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### Identification

64.5 Driver  
D.E. Joel

### Purpose

This program is an alternative to the command MRGEDT in the CTSS system. It is a card driven program which produces a jobstream on magnetic tape.

### Operation

Two card decks are required as the input for this job. The first is a program deck which is standard, and the second is the data deck wherein the user describes his requirements.

Additionally, it is required to use the tape library which has been set up specifically for running 6.36 and 64.5 jobs.

### The Program Deck

\$	SNUMB	XXXXX
\$	IDENT	XX,64.5,DRIVER,INPUT RUN FOR THE 64.5 SYSTEM.
\$	CONVERT	
\$	READ	IN,A1R
\$	INPUT	MIXED
\$	DISC	OT,A1S,30L
\$	LIBRARY	LB
\$	OPTION	NOMAP
\$	USE	.DJ645
\$	ENTRY	.DJ645
\$	EXECUTE	
\$	LIMITS	40,20222,,500
\$	DISC	IN,A1R,20L
\$	DISC	6B,A2R,20L

THE PROGRAM DECK (Continued)

```

$ DISC F8,A3R,20L
$ DISC F1,A4R,20L
$ DISC F2,A5R,20L
$ DISC F3,A6R,20L
$ DISC F4,A7R,20L
$ DISC F5,A8R,20L
$ DISC F6,A9R,20L
$ DISC F7,A10R,20L
$ DISC F9,A11R,20L
$ DISC FA,A12R,20L
$ DISC FB,A13R,20L
$ TAPE OT,A1D,,,,SCRATCH
$ TAPE LB,A2S,,,,645.LIBRARY
$ COMMENT AFTER ENDJOB USE *SCRATCH* AS GECOS INPUT TAPE.
$ ENDJOB
***EOF

```

THE DATA DECK

The data deck contains control cards and 'data' cards. The control cards inform the 64.5 Driver of the functions to be performed. (A control card has \$645 in columns 1-4, type starting in column 8, and parameters, if any, starting in column 16). Control cards are:

## (A) Identification Card

```

$645 RUN Runname,programmer-ID

```

This card is the first card recognized in the data deck.

Runname and programmer-ID are restricted to a maximum of 6 characters each.

(B) BSA Assembly Card

\$645                      BSA                      Name,options

This card precedes the source deck which is to be assembled.

Name is the segment name of the assembly and is restricted to 6 characters.

The options available are:

- NLSTOU      -   No listing required
- NDECK       -   No deck required
- NOLOAD     -   Not to be loaded for simulation.

In the absence of option specification deck and listing are produced and execution (via the simulator) is attempted.

(C) EPLBSA Assembly Card

\$645                      EPLBSA                      System-name, Segment-name,options

This card precedes the source deck which is to be assembled.

'System-name' is a 6 or less character name which is used within the system to reference this segment and its associated parts.

'Segment-name' is a 31 or less character name which defines the segment uniquely.

The options available are:

- NDECK       -   No deck required
- NOLOAD     -   Not to be loaded for simulation

In the absence of option specification, a binary deck is produced and execution (via the simulator) is attempted.

The source deck to be assembled may be in either of two formats:

(a) BCD cards with conventions described in BE.6.00

(b) Column binary 7 punch cards from CTSS of a file produced by EDA.

(D) Object Card

\$645 OBJECT

This card precedes object text and link decks - as many as required. An attempt at simulation is implied.

(E) Descriptor Word Setting Card

\$645 OPTION parameters

Parameters which may be specified are:

<u>MNEMONIC</u>	<u>MEANING</u>
F0	Directed Fault 0
F1	Directed Fault 1
.	
.	
.	
F7	Directed Fault 7
DATA	
SLVPRC	Slave Procedure
MASPRC	Master Procedure
EXONLY	Execute Only
SLVACC	Slave Access

## (E) (Continued)

WPERMT Write Permit

If no OPTION card is present, standard settings are used:

SLVPRC, SLVACC, WPERMT

The settings specified in an OPTION card remain in effect until another OPTION card is encountered.

If no parameters are specified in an OPTION card, standard settings are reverted to.

## (F) Pagesize Setter

\$645 RSPGSZ Size

Page sizes are:

0 - Unpaged  
 64 - 64 word pages  
 1024 - 1024 word pages

The settings specified in an RSPGSZ card remain in effect until another RSPGSZ card is encountered.

## (G) GE635 Subprogram Inclusion

\$645 SYSTEM Activity-name

The activity names (within the 64.5 system) are:

INITAL - Initializer  
 EBSASS - EPLBSA Assembler  
 BSAPRE - BSA preprocessor  
 BSAPST - BSA post processor  
 PACKER - Packer  
 FILEMK - Filemarker  
 LODSIM - 645 Loader/Simulator  
 DUMPER - Dumper



## (I) (Continued)

These cards are used to set loading parameter which do not change during loading. As indicated, default values are set for all of these parameters, so that a typical user deck might not include any of these cards.

## (J) Foreign File Card

\$645            File                    Name

Name is a 31 or less character file name.

This card precedes the deck which contains a data file for the user's program. The data deck may be in one of two formats:

- a) BCD card image with convention described in BE.6.00.

When explicit line feed control is not defined as the last entry on a card, a newline character is added to the end of the data stream. A fill character (octal 000) is used to complete a partially filled word at the end of the information from each card.

- b) Column binary 7-punch which is produced by CTSS (e.g., from an EDA file).

The data deck is terminated by an end-of-file card (\*\*EOF in columns 1-6).

Requirements when Simulation Requested

A card deck is available which contains basic 645 programs (LINKER, F2CATC, INIT, SEGMENT), plus the necessary control cards described above. If simulation is to be attempted, this deck must be included as part of the data deck.