

MAY 01 1981

BELL TELEPHONE LABORATORIES, INCORPORATED

3-31

COMMON SYSTEMS
FOR USE WITH NO. 3 ESS
ARRANGED WITH 2-WIRE FEATURES
COMMON TAPE PAGING MONITOR
(CPAGM)

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AT&TCO
SPCS

PR-1C955-50
31 PAGES

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SECTION DICTIONARY

NUMBER	NAME	MAXIMUM	ORIGIN	TYP	ADDRESS-MODIFICATION
01	CPAGM	0000407		C	
02	CPATCH	0000000		C	
03	CPATCH1	0000000		C	
04	CPATCH2	0000412		C	
05	CPATCH3	0000000		C	
06	CPATCH7	0000000		C	
07	TFAPCH2	0000000		C	
08	TPATCH	0000000		C	

COMMON TAPE PAGING MONITOR

PR-1C955-50

0007355
0007355
0007355

```

01      DBNAM  NO33E3I3.OFF.DATABASE
02      RELNAM NO3ESS
03      GETLIB LIBRARY, MEMBER=MOPTBL
04      GETLIB LIBRARY, MEMBER=SYSMAC
05      GETLIB LIBRARY, MEMBER=SYSSYM
06      GETLIB LIBRARY, MEMBER=PATCH2
07      FIRSTOPTSS
08      VERSION 3ACC, FIELD, ESSZE
09      PATCHINIT
10     NO33E3I3.OFF.OPMS(0) DECK
11      DSQUAL NO33E3I3
12      LISTING N, CRUNCH=Y, SYSOUT=N
13     #####
14     ##
15     ## UNIX ID = NO3PAG
16     ##
17     #####
18     #####
19     ###
20     ### pid date      time rel
21     ###
22     ### cpagm 1/24/81 18:02:39 7.1.1.1
23     ###
24     #####
25      NAME    CPAGM

```

0007355

29 ## The following is a list of the valid csects for program CPAGM

31 CPAGM CSECT

34 ## The following csects are necessary for patching

0111432
0112562
0114107
0115073
0121236

```

36 CPATCH CSECT
37 CPATCH1 CSECT
38 CPATCH2 CSECT
39 CPATCH3 CSECT
40 CPATCH7 CSECT

```

0116774

42 TPATCH2 CSECT

0600000

44 TPATCH CSECT

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CPAGM W77D

0007355

01 GETLIB MEMBER=TAPSYM
02 GETLIB MEMBER=TAPMAC
03 GETLIB MEMBER=GPMAC
04 GETLIB MEMBER=CCSYM
05 GETLIB MEMBER=TTYMAC
06 GETLIB MEMBER=TTYSYM
07 GETLIB MEMBER=BSAIMAC
08 GETLIB MEMBER=CTVTAB
09 CPAGM CSECT

COMMON TAPE PAGING MONITOR

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E01

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CPAGM W77D

01	PUBLIC	EXPAGREQ
02	PUBLIC	MAPCHK
03	PUBLIC	OP
04	PUBLIC	PAGMON
05	PUBLIC	PAGEUN

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CPAGM

W77D

01	BLMMA	EXTERN	MSFCLVL
02	BLMMA	EXTERN	TEMPINH_
03	CBLM	EXTERN	WAIT
04	CSYSUB	EXTERN	CLR_WRDS
05	CSYSUB	EXTERN	MOVST
06	CTAPH	EXTERN	BLKDATA
07	CTSD	EXTERN	PAGEMAP
08	CTSD	EXTERN	PLB
09	LAYOUT	EXTERN	HGAREA
10	LAYOUT	EXTERN	I_OBUF
11	MASACS	EXTERN	MAXWDS
12	SEG000	EXTERN	SEGTAB

COMMON TAPE PAGING MONITOR

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LAYOUTS

CPAGM W77D

01	ENTAB	LAYOUT	2,FLTBLK	# DATA IN ENTAB ENTRY
02		ITEM	ADDR	# PAGING AREA ADDRESS
03		ITEM	4	# XXXXXXXXXXXXXXXXXXXXXXXXXXXX
04	SEGNO	ITEM	8	# SEGMENT NO.
05		LOEND		

ENTAB		-003-	06	#													
00	SEGNO																
01	SEGMENT NO.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	PAGING AREA ADDRESS														
		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

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LAYOUTS

CPAGM W77D

0007355

01 EXPAGREQ
 02 # THIS ENTRY POINT INTO THE PAGING MONITOR IS PROVIDED FOR
 03 # EXPLICIT PAGE REQUESTS. ENTRY IS MADE VIA A NORMAL CALL AND
 04 # RA1 MUST POINT TO THE SEG FUNCTION ENTRY WHICH CONTAINS THE
 05 # SEGMENT NUMBER AND ADDRESS. A NORMAL RETURN IS EXECUTED. A SEG.
 06 # NUMBER 0 INDICATES THAT THE PROGRAM IS RESIDENT.

0007355				10	BEGIN		
0007355	01	000000	171420	-----	-002-	11	HA
0007356	01	000001	031040	043076		12	LAL R2,PCB,RA0
0007360	01	000003	044002	-----		13	ST RD,N(R0SAVE)(RA0) # SAVE R0 AND R1
0007361	01	000004	044023	-----		14	ST R1,N(R1SAVE)(RA0)
0007362	01	000005	040440	-----		15	L R2,D(RA1)
0007363	01	000006	003442	177760		16	NI R2,MSK(12,4) # CHECK IF PROGRAM IS RESIDENT
0007365	01	000010	055002	-----	0007367	17	BNC PAGMUST
0007366						18	RETURN
0007366	01	000011	056420	-----	-001-	19	BTSAG
0007367						21	PAGMUST
0007367	01	000012	110454	-----		22	RLN R2,S(SEGNO)-4 # KEEP OLD 8 BIT SEGMENT NO. FORMAT
0007370	01	000013	072060	-----		23	GN R3,0
0007371	01	000014	072101	-----		24	GN R4,1
0007372	01	000015	002060	000017		25	STM R3,N(RTNH4)(RA0),M(RTNH4) # SAVE RETURN ADDRESS
0007374	01	000017	002101	177777		26	STM R4,N(RTNL16)(RA0),M(RTNL16)
0007376	01	000021	053015	-----	0007413	27	B FINDPAGE # USE NORMAL PAGING ROUTINES FROM HERE.

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PAGING MONITOR

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PAGMON NORMAL PAGING ENTRY POINT

CPAGM W77D

0007377

01 PAGMON
 02 # NORMAL ENTRY POINT FOR PAGING OPERATIONS INITIATED BY 'CALL' OR
 03 # 'BL' INSTRUCTIONS. ENTRY IS MADE VIA THE CALL ENTRY IN THE ENTAB
 04 # TRANSFER VECTOR TABLE.

0007377

0007377 01 000022 171420 -----
 0007400 01 000023 031040 043076 CTSD
 0007402 01 000025 044002 -----
 0007403 01 000026 044023 -----
 0007404 01 000027 072340 -----
 0007405 01 000030 072361 -----
 0007406 01 000031 040440 -----
 0007407 01 000032 040461 -----
 0007410 01 000033 002040 000017
 0007412 01 000035 044061 -----
 0007413
 0007413
 0007413 01 000036 106000 -----
 0007414 01 000037 016542 177400
 0007416 01 000041 010550 -----
 0007417 01 000042 004157 -----

08 BEGIN
 -002- 09 HA
 10 LAL R2,PCB,RA0
 11 ST R0,N(R0SAVE)(RA0) # SAVE R0 AND R1 FOR CLIENT.
 12 ST R1,N(R1SAVE)(RA0)
 13 GN R14,0 # GET ADDRESS OF SEG. NUMBER AND
 14 GN R15,1 # TARGET ADDRESS.
 15 L R2,0(RA1) # GET SEG. NUMBER AND 4 HIGH BITS OF TARGET
 ADDRESS.
 17 L R3,1(RA1) # GET LOW 16 BITS OF TARGET ADDRESS.
 18 STH R2,N(RTNH4)(RA0),M(RTNH4) # STORE TARGET ADDRESS AWAY
 19 ST R3,N(RTNL16)(RA0)
 20 FINDPAGE
 21 TAKEOUT 1 # 3E79D279
 -001- 22 LR 0,0
 23 LRM R6,R2,M(SEGNO)
 24 RRM R6,S(SEGNO) # POSITION R6 FOR MAP MODULE.
 25 SN R6,1
 26 # END OF PAGMON ENTRY MODULE

COMMON TAPE PAGING MONITOR

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PAGING MONITOR
MAP TABLE ROUTINES

0:37:15 2/06/81 ****

CPAGM W77D

0007420

01 MAPSET

02 # THIS ROUTINE WILL TAKE A PAGE NUMBER AND PREPARE THE PAGE
03 # MAP FOR A FUTURE SEARCH TO CREATE THE BRANCH OF PAGES REQUIRED
04 # FOR EXECUTION OF THE REQUESTED PAGE. A 16 WORD TABLE HOLDS THE
05 # CURRENT STANDING OF THE PAGING BUFFER. EACH BIT REPRESENTS A
06 # GIVEN PAGE.

08 # ENTRY R6 = SEGMENT NUMBER MINUS ONE
09 # EXIT UPDATED PAGING BUFFER MAP.

0007420 01 000043 131400 043056 CTSD

0007422 01 000045 016446 000360

0007424 01 000047 006206 -----

0007425 01 000050 005202 -----

0007426 01 000051 010444 -----

0007427 01 000052 003000 -----

0007430 01 000053 043462 -----

0007431 01 000054 024470 -----

0007432 01 000055 054205 ----- 0007637

0007433

0007433 01 000056 126410 -----

0007434 01 000057 036200 007433 0007433

0007436 01 000061 014060 -----

0007437 01 000062 044460 -----

0007440 01 000063 003401 000017 CTSD

0007442 01 000065 005002 -----

0007443 01 000066 041421 -----

0007444

0007444 01 000067 073031 -----

-001-

11 LAL R0,PAGEMAP,RA1 # SET UP PAGE MAP BASE.
12 LRM R2,R6,MSK(4,4) # SELECT WORD INFORMATION
13 LR R8,R6
14 SR R8,R2 # GET RID OF WORD INFORMATION
15 RRN R2,4 # DIVIDE BY 16. R2 NOW REPRESENTS INDEX INTO
PAGEMAP.
17 ZR R0 # PREPARE FOR MASK GENERATION.
18 LAX R3,R2(RA1) # OBTAIN WORD FROM MAP.
19 TBR R3,R8 # IS SEG ALREADY IN
20 BC GETOPAGE # DO NOT TOUCH MAP
21 # THE BITS BELOW THIS PAGE MUST ALL BE ZEROED. THE BITS ABOVE
22 # THIS PAGE MUST BE LEFT UNCHANGED FOR A FUTURE SEARCH.
23 MASKGEN
24 SBR R0,R8 # GENERATE ANDING MASK IN R0
25 BX R8,MASKGEN
26 NR R3,R0 # R3 NOW CONTAINS CORRECT PAGEMAP WORD.
27 ST R3,0(RA1)
28 LI R0,TBLSIZ(PAGEMAP)-1 # NUMBER OF WORDS IN PAGEMAP-1
29 SR R0,R2 # REMAINDER IN R0 INDICATES THE WORDS BELOW
THIS PAGE.
31 LA R1,1(RA1) # SET UP RA1 FOR CLEARING ROUTINE
32 CALL CLR_WRDS # TABLE NOW READY.
33 BSAI CLR_wrds # SUBROUTINE CLR_WRDS IS IN PROGRAM CSYSUB
34 # THIS ENDS MAPSET MODULE

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PAGING MONITOR
LOAD PAGE ROUTINE

0:37:15 2/06/81 ****

CPAGM W77D

0007445

01 SEGSEARCH
02 # THIS MODULE BASED ON A TARGET SEGMENT NUMBER WILL SCAN THE
03 # SEGTAB TABLE AND LOAD THE REQUIRED PAGES NEEDED TO EXECUTE THE
04 # TARGET SEGMENT. THE PAGE MAP WILL BE UPDATED AS THE LOADING
05 # PROGRESSES.

07 # ENTRY R6 = TARGET SEGMENT NUMBER
08 # EXIT LOADED PAGING BUFFER.

0007445 01 000070 103060 -----	10	ZR	R3	
0007446 01 000071 031001 146672 SEG000	11	LAL	RO,SEGTAB-2,RA0	
0007450 01 000073 031400 043056 CTSD	12	LAL	RO,PAGEMAP,RA1	# SET UP ADDRESS REGISTERS.
0007452	13	SEGSRCH		
0007452 01 000075 104542 -----	14	AN	R6,2	# R6 = SEGMENT NO. PLUS ONE
0007453 01 000076 041102 -----	15	LA	R4,2(RA0)	# OBTAIN SEGTAB ENTRY. (RIGHT BROTHER NUMBER)
0007454 01 000077 003502 177400	16	NI	R4,M(RGTBRO)	
0007456 01 000101 010510 -----	17	RRN	R4,S(RGTBRO)	
0007457 01 000102 006123 -----	18	LR	R5,R3	# PREPARE TO EXTRACT MAP ENTRY.
0007460 01 000103 016605 000360	19	LRM	R8,R5,MSK(4,4)	# EXTRACT WORD INDEX
0007462 01 000105 005130 -----	20	SR	R5,R8	# R5 NOW CONTAINS BIT NUMBER OF PAGE IN WORD POINTED TO BY R6.
0007463 01 000106 010604 -----	22	RRN	R8,4	# DIVIDE BY 16.
0007464 01 000107 042570 -----	23	LX	R7,R8(RA1)	# GET MAP ENTRY.
0007465 01 000110 005106 -----	24	SR	R4,R6	# TEST IF R6 IS GREATER THAN TARGET PAGE.
0007466 01 000111 055116 ----- 0007604	25	BNC	NOLOAD	# TAKE BRANCH IF PAGE NOT TO BE LOADED.
0007467 01 000112 024565 -----	26	TBR	R7,R5	# IS PAGE ALREADY IN
0007470 01 000113 054071 ----- 0007561	27	BC	CLOSECK	
0007471 01 000114 026565 -----	28	SBR	R7,R5	
0007472 01 000115 030400 043076 CTSD	29	LL	RO,PCB	
0007474 01 000117 024004 -----	30	TBN	RO,S(OP)	
0007475 01 000120 054021 ----- 0007516	31	BC	REPOS	# NO NEED TO OPEN AGAIN
0007476 01 000121 026004 -----	32	SBN	RO,S(OP)	# FLAG OPEN EXECUTION
0007477 01 000122 034400 043076 CTSD	33	STL	RO,PCB	
0007501	34	REOPEN		
0007501 01 000124 140021 -----	35	L	R1,N(LOGBLKAD)(RA0)	# GET INDEX READY
	36	# NEXT	THE TAPE HANDLER MUST BE USED TO BRING IN PAGE.	
	37	OPEN	PAGCLNT,(P,A,G,E,H,O,N),YES	
0007502 01 000125 037020 126205 CTAPH -002-	38	BSA	OPENTCB	
0007504 01 000127 004123 ----- -001-	39	VFD	5,PAGCLNT 1,0 1,0 2,0 3,((7+1)/2)+1 1,0 3,((7+1)/2)-1	
0007505 01 000130 050101 ----- -001-	40	VFD	8,ASC_P 8,ASC_A	
0007506 01 000131 043705 ----- -001-	41	VFD	8,ASC_G 8,ASC_E	
0007507 01 000132 046717 ----- -001-	42	VFD	8,ASC_M 8,ASC_O	
0007510 01 000133 047000 ----- -001-	43	VFD	8,ASC_N 8,ASC_	
0007511 01 000134 154005 ----- 0007516	44	BC	REPOS	
	45	# TAPE	BUSY, STALL.	
0007512	46	CALL	WAIT	
0007512 01 000135 073025 ----- -001-	47	BSAI	WXAIT	# SUBROUTINE WAIT IS IN PROGRAM CBLM
0007513	48	TAKEOUT	2	# 3E790279
0007513 01 000136 106000 ----- -001-	49	LR	0,0	

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LOAD PAGE ROUTINE

CPAGH W77D

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0007514 01 000137 006000 ----- -001- 01      LR      0,0
0007515 01 000140 053764 ----- 0007501 02      B      REOPEN
0007516 01 000141 140021 -----          03 REPOS
0007517 01 000142 072947 ----- -002- 04      L      R1,1(RAO)          # OBTAIN LOGICAL INDEX INTO FILE
0007520 01 000143 005100 ----- -001- 05      POSITION PAGCLNT          # POSITION TAPE FOR READ.
0007521 01 000144 156000 -----          06      BSAI   RXEQR          # SUBROUTINE REQR IS IN PROGRAM CTAPH
0007522 01 000145 153006 ----- 0007530 07      VFD    5,PAGCLNT 4,POSITION 1,1 1,0 5,0
0007523 01 000146 153064 ----- 0007607 08      BPAX   RD
0007524 01 000147 173025 -----          09      B      READBEGIN          # EXECUTE READ MACRO. INITIATE DATA TRANSFER.
0007525 01 000150 106000 ----- -001- 10      B      ABORTPAGE          # I/O ERROR ABORT PAGMON.
0007526 01 000151 006000 -----          11      CALL  WAIT          # WAIT A SCAN. TAPE FUNCTIONS ARE SLOW.
0007527 01 000152 053767 ----- 0007516 12      BSAI   WXAIT          # SUBROUTINE WAIT IS IN PROGRAM CBLM
0007530          13      TAKEOUT 2          # 3E790279
0007530          14      LR      0,0
0007530          15      LR      0,0
0007530          16      B      REPOS

0007530          20 READBEGIN
0007530 01 000153 130400 043076 CTSD          21      LL      RO,PCB+N(WRDCNT)
0007532 01 000155 003402 000037          22      NI      RO,-M(WRDCNT)          # ZERO WRDCNT (WORD COUNT)
0007534 01 000157 034400 043076 CTSD          23      STL      RO,PCB+N(WRDCNT)
0007536          24 READSTAT
0007536          25 # INITIATE READ OF PAGE.
0007536          26      READ  PAGCLNT,PAGEUN
0007536          27      BSAI   RXEQR          # SUBROUTINE REQR IS IN PROGRAM CTAPH
0007537 01 000162 004200 007700 007700 -001- 28      ADDR  PAGEUN,PAGCLNT+E(7)+READ+E(3)
0007541 01 000164 156000 -----          29      BPAX   RD
0007542 01 000165 153006 ----- 0007550 30      B      PRECLOSECK          # CLOSE FILE
0007543 01 000166 153044 ----- 0007607 31      B      ABORTPAGE
0007544          32      CALL  WAIT
0007544 01 000167 173025 ----- -001- 33      BSAI   WXAIT          # SUBROUTINE WAIT IS IN PROGRAM CBLM
0007545          34      TAKEOUT 2          # 3E790279
0007545 01 000170 106000 ----- -001- 35      LR      0,0
0007546 01 000171 006000 ----- -001- 36      LR      0,0
0007547 01 000172 053767 ----- 0007536 37      B      READSTAT          # MUST WAIT FOR POSITION.

0007550          41 PRECLOSECK
0007550          42      STATST PAGCLNT
0007550 01 000173 173047 ----- -002- 43      BSAI   RXEQR          # SUBROUTINE REQR IS IN PROGRAM CTAPH
0007551 01 000174 006300 ----- -001- 44      VFD    5,PAGCLNT 4,STATST 1,1 1,0 5,0
0007552 01 000175 156000 -----          45      BPAX   RD
0007553 01 000176 153006 ----- 0007561 46      B      CLOSECK
0007554 01 000177 153033 ----- 0007607 47      B      ABORTPAGE
0007555          48      CALL  WAIT
0007555 01 000200 173025 ----- -001- 49      BSAI   WXAIT          # SUBROUTINE WAIT IS IN PROGRAM CBLM

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LOAD PAGE ROUTINE

CPAGM W77D

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0007556          01          TAKEOUT 2          # 3E790279
0007556 01 000201 106000 ----- -001- 02          LR          0,0
0007557 01 000202 006000 ----- -001- 03          LR          0,0
0007560 01 000203 053770 ----- 0007550 04          B          PRECLOSECK

                                08 # CONTINUE LOADING OF PAGES.
0007561          09 CLOSECK
0007561 01 000204 146570 ----- 10          STX          R7,R8(RA1)          #UPDATE MAP
0007562 01 000205 004156 ----- 11          SN          R6,2          # R6 = SEGMENT NO. MINUS ONE
0007563 01 000206 020066 ----- 12          CR          R3,R6          # CHECK IF ENTIRE TREE HAS BEEN LOADED.
0007564 01 000207 054003 ----- 0007567 13          BC          CLOSEFILE
0007565 01 000210 004461 ----- 14          AN          R3,1          # INCREMENT CURRENT PAGE COUNT.
0007566 01 000211 053664 ----- 0007452 15          B          SEGRSCH

                                19 CLOSEFILE
0007567          20          LL          R0,PCB
0007567 01 000212 130400 043076 CTSD 21          TBN          R0,S(OP)          # CHECK IF OPEN WAS REQUIRED
0007571 01 000214 024004 ----- 22          BNC          GETOPAGE          # NO CLOSE REQUIRED
0007572 01 000215 055045 ----- 0007637 23 # TERMINATE TAPE OPERATION
                                24          CLOSE          PAGCLNT
0007573 01 000216 073047 ----- -002- 25          BSAI          RXEQR          # SUBROUTINE REQR IS IN PROGRAM CTAPH
0007574 01 000217 005300 ----- -001- 26          VFD          5,PAGCLNT 4,CLOSE 1,1 1,0 5,0
0007575 01 000220 156000 ----- 27          BPAX          R0
0007576 01 000221 153036 ----- 0007634 28          B          GETOPAGE1          # TRANSFER TO APPROPRIATE PAGE ADDRESS.
0007577 01 000222 153007 ----- 0007606 29          B          ABORTPAGE1
0007600          30          CALL          WAIT
0007600 01 000223 173025 ----- -001- 31          BSAI          WXAII          # SUBROUTINE WAIT IS IN PROGRAM CBLM
0007601          32          TAKEOUT 2          # 3E790279
0007601 01 000224 106000 ----- -001- 33          LR          0,0
0007602 01 000225 006000 ----- -001- 34          LR          0,0
0007603 01 000226 053764 ----- 0007567 35          B          CLOSEFILE

                                39 NOLOAD
0007604          40 # A SPECIFIC PAGE NEED NOT BE LOADED. CLEAR MAP BIT AND
                                41 # CONTINUE RESOLVING PAGING BUFFER.
0007604 01 000227 122565 ----- 42          ZBR          R7,R5
0007605 01 000230 053754 ----- 0007561 43          B          CLOSECK

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PAGING MONITOR

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LOAD PAGE ROUTINE

CPAGM W77D

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0007606          01 ABORTPAGE1
0007606 01 000231 104542 ----- 02      AN      R6,2          #ADJUST SEG. NO. FOR PRINT OUT
0007607          03 ABORTPAGE
0007607 01 000232 104157 ----- 04      SN      R6,1          # ADJUST SEG NO. FOR PO
0007610 01 000233 003000 ----- 05      ZR      RO
0007611 01 000234 034400 043076 CTSD 06      STL     RO,PCB      # CLEAR FOR ABORT.
0007613          07      CALL    BLKDATA
0007613 01 000236 037020 127462 CTAPH -001- 08      BSA     BLKDATA
0007615 01 000240 106160 ----- 09      LR      R7,RO      # PRESENT LOGICAL TAPE POSITION
0007616          10      PRINT   PACTION=A,FMT=(WRD(P,A,G,E,H,O,N),WRD(A,B,T),DEC,DEC)

-001- 12 # MESSAGE PROTOTYPE
-001- 13 # A mm PAGEMON ABT ddddd ddddd
0007616 01 000241 073053 ----- -002- 14      BSAI    PXMRY      # SUBROUTINE PHRY IS IN PROGRAM TTYAPP
0007617 01 000242 101200 ----- -002- 15      VFD     1,1 2,0 1,0 3,1 1,0 1,1 1,0 2,0 1,0 3,0
0007620 01 000243 021104 ----- -002- 16      VFD     4,TTYO_4,TTYO_4,TTYO_DEC 4,TTYO_DEC
0007621 01 000244 021042 ----- -002- 17      VFD     4,TTYO_4,TTYO_4,TTYO_4,TTYO_4
0007622 01 000245 011210 ----- TTYTBL -002- 18      VFD     5,2 11,PXAGEMON
0007623 01 000246 000001 ----- TTYTBL -002- 19      VFD     5, 11,AXBT
-001- 20      NOTE    THE VARIABLE PORTION OF THE OUTPUT MESSAGE TO BE PRINTED IS
CONTAINED IN GENERAL REGISTERS R6,R7,
22 CPAGM OW 0(247) # 3E790279
-001- 23      NOTE    ***** THE FIRST ADDRESS OVERWRITTEN IS 000247 *****

0007624          26      TAKEOUT 3          # 3E790279
0007624 01 000247 106000 ----- -001- 27      LR      0,0
0007625 01 000250 006000 ----- -001- 28      LR      0,0
0007626 01 000251 006000 ----- -001- 29      LR      0,0
0007627 01 000252 003401 042660 LAYOUT 30      LI      RO,HGAREA+TBSIZ(HGAREA)-MSFCLVL-ENTRYSIZ(HGAREA)
0007631          31      EOM      # 3E790279
-001- 32      NOTE    ***** THE LAST ADDRESS OVERWRITTEN IS 000253 *****

0007631          35      MIMODE L HG,RO      # GET HG REGISTER TO MSFC CALLING LEVEL MINUS
ONE LEVEL
0007631 01 000254 013000 ----- -001- 37      MIS     0
0007632 01 000255 032523 ----- -002- 38      VFD     8,HGXT 8,ROXF
0007633          39      RETURN 3          # SIGNAL END OF MSF
0007633 01 000256 056443 ----- -001- 40      BTSAGM 3
41 # END OF LOAD MODULE

```

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 13

1-206-3457017

PAGING MONITOR

0:37:15 2/06/81 ****

CLIENT RETURN MODULE

CPAGM W77D

```

0007634          01 GETOPAGE1
02 CPAGM 0W      0(257)          # 3E790279
-001- 03      NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000257 *****

0007634          06      CALL    TEMPINH_      # FORCE ONE BASE LOOP BEFORE TRANSFER TO
                                         CLIENT AFTER TAPE CLOSE
0007634 01 000257 137020 147320 BLMMA -001- 08      BSA    TEMPINH_
0007636          09      CALL    WAIT
0007636 01 000261 173025 ----- -001- 10      BSAI   WXAIT      # SUBROUTINE WAIT IS IN PROGRAM CBLM
0007637          11      EOW      # 3E790279
-001- 12      NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000261 *****

0007637          15 GETOPAGE
16 # ALL TAPE BLOCKS HAVE BEEN LOADED AND CONTROL WILL NOW
17 # BE PASSED TO PAGING AREA FOR EXECUTION.
0007637          18      TAKEOUT 2          # 3E790279
0007637 01 000262 106000 ----- -001- 19      LR     0,0
0007640 01 000263 006000 ----- -001- 20      LR     0,0
0007641 01 000264 031000 043076 CTSD 21      LAL   RO,PCB,RAD      # GET HIGH BITS OF ADDRESS.
0007643 01 000266 072020 ----- 22      GN     R1,0
0007644 01 000267 016020 000017 23      IRM   R1,RO,M(RTNH4)
0007646 01 000271 072420 ----- 24      HN     R1,0
0007647 01 000272 040021 ----- 25      L     R1,N(RTNL16)(RAD) # GET LOW 16 BITS
0007650 01 000273 072421 ----- 26      HN     R1,1
0007651 01 000274 040002 ----- 27      L     RO,N(RDSAVE)(RAD)
0007652 01 000275 040023 ----- 28      L     R1,N(R1SAVE)(RAD) #RESTORE R0 AND R1
0007653 01 000276 062100 ----- 29      ZBS   N(OP)(RAD),S(OP)
0007654          30      RETURN
0007654 01 000277 056420 ----- -001- 31      BTSAG
0007655          32      TAKEOUT 19          # 3E790279
0007655 01 000300 006000 ----- -001- 33      LR     0,0
0007656 01 000301 006000 ----- -001- 34      LR     0,0
0007657 01 000302 006000 ----- -001- 35      LR     0,0
0007660 01 000303 006000 ----- -001- 36      LR     0,0
0007661 01 000304 006000 ----- -001- 37      LR     0,0
0007662 01 000305 006000 ----- -001- 38      LR     0,0
0007663 01 000306 006000 ----- -001- 39      LR     0,0
0007664 01 000307 006000 ----- -001- 40      LR     0,0
0007665 01 000310 006000 ----- -001- 41      LR     0,0
0007666 01 000311 006000 ----- -001- 42      LR     0,0
0007667 01 000312 006000 ----- -001- 43      LR     0,0
0007670 01 000313 006000 ----- -001- 44      LR     0,0
0007671 01 000314 006000 ----- -001- 45      LR     0,0
0007672 01 000315 006000 ----- -001- 46      LR     0,0
0007673 01 000316 006000 ----- -001- 47      LR     0,0
0007674 01 000317 006000 ----- -001- 48      LR     0,0
0007675 01 000320 006000 ----- -001- 49      LR     0,0

```

COMMON TAPE PAGING MONITOR

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PAGING MONITOR

0:37:15 2/06/81 ****

CLIENT RETURN MODULE

CPAGM W77D

0007676 01 000321 006000 -----
0007677 01 000322 006000 -----

-001- 01 LR 0,0
-001- 02 LR 0,0

COMMON TAPE PAGING MONITOR

PR-1C955-50

PAGING MONITOR

0:37:15 2/06/81 ****

PAGE UNLOADING ROUTINE

CPAGM W77D

0007700

01 PAGEUN
 02 # THE INTERRUPT HAS LOADED 1 BLOCK OF TAPE INTO THE
 03 # I/O BUFFER. THIS CODE WILL UNPACK THE DATA AND TRANSFER
 04 # THE DATA TO THE PAGING BUFFER. ASSUME THE BLOCK CONTAINS
 05 # CONTIGUOUS DATA AND PROGRAM

```

0007700          09      BEGIN      ( )
0007700 01 000323 131000 045266 LAYOUT 10      LAL      RO,I OBUF,RA0
0007702 01 000325 041341 ----- 11      LA      R14,1(RA0)      # OBTAIN THE ADDRESS AND LENGTH SPECS.
0007703 01 000326 041361 ----- 12      LA      R15,1(RA0)
0007704 01 000327 041001 ----- 13      LA      R0,1(RA0)
0007705 01 000330 016456 177760 14      LRM     R2,R14,M(RCRDLG)
0007707 01 000332 010444 ----- 15      RRN     R2,S(RCRDLG)      # R2 = TOTAL WORDS TO MOVE
0007710 01 000333 030500 043076 CTSD 16      LL      R4,PCB+N(WRDCNT)
0007712 01 000335 003502 177740 17      NI      R4,M(WRDCNT)
0007714 01 000337 010505 ----- 18      RRN     R4,S(WRDCNT)      # WORD COUNT IN R4 (WORDS ALREADY MOVED)
0007715 01 000340 043404 ----- 19      LAX     R0,R4(RA1)      # ADJUST RA1
0007716 01 000341 043004 ----- 20      LAX     R0,R4(RA0)      # ADJUST RA0
0007717          21
0007717 01 000342 006062 ----- 22      LR      R3,R2
0007720 01 000343 005064 ----- 23      SR      R3,R4      # R3 = WORDS LEFT TO MOVE
0007721          24      IF      R3 >= A.MAXWDS+1 THEN LI R3,MAXWDS
0007721 01 000344 006003 ----- -003- 25      LR      R0,R3
0007722 01 000345 003400 154357 MASACS -003- 26      SI      R0,MAXWDS+1
0007724 01 000347 055003 ----- 0007727 -001- 27      BNC     IFS124
0007725 01 000350 003461 023420 MASACS -001- 28      LI      R3,MAXWDS      #
0007727          -001- 29      IFS124
0007727 01 000352 106003 ----- 30      LR      R0,R3      # R0 = WORDS TO MOVE THIS TIME
0007730          31      CALL   MOVST      # TRANSFER TO PAGING BUFFER
0007730 01 000353 073033 ----- -001- 32      BSAI   MOVST      # SUBROUTINE MOVST IS IN PROGRAM CSYSUB
0007731 01 000354 101503 ----- 33      AR      R4,R3      # R4 = WORDS MOVED SO FAR
0007732 01 000355 031400 043076 CTSD 34      LAL     R0,PCB,RA1
0007734          35      IF      R4 = R2 THEN ZR R4
0007734 01 000357 020102 ----- -002- 36      CR      R4,R2
0007735 01 000360 055002 ----- 0007737 -001- 37      BNC     IFS128
0007736 01 000361 003100 ----- -001- 38      ZR      R4      #
0007737          -001- 39      IFS128
0007737 01 000362 110513 ----- 40      RLN     R4,S(WRDCNT)
0007740 01 000363 002500 177740 41      STM     R4,N(WRDCNT)(RA1),M(WRDCNT) # SAVE WRDCNT
          42      CPAGM  OW      0(365)      # 12277
          -001- 43      NOTE   ***** THE FIRST ADDRESS OVERWRITTEN IS 000365 *****

```

COMMON TAPE PAGING MONITOR

PR-1C955-50

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PAGING MONITOR

0:37:15 2/06/81 ****

PAGE UNLOADING ROUTINE

CPAGM W77D

```

0007742                                01      IF      R4 = 0 THEN RETURN 1  ANOTHER TRANSFER REQUIRED
0007742 01 000365 014104 -----      -002- 02      TZ      R4
0007743 01 000366 054002 ----- 0007745 -001- 03      BC      IFS132
0007744 01 000367 056461 -----      -002- 04      BTSAN  1
0007745                                -001- 05 IFS132
0007745                                06      EOW      # 12277
0007745                                -001- 07      NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000367 *****

0007745                                10      RETURN 0      # DONE
0007745 01 000370 156460 -----      -001- 11      BTSAN  0

```

COMMON TAPE PAGING MONITOR

PR-1C955-50

PAGING MONITOR

0:37:15 2/06/81 ****

PAGE MAP LOOK UP ROUTINE

CPAGM W77D

```

0007746      01 MAPCHK
02 # THIS ROUTINE WILL CHECK TO SEE IF A GIVEN PAGE (RO) IS
03 # ALREADY IN THE PAGING BUFFER OR NOT.
04
05 # ENTRY CONDITION
06
07 # RO IS SET TO PAGE NUMBER.
08
09 # EXIT CONDITION
10
11 # RETURN 1 PAGE IS RESIDENT AT THIS TIME.
12
13 # RETURN 0 PAGE IS NOT RESIDENT AT THIS TIME.

0007746      17 BEGIN
0007746 01 000371 171420 ----- -002- 18 HA
19 CPAGM OW 0(372) # 12416
-001- 20 NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000372 *****

0007747 01 000372 037000 114507 0114507 -001- 23 CPATCH2 BGNP 0(400) # 12416
-001- 24 BL XXX143
-001- 25 NOTE CPATCH2 'CSECT'
-001- 26 NOTE ***** PATCH AREA BEGINS AT 000400 *****

0114507      -001- 29 XXX143 PATCHAREA
0114507 04 000400 130420 043076 CTSD 30 LL R1,PCB+N(OP)
0114511 04 000402 024024 ----- 31 TBN R1,S(OP)
0114512 32 IF CF = 1 THEN RETURN 0
0114512 04 000403 055002 ----- 0114514 -001- 33 BNC IFS145
0114513 04 000404 056440 ----- -002- 34 BTSAGN 0
0114514 -001- 35 IFS145
0114514 04 000405 104017 ----- 36 SN RO,1
0114515 04 000406 031420 043056 CTSD 37 LAL R1,PAGEMAP,RA1 # PAGE MAP ADDRESS
0114517 38 ENDP # 12416
0114517 04 000410 037000 007751 0007751 -001- 39 BL XXX147
-001- 40 NOTE ***** LAST PATCH ADDRESS USED IS 000411 *****
-001- 41 NOTE ***** NUMBER OF PATCH WORDS USED IS 10 (DECIMAL) *****

0007751      -001- 44 XXX147 OWCONTINUE
0007751 45 TAKEOUT 1
0007751 01 000374 106000 ----- -001- 46 LR 0,0
0007752 47 EOW # 12416
-001- 48 NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000374 *****

```

COMMON TAPE PAGING MONITOR

PR-1C955-50

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PAGING MONITOR

0:37:15 2/06/81 ****

PAGE MAP LOOK UP ROUTINE

CPAGM W77D

0007752 01 000375 016440 000360	01	LRM	R2,RO,MSK(4,4)	# SELECT WHICH WORD OF MAP IS TO BE INTERROGATED.
0007754 01 000377 006200 -----	03	LR	R8,RO	
0007755 01 000400 005202 -----	04	SR	R8,R2	# REMOVE WORD DATA FROM PAGE NUMBER.
0007756 01 000401 010444 -----	05	RRN	R2,4	# R2 NOW REPRESENTS AN INDEX INTO MAP.
0007757 01 000402 043462 -----	06	LAX	R3,R2(RA1)	# GET WORD FROM MAP
0007760 01 000403 024470 -----	07	TBR	R3,R8	# IS THE PAGE IN MEMORY.
0007761 01 000404 003000 -----	08	ZR	RO	
0007762 01 000405 030000 -----	09	ICF	RO,D	# GET RETURN CODE IN RO
0007763	10	RETURN		
0007763 01 000406 056420 -----	-001-	11	BTSAG	

COMMON TAPE PAGING MONITOR

PR-1C955-50

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PAGING MONITOR

0:37:15 2/06/81 ****

PAGE MAP LOOK UP ROUTINE

CPAGM W77D

```
01 OUT IOD ALM=2 PRI=3 CHL=MTC
02 PAGEMON ABT #AA BB
03 T"02"
04 THE PAGING MONITOR WAS ABORTED BY THE TAPE HANDLER.
05 T"03"
06 aA = $SEGMENT BEING PAGED AT POINT OF ABORT (DECIMAL).
07 $bb = Present logical tape position (decimal).
08 T"04"
09 % IF TAPE ERROR MESSAGES PRECEDED THE PAGING MONITOR ABORT, THEY SHOULD
10 BE CONSULTED FIRST TO IDENTIFY THE PARTICULAR TAPE TROUBLE. OTHERWISE,
11 RETRY THE PAGING FUNCTION. IF THE FAILURE PERSISTS, RUN TAPE DIAGNOSTICS. %
12 SPACE 1
13 T"05"
14 $$PR-1C955-01 CPAGM #COMMON SPAGING $MONITOR $PROGRAM
15 .IODEND
16 CPAGM MAXSIZE 0,407
```

COMMON TAPE PAGING MONITOR

PR-1C955-50

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PATCH HISTORY

0:37:15 2/06/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES
CSYSUB	V	CLR_WRDS	4-04	

CPAGM W77D

```

t.<(+18
!S*);
-;/
,X_>7
:#0'=" ab
cdefghi n<(+
+ jklmnopqr-
w)z=-stuvw
xyz+L[>=012
3456789+_]#
-Cabcdefghi
)jklmno
pqr \ s
TUVWXYZ
D123456789

```

T CONLC

LIBNUM=14

```

Z
te<hpix
vSfgs
-;l
iX_>k
Jo#b'd" ab
cdefghi n<(+
+ jklmnopqr-
w)z=-stuvw
xyz+L[>=012
3456789+_]#
-CABCDEFGHI
)JKLMNO
PQR \ S
TUVWXYZ
D123456789

```

T CONSC

LIBNUM=14

0007355	L	CPAGM	1-31	
0111432	L	CPATCH	1-36	
0112562	L	CPATCH1	1-37	
0114107	L	CPATCH2	1-38	18-24

COMMON TAPE PAGING MONITOR

PR-1C955-50

PATCH HISTORY

0:37:15 2/06/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES
0115073	L	CPATCH3	1-39	
0121236	L	CPATCH7	1-40	
	D	U CTAPH		

CPAGM

W77D

```

<.<(+18
!$+);
~/
X_>?
:#@'='
n<<+
+
n)z=--
+L[3#012
3456789+-,]#
-(ABCDEFGH
)JKLMNO
PQR \ S
TUVWXYZ
0123456789

```

```

T DELLC LIBNUM=14
D U EOS
O J ESS2 1-10
1 J ESS2E 1-09
0007355 L EXPAGREQ 7-01 3-01
1 J FIELD 1-09
0007413 L FINDPAGE 8-20 7-27
0007637 L GETOPAGE 14-15 9-20, 12-22
0007634 L GETOPAGE1 14-01 12-28
0000065 A HGXT LIBNUM=10 13-38
LAYOUT V HGAREA 4-09 13-30, 13-30, 13-30
LAYOUT V I_OBUF 4-10 16-10
'ILLEGAL CON
DITIONAL IN
THE IF MACRO' T IFERROR1
'DATA > 0 OR
DATA < 0 IS
MEANINGLESS
USE DATA '
= 0' T IFERROR2
'TWO CONSTAN
TS ARE BEING
COMPARED IN
IF MACRO' T IFERROR3
'AN ITEM WAS

```

COMMON TAPE PAGING MONITOR

PR-1C955-50

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PATCH HISTORY

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CPAGM	W77D
COMPARED TO SOMETHING OTHER THAN A CONSTANT 'DESTINATION OF AN = STATEMENT IS A CONSTANT' 'ATTEMPTING TO SET ITEM = TO SOMETHING OTHER THAN A CONSTANT' 'ITEM MAY ONLY USE THE = AND = CONDITIONALS'						
0007727	L	IFS124	16-29	16-27		
0007737	L	IFS128	16-39	16-37		
0007745	L	IFS132	17-05	17-03		
0114514	L	IFS145	18-35	18-33		
0000001	A	LOGBLKAD	5-48	W=20 S=0 N=1 CL=3		10-35
'SEGTABENT'	T	LONAM_LOGBLKAD				
'PCB'	T	LONAM_OP				
'HEADER'	T	LONAM_RCRDLG				
'SEGTABENT'	T	LONAM_RGTBRO				
'PCB'	T	LONAM_RTNH4				
'PCB'	T	LONAM_RTNL16				
'PCB'	T	LONAM_ROSAVE				
'PCB'	T	LONAM_RISAVE				
'ENTAB'	T	LONAM_SEGNO				
'PCB'	T	LONAM_WRCNT				
CTVTAB	V	MXOVST		LIBNUM=14		16-32
14	P	MXOVSTX_XCSY		LIBNUM=14		
0007746	L	MAPCHK	18-01	3-02		
0007420	L	MAPSET	9-01			
0007433	L	MASKGEN	9-23	9-25		
MASACS	V	MAXWDS	4-11	16-26, 16-28		

6. (18
13*)
-/

COMMON TAPE PAGING MONITOR

PR-1C955-50

PATCH HISTORY

0:37:15 2/06/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CPAGM	W77D
<pre> %_? : #0'=" ab cdefghi n<{+ + jklmnopqr~ m)z#-stuvw xyz+Lr[>=012 3456789+J]# -(ABCDEFGHI)JKLMNO PQR \ S TUVWXYZ 0123456789 </pre>						
	T	MICODETR		LIBNUM=10		
CSYSUB	V	MOVST	4-05			
'3E790279'	T	MRNO				
BLMMA	V	MSFCLVL	4-01	13-30		
0007604	L	NOLOAD	12-39	10-25		
0000000	A	OP	5-04	W=1 S=4 N=0 CL=3	3-03, 10-30, 10-32, 12-21, 14-29, 18-30, 18-31	
CTAPH	V	OPENTCB	10-38	10-38		

```

+.(AON
XS+);
-S/
%_?
: #0'L" ab
cdefghi n<{+
+ jklmnopqr~
m)z#-stuvw
xyz+Lr[>=012
3456789+J]#
-(IBCLEFGHI
)JKLMNO
PQR \ S
LLLWLYZ
0123456789

```

	T	OPTR				
0000150	A	ORG_000247	13-23			
0000160	A	ORG_000257	14-03			
0000202	A	ORG_000365	16-43			
0000215	A	ORG_000372	18-20			
0000217	A	ORG_000400	18-30			
	D	U P				
TTYTBL	X	PXAGEMON	13-18	13-18		
CTVTAB	V	PXMRY		LIBNUM=14	13-14	

COMMON TAPE PAGING MONITOR

PR-1C955-50

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PATCH HISTORY

0:37:15 2/06/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CPAGM	W77D
14	P	PXMRYX_XTTYA				
		PP		LIBNUM=14		
0000001	A	PAGCLNT		LIBNUM=5		
CTSD	V	PAGEMAP	4-07	9-11, 9-28, 10-39, 11-07, 11-28, 11-44, 12-26		
0007700	L	PAGEUN	16-01	3-05, 11-28, 10-12, 18-37		
0007377	L	PAGMON	8-01	3-04		
0007367	L	PAGMUST	7-21	7-17		
CTSD	V	PCB	4-08	7-12, 8-10, 10-29, 10-33, 11-21, 11-23, 12-20, 13-06, 14-21, 16-16, 16-34, 18-30		
TTYAPP	V	PMRY	13-14			
0000004	A	POSITION		LIBNUM=5		
0007550	L	PRECLOSECK	11-41	11-30, 12-04, 11-07		
CTVTAB	V	RXEQR		LIBNUM=14		
14	P	RXERX_XCTAP				
		H		LIBNUM=14		
14	P	RAO		LIBNUM=3		
				7-12, 7-13, 7-14, 7-25, 7-26, 8-10, 8-11, 8-12, 8-18, 8-19, 10-11, 10-15, 10-35, 11-04, 14-21, 14-25, 14-27, 14-28, 14-29, 16-10, 16-11, 16-12, 16-13, 16-20		
16	P	RA1		LIBNUM=3		
				7-15, 8-15, 8-17, 9-11, 9-18, 9-27, 9-31, 10-12, 10-23, 12-10, 16-19, 16-34, 16-41, 18-37, 19-06		
0000000	A	RCRDLG	5-30	W=14 S=4 N=0 CL=3		16-14, 16-15
0000001	A	READ		LIBNUM=5		11-28
0007530	L	READBEGIN	11-20	11-09		
0007536	L	READSTAT	11-24	11-37		
0007501	L	REOPEN	10-34	11-02		
0007516	L	REPOS	11-03	10-31, 10-44, 11-16		
CTAPH	V	REQR	11-06			
0000000	A	RGTBRO	5-47	W=10 S=10 N=0 CL=3		10-16, 10-17
' LOGICAL BL						
' OCK ADDRESS						
' ON PAGEMON F						
' ILE'	T	RMK_LOGBLKAD				
' '	T	RMK_OP				
' LENGTH OF						
' RECORD'	T	RMK_RCRDLG				
' RIGHT BROT						
' HER (SEGMENT						
' NO.)'	T	RMK_RGTBRO				
' RETURN ADDR						
' HIGH BITS'	T	RMK_RTNH4				
' RETURN ADDR						
' LOW BITS'	T	RMK_RTNL16				
' RO SAVE ARE						
' A'	T	RMK_RDSAVE				
' R1 SAVE ARE						
' A'	T	RMK_R1SAVE				
' SEGMENT NO						
' '	T	RMK_SEGNO				
' COUNT OF WO						
' RDS MOVED'	T	RMK_WRDCNT				
0000000	A	RTNH4	5-03	W=4 S=0 N=0 CL=3		7-25, 8-18, 14-23

COMMON TAPE PAGING MONITOR

PR-1C955-50

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PATCH HISTORY

0:37:15 2/06/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CPAGM	W77D
0000001	A	RTNL16	5-06	W=20 S=0 N=1 CL=3	7-26, 8-19, 14-25	
	O	R RO		LIBNUM=3	7-13, 8-11, 9-11, 9-17, 9-24, 9-26, 9-28, 9-29, 10-11, 10-12, 10-29,	
					10-30, 10-32, 10-33, 11-08, 11-21, 11-22, 11-23, 11-29, 11-45, 12-20, 12-21, 12-27, 13-05,	
					13-06, 13-09, 13-30, 14-21, 14-23, 14-27, 16-10, 16-13, 16-19, 16-20, 16-25, 16-26, 16-30,	
					16-34, 18-36, 19-01, 19-03, 19-08, 19-09	
0000123	A	ROXF		LIBNUM=10	13-38	
0000002	A	ROSAVE	5-07	W=20 S=0 N=2 CL=3	7-13, 8-11, 14-27	
	1	R R1		LIBNUM=3	7-14, 8-12, 9-31, 10-35, 11-04, 14-22, 14-23, 14-24, 14-25, 14-26, 14-28,	
					18-30, 18-31, 18-37	
0000003	A	R1SAVE	5-08	W=20 S=0 N=3 CL=3	7-14, 8-12, 14-28	
	16	R R14		LIBNUM=3	8-13, 16-11, 16-14	
	17	R R15		LIBNUM=3	8-14, 16-12	
	2	R R2		LIBNUM=3	7-12, 7-15, 7-16, 7-22, 8-10, 8-15, 8-18, 8-23, 9-12, 9-14, 9-15,	
					9-18, 9-29, 16-14, 16-15, 16-22, 16-36, 19-01, 19-04, 19-05, 19-06	
	3	R R3		LIBNUM=3	7-23, 7-25, 8-17, 8-19, 9-18, 9-19, 9-26, 9-27, 10-10, 10-18, 12-12,	
					12-14, 16-22, 16-23, 16-25, 16-28, 16-30, 16-33, 19-06, 19-07	
	4	R R4		LIBNUM=3	7-24, 7-26, 10-15, 10-16, 10-17, 10-24, 16-16, 16-17, 16-18, 16-19, 16-20,	
					16-23, 16-33, 16-36, 16-38, 16-40, 16-41, 17-02	
	5	R R5		LIBNUM=3	10-18, 10-19, 10-20, 10-26, 10-28, 12-42	
	6	R R6		LIBNUM=3	8-23, 8-24, 8-25, 9-12, 9-13, 10-14, 10-24, 12-11, 12-12, 13-02, 13-04	
	7	R R7		LIBNUM=3	10-23, 10-26, 10-28, 12-10, 12-42, 13-09	
	10	R R8		LIBNUM=3	9-13, 9-14, 9-19, 9-24, 9-25, 10-19, 10-20, 10-22, 10-23, 12-10, 19-03,	
					19-04, 19-07	
0000000	A	SEGNO	6-05	W=10 S=10 N=0 CL=3	7-22, 8-23, 8-24	
0007445	L	SEGSEARCH	10-01			
0007452	L	SEGSRCH	10-13	12-15		
SEG000	V	SEGTAB	4-12	10-11		
0000236	A	SERNO_062124	21-13			
0000232	A	SERNO_063014	21-02			
'AXBT'	T	SPWORD				
0000011	A	STATST		LIBNUM=5	11-44	
0000000	A	SV_REG				
BLMMA	V	TEMPINH_	4-02	14-08		
0116774	L	TFAPCH2	1-42			
0600000	L	TPATCH	1-44			
0000232	A	TR_012277	21-02			
0000236	A	TR_012416	21-13			
0000202	A	TR_12277	16-43			
0000217	A	TR_12416	18-20	18-30		
0000160	A	TR_3E790279	13-23	14-03		
0007747	L	TRORG	13-23	14-03, 16-43, 18-20		
	O	TTYAPP				
0000002	A	TTYO_		LIBNUM=12	13-16, 13-17	
0000004	A	TTYO_DEC		LIBNUM=12	13-16	
0000002	A	TTYOCNT	13-18			
	O	TTYTBL				
CTVTAB	V	WXAIT		LIBNUM=14	10-47, 11-12, 11-33, 11-49, 12-31, 14-10	
	14	P WXAITX_XCBLM		LIBNUM=14		
CBLM	V	WAIT	4-03			

COMMON TAPE PAGING MONITOR

PR-1C955-50

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PATCH HISTORY

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VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CPAGH	W77D
0000000	A	WRDCNT	5-05	W=13 S=5 N=0 CL=3	11-21, 11-22, 11-23, 16-16, 16-17, 16-18, 16-40, 16-41	
	1	J 3ACC	1-09			

NO FLAG(S) FOUND IN THIS ASSEMBLY

COMMON TAPE PAGING MONITOR

PR-1C955-50

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