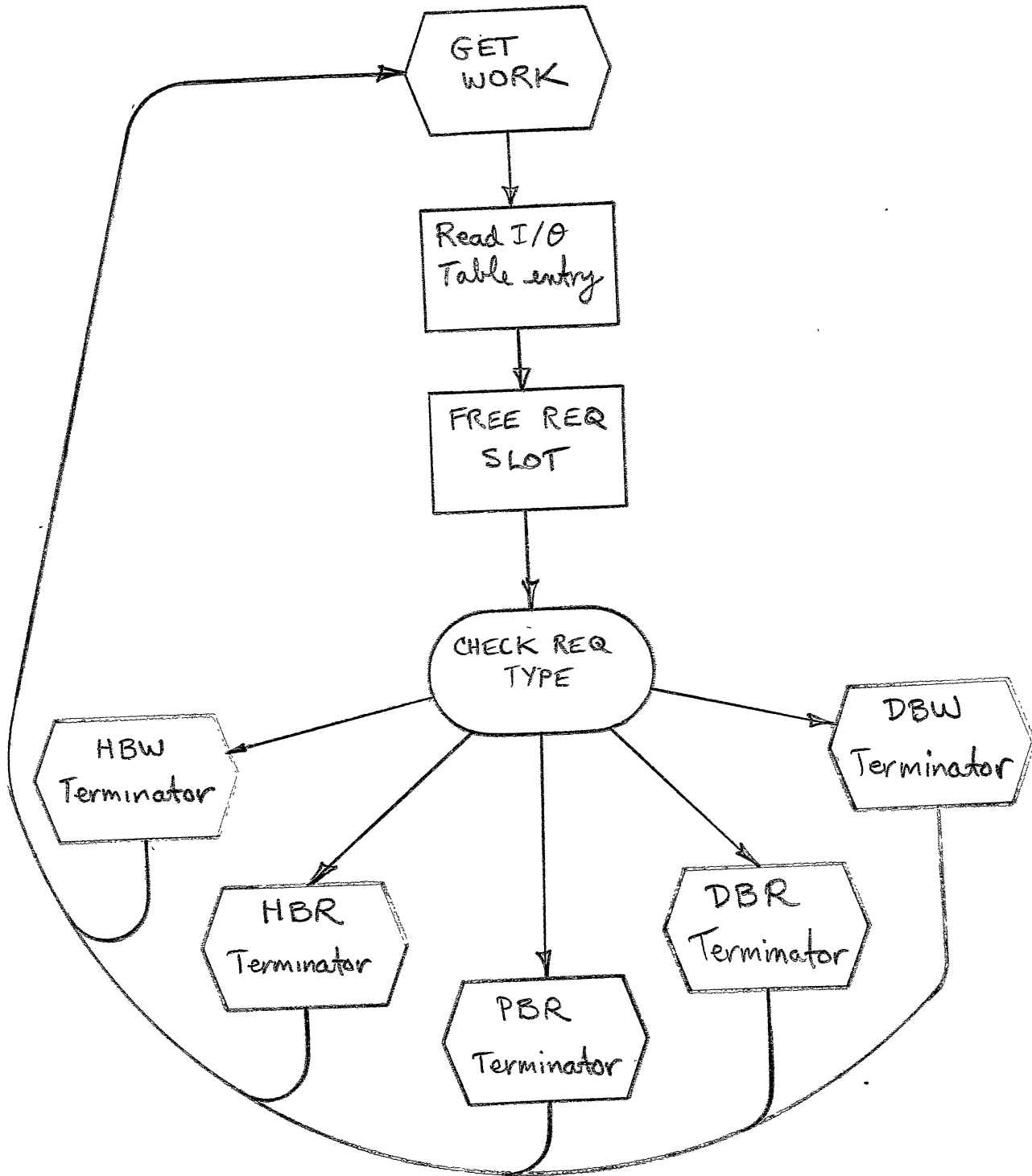


Main Termination loop

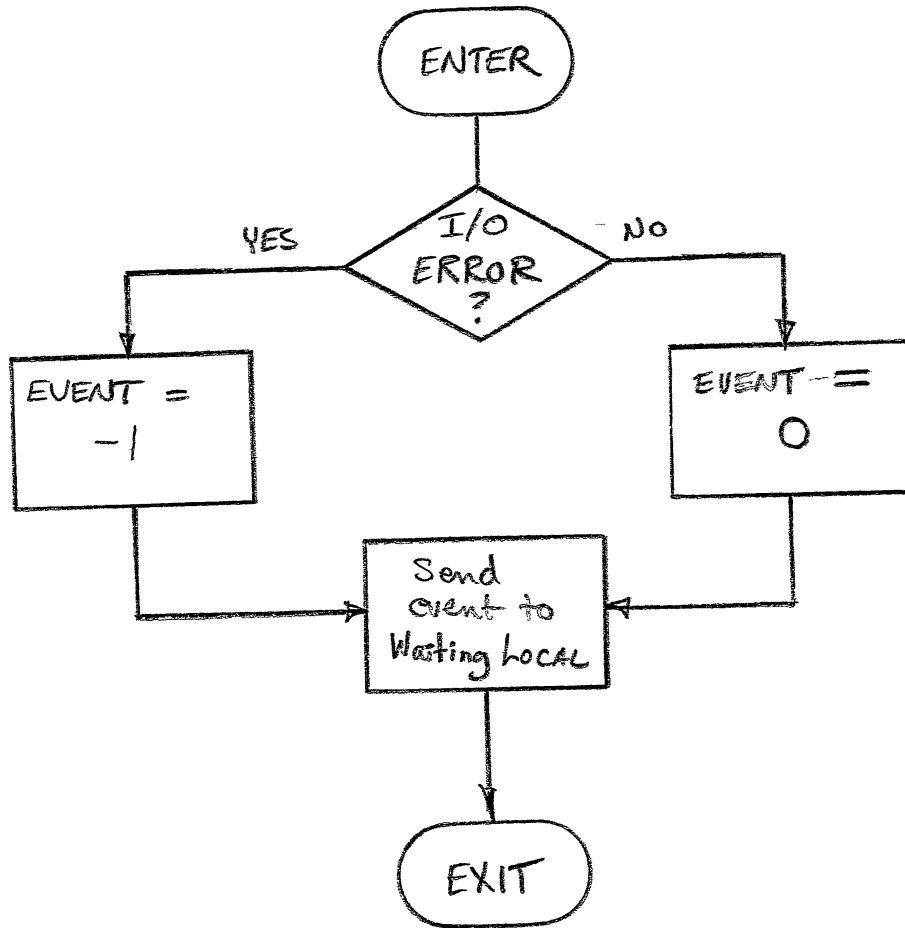
Central Terminator ①



HBW Terminator

(File Locked $\Rightarrow$ no
susp. list obligation)

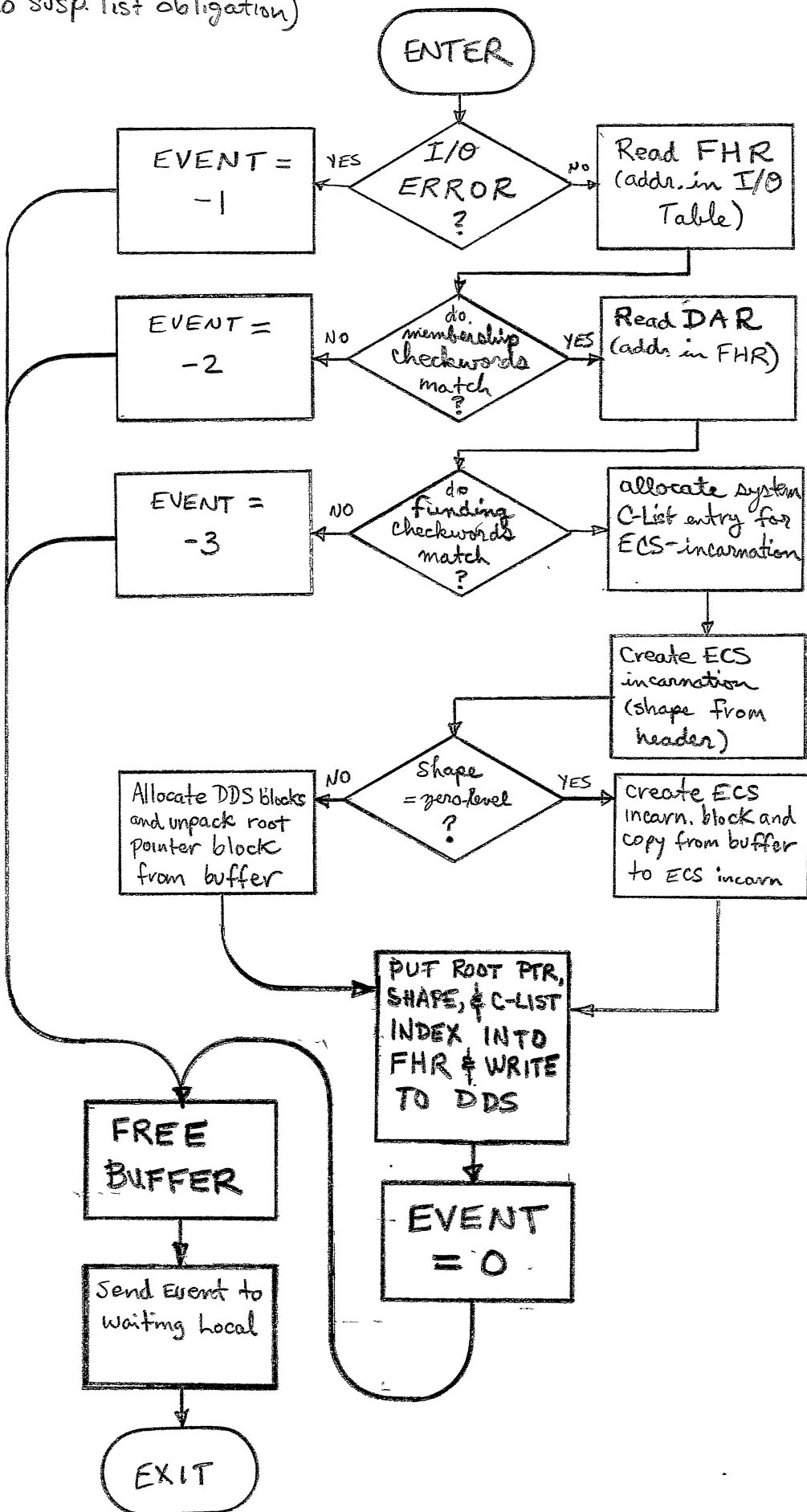
Central Terminator ②



HBR Terminator

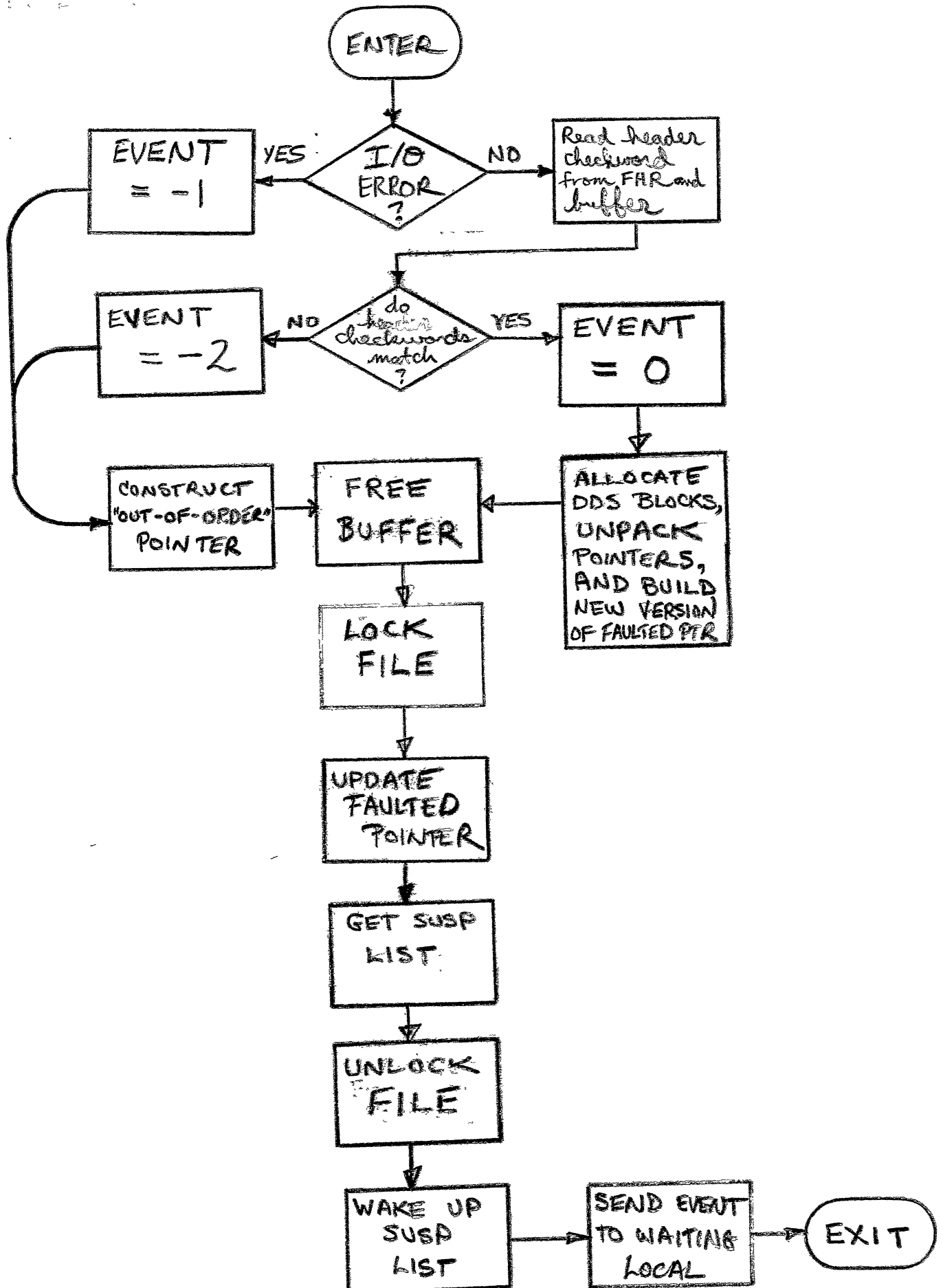
Central Terminator ③

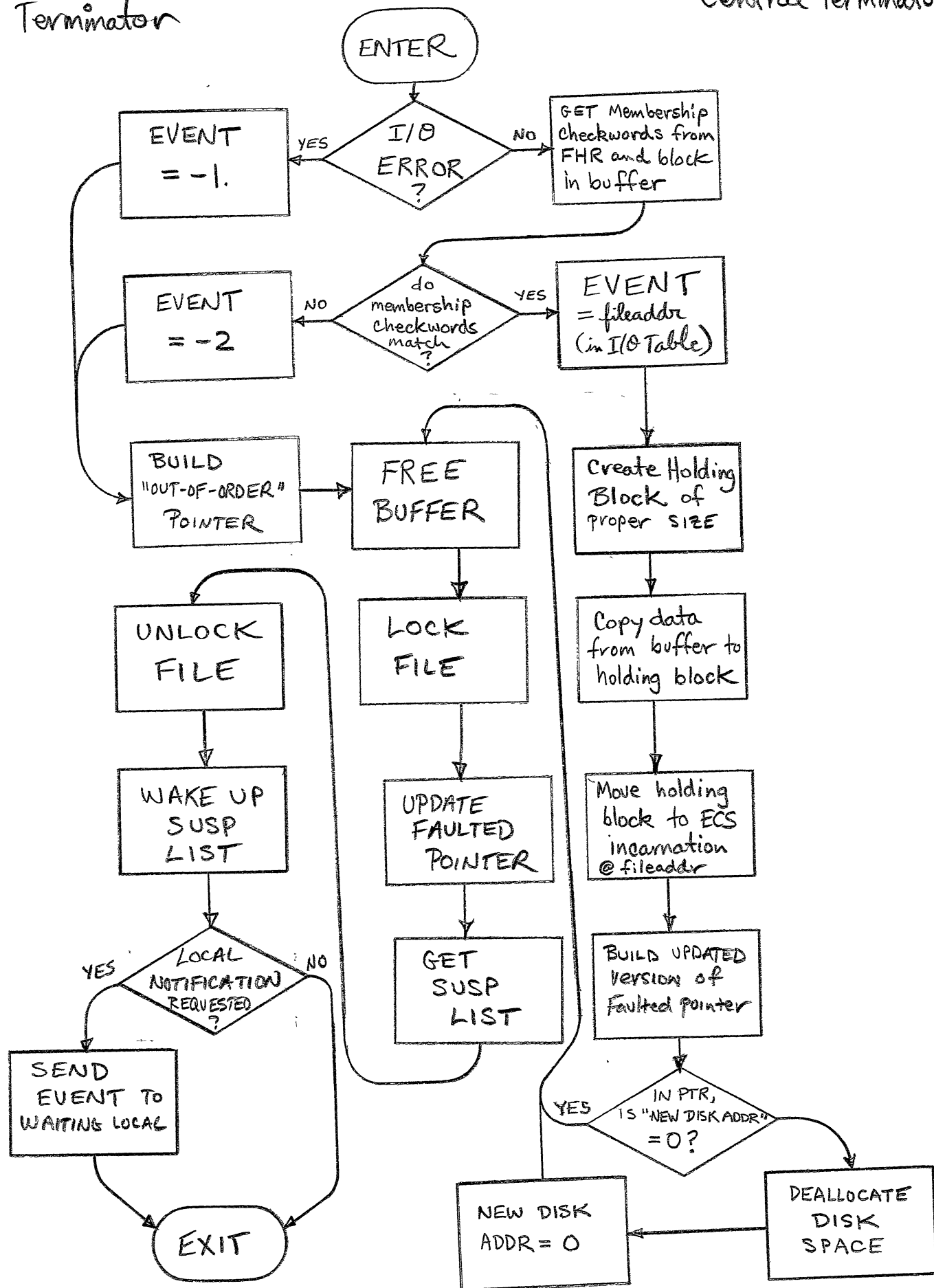
(File locked
⇒ no susp. list obligation)



PBR Terminator

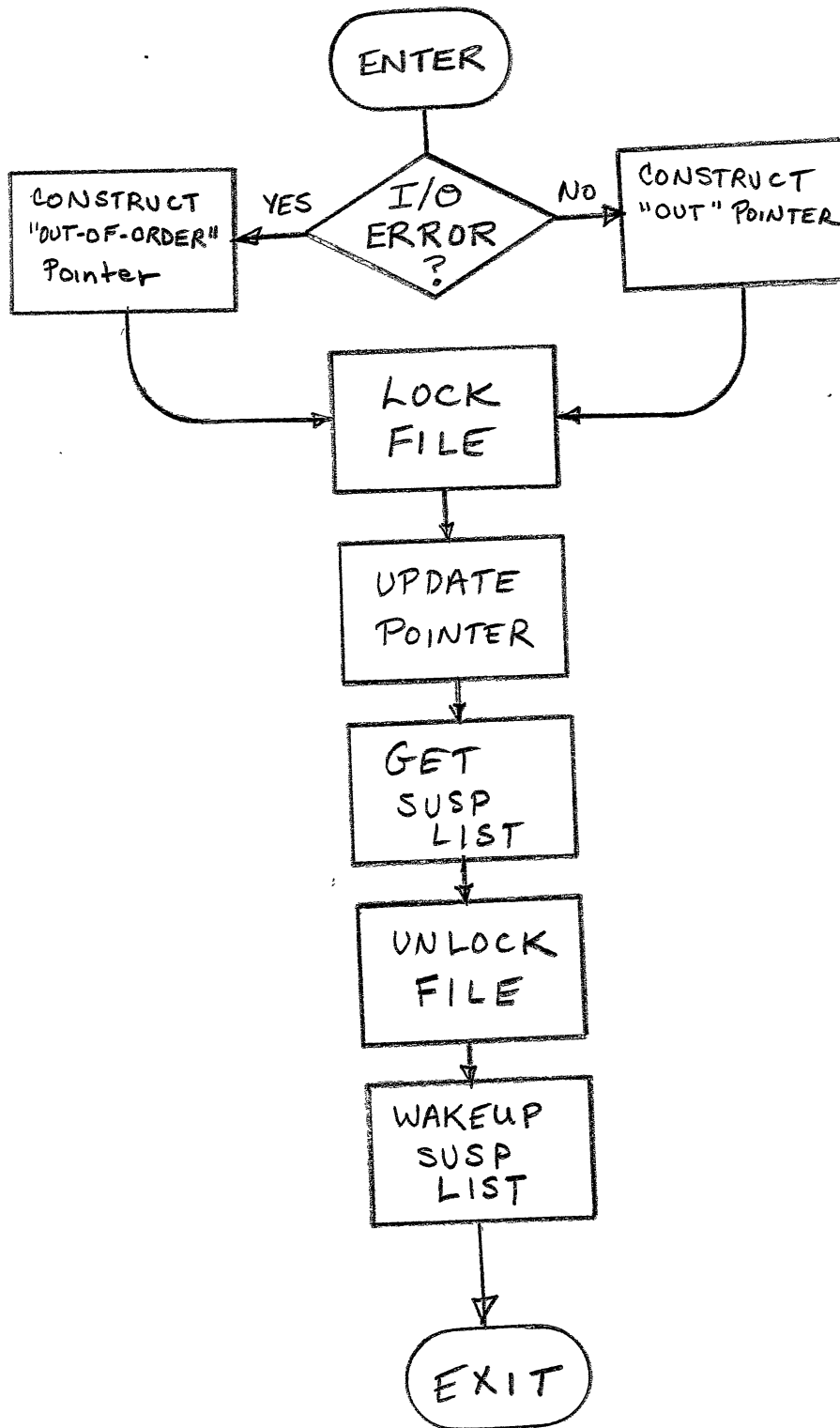
CENTRAL TERMINATOR ④





DBW Terminator

Central Terminator ⑥

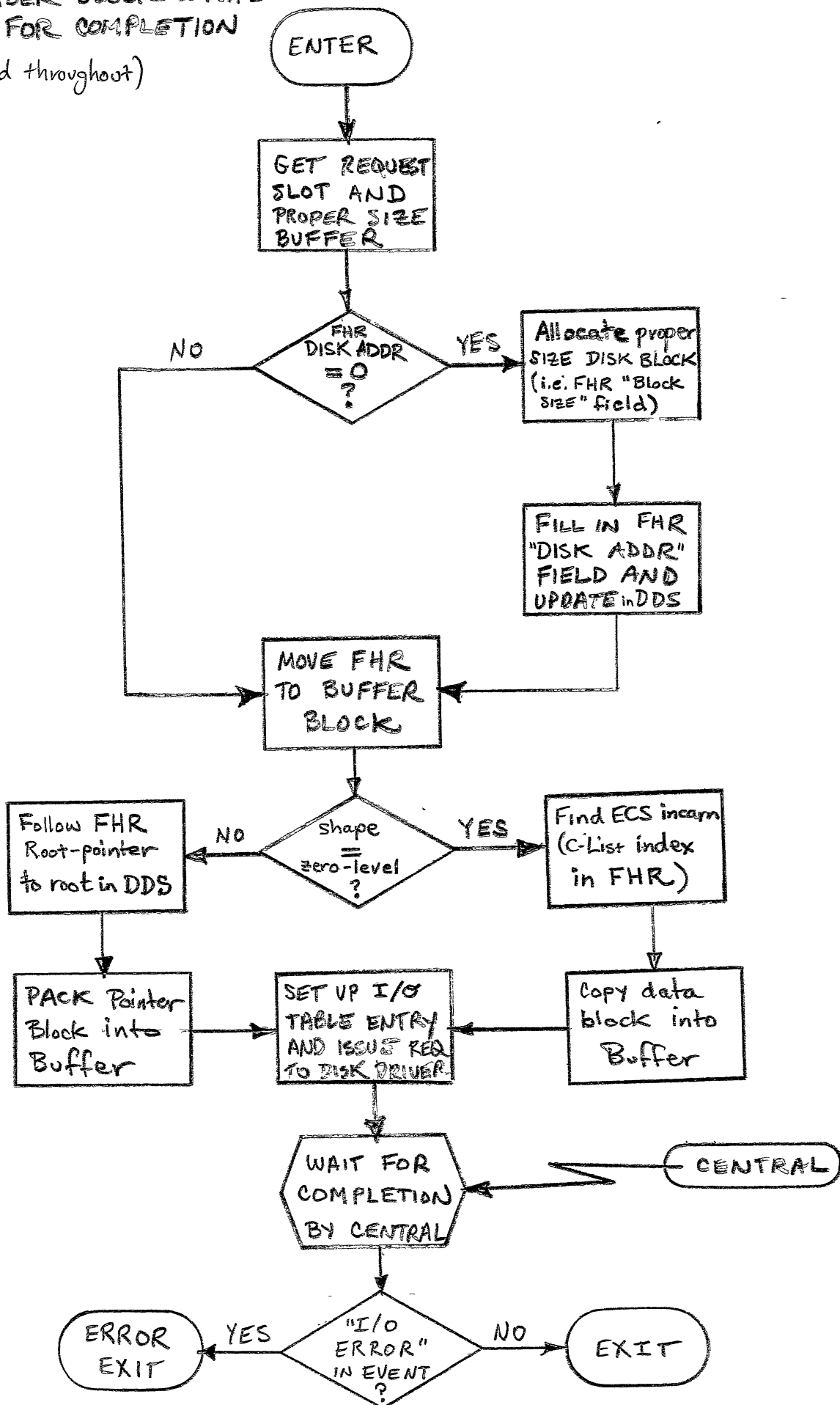


"HBW"

LOCAL / DRIVER INTERFACE ①

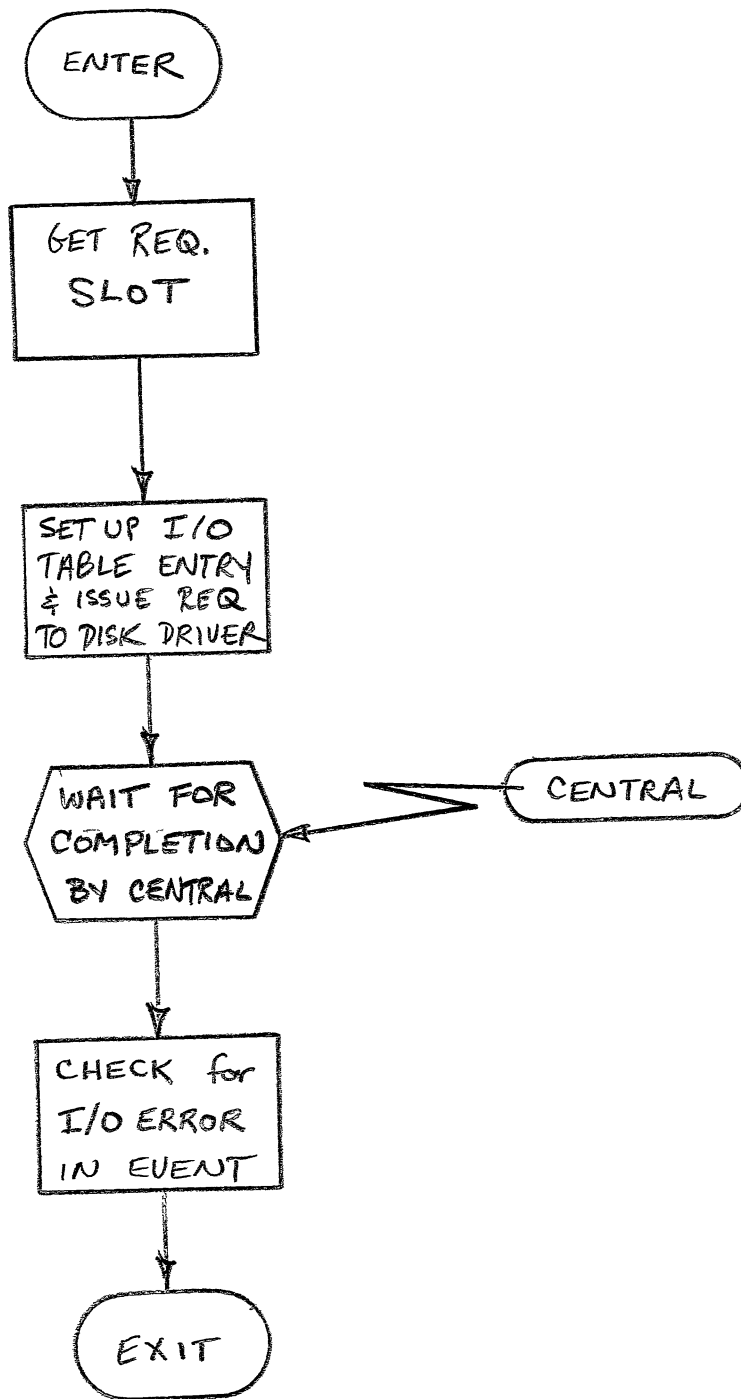
START HEADER-BLOCK WRITE
AND WAIT FOR COMPLETION

(File locked throughout)

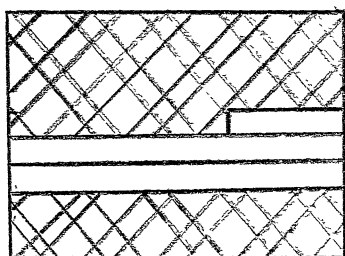


"HBR"

START HEADER-BLOCK READ
AND WAIT FOR COMPLETION
(File locked throughout)



NOTE: at ENTRY, FHR is . . .
Created and filled in, except for:



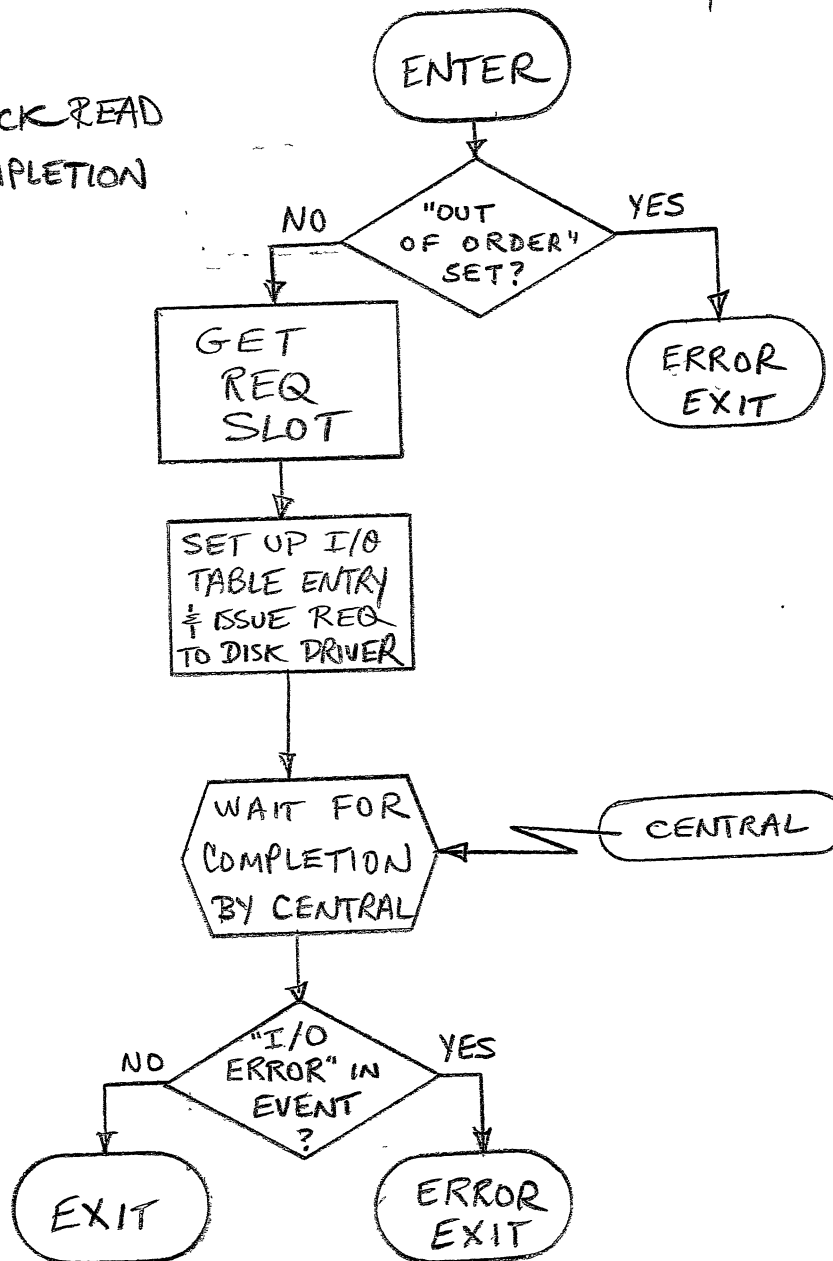
a) ECS incarn C-LIST index

b) SHAPE word

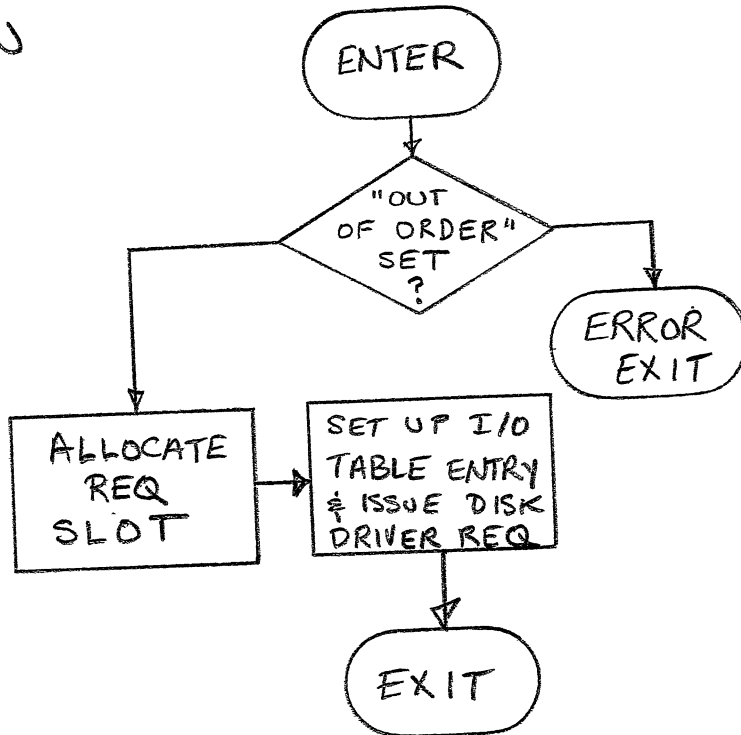
c) Root Pointer

"PBR"

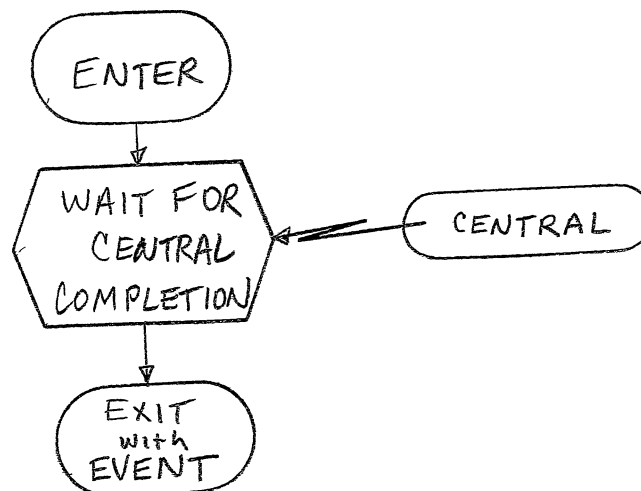
START POINTER-BLOCK READ
AND WAIT FOR COMPLETION



"DBR"

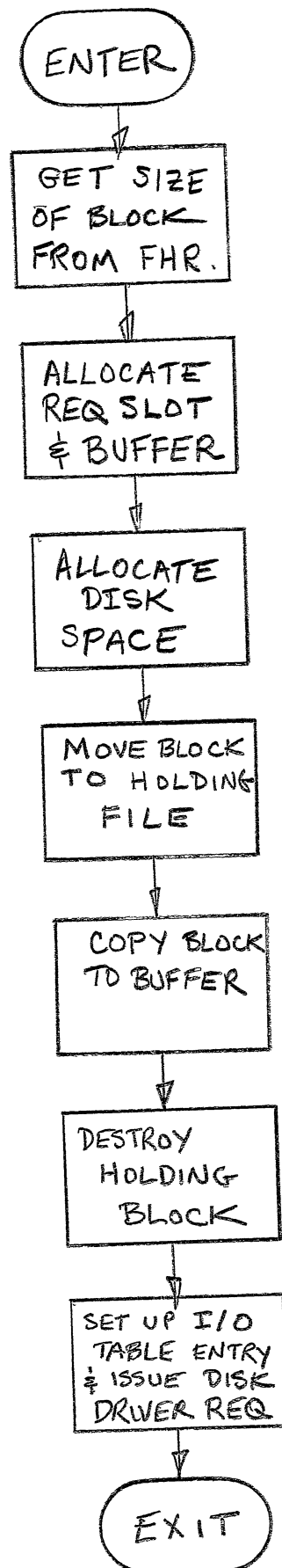
Start DATA-BLOCK READ
AND RETURN

"GETRESP"

AWAIT READ-COMPLETION
RESPONSE

"DBW"
START DATA-BLOCK WRITE
AND RETURN

LOCAL / DRIVER INTERFACE



1. HBW: Start Header-Block Write and Wait for Completion

Input: FHR window loaded (file locked)

B7 = return

Output: $X6 = \begin{cases} 0 & \text{if o.k.} \\ -1 & \text{if I/O Error} \end{cases}$

2. HBR: Start Header-Block Read and Wait for Completion

Input: FHR window loaded (file locked)

B7 = return

Output: $X6 = \begin{cases} 0 & \text{if o.k.} \\ -1 & \text{if I/O Error} \\ -2 & \text{if Membership checkword mismatch} \\ -3 & \text{if Funding checkword mismatch} \end{cases}$

3. PBR: Start Pointer-Block Read and Wait for Completion

Input: FHR window loaded (file unlocked)

X4 = copy of faulted pointer ("in-transit" set)

X5 = DDS address of faulted pointer

B7 = return

Output: $X6 = \begin{cases} 0 & \text{if o.k.} \\ -1 & \text{if I/O Error} \\ -2 & \text{if Membership checkword mismatch} \end{cases}$

4. DBR: Start Data-Block Read and Return

Input: FHR window loaded (file unlocked)

X1 = file address

X4 = copy of faulted pointer ("in-transit" set)

X5 = DDS address of faulted pointer

B7 = return

DBR (cont.)

Output: $X6 = \begin{cases} 0 & \text{if O.K.} \\ -1 & \text{if previous I/O Error ("out-of-order" set)} \end{cases}$

5. DBW: Start Data-Block Write and Return

Input: FHR window loaded (file unlocked)

$X1$ = file address

$X4$ = copy of faulted pointer ("in-transit" set)

$X5$ = DDS address of faulted pointer

$B7$ = return

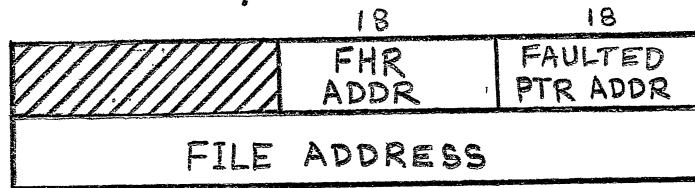
Output: $X6 = \begin{cases} 0 & \text{if O.K.} \\ -1 & \text{if previous I/O Error ("out-of-order" set)} \end{cases}$

6. GETRESP: Wait for Central Response Event

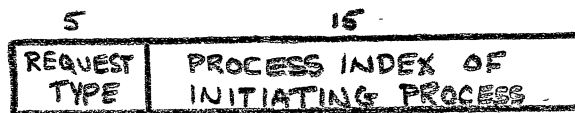
Input: $B7$ = return

Output: $X6 = \begin{cases} \text{file address} & \text{if O.K.} \\ -1 & \text{if I/O Error} \\ -2 & \text{if Membership checkword mismatch} \end{cases}$

I/O Table Entry:



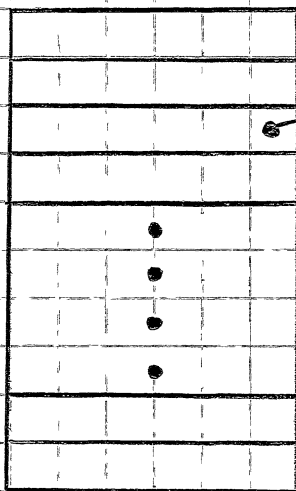
"User Index" field of Disk Driver REQUEST/RESPONSE



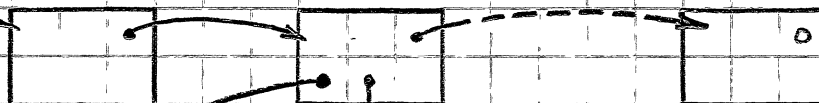
DISK SYSTEM GLOBAL DATA

(1)

FILE HASH TABLE



FILE HEADER Records (Collision Chain)



ROOT POINTER

PAGE SWITCH Record

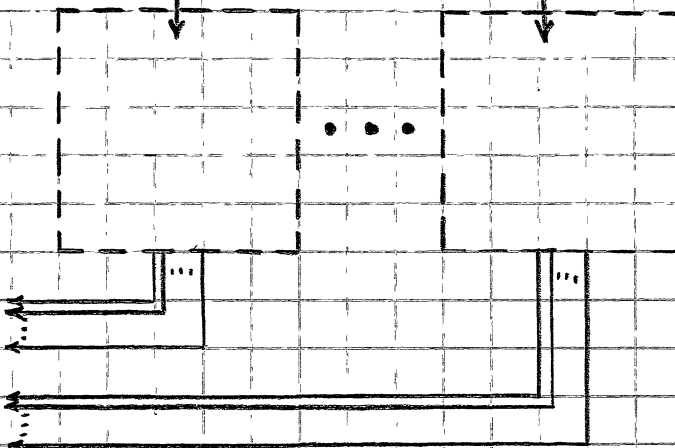
POINTER BLOCK IMAGE

ALLOCATION POINTER

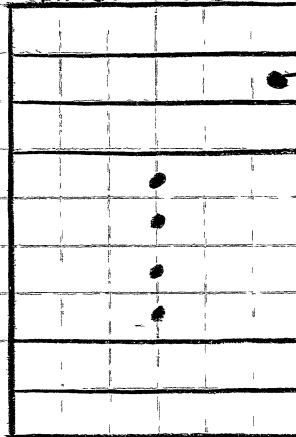
POINTER PAGE Records

LAST POINTER LEVEL

POINTERS TO DATABLOCKS ON DISK (OLD & NEW)



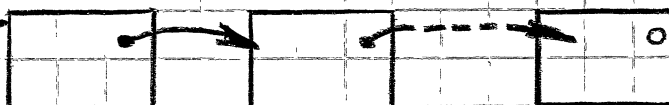
ACCOUNTING HASH TABLE



DISK ACCOUNTING RECORDS



WORKING SPACE Event



WORKING SPACE Chain
(8 word Records)

1-5-70