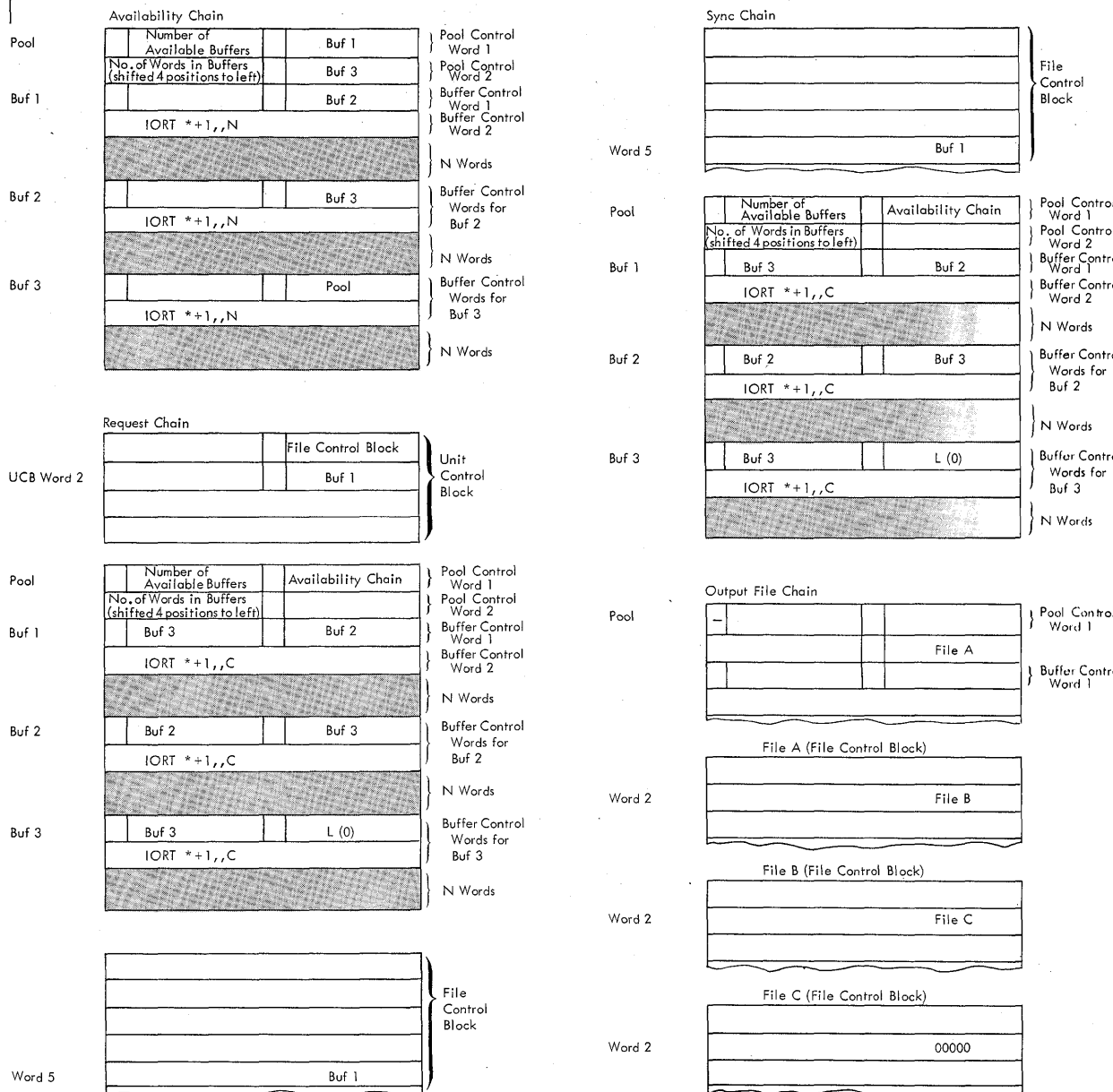


BUFFER POOLS AND CHAINS



Explanation of Terms Used in Buffer Diagrams

Availability Chain - Chain consisting of all buffers not currently being used.

Request Chain - Chain consisting of all buffers that are awaiting an Input/Output Operation.

Sync Chain - Chain consisting of buffers that have been filled by a read operation and are waiting to be used.

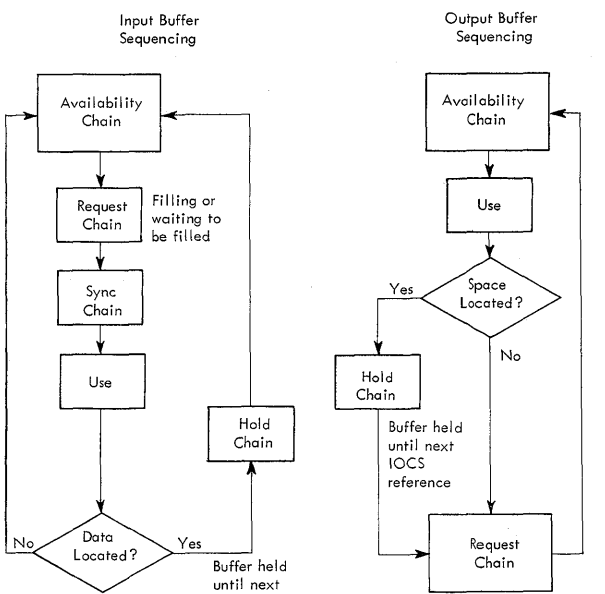
Output File Chain - Chain consisting of all output files using a particular buffer pool.

Hold Chain - Chain consisting of buffers in which data or space has been located by use of nontransmitting commands in either a read or write calling sequence.

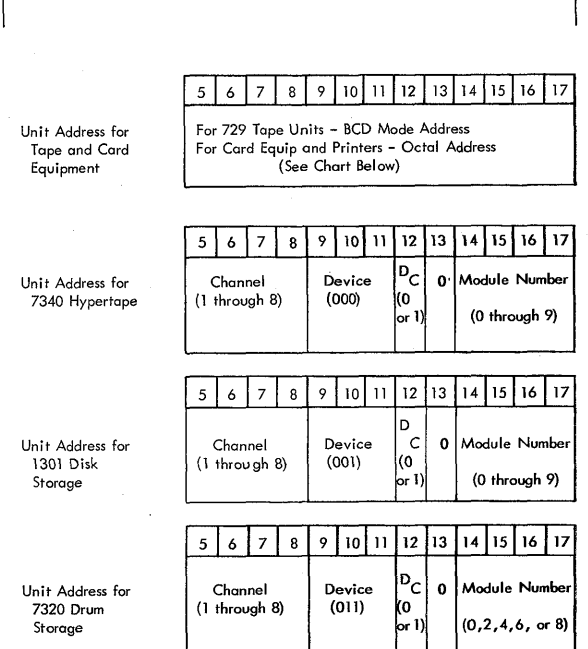
Size of Buffer Pool - (Number of Buffers) (Length of Each Buffer + 2) + 2 words.

N - Number of words in each buffer.

C - Number of words to be written or number of words in buffer (if reading), where C is $\leq N$.



FORMAT OF UNIT ADDRESSES IN UCB'S



Input/Output Device Addresses

Magnetic Tape Units		Printers	
Channel	BCD Address	Channel	Octal Address
A	01201 to 01212	A	01361
B	02201 to 02212	B	02361
C	03201 to 03212	C	03361
D	04201 to 04212	D	04361
E	05201 to 05212	E	05361
F	06201 to 06212	F	06361
G	07201 to 07212	G	07361
H	10201 to 10212	H	10361

Card Readers		Card Punches	
Channel	Octal Address	Channel	Octal Address
A	01321	A	01341
B	02321	B	02341
C	03321	C	03341
D	04321	D	04341
E	05321	E	05341
F	06321	F	06341
G	07321	G	07341
H	10321	H	10341

Explanation of Codes Used in Unit Control Blocks

A Availability Flag

AF Seek Request Flag

B Select Mode Flag (Normal or Backward)

C Channel Type

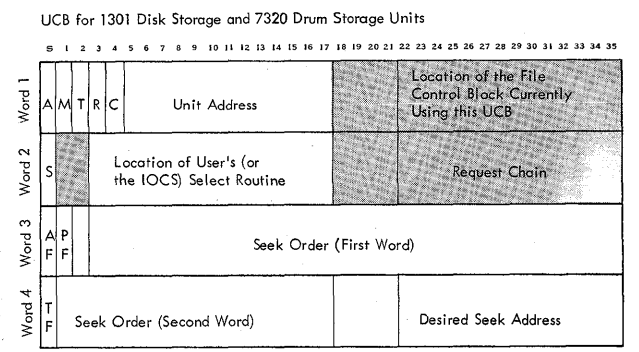
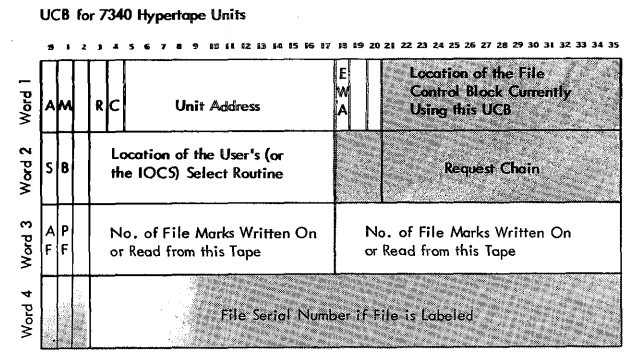
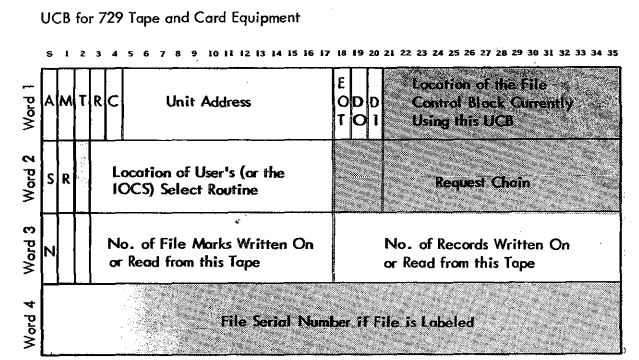
DI Tape Density at Current Positions

DO Tape Density at Load Point

EOT End-of-Tape Flag

EWA End Warning Area Flag

M Attachment Flag



N Noise Record Flag (reading only)

PF Seek Issued Flag

R In Word 1 of a UCB - Reserve Status Flag

In Word 2 of a Tape UCB - Reserve Status Flag

In Word 2 of a Tape UCB - Permanent Redundancy Message Control

S Select Type (Read or Write)

T In Word 1 of a Tape UCB - Tape Unit Type

In Word 1 of a Disk UCB - File Control Unit Type

In Word 4 of a Disk UCB - Track Flag

Word 1	729	MF2	Location of Unit Control Block of Secondary Unit														MF1	Location of Unit Control Block of Primary Unit													
	7340																														
Word 2	1301	7320	WCF	Beginning-of-File Locator																											
	729	7340	Mixed Mode ?	Checkpoint Control	File Open ?	Reserve File ?	File Inhibit ?	BCD or Binary Mode ?	File Type	Label ?	Block Sequence and Check Sums	Reel Control Flag ?	Buffer Release ?	Buffer Rush ?	End of Tape ?	File Perm Closed ?	Rush This Sequence ?	Rd Label Density	Wr Label Density	File Density	Number of Buffers in Logical Use					Number of Buffers Ahead					
Word 3	729	7340	1301	7320	Regen Int File ?	A System Unit ?	SYSIN1 or SYSIN2 ?	Location of Entry Point for Nonstandard Label Image Routine														Location of Control Word of Buffer or Buffer Pool to be Used by this File									
	729	7340	1301	7320				Location of Transfer Vector for Label Field 27																							
Word 4	729	7340	1301	7320	Reg or Int File ?	Counter for Block Sequence Checking														Location of the Group Control Word if this is a Reserve or Internal File											
	729	7340	1301	7320	File Card List ?	Location of Buffer Pool														Buffer Synchronization Chain or Location of Zero Cell (End of Chain); or Buffer Request Chain at End-of-Tape Condition											
Word 6	729	7340	1301	7320	Device Flag 00 - 729 01 - 7340 10 - 1301 11 - 7320	Count of Erase Areas on Current Output Reel, or Count of Permanent Parity Errors on Current Input Reel														Number of Erase Areas Written for Current Output Reel, or Number of Retries for Current Input Reel											
	729	7340	1301	7320		Number of Retries for Current Input File														Number of Retries for Current Input Reel											
Word 7	729	7340	File Serial Number in the Form bXXXXX																												
	1301	7320	Number of Tracks (in Binary) For this Record				HA2										Binary Head and Track Location of Current File Position														
Word 8	729	7340	Reel Sequence Number in the Form bXXXXb																												
	1301	7320	Binary Head-Track Number of "Load Point"														Last Binary Head and Track Address														
Word 9	729	7340	1301	7320	Retention Days in the Form bbXXXX																										
	729	7340	1301	7320	First Six Characters of File Name																										
Word 11	729	7340	Second Six Characters of File Name																												
	7340	Characters 7-10 of File Name														Characters 11 and 12 of File Name															
Word 12	1301	7320	Second Six Characters of File Name																												
	729	Last Six Characters of File Name																													
Word 12	7340	Last Six Characters of File Name, or Reel Serial Number																													
	1301	7320	Last Six Characters of File Name																												

FORMAT OF THE FILE CONTROL BLOCK