

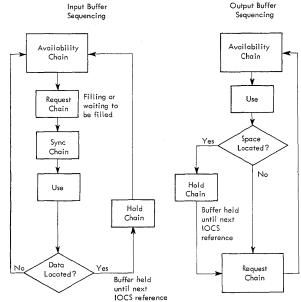
Hold Chain Control Block Word 3 Buf 1 Pool Control Word 1 Number of Available Buffers Availability Chain Pool Pool Control No. of Words in Buffer (shifted 4 positions to left) Word 2 Buffer Control Buf 2 Buf 1 Word 1 Buffer Control Word 2 N Words Buffer Control Buf 3 Buf 2 Words for Buf 2 N Words Buffer Control Buf 3 Pool Words for Buf 3 N Words

Note: All buffers except last will be prefixed by 7 if hold chain is formed by write.

> Prefix of last buffer is blank if last buffer is not completely used, to indicate that this buffer is to be returned to use in next reference.

> > Output Buffer

Location "Holds" Buf 1 Buf 3



-FORMAT OF UNIT ADDRESSES IN UCB'S-

5 6 7 8 9 10 11 12 13 14 15 16 17 For 729 Tape Units - BCD Mode Address Unit Address for For Card Equip and Printers - Octal Address

Tape and Card (See Chart Below) Equipment

5 6 7 8 9 10 11 12 13 14 15 16 17 Device Unit Address for (000) 7340 Hypertape (1 through 8) (0 through 9)

5 6 7 8 9 10 11 12 13 14 15 16 17 Unit Address for Channel Device Module Numb (100) 1301 Disk (1 through 8) (0 through 9) Storage

> 5 6 7 8 9 10 11 12 13 14 15 16 17 Device Module Numb 1 through 8) (011) (0,2,4,6, or 8

Input/Output Device Addresses

Magnetic Ta	pe Units	Printers	Printers						
Channel	BCD Address	Channel	Octal Address						
A	01201 to 01212	A	01361						
В	02201 to 02212	В	02361						
С	03201 to 03212	С	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						
н	10201 to 10212	Н	10361						

	Card Readers		Card Punches						
	Channel	Octal Address		Channel	Octal Address				
_	Α	01321		Α	01341				
	В	02321		В	02341				
	С	03321		С	03341				
	D	04321		- D	04341				
	Е	05321		E	05341				
	F	06321		· F	06341				
	G	07321		G	07341				
	н	10321		lн	10341				

Explanation of Codes Used in Unit Control Blocks

Availability Flag Seek Request Flag

Unit Address for

7320 Drum

Storage

- Select Mode Flag (Normal or Backward)
- Channel Type
- Tape Density at Current Positions
- DO Tape Density at Load Point
- EOT End-of-Tape Flag
- End Warning Area Flag EW.A
- Attachment Flag

IBM 7090/7094 10CS Reference Card

Form Number X28-6380 Printed in U.S.A.

UCB for 729 Tape and Card Equipment

S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 Control Block Currently Using this UCB Location of User's (or the Request Chain IOCS) Select Routine No. of File Marks Written On No. of Records Written On or Read from this Tape or Read from this Tape File Serial Number if File is Labeled

UCB for 7340 Hypertape Units

5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 13 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 Location of the File Control Block Currentle Using this UCB Unit Address Location of the User's (or Request Chain the IOCS) Select Routine No. of File Marks Written On No. of File Marks Written On or Read from this Tape or Read from this Tape File Serial Number if File is Labeled

UCB for 1301 Disk Storage and 7320 Drum Storage Units

5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 Location of the File Control Block Currently Using this UCB Location of User's (or Request Chain the IOCS) Select Routine Seek Order (First Word) Desired Seek Address Seek Order (Second Word)

- 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 - Permanent Redundancy Message Control
- Select Type (Read or Write)
- 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

		S	1 2	3 4	5	6	7 8	9 10	11 12	2 13	14	15	16 1	7 18	19 20	21 22	23 24 25 26	27 28	29 30 31 32 33 34 35
Word 1	729 7340	MF2		Location of Unit Control Block of Secondary Unit								MF1			Location of Unit Control Block of Primary Unit				
<u> </u>	1301 7320	WCF				Beginning-of-File Locator								7.7					·
Word 2	729 7340 1301 7320	Mixed Mode ?	Checkpoint Control	File Reserv Open File ? ?		BCD or Binary Mode ?	File Type	Block Sequenc Label and ? Check Si	ce Cont	trol Buffer !	Rush	End of	File Ru: Perm Th Closed Sequ	is Back	bel Wr Label File sity Density Density vard Rew and File Pro- ode tect at Reel Switch	-	Number of Buffers in Logical Use		Number of Buffers Ahead
- {	729				Location of Entry Point for Nonstandard Label Image Routine														
Word 3	7340	Regen Int File	A SYSINI System or Unit SYSIN2 ?		Location of Transfer Vector for Label Field 27										- 100		Location of Control Word of Buffer or Buffer Pool to be Used by this File		
>	1301 7320				Location of Entry Point for Nonstandard Label Image Routine														
. 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			
Word 5	729 7340 1301 7320	File Card List ?	Card List Buffer Synchronization Chain or Location of Zero Cull (End of Chain).								o Cell (End of Chain); Condition								
Word 6	729 7340	00 - 7	Device Flag 00 – 729 Count of Erase Areas on Current Output Reel , or Count of Permanent Parity Errors on Current Input Reel 01 – 7340 10 – 1301									Number of Eraso Aroas Written for Current Output Reel , or Number of Retries for Current Input Reel							
1301 7320		11 - 7			Number of Ratries for Current Input File											Number of Retrics for Current Input Reel			
Word 7	729 7340 1301	File Serial Number in the Form bXXXXX																	
ļ	7320	Number of Tracks (in Binary) For this Record HA2										Binary Head and Track Location of Current File Position							
Word 8	729 7340 — — — — —				4.						Re	eel Seque	ence Number	n the Form	ЬХХХХЬ	3000m			
	1301 7320						Binary Head	I-Track Number of "L	oad Point"						经有效的			Last Binary Head	and Track Address
Word 9	729 7340 1301 7320		Retention Days in the Form bbXXXX																
ora 10	729 7340 1301 7320		First Six Characters of File Name																
_	729										Se	econd Six	c Characters o	f File Nan	ie				
Word 11	7340		Characters 7-10 of File Name Characters 11 and 12 of File Name							and 12 of File Name									
	1301 7320		Second Six Characters of File Name																
2	729		Last Six Characters of File Name																
Word 12	7340		Last Six Characters of File Name, or Reel Serial Number																
_	1301 7320										L	ast Six C	Characters of F	ile Name					
																	·		