

ISEE-3 PROGRAM DOCUMENTATION GUIDE

July 29th, 1988

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Program Name: ALTBLK

Function: The ALTBLK program changes individual bytes of data in the Voyager or ISEE-3 LOG.DATA type datasets.

Source Dataset(s)

- SB#VG.ALTBLK.SOURCE

Library Dataset(s)

- DAIO package

Run Dataset(s)

JCL	CLIST
---	-----
none	SB#IC. LIB. CLIST(ALTBLK)

Compile and Link Datasets

JCL	CLIST
---	-----
SB#VG. ALTBLK. SOURCE(\$build\$)	none

Backup Location(s)

- under HSM

Program Documentation

Document

Name:

- Source prologues in the source dataset
- ISEE-3 Automatic Log documentation. See the document ISEE-3 Data Reduction Programmers Guide, (CSC/TM-80/6208), July 1980
- User guide : SB#VG.ALTBLK.SOURCE(USERGIDE) needs revision

Location: source dataset (A)

Location: Bldg 1, room 261 (B)

Last Revised: see entry (B)

Pages:

Program Name: ASNENC

Function: The ASNENC program assigns a range of ENCY volume serial numbers to the available TLS slots in the slot range given by the ENCY CONTROL BLOCK.

Source Dataset(s)

- SB#IC.ASNENC.SOURCE

Library Dataset(s)

- DAIO package; SB#VG.GENERAL.LOAD (fortranh vsn)

Run Dataset(s)

JCL

SB#IC. ASNENC. SOURCE(PROC) not used
normally

CLIST

SB#IC. LIB. CLIST(ASNENC)

Compile and Link Datasets

JCL

SB#IC. ASNENC. SOURCE(build)
(build not entirely from source)

CLIST

none

Backup Location(s)

- under HSM

Program Documentation

Document

Name:

- A. Source prologues in the source dataset
- B. ISEE-3 Automatic Log documentation. See the document
ISEE-3 Data Reduction Programmers Guide,
(CSC/TM-80/6208), July 1980
- C. ISEE-3 Production Data Processing Procedures Guide,
(CSC/TM-81/6112), May, 1981 (out of date, but
helpful, has CLIST execution examples)
- D. User guide : SB#IC.ASNENC.SOURCE(USERGIDE) needs revision

Location: source dataset (A)

Location: Bldg 1, room 261 (B)

Location: Bldg 1, room 261b(C)

Last Revised: see entries

Pages:

Program Name: LIBLIST (also called EDRLIST)

Function: The LIBLIST program generates a formatted listing of data from EDR or LIB tapes.

Source Dataset(s)

- SB#IC.EDRLIST.SOURCE
- SB#IC.ENCGEN.ASM

Library Dataset(s)

- FTIO package; SB#VG.GENERAL.LOAD (fortranh vsn)

Run Dataset(s)

JCL	CLIST
---	-----
SB#IC. LIB. CNTL(LIBLIST,EDRLIST)	none

Compile and Link Datasets

JCL	CLIST
---	-----
SB#IC. LIBLIST. SOURCE(build) (build not entirely from source)	none

Backup Location(s)

- under HSM (both source datasets)

Program Documentation

Document

Name:

- ISEE-3 EDR Format Specification. See the document ISEE-3 Data Reduction Programmers Guide, (CSC/TM-80/6208), July 1980
- ISEE-3 Cosmic Ray Telemetry Description. See A. or C.
- Data Processing System Guide for the Voyager-1 and Voyager-2, and the ISEE-3 Cosmic Ray Experiments (CSC document # CSC/M-81/6183) This document also contains the telemetry description section of A.
- User guide : SB#IC.USERGIDE.TEXT(LIBLIST) needs revision

Location: Bldg 1, room 261 (C,D)

Location: Bldg 1, room 261B (A)

Last Revised: (E) Sept. 1981

Last Revised:

Pages:

Program Name: EDRLOG

Function: The EDRLOG program enters information about an EDR tape which is to be processed into the ISEE automatic LOG. An EDR BLOCK is formatted and written with a processing disposition which indicates it needs to be processed. At the same time, a TLS slot is assigned for the EDR.

Source Dataset(s)

- SB#IC.EDRLOG.SOURCE (restored 7/26/88 from LIBMAN)

Library Dataset(s)

- DAIO package; SB#VG.GENERAL.LOAD (fortranh vsn)

Run Dataset(s)

JCL	CLIST
---	-----
See SB#VG for batch JCL	SB#IC. LIB. CLIST(EDRLOG)

Compile and Link Datasets

JCL	CLIST
---	-----
SB#IC.EDRLOG.SOURCE(build)	none

Backup Location(s)

- under HSM

Program Documentation

Document

Name:

- A. ISEE-3 Automatic Log documentation. See the document ISEE-3 Data Reduction Programmers Guide, (CSC/TM-80/6208), July 1980
- B. ISEE-3 Production Data Processing Procedures Guide, (CSC/TM-81/6112), May, 1981 (out of date, but helpful, has CLIST execution examples)
- C. User guide : SB#IC.USERGIDE.SOURCE(EDRLOG) needs revision

Location: Bldg 1, room 261b(A,B)

Location: Bldg 1, room 261 (C)

Last Revised:

Pages:

Program Name: EDRSAVE

Function: The EDRSAVE program copies EDR data tapes onto LIBRARY tapes. It creates a LIB BLOCK entry in the LOG.DATA data set.

Source Dataset(s)

- SB#IC.EDRSAVE.SOURCE

Library Dataset(s)

- FTIO package, DAIO package, SB#VG.GENERAL.LOAD (fortranh vsn)

Run Dataset(s)

JCL ---	CLIST -----
SB#IC. LIB. CNTL(EDRSAVE)	SB#IC. LIB. CLIST(EDRSAVE)

Compile and Link Datasets

JCL ---	CLIST -----
SB#IC.EDRSAVE.SOURCE(build) (build not entirely from source)	none

Backup Location(s)

- under HSM

Program Documentation

Document

Name:

- A. ISEE-3 EDR Format Specification. See the document ISEE-3 Data Reduction Programmers Guide, (CSC/TM-80/6208), July 1980
- B. ISEE-3 Cosmic Ray Telemetry Description. See A. or C.
- C. Data Processing System Guide for the Voyager-1 and Voyager-2, and the ISEE-3 Cosmic Ray Experiments (CSC document # CSC/M-81/6183) This document also contains the telemetry description section of A.
- D. ISEE-3 Automatic Log documentation, see A.
- E. ISEE-3 Production Data Processing Procedures Guide, (CSC/TM-81/6112), May, 1981 (out of date, but helpful, has CLIST execution examples)
- F. User guide : SB#IC.USERGIDE.TEXT(LIBLIST) needs revision

Location: Bldg 1, room 261 (C)

Location: Bldg 1, room 261B (A,E)

Last Revised: (C) Sept. 1981

Last Revised:

Pages:

Program Name: ENCGEN

Function: The ENCGEN program reduces EDR data from LIBRARY tapes and produces WORK tapes which have the same format as the final production stage tapes, ENCY tapes. It makes 15 minute (VOLUME) summaries of PHA and RATE data from the LIB tapes.

Source Dataset(s)

- SB#IC.ENCGEN.ASM

Library Dataset(s)

- FTIO package, DAIO package

Run Dataset(s)

JCL	CLIST
---	-----
SB#IC. LIB. CNTL(ENCGEN)	SB#IC. LIB. CLIST(ENCGEN)

Compile and Link Datasets

JCL	CLIST
---	-----
SB#IC.ENCGEN.SOURCE(\$build64)	none
(make \$build\$ from above as indicated in that member)	

Backup Location(s)

- under HSM

Program Documentation

Document

Name:

- A. See the document ISEE-3 Data Reduction Programmers Guide,
(CSC/TM-80/6208), July 1980
- B. ISEE-3 Cosmic Ray Telemetry Description. See A. or C.
- C. ISEE-3 Automatic Log documentation, see A.
LIB and WORK processing segment.
- D. Source prologues. 'SEICC.PROLOGUE.TEXT'
- E. Data Processing System Guide for the Voyager-1 and
Voyager-2, and the ISEE-3 Cosmic Ray Experiments
(CSC document # CSC/M-81/6183) This document contains
the WORK (ENCY) format specification and also the
telemetry description.
- F. ISEE-3 Production Data Processing Procedures Guide,
(CSC/TM-81/6112), May, 1981 (out of date, but
helpful, has CLIST execution examples)
- G. User guide : none

Location: Bldg 1, room 261B (A,F)

Location: Bldg 1, room 261 (E)

Location: Cosmic Ray System Tape backup(D)

Last Revised: (E) Sept. 1981

Last Revised:

Pages:

Program Name: ENCMRG

Function: The ENCMRG program merges data from WORK tapes onto the encyclopedia, ENCY tapes.

Source Dataset(s)

- SB#IC.ENCMRG.SOURCE
- SB#IC.ENCGEN.ASM

Library Dataset(s)

- DAIO package, SB#VG.GENERAL.LOAD (fortranh vsn)

Run Dataset(s)

JCL ---	CLIST -----
SB#IC. LIB. CNTL(ENCMRG)	SB#IC. LIB. CLIST(ENCMRG)

Compile and Link Datasets

JCL ---	CLIST -----
SB#IC.ENCMRG.SOURCE(build) (build not entirely from source)	none

Backup Location(s)

- under HSM (both source datasets)

Program Documentation

Document

Name:

- A. See the document ISEE-3 Data Reduction Programmers Guide,
(CSC/TM-80/6208), July 1980
- B. ISEE-3 Cosmic Ray Telemetry Description. See A. or C.
- C. ISEE-3 Automatic Log documentation, see A.
WORK and ENCY processing segment.
- D. Data Processing System Guide for the Voyager-1 and
Voyager-2, and the ISEE-3 Cosmic Ray Experiments
(CSC document # CSC/M-81/6183) This document contains
the WORK (ENCY) format specification and also the
telemetry description.
- E. ISEE-3 Production Data Processing Procedures Guide,
(CSC/TM-81/6112), May, 1981 (out of date, but
helpful, has CLIST execution examples)
- F. User guide : none, but see E.

Location: Bldg 1, room 261B (A,E)

Location: Bldg 1, room 261 (D)

Last Revised: (D) Sept. 1981

Last Revised:

Pages:

Program Name: FLUXPLOT

Function: The FLUXPLOT program generates flux and rate listings, plots, tapes/disk datasets and histograms, using ENCY tapes as input. See the data set SB#VG.FLUXPLOT.ERRORS for explanations of the various error returns from FLUXPLOT.

Source Dataset(s)

- ZB2NL.VOYSEE.FLUX.SOURCE

Library Dataset(s)

- SB#HP.GENERAL.LOAD

Run Dataset(s)

JCL	CLIST
---	-----
SB#IC.LIB.CNTL(FLUXPLOT)	none

Compile and Link Datasets

JCL	CLIST
---	-----
ZB2NL.VOYSEE.FLUX.SOURCE(\$build\$)	none

Backup Location(s)

- under HSM

Program Documentation

Document

Name:

- A. Voyager Cosmic Ray Subsystem Science Requirements Document (SRD)
- B. Data Processing System Guide for the Voyager-1 and Voyager-2, and the ISEE-3 Cosmic Ray Experiments (GSC document # CSC/M-81/6183) This document contains the ENCY tape format specification.
- C. User guide : SB#IC.USERGIDE.TEXT(FLUXPLOT)

Location: Bldg 1, room 261 (B)

Location: Bldg 1, room 261B (A)

Last Revised: (B) Sept. 1981

Last Revised:

Pages:

Program Name: LOGEXPND

Function: The LOGEXPND program expands a Voyager type LOG.DATA when it is full. Fore-ground executed.

Source Dataset(s)

- SB#VG.LIB.CNTL(LOGEXPND)

Library Dataset(s)

- FTIO package

Run Dataset(s)

JCL	CLIST
---	-----
none	SB#IC. LIB. CLIST(LOGEXPND)

Compile and Link Datasets

JCL	CLIST
---	-----
SB#VG. LIB. CNTL(LOGEXPND)	none

Backup Location(s)

- under HSM

Program Documentation

Document

Name:

- A. Source program and CLIST comments
- B. User guide : none

Location:

Last Revised:

Pages:

Program Name: LOGLIST

Function: The LOGLIST program lists the ISEE-3 LOG.DATA dataset. It can be run in foreground or background.

Source Dataset(s)

- SB#IC.LOGLIST.SOURCE (restored from 82054 LIBMAN 7/28/88)

Library Dataset(s)

- DAIO package; SB#VG.GENERAL.SOURCE (fortranh vsn)

Run Dataset(s)

JCL ---	CLIST -----
SB#IC. LIB. CNTL(LOG)	SB#IC. LIB. CLIST(LOGLIST)

Compile and Link Datasets

JCL ---	CLIST -----
SB#IC. LOGLIST. SOURCE(build) (build not entirely from source)	none

Backup Location(s)

- under HSM 7/28/88 from restore

Program Documentation

Document

Name:

- A. Source prologues (very limited)
- B. ISEE-3 Automatic Log documentation. See the document
ISEE-3 Data Reduction Programmers Guide,
(CSC/TM-80/6208), July 1980
- C. ISEE-3 Production Data Processing Procedures Guide,
(CSC/TM-81/6112), May, 1981 (out of date, but
helpful, has CLIST execution examples)
- D. User guide : SB#IC.USERGIDE.TEXT(LOGLIST); dataset names
out of date, no input examples

Location: source dataset (A)

Location: Bldg 1, room 261b(B,C)

Last Revised: see entries

Pages:

Program Name: LSELECT also called ENCYLIST

Function: The LSELECT program produces a formatted listing of ENCY tapes.

Source Dataset(s)

- SB#IC.ENCYLIST.SOURCE

Library Dataset(s)

- FTIO package; SB#VG.GENERAL.LOAD

Run Dataset(s)

JCL	CLIST
---	-----
SB#IC. LIB. CNTL(LSELECT)	none

Compile and Link Datasets

JCL	CLIST
---	-----
SB#IC.ENCYLIST.SOURCE(build) (build not entirely from source)	none

Backup Location(s)

- under HSM

Program Documentation

Document

Name:

- A. See the document ISEE-3 Data Reduction Programmers Guide, (CSC/TM-80/6208), July 1980, for ENCY format and list of T/F flag data types.
- B. ISEE-3 Cosmic Ray Telemetry Description. See A. or D.
- C. Source prologues.
- D. Data Processing System Guide for the Voyager-1 and Voyager-2, and the ISEE-3 Cosmic Ray Experiments (CSC document # CSC/M-81/6183) This document also contains the WORK (ENCY) format specification and also the telemetry description.
- E. ISEE-3 Production Data Processing Procedures Guide, (CSC/TM-81/6112), May, 1981 (out of date, but helpful, has execution examples)
- F. User guide : see both SB#IC.ENCYLIST.SOURCE(USERGIDE), and SB#IC.USERGIDE.TEXT(LSELECT), which need revision

Location: Bldg 1, room 261B (A,E)

Location: Bldg 1, room 261 (D)

Last Revised: (D) Sept. 1981

Last Revised:

Pages:

Program Name: MATRIX

Function: The MATRIX program generates PHA matrices from input ENCY tapes.

Source Dataset(s)

- ZB2NL.VOYSEE.MATRIX.SOURCE

Library Dataset(s)

- SBHAP.LECRAY.LOAD

Run Dataset(s)

JCL	CLIST
---	-----
SB#/IC. LIB. CNTL(MATRIX)	none

Compile and Link Datasets

JCL	CLIST
---	-----
ZB2NL.VOYSEE.MATRIX.SOURCE(\$build\$)	none

Backup Location(s)

- under HSM

Program Documentation

Document

Name:

- A. See the document ISEE-3 Data Reduction Programmers Guide, (CSC/TM-80/6208), July 1980, for ENCY format and list of event data types.
- B. ISEE-3 Cosmic Ray Telemetry Description. See A. or C.
- C. Data Processing System Guide for the Voyager-1 and Voyager-2, and the ISEE-3 Cosmic Ray Experiments (CSC document # CSC/M-81/6183) This document also contains the WORK (ENCY) format specification and also the telemetry description.
- D. User guide : SB#IC.USERGIDE.TEXT(MATRIX)

Location: Bldg 1, room 261 (C)

Location: Bldg 1, room 261B (A)

Last Revised: (C) Sept. 1981

Last Revised:

Pages:

Program Name: MAVPLOT

Function: The MAVPLOT program takes an FT30F001 format dataset as input (made from FLUXPLOT run), and makes a 4060 plot code output dataset. Moving averages of the input data can be made on request. MAVPLOT output is usually subsequently processed by TOCAL or TOZETA to obtain plots.

Source Dataset(s)

- ZW2NL.MOVAVG.FORT

Library Dataset(s)

- ZB2NL.GENERAL.LOAD

Run Dataset(s)

JCL	CLIST
---	-----
none	SB#HP. LIB. CLIST(MAVPLOT)

Compile and Link Datasets

JCL	CLIST
---	-----
ZW2NL. MOVAVG. FORT(\$BUILD\$)	none

Backup Location(s)

- under HSM (Zb2nl.general.load in ASM2 only)

Program Documentation

Document

Name:

- FT30F001 FLUXPLOT output format specification is in the Data Processing and Programmer's Guide for the Pioneer-10 and -11 Cosmic Ray Experiments (CSC/TM-81/6203), March, 1982, Volume 2, p. E-15,E-16
- User guide : None. But see PIONEER Production Data Processing Procedures Guide (SAR-84-0122s), December, 1984, Appendix C for TSO session execution example.

Location: Bldg 1, room 261 (A,B)

Last Revised: see entries

Pages:

Program Name: REDOLIB

Function: The REDOLIB program changes the processing disposition of the LIB BLOCK of interest so that ENCGEN will attempt to process it again.

Source Dataset(s)

- SB#IC.REDOLIB.SOURCE (restored from LIBMAN 82050, 7/28/88)

Library Dataset(s)

- DAIO package

Run Dataset(s)

JCL ---	CLIST -----
SB#IC.REDOLIB.SOURCE(PROC) not used normally	SB#IC.LIB.CLIST(REDOLIB)

Compile and Link Datasets

JCL ---	CLIST -----
SB#IC.REDOLIB.SOURCE(build)	none

Backup Location(s)

- under HSM (as of 7/28/88 restore)

Program Documentation

Document

Name:

- A. Source prologues in the source dataset
- B. ISEE-3 Automatic Log documentation. See the document
ISEE-3 Data Reduction Programmers Guide,
(CSC/TM-80/6208), July 1980
- C. User guide : SB#IC.REDOLIB.SOURCE(USERGIDE) needs revision

Location: source dataset (A)

Location: Bldg 1, room 261b(B)

Last Revised:

Pages:

Program Name: RMVENC

Function: The RMVENC program removes ENCY tapes from TLS which are marked inactive in their ENCY BLOCK.

Source Dataset(s)

- SB#IC.RMVENC.SOURCE (restored from LIBMAN 83273, 7/28/88)

Library Dataset(s)

- DAIO package; SB#VG.GENERAL.LOAD

Run Dataset(s)

JCL

SB#IC.RMVENC.SOURCE(PROC) not used
normally

CLIST

SB#IC.LIB.CLIST(RMVENC)

Compile and Link Datasets

JCL

SB#IC.RMVENC.SOURCE(build)
(build not entirely from source)

CLIST

none

Backup Location(s)

- under HSM after 7/28/88 restore

Program Documentation

Document

Name:

- A. Source prologues in the source dataset
- B. ISEE-3 Automatic Log documentation. See the document
ISEE-3 Data Reduction Programmers Guide,
(CSC/TM-80/6208), July 1980
- C. ISEE-3 Production Data Processing Procedures Guide,
(CSC/TM-81/6112), May, 1981 (out of date, but
helpful, has CLIST execution examples)
- D. User guide : SB#IC.RMVENC.SOURCE(USERGIDE) is current 7/88

Location: source dataset (A)

Location: Bldg 1, room 261b(B,C)

Last Revised: see entries

Pages:

Program Name: TLS CLIST

Function: The TLS CLIST assigns and removes WORK tapes from TLS, and removes EDR tapes from TLS after processing completion. Parts of the LOG.DATA dataset are also affected.

Each function is performed by a different program as follows-

assign WORK tapes ASSIGNL
remove WORK tapes RWORK
remove EDR tapes REDR

Source Dataset(s)

- SB#IC.TLS.SOURCE

Library Dataset(s)

- DAIO package; SB#VG.GENERAL.LOAD

Run Dataset(s)

JCL

none

CLIST

SB#IC.LIB.CLIST(TLS)

Compile and Link Datasets

JCL		CLIST
---		-----
SB#IC.TLS.SOURCE(build)	ASSIGNL	none
SB#IC.TLS.SOURCE(bulde)	REDR	none
SB#IC.TLS.SOURCE(buildw)	RWORK	none
(builds not entirely from source)		

Backup Location(s)

- under HSM

Program Documentation

Document

Name:

- A. ISEE-3 Automatic Log documentation. See the document ISEE-3 Data Reduction Programmers Guide, (CSC/TM-80/6208), July 1980
- B. ISEE-3 Production Data Processing Procedures Guide, (CSC/TM-81/6112), May, 1981 (out of date, but helpful, has CLIST execution examples)
- C. User guide : see B.

Location: source dataset (A)

Location: Bldg 1, room 261b(A,B)

Last Revised: see entries

Pages:

