specify the
/NOSCALE option. If the fits images have BSCALE and BZERO set in the
header, then you may want them scaled appropriately before summing...

cheers
chris

Subject: Re: How to add several *.fit files (matrices) into one output *.fit file?
Posted by R.G. Stockwell on Thu, 06 Nov 2008 19:50:42 GMT
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"Griffons" <griffons76@gmail.com> wrote in message
 news:dd8c46c9-8ac9-435f-8822-b549d7ba118a@d10g2000pra.google groups.com...
...
> IDL> files=['S_08189493.fit','S_08189494.fit','S_08189495.fit',
> 'S_08189496.fit'] ;
> IDL> sum   = READFITS(files[0], /NOSCALE)
> READFITS: ERROR - Unable to locate file S_08189493.fit

well, if you don't know where your files are, how is
IDL supposed to know?

This means that the file is not in your current directory.
Include the full path for the file, and it should work.

Cheers,
bob

Subject: Re: How to add several *.fit files (matrices) into one output *.fit file?
Posted by R.G. Stockwell on Thu, 06 Nov 2008 21:40:08 GMT
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"Paolo" <pgrigis@gmail.com> wrote in message
 news:0c8e6af6-73c6-43a7-9c20-304c73d763fb@l33g2000pri.google groups.com...
...
> Normally I use something as
> file=dir+filename
> such that when I need to move the files somewhere else
> I only need to change the dir in one place.

Along those lines, a   get_thisdatapath()
routine can be very helpful. Especially as it grows,
one can add keywords to leave previous behaviour untouched,
while adding new behaviours (such as reading new versions of the
same dataset, or adding new fields).

 (where "thisdata" describes a particular dataset)

Cheers,
bob

Subject: Re: How to add several *.fit files (matrices) into one output *.fit file?
Posted by R.Bauer on Fri, 07 Nov 2008 13:44:44 GMT
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-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

R.G. Stockwell schrieb:
> "Paolo" <pgrigis@gmail.com> wrote in message
> news:0c8e6af6-73c6-43a7-9c20-304c73d763fb@l33g2000pri.google groups.com...
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> same dataset, or adding new fields).
>
> (where "thisdata" describes a particular dataset)
>
> Cheers,
> bob
>
>
>
>

or u set an env var pointing to the data dir or it's base dir. Sometimes
that is then easier to adjust in different environments.

cheers
Reimar