fds

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Abstract

This is a library which contains the interface to the standard FDS, as provided by MOC

1 Description

This task implement the most standard FDS routines, embeded into SAS, ready to use by other tasks,

- SIGDEL, for calculating signal delays.
- STATON, get geocentric position for given ground station.
- ORBITA, file read routine.
- JD2000, conversion from calendar to MJD.
- GJ2EFS, conver geocentric position vector to earth fixed.
- GEOLAT, get sub-satellite longitude, latitude and height.
- DJ2000, conversion from MJD to calendar.
- DATREV, Revolution number from time.

As ultimate reference, read XMM-SOC-ICS-0019-OAD, with the full library explained.

2 Use

The library can be used from any other tasks. See major examples in stspproc task source code.

pipeline processing	yes/no
interactive analysis	yes/no
Raw TM analysis	yes

3 Description

As ultimate reference, read XMM-SOC-ICS-0019-OAD, with the full library explained.

4 Parameters

This section documents the parameters recognized by this task (if any).

Parameter	Mand	Type	Default	Constraints

mandatoryparam	yes	type	default value	constraints

description for mandatory parameter

optionalparam	no	type	default value	constraints

description for optional parameter

5 Errors

This section documents warnings and errors generated by this task (if any). Note that warnings and errors can also be generated in the SAS infrastructure libraries, in which case they would not be documented here. Refer to the index of all errors and warnings available in the HTML version of the SAS documentation.

label *(error)*
explanation

label *(warning)*
explanantion
corrective action: this is the corrective action

6 Input Files

1. fort.69, pointing to stations.sdid
2. fort.68, pointing to orbita

7 Output Files

1. None

8 Algorithm

See XMM-SOC-ICS-0019-OAD

9 Comments

- No comments.

References