



radmonfix

January 12, 2017

Abstract

Add TIME column (UTC, MJD) to radiation monitor files

1 Instruments/Modes

Instrument	Mode
ERM	COUNTING, SPECTRA

2 Use

pipeline processing	no
interactive analysis	yes

3 Description

The **radmonfix** task converts EPIC Radiation Monitor time tags (FTCOARSE and FTFINE) into UTC and MJD format. EPIC Radiation Monitor (ERM) data does not belong to the standard ODF constituents files, therefore, it is not delivered for a standard SAS data processing.

ERM data is generated per revolution and it is made of 2 fast and 2 slow mode files. Each mode has two different files; spectra and count rates files. **radmonfix** uses the SAS time correlation functionalities (OAL), to convert the FTCOARSE and FTFINE values into standard UTC time tags allowing the production of time series with a time reference frame.

The input parameter **radmonfixlist** is a list of ERM files for a single revolution. **radmonfix** appends to the original file three new columns that correspond to UTC time (in real and calendar) format and MJD format.

4 Parameters

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

Parameter	Mand	Type	Default	Constraints
-----------	------	------	---------	-------------



radmonlist	yes	list	dataset	
------------	-----	------	---------	--

list of radiation monitor files that belong to a single revolution

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.

IncorrectNumberOfRows (*error*)

The number of UTC time tags and FTCOARSE time tags are different.

6 Input Files

1. List of radiation monitor files.

7 Output Files

1. Same as the input file with three new columns

8 Algorithm

9 Comments

-

References