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September 1980

2) CONVERSION OF SPU-UNIVERSAL DISK FILE TO JSC-UNIVERSAL TAPE STORAGE - CONVRT USER'S GUIDE

3) W. E. Ryland

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(E81-10185) CONVERSION OF SPU-UNIVERSAL
DISK FILE TO JSC-UNIVERSAL TAPE STORAGE:
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16. Abstract The purpose of program, CONVRT, is to read data files on disk in the SPU-Universal format and reformat the data to JSC Universal and output on tape.					
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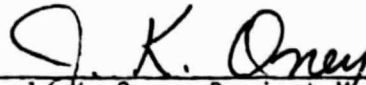
CONVERSION OF SPU-UNIVERSAL DISK FILE TO
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CONVRT
USER'S GUIDE

Job Order 73-368

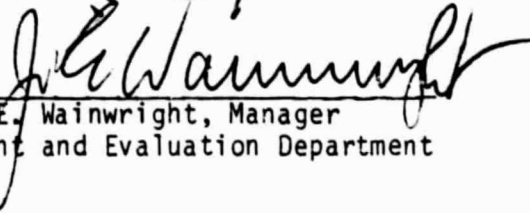
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LOCKHEED ENGINEERING AND MANAGEMENT SERVICES COMPANY, INC.

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For

Earth Observations Division
Space and Life Sciences Directorate
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER
HOUSTON, TEXAS

September 1980

1. GENERAL INFORMATION

1.1 SYSTEM NAME

CONVRT

1.2 PRIMARY USERS

Early Warning/Crop Condition Assessment Project personnel.

1.3 DEVELOPING ORGANIZATION

Lockheed Engineering and Management Services Company, Inc., W. E. Ryland.

1.4 COMPUTER FACILITY

CONVRT runs on a DEC PDP 11/70 computer system under the IAS operating system. It is implemented on the USDA's FAS computer facility in Houston, Texas.

1.5 REFERENCES

1.5.1 DEC-11-LMFUA-B-D Fortran IV User's Guide.

1.5.2 USDA-ATS Integrated Multivariate Data Analysis and Classification System (IMDACS) Program Documentation, Volume II, Image Display Processor Ford Aerospace and Communications Corp.

1.5.3 "Universal Data Tape Format," from Earth Resources Data Format Control Book, Vol. I, PHO-TR-543

2. SYSTEM DESCRIPTION

2.1 PURPOSE

The program CONVRT was originally designed to be a housekeeping type of program to alleviate overcrowding of the available disk space. It is now planned that CONVRT will be used to make tapes to be sent to customers requesting universal formatted imagery data files.

2.2 USAGE

Preceding the execution of CONVRT, the appropriate tape and disk must be mounted and assigned. The operator must be instructed to physically mount the tape with a "write ring" and to mount the disk pack.

LUN 1 is the disk pack

LUN 2 is the tape drive

The following is the proper format:

MOU DB: (disk name) XX1:

ASSIGN XX1: 1

MOU/FOR/DENSITY: 1600 MM: (tape ID) XX2:

ASSIGN XX2: 2

The user must know the name of the file to be copied and the number of files already on the output tape. The user must also be aware of the maximum number of files which can be put on a reel.

Files may be specified as follows:

[n,n] XXXXXXXX.IMH;mmmm

where

n,n is the UIC of the data on the disk pack

XXXXXXX is the file name

IMH is the type

mmmm is the Version

3. INPUT

3.1. TYPES OF INPUT

3.1.1 TAPE

None

3.1.2 DISK

The format of the disk file is given in IMDACS Program Documentation, Vol. II. (see 1.5.3).

3.1.3 CARD

(See 4.2, Batch Processing)

4. PROCESSING

4.1 INTERACTIVE

Following the MOUNT and ASSIGN commands described in Usage (2.2), the user issues the command: RUN CONVRT. The user then answers queries thru the program as follows:

1. ENTER NAME OF FILE TO BE PUT ON TAPE.

Enter the name and version (version is optional), 29 characters are allowed.

Examples:

(1) DB6:[7,7]R000284L9.IMH;1571

or

(2) SKIP11.IMH (no semicolon if version omitted)

2. HOW MANY FILES DO YOU WISH TO SKIP?

If there are 10 files already on tape, you will need to skip 10 files. The user must keep track of the files on tape. If there are no files on tape or if the files are being put on sequential to one another, enter 0. (Note: the tape will not rewind until the exit of the program, after the final file is copied.)

3. PROGRAM OUTPUTS FOLLOWING:

SKIP _____ FILES ALREADY ON TAPE AND ADD _____ .IMH; _____
AND _____ .IMD; _____

(TYPE A TO ACCEPT; X TO REJECT)

4. DO YOU WISH TO COPY ANOTHER FILE? Typing "Y" sends the user back to the first query. Typing "N" ends the program, puts EOF mark on tape and rewinds the tape.

4.2 BATCH

The user must submit the deck of cards as in figure 1 along with a Batch Job Request form. The request form is below.

BATCH JOB REQUEST	NAME: Gene Ryland	DATE SUBMITTED 8/18/80
REQUEST INSTRUCTIONS: Please mount tape (id) with write ring. Run job.		
COMPLETION DATE	OPERATOR	

FASRS-104 (1-79)

NASA-JSC

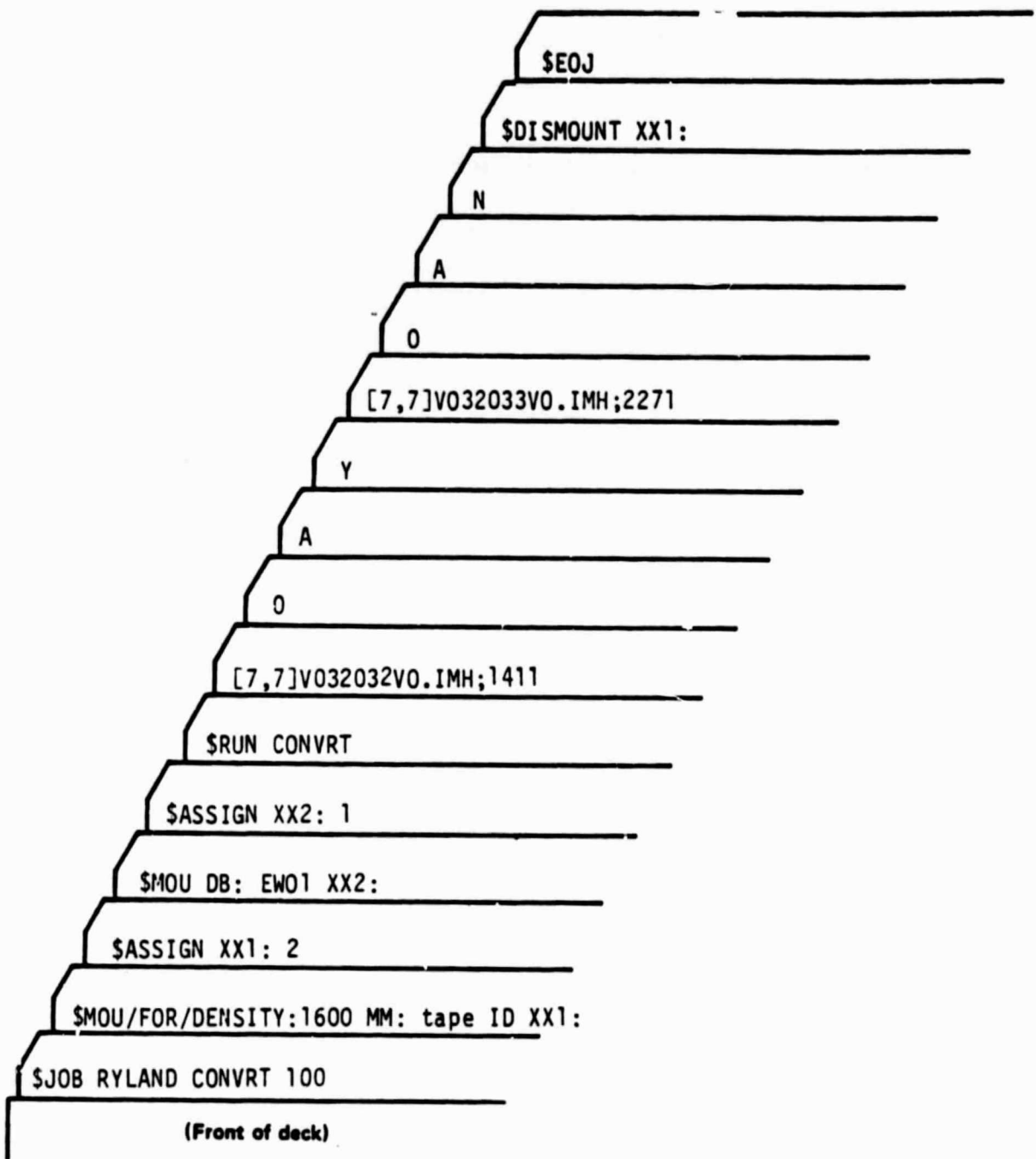
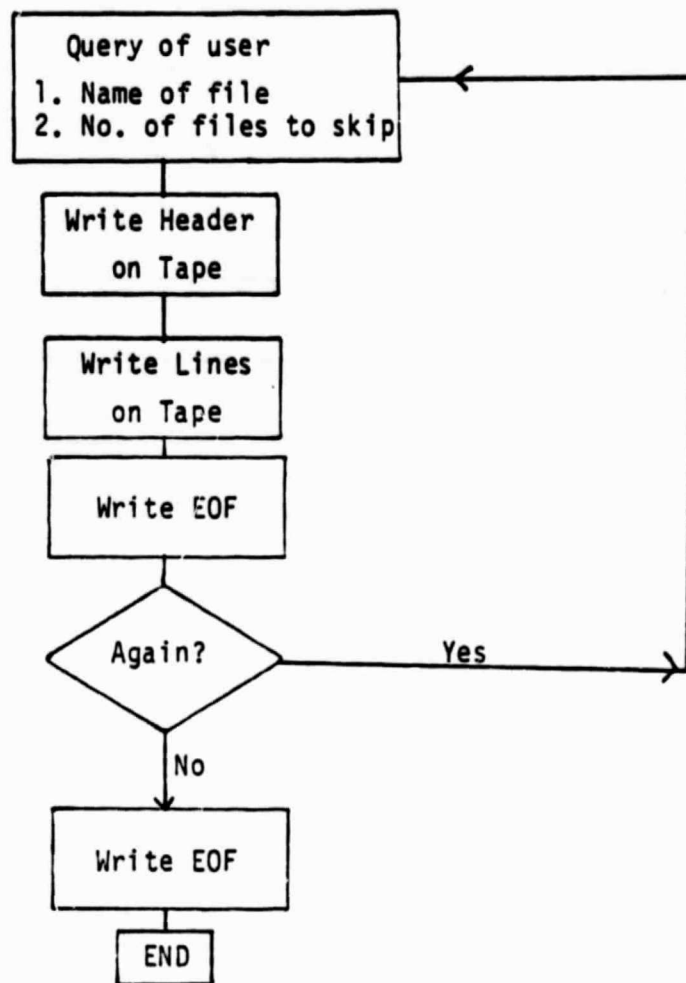


Figure 1
Deck Setup Example

4.3 BLOCK DIAGRAM OF CONVRT



5. OUTPUT

5.1 TYPE OF OUTPUT

5.1.1 TAPE

A universal formatted tape as referenced in 1.5.3.

5.1.2 DISK

None

5.1.3 PAPER

A record of the job is kept on paper if the job is run in BATCH mode.

6. SPECIAL INSTRUCTIONS

- 6.1 The maximum number of files to be put on a tape is twenty (20).