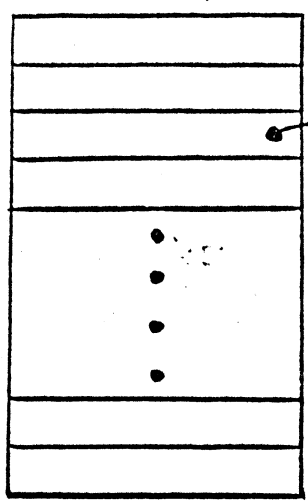
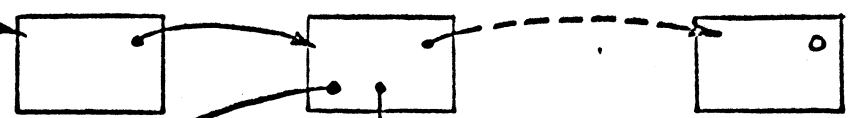


DISK SYSTEM GLOBAL DATA

FILE HASH TABLE

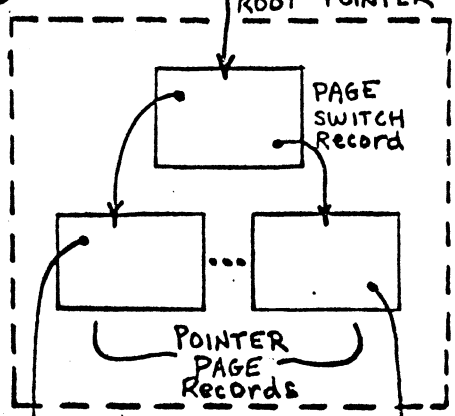


FILE HEADER Records (Collision Chain)



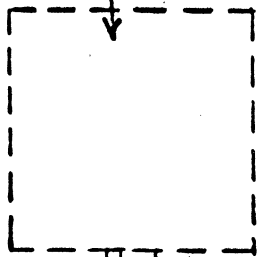
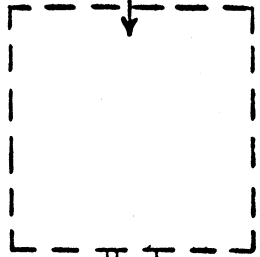
ALLOCATION POINTER

ROOT POINTER



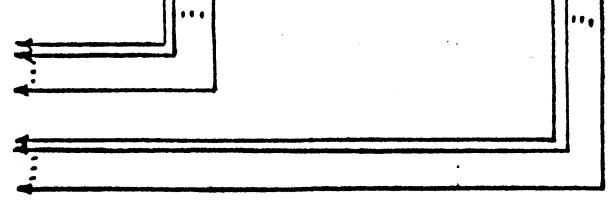
POINTER BLOCK IMAGE

POINTER PAGE Records

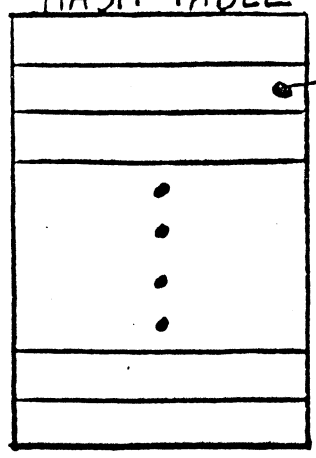


LAST POINTER LEVEL

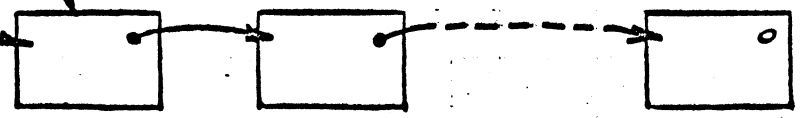
POINTERS TO DATABLOCKS on DISK (OLD & NEW)



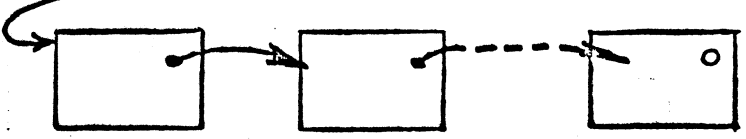
DAR HASH TABLE



DISK ACCOUNTING RECORDS

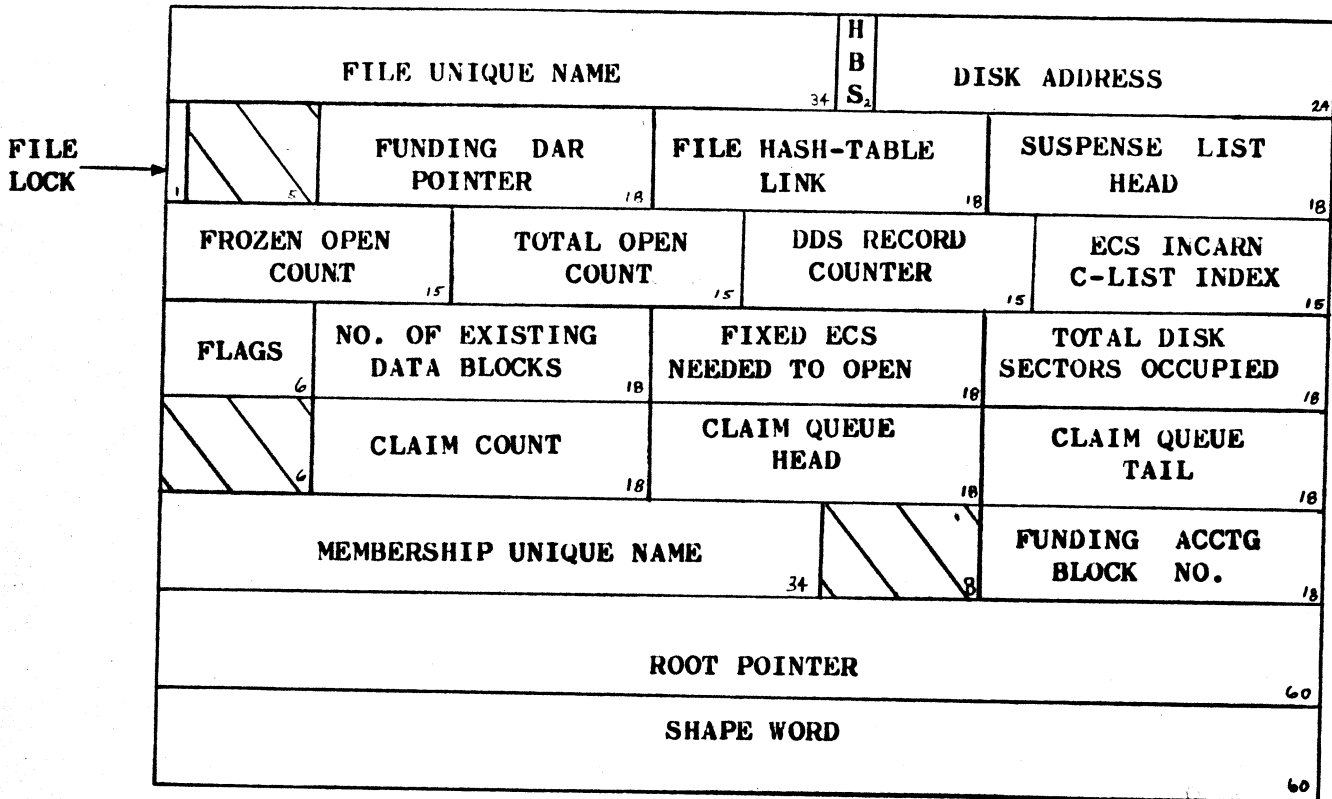


WORKING SPACE Event

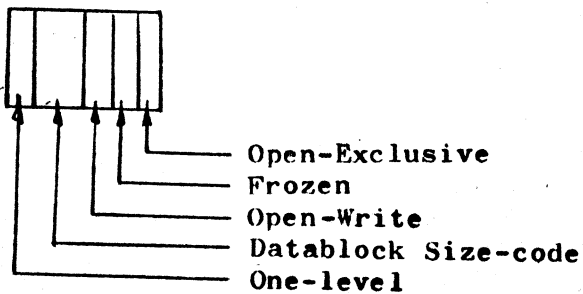


WORKING SPACE Chain (8 WORD Records)

FHR (File Header Record)



FLAGS:

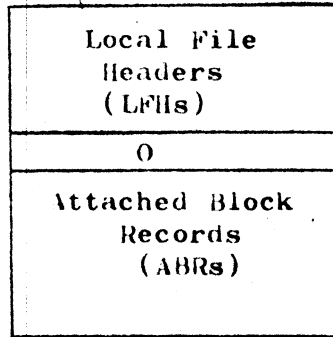


DAR (Disk Accounting Record)

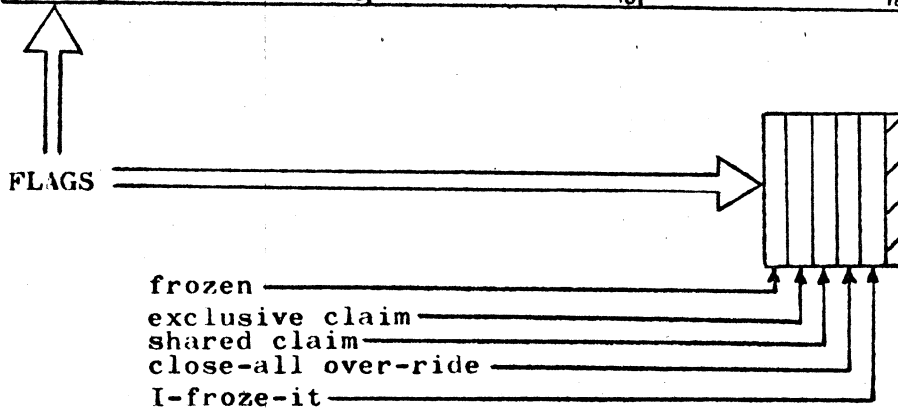
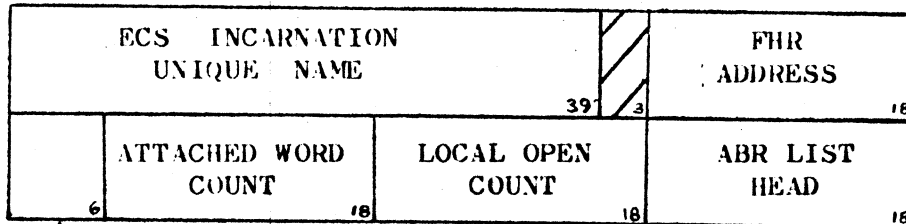
ACCTG BLK NUMBER		16	18	26
DAR LOCK →	ACCTG HASH-TABLE LINK		18	23
INACTIVE FLAG →	ACCOUNT TAG	5	OPEN COUNT	18
RESERVED SPACE			30	SPACE IN USE
TIME OF LAST BILL			30	CHARGE RATE
CONTINUOUS CHARGE METER				
DISCONTINUOUS CHARGE METER				
PENDING-CLOSE COUNT		12	18	SPACE DONATED TO DESCENDENTS
				30

LOCAL FILE TABLE

I. Table Layout:

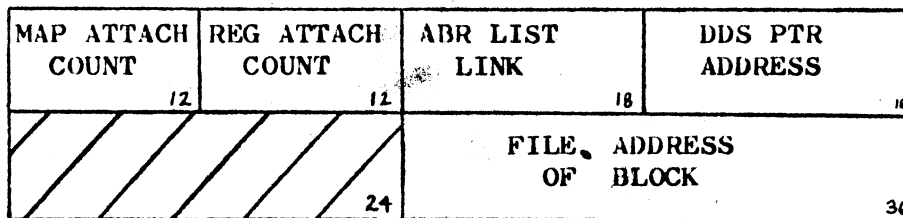


II. LFH Format:



Note: Sign of 1st word of LFH:
 pos ⇒ valid LFH
 0 ⇒ end of LFHs
 neg ⇒ free slot

III. ABR Format:

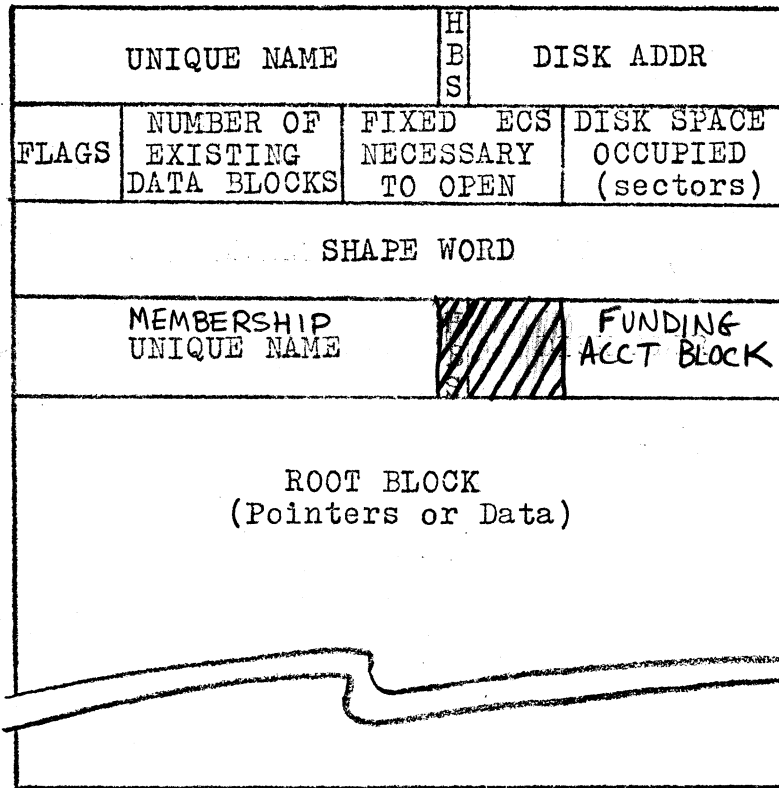


IV. ABR Free Chain:



FILE HEADER BLOCK ("FHB")

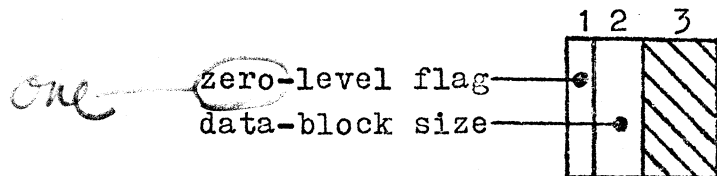
Disk version of file header



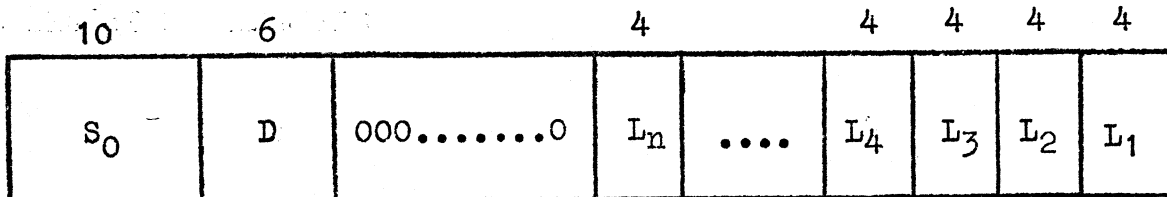
"Membership Checkwo:
(points to this FHB)

Details of FLAGS:

HBS=Header Block Size



Details of SHAPE WORD:



$$D = \sum_{i=1}^n L_i$$

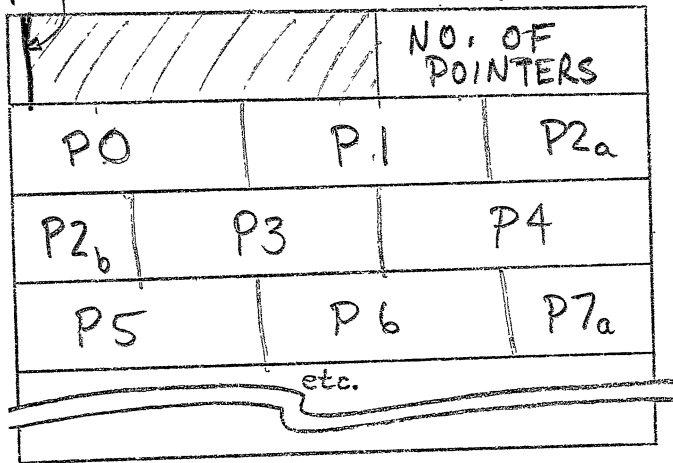
$$L_i = \log_2 S_i$$

$$n \leq 10$$

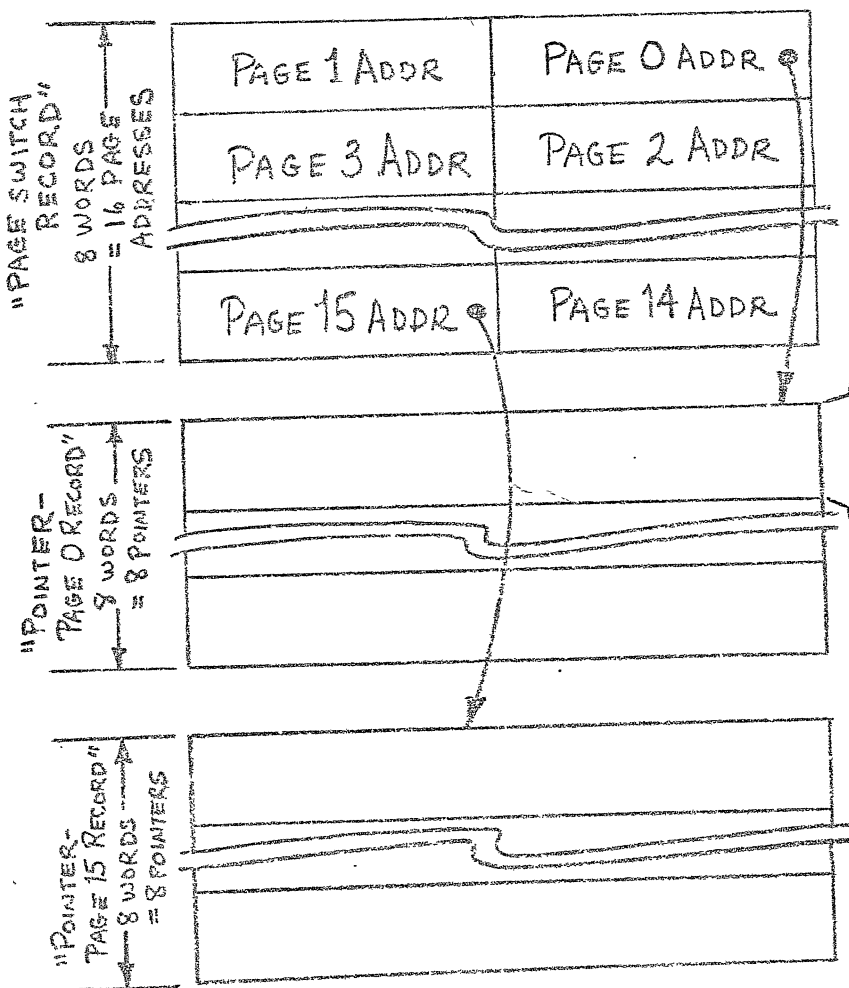
(i.e. bits to right of S₀ in file addresses)

POINTER BLOCK

I. ON DISK TYPE FIELD (insert in pointers)
 0 ⇒ next level = data
 1 ⇒ next level = ptrs

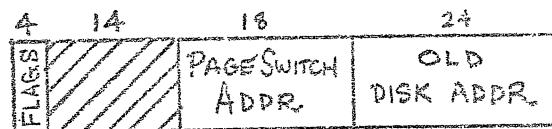


II. IN DISK DATA STRUCTURE

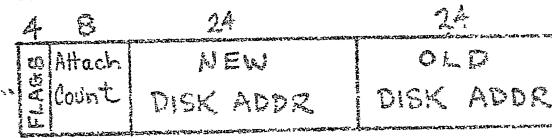


POINTER FORMATS:

To POINTER-BLOCK:



To DATA-BLOCK:



"FLAGS":



- | | | |
|---|--|--|
| <p>TYPE:</p> <ul style="list-style-type: none"> 0 ⇒ DATA-BLOCK 1 ⇒ PTR-BLOCK | <p>STATUS:</p> <ul style="list-style-type: none"> 0 ⇒ OUT 1 ⇒ IN 2 ⇒ GOING 3 ⇒ COMING | <p>EDO:</p> <ul style="list-style-type: none"> 0 ⇒ FILE O.K. 1 ⇒ FILE OUT of CC at this point in tree |
|---|--|--|