

DATA PROCESSING PROGRAMS FOR PIONEER -F/-G

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Program Name: BIT2ON

Function: BIT2ON performs correction to all rates on Pioneer F rate tapes. The corrections are based upon known data exceptions and trends for the various rates.

Source Dataset(s)

- SB#PR.RATELIST.SOURCE

Library Dataset(s)

- SB#HL.LIB.LOAD

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.LIB.CNTL (BIT2ON)	NONE
SB#PR.LIB.CNTL (BIT2SKIP)	

Compile and Link Datasets

JCL	CLIST
---	-----
SB#PR.RATELIST.SOURCE (ADBIT2ON)	NONE

Backup Verification

- SB#PR.RATELIST.SOURCE (HSM: 87/10/29)
- SB#PR.Z.RATELIST.SOURCE.V0183014 (LIBMAN)
- SB#PR.Z.RATELIST.SOURCE.V0183014 (Tape PIOBK1, file 47)
- SB#HL.LIB.LOAD (HSM: 87/02/12)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 61
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. I-3, I-112
Ref. (2) (number on a guide)

Program Name: QUICKBIT

Function: In the QUICKBIT version of the BIT2ON program
the bit 6 turn-on is not done, and only events
type rates are processed.

Source Dataset(s)

- SB#PR.RATELIST.SOURCE

Library Dataset(s)

- SB#HL.LIB.LOAD

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.LIB.CNTL (BIT2QK)	NONE

Compile and Link Datasets

JCL	CLIST
---	-----
SB#PR.RATELIST.SOURCE (BLDBITQK)	NONE

Backup Verification

- SB#PR.RATELIST.SOURCE (HSM: 87/10/29)
- SB#PR.Z.RATELIST.SOURCE.V0183014 (LIBMAN)
- SB#PR.Z.RATELIST.SOURCE.V0183014 (Tape PIOBK1, file 47)
- SB#HL.LIB.LOAD (HSM: 87/02/12)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 62
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. I-3, I-112
Ref. (2) (number on a guide)

Program Name: DIRFIX

Function: DIRFIX is a CLIST's Data Set Maintenance Utility
It is used to list or alter words in a physical
sequential data set. The CLIST first makes a backup
copy of the data set, then the DIRFIX program is
called

Source Dataset(s)

- SB#PR.DIRFIX.SOURCE

Library Dataset(s)

- SB#PR.DIRFIX.LOAD

Run Dataset(s)

JCL	CLIST
----	-----
NONE	SB#HP.LIB.CLIST (DIRFIX)

Compile and Link Datasets

JCL	CLIST
----	-----
NONE	NONE

Backup Verification

- SB#PR.DIRFIX.SOURCE (HSM: 85/08/27)
- SB#PR.Z.DIRFIX.SOURCE.V0183014 (LIBMAN)
- SB#PR.DIRFIX.LOAD (HSM: 87/02/14)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 63, 84
Ref. (1) (number on a guide)

Program Name: DRSMNT

Function: The purpose of this program is to initialize, update, modify, list and restore the Pioneer DRS Tape Catalogs. After a particular maintenance function has been performed, a Current Status Report is written which reflects the status of all the Tape Catalogs.

Source Dataset(s)

- SB#PR.DRSMNT.SOURCE

Library Dataset(s)

- SB#PR.SBCID.OPIONEER.LOAD

Run Dataset(s)

```
                JCL
                ---
SB#PR.LIB.CNTL(DRSADDF)  for Pioneer-F (Mode = 2)
SB#PR.LIB.CNTL(DRSADDG)  for Pioneer-G (Mode = 2)
SB#PR.LIB.CNTL(DRSLSTF)  for Pioneer-F (Mode = 4)
SB#PR.LIB.CNTL(DRSLSTG)  for Pioneer-G (Mode = 4)
SB#PR.LIB.CNTL(DRSRESF)  for Pioneer-F (Mode = 5)
SB#PR.LIB.CNTL(DRSRESG)  for Pioneer-G (Mode = 5)
```

```
                CLIST
                -----
                NONE
```

Compile and Link Datasets

```
                JCL                                CLIST
                ---                                -----
SB#PR.DRSMNT.SOURCE($BUILD$)                       NONE
```

Backup Verification

- SB#PR.DRSMNT.SOURCE (HSM: 88/03/29)
- SB#PR.Z.DRSMNT.SOURCE.V0183014 (LIBMAN)
- SB#PR.SBCID.OPIONEER.LOAD (HSM: 88/4/23)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 67
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. I-1, I-25
Ref. (2) (number on a guide)

Title: Final Documentation for the Pioneer F/G GSFC/CRT
Data Reduction System
Author: J. A. Novitsky
Location: Bldg. 1, room 261
Last Revised: June 1972
Pages: p. 15, p. 93
Ref. (4) (number on a guide)

Title: PIONEER Production Data Processing Procedures Guide
Author: K. Wortman
Location: Bldg. 1, room 261
Last Revised: October 1984
Pages: p. 9-11
Ref. (5) (number on a guide)

Title: Description of the Pioneer F/G GSFC/CRT Data Reduction
Program (PIODRP), Flux Data Base Generator (FLXDBG)
and Flux Plotting Program (FLUXPLOT).
Author: E. Ronish
Location: Bldg. 1, room 261
Last Revised:
Pages: Section 4
Ref. (7) (number on a guide)

Program Name: EDRLST

Function: Program EDRLST produces a formatted list of Pioneer-F and Pioneer-G EDR data tapes.

Source Dataset(s)

- SB#HL.EDRLIST.SOURCE

Library Dataset(s)

- SB#PR.SBCID.OPIONEER.LOAD(EDRLST)

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.LIB.CNTL (UEDRLST)	NONE

Compile and Link Datasets

JCL	CLIST
---	-----
No JCL to compile	NONE

Backup Verification

- SB#HL.EDRLIST.SOURCE (HSM: 88/01/26)
- SB#HL.Z.EDRLIST.SOURCE.V0283112 (LIBMAN)
- SB#HL.Z.EDRLIST.SOURCE.V0283112 (Tape ICBK03, file 159)
- SB#PR.SBCID.OPIONEER.LOAD (HSM: 88/4/23)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 71
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. I-36
Ref. (2) (number on a guide)

Title: Final Documentation for the Pioneer F/G GSFC/CRT
Data Reduction System
Author: J. A. Novitsky
Location: Bldg. 1, room 261
Last Revised: June 1972
Pages: p. 16, p. 102
Ref. (4) (number on a guide)

Title: PIONEER Production Data Processing Procedures Guide
Author: K. Wortman
Location: Bldg. 1, room 261
Last Revised: October 1984
Pages: p. 35
Ref. (5) (number on a guide)

Title: Description of the Pioneer F/G GSFC/CRT Data Reduction
Program (PIODRP), Flux Data Base Generator (FLXDBG)
and Flux Plotting Program (FLUXPLOT).
Author: E. Ronish
Location: Bldg. 1, room 261
Last Revised:
Pages: Section 5
Ref. (7) (number on a guide)

Program Name: FIXDMP

Function: The program FIXDMP is run when an 'update' run
of the FLXDBG program fails to print the message
'ALL RATE TAPES IN THE DRS CATALOG HAVE BEEN PROCESSED'

Source Dataset(s)

- SB#PR.LIB.CNTL(UFLXDMP)

Library Dataset(s)

- NONE

Run Dataset(s)

JCL ---	CLIST -----
SB#PR.LIB.CNTL (UFLXDMP)	NONE

Compile and Link Datasets

JCL ---	CLIST -----
SB#PR.LIB.CNTL (UFLXDMP)	NONE

Backup Verification

- SB#PR.LIB.CNTL (UFLXDMP) (HSM: 88/07/29)

Program Documentation

	Documents -----
Title:	Data Processing and Programmer's Guide for the Pioneer-10 and -11 Cosmic Ray Experiments (vol.1)
Author:	J.M. Broomhall, N. Lal
Location:	Bldg. 1, room 261
Last Revised:	March 1982
Pages:	p. 74
Ref. (1)	(number on a guide)

Program Name: FLUXPLOT

Function: Program FLUXPLOT produces listings and/or plots of rate and flux values over specified times for various averaging intervals

Source Dataset(s)

- (There is no source code under HSM)

Library Dataset(s)

- SB#PR.PIONEER.LOAD

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.FLUXPLOT.CNTL (FLUXPLOT)	SB#PR.LIB.CLIST (SUBFLUX)
SB#PR.LIB.CNTL (AFLXPROC)	
SB#PR.LIB.CNTL (FLUXPLOT)	
SB#PR.LIB.CNTL (ANEWPROC)	
SB#PR.LIB.CNTL (AMAVPROC)	

Compile and Link Datasets

JCL	CLIST
---	-----
NONE	NONE

Backup Verification

- There is no source code under HSM
- SB#PR.PIONEER.LOAD (HSM: 87/03/10)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 45, 64-65
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. I-139
Ref. (2) (number on a guide)

Title: PIONEER Production Data Processing Procedures Guide
Author: K. Wortman
Location: Bldg. 1, room 261
Last Revised: October 1984
Pages: p. 31
Ref. (5) (number on a guide)

Program Name: FLXDBG

Function: Program FLXDBG creates a time ordered sequence of summaries of PHA and RATES data. it also updates the Flux data base.

Source Dataset(s)

- SB#PR.FLXDBG.SOURCE

Library Dataset(s)

- SB#PR.FLXDBG.LOAD

Run Dataset(s)

JCL	CLIST
----	-----
SB#PR.LIB.CNTL (FLXDBGF)	
SB#PR.LIB.CNTL (FLXDBGG)	NONE

Compile and Link Datasets

JCL	CLIST
----	-----
SB#PR.FLXDBG.SOURCE (\$BUILD\$)	NONE

Backup Verification

- SB#PR.FLXDBG.SOURCE (HSM: 88/3/30)
- SB#PR.Z.FLXDBG.SOURCE.V0183014 (LIBMAN)
- SB#PR.Z.FLXDBG.SOURCE.V0183014 (Tape PIOBK1, file 27)
- SB#PR.FLXDBG.LOAD (not under HSM)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 59
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. I-130
Ref. (2) (number on a guide)

Title: PIONEER Production Data Processing Procedures Guide
Author: K. Wortman
Location: Bldg. 1, room 261
Last Revised: October 1984
Pages: p. 13
Ref. (5) (number on a guide)

Program Name: FLXLST

Function: Program FLXLST produces a formatted listing on the line printer of the contents of Pioneer-F/-G flux tapes

Source Dataset(s)

- SB#PR.FLXLST.SOURCE

Library Dataset(s)

- SB#PR.ZBRTC.LOAD

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.LIB.CNTL (UFLXTPL)	NONE

Compile and Link Datasets

JCL	CLIST
---	-----
SB#PR.FLXLST.SOURCE (\$BUILD\$)	NONE

Backup Verification

- SB#PR.FLXLST.SOURCE (HSM: 88/6/17)
- SB#PR.Z.FLXLST.SOURCE.V0183017 (LIBMAN)
- SB#PR.Z.FLXLST.SOURCE.V0183014 (Tape PIOBK1, file 29)
- SB#PR.FLXLST.LOAD (HSM: 85/09/10)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 73
Ref. (1) (number on a guide)

Title: PIONEER Production Data Processing Procedures Guide
Author: K. Wortman
Location: Bldg. 1, room 261
Last Revised: October 1984
Pages: p. 35
Ref. (5) (number on a guide)

Program Name: FLXMNT

Function: Program FLXMNT is a utility program which allows the user to initialize the flux catalog, list catalog initialize a data set for a satellite, add blank tapes to the queue and list rates tables

Source Dataset(s)

- SB#HL.FLXMNT.SOURCE

Library Dataset(s)

- SB#HL.FLXMNT.LOAD

Run Dataset(s)

JCL	(examples)	CLIST
---		-----
SB#PR.LIB.CNTL	(FCATADDF)	
SB#PR.LIB.CNTL	(FCATADDG)	NONE
SB#PR.LIB.CNTL	(FCATLST)	

Compile and Link Datasets

JCL	CLIST
---	-----
SB#HL.FLXMNT.SOURCE (\$BUILD\$)	NONE

Backup Verification

- SB#HL.FLXMNT.SOURCE (HSM: 85/10/22)
- SB#HL.Z.FLXMNT.SOURCE.V0285294 (LIBMAN)
- SB#PR.Z.FLXMNT.SOURCE.V0285294 (Tape HEIBK1, file 36)
- SB#HL.FLXMNT.LOAD (HSM: 88/01/16)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 67
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. I-137
Ref. (2) (number on a guide)

Title: PIONEER Production Data Processing Procedures Guide
Author: K. Wortman
Location: Bldg. 1, room 261
Last Revised: October 1984
Pages: p. 18
Ref. (5) (number on a guide)

Program Name: FOURIER

Function: Program FOURIER is an analysis program which produces listings, fluxplots, anisotropy plots for user specified start and end times, averaging intervals, satellite, sources, etc.

Source Dataset(s)

- SB#PR.MULTISAT.FOURIER.SOURCE

Library Dataset(s)

- SB#PR.FOURDIF.LOAD
- SB#PR.FOURSI.LOAD
- SB#PR.FOURPIO.LOAD

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.LIB.CNTL (AFOURDIF)	
SB#PR.LIB.CNTL (AFOURMAG)	NONE
SB#PR.LIB.CNTL (AFOURLST)	
SB#PR.LIB.CNTL (ANISFOUR)	

Compile and Link Datasets

JCL	CLIST
---	-----
NONE	NONE

Backup Verification

- SB#PR.MULTISAT.FOURIER.SOURCE (not under HSM)
- SB#PR.Z.MULTISAT.FOURIER.SOURCE.V0584100 (LIBMAN)
- SB#PR.Z.MULTISAT.FOURIER.SOURCE (Tape PIOBK3, file 12)
- SB#PR.FOURDIF.LOAD (HSM: 84/3/27)
- SB#PR.FOURSI.LOAD (HSM: 84/4/14)
- SB#PR.FOURPIO.LOAD (HSM: 84/13/27)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 75
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. I-82
Ref. (2) (number on a guide)

Program Name: LOGIST

Function: The purpose of the Pioneer -F/-G Logistic Compress program is to compress the Logistic data set on disk. The program can modify any or all entries via data cards in "NAMELIST" form.

Source Dataset(s)

- SB#PR.LOGIST.SOURCE (there is no source code under HSM).

Library Dataset(s)

- SB#PR.SBCID.OPIONEER.LOAD(LOGIST)

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.LIB.CNTL (ULOGISTF)	
SB#PR.LIB.CNTL (ULOGISTG)	NONE

Compile and Link Datasets

JCL	CLIST
---	-----
NONE	NONE

Backup Verification

- SB#PR.LOGIST.SOURCE (not under HSM)
- SB#PR.Z.LOGIST.SOURCE.V0483143 (LIBMAN)
- SB#PR.Z.LOGIST.SOURCE.V0483143 (Tape PIOBK1, file 64)
- SB#PR.SBCID.OPIONEER.LOAD (HSM: 88/4/23)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 68
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. I-56
Ref. (2) (number on a guide)

Title: Description of the Pioneer F/G GSFC/CRT Data Reduction
Program (PIODRP), Flux Data Base Generator (FLXDBG)
and Flux Plotting Program (FLUXPLOT).
Author: E. Ronish
Location: Bldg. 1, room 261
Last Revised:
Pages: Section 8
Ref. (7) (number on a guide)

Program Name: MAGDBG

Function: The program MAGDBG creates a user specified average data base from Vector Helium magnetic field tapes which is then used as input to FOURIER program to plot magnetic field intensities.

Source Dataset(s)

- SB#PR.MAGDBG.FORT

Library Dataset(s)

- SB#PR.MAGDBG.LOAD (MAIN, FLAGS)

Run Dataset(s)

JCL	CLIST
----	-----
SB#PR.LIB.CNTL (SMAGDBG)	NONE

Compile and Link Datasets

JCL	CLIST
----	-----
NONE	NONE

Backup Verification

- SB#PR.MAGDBG.FORT (not under HSM)
- SB#PR.Z.MAGDBG.FORT.V0183014 (LIBMAN)
- SB#PR.Z.MAGDBG.FORT.V0183014 (Tape PIOBK1, file 49)
- SB#PR.MAGDBG.LOAD (not under HSM)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)

Author: J.M. Broomhall, N. Lal

Location: Bldg. 1, room 261

Last Revised: March 1982

Pages: p. 78

Ref. (1) (number on a guide)

Program Name: MATGEN

Function: Program MATGEN produces printer matrices and summary of user specified time periods, averaging interval and particle/event types/compression factors.

Source Dataset(s)

- There is no source code under HSM

Library Dataset(s)

- SB#PR.PIONEER.LOAD(MATRIX)

Run Dataset(s)

JCL ---	CLIST -----
SB#PR.LIB.CNTL (AMATRIX)	
SB#PR.LIB.CNTL (NANDM)	NONE
SB#PR.LIB.CNTL (AMATRIX1)	
SB#PR.LIB.CNTL (SWEBMAT)	

Compile and Link Datasets

JCL ---	CLIST -----
NONE	NONE

Backup Verification

- investigating to find source code
- SB#PR.PIONEER.LOAD (MATRIX) (HSM: 87/03/10)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 64
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. I-147
Ref. (2) (number on a guide)

Program Name: PATCH

Function: The purpose of the PATCH program is to read rate summary tape and 6250 bpi flux tape and to produce a 6250 bpi flux tape containing the corrected rate and PHA data.

Source Dataset(s)

- SB#PR.PATCH.FORT

Library Dataset(s)

- SB#PR.PATCH.LOAD

Run Dataset(s)

JCL	CLIST
-----	-----
SB#PR.LIB.CNTL (B2FLXPTH)	
SB#PR.LIB.CNTL (B2PTH1)	NONE

Compile and Link Datasets

JCL	CLIST
---	-----
NONE	NONE

Backup Verification

- SB#PR.PATCH.FORT (HSM: 86/10/04)
- SB#PR.Z.PATCH.FORT.V0183014 (LIBMAN)
- SB#PR.Z.PATCH.FORT.V0183014 (Tape PIOBK1, file 55)
- SB#PR.PATCH.LOAD (HSM: 87/03/06)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 63
Ref. (1) (number on a guide)

Title: PIONEER Production Data Processing Procedures Guide
Author: K. Wortman
Location: Bldg. 1, room 261
Last Revised: October 1984
Pages: p. 26
Ref. (5) (number on a guide)

Program Name: PFRSUM

Function: This program produces 15-minute average rate summary intervals from corrected rate tape created by BIT2ON or BIT2QK, then data is merged with PHA data from 6250 flux source to produce the PENC source.

Source Dataset(s)

- SB#PR.PFRSUM.SOURCE

Library Dataset(s)

- SB#PR.ZB2NL.OPIOFRAT.LOAD(PFRSUM)

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.LIB.CNTL (BIT2RTSM)	NONE

Compile and Link Datasets

JCL	CLIST
---	-----
NONE	NONE

Backup Verification

- SB#PR.PFRSUM.SOURCE (HSM: 85/09/13)
- SB#PR.Z.PFRSUM.SOURCE.V0183027 (LIBMAN)
- SB#PR.Z.PFRSUM.SOURCE.V0183027 (Tape PIOBK1, file 23)
- SB#PR.ZB2NL.OPIOFRAT.LOAD (HSM: 87/02/11)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 62
Ref. (1) (number on a guide)

Title: Notes for Rates Analysis System for data from the
Pioneer -F/G Cosmic Ray Telescope experiment
Author: Unknown
Location: Bldg. 1, room 261
Last Revised: very old
Pages: Section 2
Ref. (3) (number on a guide)

Title: PIONEER Production Data Processing Procedures Guide
Author: K. Wortman
Location: Bldg. 1, room 261
Last Revised: October 1984
Pages: p. 24
Ref. (5) (number on a guide)

Program Name: PFRTPL

Function: The Pioneer Rates Tape List Program (PFRTPL) is designed to create formatted listings of all Rates tapes, or part of a specified tape.

Source Dataset(s)

- SB#PR.RATELIST.SOURCE(PFRTPL)

Library Dataset(s)

- SB#PR.ZB2NL.OPIOFRAT.LOAD(PFRTPL)

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.LIB.CNTL (URATLST)	NONE

Compile and Link Datasets

JCL	CLIST
---	-----
NONE	NONE

Backup Verification

- SB#PR.RATELIST.SOURCE (HSM: 87/10/29)
- SB#PR.Z.RATELIST.SOURCE.V0183014 (LIBMAN)
- SB#PR.Z.RATELIST.SOURCE.V0183014 (Tape PIOBK1, file 47)
- SB#PR.ZB2NL.OPIOFRAT.LOAD(PFRTPL) (HSM: 87/02/11)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 71
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. I-40 - I-47
Ref. (2) (number on a guide)

Title: Notes for Rates Analysis System for data from the
Pioneer -F/G Cosmic Ray Telescope experiment
Author: Unknown
Location: Bldg. 1, room 261
Last Revised: very old
Pages: Section 4
Ref. (3) (number on a guide)

Title: PIONEER Production Data Processing Procedures Guide
Author: K. Wortman
Location: Bldg. 1, room 261
Last Revised: October 1984
Pages: p. 35
Ref. (5) (number on a guide)

Title: Description of the Pioneer F/G GSFC/CRT Data Reduction
Program (PIODRP), Flux Data Base Generator (FLXDBG)
and Flux Plotting Program (FLUXPLOT).
Author: E. Ronish
Location: Bldg. 1, room 261
Last Revised:
Pages: Section 6
Ref. (7) (number on a guide)

Program Name: PFRTPLSH

Function: The program PFRTPLSH produces a formatted list of only the event type rates

Source Dataset(s)

- SB#PR.RATELIST(PFRTPLSH)

Library Dataset(s)

- NONE

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.LIB.CNTL (URATLSTS)	NONE

Compile and Link Datasets

JCL	CLIST
---	-----
SB#PR.LIB.CNTL (PFRTPLSH)	NONE

Backup Verification

- SB#PR.RATELIST.SOURCE (HSM: 87/10/29)
- SB#PR.Z.RATELIST.SOURCE.V0183014 (LIBMAN)
- SB#PR.Z.RATELIST.SOURCE.V0183014 (Tape PIOBK1, file 47)

Program Documentation

	Documents

Title:	Data Processing and Programmer's Guide for the Pioneer-10 and -11 Cosmic Ray Experiments (vol.1)
Author:	J.M. Broomhall, N. Lal
Location:	Bldg. 1, room 261
Last Revised:	March 1982
Pages:	p. 72
Ref. (1)	(number on a guide)

Program Name: PHALST

Function: The program PHALST produces a formatted listing of Pioneer -F/-G PHA data tapes

Source Dataset(s)

- There is no source code under HSM .

Library Dataset(s)

- SB#PR.ZB2NL.OPIOFRAT.LOAD

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.LIB.CNTL (UPHALST)	NONE

Compile and Link Datasets

JCL	CLIST
---	-----
NONE	NONE

Backup Verification

- SB#PR.ZB2NL.OPIOFRAT.LOAD (HSM: 87/02/11)

Program Documentation

	Documents

Title:	Data Processing and Programmer's Guide for the Pioneer-10 and -11 Cosmic Ray Experiments (vol.1)
Author:	J.M. Broomhall, N. Lal
Location:	Bldg. 1, room 261
Last Revised:	March 1982
Pages:	p. 73
Ref. (1)	(number on a guide)

Program Name: PIODRP

Function: The program reads the Pioneer-F and Pioneer-G EDR tapes and creates time-ordered PHA, RATES and CATALOG tapes that contain GSFC/CRT experiment data and related spacecraft information.

Source Dataset(s)

- SB#PR.PIODRP.SOURCE

Library Dataset(s)

- SB#PR.SBCID.OPIONEER.LOAD

Run Dataset(s)

JCL	CLIST
----	-----
SB#PR.LIB.CNTL(DRPF) for Pioneer-F	
SB#PR.LIB.CNTL(DRPG) for Pioneer-G	NONE

Compile and Link Datasets

JCL	CLIST
----	-----
SB#PR.PIODRP.SOURCE (\$BUILD\$)	NONE

Backup Verification

- SB#PR.PIODRP.SOURCE (HSM: 88/04/12)
- SB#PR.Z.PIODRP.SOURCE.V0183019 (LIBMAN)
- SB#PR.Z.PIODRP.SOURCE.V0183019 (Tape PIOBK1, file 24)
- SB#PR.SBCID.OPIONEER.LOAD (HSM: 88/04/23)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 58
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. I-6
Ref. (2) (number on a guide)

Title: Final Documentation for the Pioneer F/G GSFC/CRT
Data Reduction System
Author: J. A. Novitsky
Location: Bldg. 1, room 261
Last Revised: June 1972
Pages: p. 11, p. 79
Ref. (4) (number on a guide)

Title: PIONEER Production Data Processing Procedures Guide
Author: K. Wortman
Location: Bldg. 1, room 261
Last Revised: October 1984
Pages: p. 5-8
Ref. (5) (number on a guide)

Title: PIONEER F/G Data Reduction Program (PIODRP) Maintenance
Programmer's Introduction . (Working paper)
Author: E. Ronish, R. Cuddapah
Location: Bldg. 1, room 261
Last Revised: September 1978
Ref. (6) (number on a guide)

Title: Description of the Pioneer F/G GSFC/CRT Data Reduction
Program (PIODRP), Flux Data Base Generator (FLXDBG)
and Flux Plotting Program (FLUXPLOT).
Author: E. Ronish
Location: Bldg. 1, room 261
Last Revised:
Pages: Section 3
Ref. (7) (number on a guide)

Program Name: RESPONSH

Function: The program RESPONSH reads the flux catalog and produces response matrices of user specified modes.

Source Dataset(s)

- SB#IC.LISTHS2.SOURCE

Library Dataset(s)

- SB#PR.SBCID.OPIONEER.LOAD(RESPONSH)

Run Dataset(s)

JCL	CLIST
---	-----
SB#IC.LISTHS2.SOURCE (\$PIOFRSP)	SB#HP.LIB.CLIST (RESPONSE)
SB#IC.LISTHS2.SOURCE (\$PIOGRSP)	

Compile and Link Datasets

JCL	CLIST
---	-----
SB#IC.LISTHS2.SOURCE (\$BUILDH)	NONE

Backup Verification

- SB#IC.LISTHS2.SOURCE (HSM: 88/06/01)
- SB#IC.B.LISTHS2.SOURCE.V0488222 (LIBMAN)
- SB#IC.B.LISTHS2.SOURCE.V0488222 (Tape ISEBK1, file 33)
- SB#PR.SBCID.OPIONEER.LOAD (HSM: 88/04/23)

Program Documentation

	Documents

Title:	Data Processing and Programmer's Guide for the Pioneer-10 and -11 Cosmic Ray Experiments (vol.1)
Author:	J.M. Broomhall, N. Lal
Location:	Bldg. 1, room 261
Last Revised:	March 1982
Pages:	p. 76
Ref. (1)	(number on a guide)
Title:	SB#IC.LISTHS2.SOURCE (FORMATS)
	SB#IC.LISTHS2.SOURCE (\$UGUIDE)

Program Name: RESTORE

Function: The purpose of the Pioneer -F/-G RESTORE program is to reload the logistics catalog from tape to disk for both satellites.

Source Dataset(s)

- SB#PR.LIB.CNTL(URESTORE)

Library Dataset(s)

- NONE

Run Dataset(s)

JCL ---	CLIST -----
SB#PR.LIB.CNTL(URESTORE)	NONE

Compile and Link Datasets

JCL ---	CLIST -----
SB#PR.LIB.CNTL(URESTORE)	NONE

Backup Verification

- SB#PR.LIB.CNTL (backup is online, last HSM: 88/07/29)

Program Documentation

	Documents -----
Title:	Data Processing and Programmer's Guide for the Pioneer-10 and -11 Cosmic Ray Experiments (vol.1)
Author:	J.M. Broomhall, N. Lal
Location:	Bldg. 1, room 261
Last Revised:	March 1982
Pages:	p. 68
Ref. (1)	(number on a guide)

Program Name: SELECT

Function: The program SELECT creates matrices similar to
MATRIX

Source Dataset(s)

- There is no source code under HSM.

Library Dataset(s)

- SB#PR.PIONEER.LOAD

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.LIB.CNTL (SELECT)	
SB#PR.LIB.CNTL (\$CNSIS)	NONE

Compile and Link Datasets

JCL	CLIST
---	-----
NONE	NONE

Backup Verification

- SB#PR.PIONEER.LOAD (HSM: 87/03/10)

Program Documentation

	Documents

Title:	Data Processing and Programmer's Guide for the Pioneer-10 and -11 Cosmic Ray Experiments (vol.1)
Author:	J.M. Broomhall, N. Lal
Location:	Bldg. 1, room 261
Last Revised:	March 1982
Pages:	p. 75
Ref. (1)	(number on a guide)

Program Name: TRAJ

Function: This program reads files 1 and 3 from the trajectory data tapes received from AMES and writes the output file specified in call to mount on HGD035 for 'F' and HGD036 for 'G'.

Source Dataset(s)

- SB#PR.LIB.CNTL(TRAJF) for Pioneer-F
- SB#PR.LIB.CNTL(TRAJG) for Pioneer-G

Library Dataset(s)

- NONE

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.LIB.CNTL(TRAJF) - for Pioneer-F	
SB#PR.LIB.CNTL(TRAJF) - for Pioneer-G	NONE

Compile and Link Datasets

JCL	CLIST
---	-----
SB#PR.LIB.CNTL(TRAJF) - for Pioneer-F	
SB#PR.LIB.CNTL(TRAJG) - for Pioneer-G	NONE

Backup Verification

- SB#PR.LIB.CNTL (backup is online, last HSM: 88/07/29)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 77
Ref. (1) (number on a guide)

Title: PIONEER Production Data Processing Procedures Guide
Author: K. Wortman
Location: Bldg. 1, room 261
Last Revised: October 1984
Pages: p. 34
Ref. (5) (number on a guide)

Program Name: TRAJE

Function: The trajectory tape listing program lists the data tapes created by the trajectory data base generator (TRAJ). The many versions of this program exist because different variables are listed by each.

Source Dataset(s)

- SB#PR.LIB.CNTL(TRAJECT) - for Jupiter Encounter
- SB#PR.LIB.CNTL(TRAJLAL) - special version created for Nand Lal
- SB#PR.LIB.CNTL(SATTRAJ) - for Saturn Encounter
- SB#PR.LIB.CNTL

Library Dataset(s)

- NONE

Run Dataset(s)

```
          JCL
          ---
SB#PR.LIB.CNTL(TRAJECT) - for Jupiter Encounter
SB#PR.LIB.CNTL(TRAJLAL) - special version created for Nand Lal
```

```
          CLIST
          -----
SB#PR.LIB.CLIST(TRAJECT)
```

Compile and Link Datasets

```
          JCL
          ---
SB#PR.LIB.CNTL(TRAJECT) - for Jupiter Encounter
SB#PR.LIB.CNTL(TRAJLAL) - special version created for Nand Lal
```

```
          CLIST
          -----
          NONE
```

Backup Verification

- SB#PR.LIB.CNTL (backup is online, last HSM: 88/07/29)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 77
Ref. (1) (number on a guide)

Title: PIONEER Production Data Processing Procedures Guide
Author: K. Wortman
Location: Bldg. 1, room 261
Last Revised: October 1984
Pages: p. 34
Ref. (5) (number on a guide)

Program Name: VBSCOPY

Function: The purpose of the Pioneer -F/-G VBSCOPY program is to create backup tapes of the RATES and PHA tape data base.

Source Dataset(s)

- There is no source code under HSM.

Library Dataset(s)

- SB#PR.ZBJHBX.LOADLIB(VBSCOPY)

Run Dataset(s)

JCL ---	CLIST -----
SB#PR.LIB.CNTL (BCPYRAT)	
SB#PR.LIB.CNTL (DCPYPHA)	
SB#PR.LIB.CNTL (DCPYRAT)	NONE
SB#PR.LIB.CNTL (FIXNLPHA)	
SB#PR.LIB.CNTL (TMPPHACY)	

Compile and Link Datasets

JCL ---	CLIST -----
NONE	NONE

Backup Verification

- SB#PR.ZBJHBX.LOADLIB (HSM: 87/02/14)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 60
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. I-60
Ref. (2) (number on a guide)

Title: Description of the Pioneer F/G GSFC/CRT Data Reduction
Program (PIODRP), Flux Data Base Generator (FLXDBG)
and Flux Plotting Program (FLUXPLOT).
Author: E. Ronish
Location: Bldg. 1, room 261
Last Revised:
Pages: Section 9
Ref. (7) (number on a guide)

Program Name: ZEROLOG

Function: Used to reset the LOGISTIC catalog and the pointer in the current DRS catalog to zero when the last track of the LOGISTIC catalog is filled.

Source Dataset(s)

- SB#HL.ZEROLOG.SOURCE (there is no source code under HSM)

Library Dataset(s)

- Sb#HL.ZBRXD.OHELIOSA.LOAD

Run Dataset(s)

JCL	CLIST
---	-----
SB#PR.LIB.CNTL (UZERLOGF)	
SB#PR.LIB.CNTL (UZERLOGG)	NONE

Compile and Link Datasets

JCL	CLIST
---	-----
NONE	NONE

Backup Verification

- SB#HL.ZEROLOG.SOURCE (no source code under HSM)
- SB#H1.Z.ZEROLOG.SOURCE.V0183010 (LIBMAN)
- SB#HL.Z.ZEROLOG.SOURCE.V0183010 (Tape ICBK03, file 97)
- SB#HL.ZBRXD.OHELIOSA.LOAD (HSM: 84/07/10)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 69
Ref. (1) (number on a guide)

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.2)
Author: J.M. Broomhall, N. Lal, P. Rigterink
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: Ch. VI, p. I-40 - I-47.
Ref. (2) (number on a guide)

Program Name: 6250

Function: This program recreates the 6250 flux sources in the flux catalog and is normally used to update the end time of the data within these two sources when 6250 bpi tapes are updated.

Source Dataset(s)

- SB#PR.LIB.CNTL(F6250)

Library Dataset(s)

- NONE

Run Dataset(s)

```
          JCL
          ---
SB#PR.LIB.CNTL(F6250) + SB#PR.LIB.CNTL(F6250F)
SB#PR.LIB.CNTL(F6250) + SB#PR.LIB.CNTL(F6250G)

          CLIST
          -----
          NONE
```

Compile and Link Datasets

```
          JCL                      CLIST
          ---                      -----
SB#PR.LIB.CNTL(F6250)              NONE
```

Backup Verification

- SB#PR.LIB.CNTL (backup is online, last HSM: 88/07/29)

Program Documentation

Documents

Title: Data Processing and Programmer's Guide for the Pioneer-10
and -11 Cosmic Ray Experiments (vol.1)
Author: J.M. Broomhall, N. Lal
Location: Bldg. 1, room 261
Last Revised: March 1982
Pages: p. 61
Ref. (1) (number on a guide)

Title: PIONEER Production Data Processing Procedures Guide
Author: K. Wortman
Location: Bldg. 1, room 261
Last Revised: October 1984
Pages: p. 20
Ref. (5) (number on a guide)

