Re: sdt_batch

Jack Vernetti <jackv@ssl.berkeley.edu>

Mon 11/18/2013 6:41 PM

To:Spencer M. Hatch <Spencer.M.Hatch.GR@dartmouth.edu>;

1 attachment

sdt_batch.tar;

Hi Spencer,

I've attached a "tar" file which contains the following files (which test using IDL with "sdt_batch"):

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spencer.batch

This is the batch control file and the batch job is run with the command:

```
sdt_batch  spencer.batch
```

It is a very simple file and is set up to produce no plots (hardcopy or files) and no output data files. It only exports SDT data into IDL.

Note that "spencer.batch" operates, one after another, on the orbits:

1656
1800
7500
7501
7502
7503
41314

(and in that order).

UIcfg.part_fastconfig_sesa

This is the SDT "plot configuration" file which indicates which FAST data quantities are to be loaded, by SDT, into shared-memory (and which the batch process will eventually be loaded into IDL). These types of files are usually generated by bringing up SDT in interactive mode and adding plots to a plot window. You have to make certain that all of the SDT quantities that IDL will rquire are represented by the plots in the "plot configuration" file.

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spencer_wrapper.pro

This is the IDL "wrapper" that is referred to in "spencer.batch". It

eventually calls the IDL procedure "tse3".

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tse3.pro

This is the IDL program containing the main IDL routine. It is in this file that the SDT-to-IDL routines to load SDT data into IDL are called. In this case, the main routine to do that is:

get_fast_esa_mdata_bundled

This routine is only used to get the FAST ESA multi-dimensional data into IDL (1, 2, or 3 dimensions). I don't think there is an official document for this routine, However, if you read the file:

$FASTHOME/idl/get_fast_esa_mdata_bundled.pro

the first 100 lines or so provide decent documentation.

I don't remember which data quantities you and Matt are interested in, but if they are not the ESA quantities, you will have to use a different (and, regrettably, much slower) routine. This routine is, I believe:

get_md_ts_from_sdt

and is documented at be beginning of the file:

$FASTHOME/idl/get_md_ts_from_sdt.pro

Let me know if you need any more help or advice to get started.

Jack