

INTERIM DISK SYSTEM
PRELIMINARY MANUAL

I) C.DISK'S

CALLS INTERIM DISK SYSTEM FROM BEAD

II) STANDARD SEQUENCES

A) C.DISK'S
FLAGON'SYSTEM
LOAD
FIN

LOADS DISK FROM TAPE

B) C.DISK'S
FLAGON'SYSTEM
RECOVER
FIN

RECOVERS DIRECTORY FROM DISK. (TO BE USED
AFTER RELOADING ECS SYSTEM.)

C) C.DISK'S
FLAGON'SYSTEM
DUMP
FIN

MAKES A DUMP TAPE FROM DISK.

III) COMMANDS

THESE COMMANDS DO NOT REQUIRE THAT ANY FLAGS BE SET

A) GET,ECSFILENAME,ECSUSERNAME,DISKFILENAME,DISKUSERNAME

A FILE IS COPIED FROM THE DISK TO ECS.
THE DISK FILE MUST HAVE BEEN PREVIOUSLY CREATED.

THE ECS FILE IS NAMED AS FOLLOWS:

IF ECSUSERNAME IS NON NULL THEN
ECSFILENAME,ECSUSERNAME
ELSE ECSFILENAME,CURRENTUSERNAME

THE DISK FILE IS NAMED AS FOLLOWS:

IF DISKFILENAME IS NON NULL AND DISKUSERNAME IS NON NULL
DISKFILENAME,DISKUSERNAME
ELSE IF DISKFILENAME IS NON NULL AND DISKUSERNAME IS NULL
DISKFILENAME,CURRENTUSERNAME

ELSE IF DISKFILENAME IS NULL THEN
SAME AS ECS FILE NAME

B) PUT,ECSFILENAME,ECSUSERNAME,DISKFILENAME,DISKUSERNAME

A FILE IS COPIED FROM ECS TO THE DISK
THE CURRENT DISK VERSION IS FIRST COPIED TO THE
BACK UP POSITION, DESTROYING THE BACK UP. THE ECS FILE THEN BECOMES
THE CURRENT DISK VERSION. NAMING IS THE SAME AS IN GET.
THE ECS FILE IS DELETED. (IF THE ECS FILE IS EMPTY, THIS REQUEST
IS IGNORED.)

C) CREATE,DISKFILENAME,DISKUSERNAME

A DISK FILE IS CREATED WITH NAME DISKFILENAME,DISKUSERNAME
(DISKFILENAME,CURRENTUSERNAME IF DISKUSERNAME IS NULL)
THIS COMMAND MUST BE CALLED BEFORE EITHER GET OR PUT WITH THIS DISKFILENAME
(IF THE ECS FILE OF THE SAME NAME IS EMPTY, THIS REQUEST IS IGNORED)

E) LIST,DISKUSERNAME

IF DISKUSERNAME IS NOT NULL THEN

CAUSES A LIST OF THE FOLLOWING FOR EACH DISK FILE
WITH THE GIVEN USER NAME, DISK FILE NAME, SIZE OF
CURRENT FILE, SIZE OF BACK UP FILE, FILE ADDRESS WITHIN
DISK, DIRECT OF THE DIRECTORY ENTRY. EACH OF THESE
SIZES AND ADDRESSES IS IN OCTAL:

IF DISKUSERNAME IS NULL

CAUSES A LIST OF ALL DISK USE NAMES TOGETHER WITH THE
NUMBER OF FILES WITH THAT USER NAME (IN OCTAL)

F) GETB

THE BACKUP VERSION OF A FILE IS COPIED FROM DISK TO ECS.
OTHERWISE SAME AS GET.

G) LGET,ECSFILENAME,ECSUSERNAME

THE NAMED ECS FILE IS TREATED AS A LIST OF STATEMENTS OF THE F
ECSFILENAME, ECSUSERNAME, DISKFILENAME, DISKUSERNAME
EACH OF THESE STATEMENTS IS TREATED AS IF PRECEDED BY #GET, #
ABBREVIATION IS SAME AS IN GET.

H) LPUT, ECSFILENAME, ECSUSERNAME

SAME AS LGET EXCEPT ACTION IS PUT.

I) FLAGON, FLAGNAME

TURNS ON THE NAMED FLAG. AS INDICATED BELOW, SOME COMMANDS REQ
THAT CERTAIN FLAGS BE ON.

J) FLAGOFF, FLAGNAME

TURNS OFF THE NAMED FLAG.

K) FIN

RETURNS TO THE BEAD

THESE COMMANDS REQUIRE THAT THE #DELETE# FLAG BE SET.

L) DELETE,DISKFILENAME,DISKUSERNAME

DELETES THE NAMED FILE FROM THE DISK.

THESE COMMANDS REQUIRE THAT THE #SYSTEM# FLAG BE SET.

M) DUMP

DUMPS DISK ONTO TAPE

N) LOAD

LOADS DISK FROM A PREVIOUSLY MADE TAPE. AFTER ABOUT 30 SECONDS TYPES #DISK COLD STARTED# AND THEN BEGINS TO READ THE TAPE. AFTER READING THE TAPE TYPES #DISK LOADED# AND THEN BEGINS TO COPY CERTAIN FILES FROM DISK TO ECS. (THE LIST IS ON #DISK,ECSFILES#) AFTER ABOUT 10 MORE SECONDS TYPES #LIST EXHAUSTED#.

O) RECOVER

RECONSTRUCTS THE DIRECTORY FROM THE DISK. THEN COPIES CERTAIN ECS FILES FROM DISK TO ECS. (THE LIST IS ON FILE #DISK,ECSFILES#) (REQUIRES ABOUT 40 SECONDS) (PRODUCES TWO MESSAGES, #DISK RECOVERED#, THEN #LIST EXHAUSTED#)

P) READ,N

READS 513 WORDS FROM DISK ADDRESS N TO #DATA# (SEE A LISTING FOR DETAILS) DOES NOT CHECK UNIQUE NAME, BUT DOES CHECK ADDRESS WITH FIRST WORD

Q) TREAD,N

READS THE N#TH RECORD BEYOND CURRENT RECORD MARK ON TAPE. RECORD IS READ TO #DATA#. (N = 0, OR NULL ACTS AS 1)

R) DEBUG

CALLS THE BEAD WITH DEBUG CALL

S) COLD

COLD STARTS THE DISK. ONLY USED ONCE IN LIFE OF THE DISK SYSTEM. TAKES ABOUT 30 SECONDS.

TO DEAD START THE SYSTEM

- 1) MOUNT CURRENT ECS SYSTEM TAPE ON DRIVE 0.
(THE TAPE IS ONE OF 2 ON RIGHT OF RACK TO LEFT OF DRIVE 0)
- 2) PUSH DEAD START BUTTON ON B CONSOLE
- 3) PUSH DEAD START BUTTON ON B MUX
- 4) READ TSS DEADSTART CARD IN CARD READER
- 5) WHEN TAPE UNLOADS, MOUNT CURRENT DISK DUMP TAPE (SEE LOG)
(WILL BE ONE OF TSS1, . . . , TSS5)
- 6) GO TO A TTY, TYPE AS FOLLOWS:
- 7) CONTROL SHIFT P
(RESPONDS WITH #ENTER USER NAME#)
- 8) C.DISK.S
(RESPONDS WITH #DISK HERE#)
- 9) FLAGON.SYSTEM
(RESPONDS WITH #CN#)
- 10) LOAD
(AFTER ABOUT 30 SECONDS TYPES #DISK COLD STARTED# AND
BEGINS TO READ TAPE. EVENTUALLY UNLOADS THE TAPE AND TYPES
#DISK LOADED# , THEN AFTER ABOUT 10 MORE SECONDS
TYPES #LIST EXHAUSTED# .)
- 11) FIN
(RESPONDS WITH #BEAD HERE#)

TO RECOVER THE SYSTEM AFTER AN ECS SYSTEM CRASH

STEPS 1), 2), 3), 4) AS IN DEAD START

5) WHEN THE TAPE UNLOADS, GO TO A TTY AND TYPE AS FOLLOWS:

6) CONTROL SHIFT P

(RESPONDS WITH #ENTER USER NAME#)

7) C:DISK:5

(RESPONDS WITH #DISK HERE#)

8) FLAGON:SYSTEM

(RESPONDS WITH #CN#)

9) RECOVER

(AFTER ABOUT 30 SECONDS, TYPES #DISK RECOVERED# , THEN
AFTER ABOUT 10 MORE SECONDS TYPES #LIST EXHAUSTED#)

10) FIN

(RESPONDS WITH #BEAD HERE#)

TO DUMP THE DISK

- 1) MOUNT NEXT DUMP TAPE ON DRIVE 0. (SEE LOG) (NEEDS A RING)
- 2) GO TO A TTY, TYPE AS FOLLOWS:
- 3) CONTROL SHIFT P
(RESPONDS WITH EITHER #ENTER USER NAME# OR #INTERRUPTED# .
IN THE SECOND CASE, TYPE PURGE. WILL RESPOND WITH EITHER
#BEAD HERE# OR #OK#)
- 4) C+DISK+S
(RESPONDS WITH #DISK HERE#)
- 5) FLAGON+SYSTEM
(RESPONDS WITH #ON#)
- 6) DUMP
(SHOULD BE NO RESPONSE UNTIL DUMP IS COMPLETE. TAPE SHOULD
TO MOVE IMMEDIATELY. AFTER DUMP IS COMPLETED RESPONSE SHOULD BE
#DISK DUMPED#. TAPE SHOULD THEN UNLOAD.)

(IF DUMP DOES NOT TERMINATE CORRECTLY, ATTEMPT TO CONTACT A
TIME SHARING SYSTEM PROGRAMMER, 2-0560 OR 2-0887. IF UNABLE
CONTACT ONE THEN DO A RECOVER AND START THE DUMP OVER.)
- 7) FIN
(RESPONSE SHOULD BE #BEAD HERE#)

TO CREATE A NEW ECS SYSTEM TAPE

1) DO A FRESH DEADSTART OF ECS SYSTEM AND RECOVER DISK.

2) MAKE GOOD VERSIONS IN ECS OF:

PPU, CODE
CPU, CODE
BEAD, CODE
ERROR, PROCESS
DISK, S

(DONT FORGET TO DESTROY THE JUNK FILES THAT YOU MADE WHILE DOING THIS)

3) CALL DISK AND:

GET, DISK, ECSFILES
LPUT, DISK, ECSFILES
GET, DUMP, S
FIN

4) K, DISK, ECSFILES

K, DISK, DIRECT (THIS IS VERY IMPORTANT)
C, DUMP, S

END OF FILE