

ADDRESS LENGTH

0 3112
3112

BINARY CONTROL CARDS.

IDENT DMPSCAN
END

ENTRY POINTS.

START - 2724 RWSIZE - 1566

EXTERNAL SYMBOLS.

C.DMPSC	ECIRTRN	DF:ATCH	C.CAPIN	C.WRITE	PARAM	TBUFORG	DF:OPRO
C:READ	DF:SEV	T:TAPES	C:SELD	C:DUMPF	TRANSP	T:FIRST	REABROW
EC:GEVH	EC:WRIT	EC:IN	C:GETEV	C:BLK	TYPEOUT	T:IN	WRITE
EC:GEVF	DF:ICBLK	DF:HEAD	C:RETOR	CONVNUM	T:TRESP	T:TAPER	C:MASTC
C:GETEF	DF:DTCH	C:INI	C:SENDE	FORM	BET	T:TAPEC	C.CL.OP

DUMP SCAN MAIN PROGRAM

COMPASS - VER 2.

06/18/71 14.49.22.

PAGE 2

IDENT
ENTRY
EXT

DMPSCAN
START
C.DMPSC.C.READ.C.TPBIF

		MACROS	
0	0000000000000000000000	MACROS	XTEXT
0	0000000000000000000000	CHECK	DATA
1	0000000000000000000000	COUNT	DATA
2	0000000000000000000000	ZCFLAG	DATA
3	0000000000000000000000	PAGE	DATA
4	0000000000000000000000	RECDID	DATA
5	0000000000000000000000	NSTATUS	DATA
6	0000000000000000000000	NTONTP	DATA
7	16172455171655240120		DIS
11	000000000000024312005	MODETB	DATA
12	0000000000002025111624		DATA
13	0000000000000000000000		DATA
14	0000000000000000000001	MODETBL	DATA
16	00000000000000000000020	FLAGTB	DATA
22	0000000000000100000003	SHFTB	VFD
23	0000000000000020000001		VFD
24	0000000000000010000000		VFD
25	0000000000000020000001		VFD
26	0000000000000000000000	MODE	DATA
27	0000000000000000000000	IFLAG	DATA
30	0000000000000000000000	ZFLAG	DATA
31	0000000000000000000000	CADRES	DATA
32	0000000000000000000000	FADRES	DATA
33	0000000000000000000000	TEMP	DATA
34		IN	BSSZ
60		OUT	BSSZ
104	0000000000000000000000	IAD	DATA
105	0000000000000000000270	CURLIN	DATA

MACROS

1

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106 000000000000000000000000 X BEAD VFD 60/C.BEAD
107 4000000000 X KEYHANG ECSOPER GEVH,0
111 4000000000 X KEYGETF ECSOPER GEVF,0
EXT C.GETEF
113 4000000000 X RETURN ECSOPER RTRN
114 4000000000 X UPDATE ECSOPER SEV,0,1777777777B
117 4000000000 X WRITEF DSKOPER WRIT,C.DUMPF
121 000000000000000000000000 FILAD DATA 0
122 000000000000000000000000 * VFD 60/FBUFF
123 000000000000000000000000 BLOCKSZ DATA 0
124 4000000000 X WSCR ECSOPER WRIT,0,0,SCRBUFF,400B
131 4000000000 X CRRLOCK DSKOPER CRLK,C.DUMPF
133 000000000000000000000000 BLOCKAD DATA 0
134 000000000000000000000001 DATA 1
135 4000000000 X DETACH DSKOPER DTCH,C.DUMPF,-1,1
DTAD EQU *-2
137 *
141 4000000000 X ATCH DSKOPER ATCH,C.DUMPF,0,1
145 000000000000000000000000 BUFFET DATA 0
146 000000000000000000000000 BSSZ 1000B
1146 7600 SCRBUFF BSS 0
YCORD SET 7600B
000030 DDD DUP 30B
VFD 12/35,24/2,24/0,36/0,12/6000B,12/YCORD
YCORD SET YCORD-12
BSSZ 4
DDD ENDD
VFD 12/35,24/2,24/0,24/6000B,36/6HSTATE-
1446 0043000000002000000000 STATLIN BSSZ 0
1447 60007100232401240546 VFD 12/35,24/2,24/0,24/6000B,36/6HLINE-
1450 0043000000002000000000 COMLINE BSSZ 0
1456 0043000000002000000000 VFD 12/35,24/2,24/0,24/6000B,36/6HLINE-
1457 600070401411114054655 BSSZ 0
1460 002400000000400010000 VFD 12/20,24/4,12/1,12/0,36/0,12/7640B,12/6010B
1466 000000000000075406010 DIS :STSS DEADSTART-DUMP OUTPUT SCANS
1467 24232355040501042324 BSSZ 400B-**-SCRBUFF
1470 1474 *
*
1546 000000000000000000000000 LOCB7 DATA 0
1547 000000000000000000000000 OLOSIGN DATA 0
1550 777777777777777777777777 LASTOP DATA 1
EXT T.TAPE,T.TAPE9
1551 4000000000 X CAPIN ECSOPER CIN,=XC.MASTC
1553 00000000000000000000002 WHAT VFD 60/2
1554 0000000000000000000000 X WHERE VFD 60/C.INI
1555 4000000000 X READINI DSKOPER READ,C.INI,1,WHAT,1
1562 DSCRA BSSZ 4
EXT C.INI,C.CAPIN,C.SELF
1566 RWSIZE BSS 0
ENTRY RWSIZE
CALL MACRO WHAT,RET
LOCAL RETURN

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DUMP SCAN MAIN PROGRAM
OTHER MACROS

COMPASS - VER 2.

06/18/71 14.49.25.

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	NULL	RET,RETURN,SB7
RETURN	EQ	WHAT
	BSS	0
CALL	ENDM	

1566	6170001567 +	COMMAND	CALL	GETCOM	
1567	5120000000 X 6110000011 +	COMAND	SA2 SBI	PARAM. MODETR	. PICK UP PARAMETER 1
1570	6170001571 +		CALL	LOOKUP	. AND LOOK IT UP
1571	0720002044 +		NG	B2,COMANDE	
1572	10611 5112000014 + 5160000026 +		SA1 BX6	MODETR+B2 X1	. GET CORRESPONDING MODE ENTRY
			SA6	MODE	. SET MODE
1573	5120000001 X 6110000016 +		SA2 SBI	PARAM+1 FLAGTB	. GET 2ND PARAMETER
1574	6170001575 +		CALL	LOOKUP	
1575	0720002044 +		NG	B2,COMANDE	
1576	5170000027 76720 7160000000		SK7 SA7	B2 TFLAG	. SET TYPE
1577	5160000030 +		SK4 SA6	0 ZFLAG	. CLEAR ZERO FLAG
	0317001644 +		NZ	X7,COMAND4	. JUMP IF NOT PPU DUMP
1600	6110000002 X		NUM	PARAM+2,PARAM+2	. MAKE NUMBER
1603	5110000003 X 0307001624 +		SA1 ZR	PARAM+3 X1,COMAND1	. GET PARAMETER 4 . NEXT PARAM IS PPU COUNT
1604	6110000000		NUM	0,PARAM+3	. ELSE CONVERT TO NUMBER
1607	5110000004 X 0307001634 +		SA1 ZR	PARAM+4 X1,COMAND2	. IF, NULL, NEXT IS PP WORD COUNT
1610	6110000000		NUM	0,PARAM+4	. ELSE MAKE NUMBER
1613	6110000005 X		NUM	PARAM+5,PARAM+5	. CONVERT LAST PARAMETER
1616	5110000002 X 43060 20114		SA1 MX0 LX1	PARAM+2 80-12 12	
1617	5021000001 15220 12612		SA2 BX2 BX6	A1+1 -X0*X2 X1+X2	. PPU NUMBER AND ADDRESS
1620	54610		SA6	A1	. LEAVE IN PARAM+2
1621	5110000004 X 5021000001 20114 15220		SA1 SA2 LX1 BX2	PARAM+4 A1+1 12 -X0*X2	
1622	12612 5160000003 X		BX6 SA6	X1+X2 PARAM+3	. LEAVE FINISH ADDRESS AT PARAM+3
1623	0400001666 +		EQ	COMAND3	
1624	6110000004 X	COMAND1	NUM	PARAM+4,0	

1627	0316001630 +		NZ	X6.*+1
	7160000001	+	SX6	1
1630	20614		LX6	I2
	5110000002 X		SA1	PARAM+2
1631	10711	20114	LX1	I2
	36667		BX7	V1
	7266777767		IX6	X6+X7
1632	5170000002 X		SX6	X6-108
	5160000003 X		SA7	PARAM+2
1633	0400001666 +		SA6	PARAM+3
			EQ	COMAND3
		*		
		*		
1634	6110000005 X	COMAND2	NUM	PARAM+3+0
1637	5110000002 X		SA1	PARAM+3
	5021000001		SA2	A1+1
1640	43060		MX0	60-12
	15220		BX2	X6+X2
	20114		LX1	I2
1641	54710	12712	BX7	X1+X2
	15660		SA7	A1
	36776		BX6	X6+X4
1642	7277777767		IX7	X7+X6
	5170000003 X		SA7	X7-108
1643	0400001666 +		EQ	PARAM+3
		*		COMAND3
		*		
1644	6110000002 X	COMAND4	NUM	PARAM+2+PARAM+2
1647	5110000003 X		SA1	PARAM+3
	0307001654 +		ZR	X1.COMAND5
1650	6110000000		NUM	PARAM+3
1653	0400001666 +		EQ	COMAND3
		*		
1654	5110000004 X	COMAND5	SA1	PARAM+4
	0307001662 +		ZR	X1.COMAND5A
1655	66100		NUM	EQ-B0
1657	7266777776		SX6	X6-1
	5116000002 X		SA1	PARAM+2
1660	36716	COMAND5B	IX7	X1+X6
	5170000003 X		SA7	PARAM+3
1661	0400001666 +		EQ	COMAND3
		*		
		*		
1662	5110000027 +	COMAND5A	SA1	IFLAG
	7227777775		SX2	X1-2
1663	7160000000		SX6	0
	5110000002 X		SA1	PARAM+2
1664	0312001660 +		NZ	X2.COMAND5B
	7160000017		SX6	178
1665	0400001660 +		EQ	COMAND5B
		*		
1666	5110000027 +	COMAND3	SA1	IFLAG

. ADD COUNT TO FIRST ADDRESS

1667	63120	5221000022 +	SA2	X1+SHFTB . GET SHIFT INFO
	21222		SB1	X2
			AX2	T8
1670	5130000026	0410001672 +	ZR	R1,COMAND3A
			SA3	MODE
1671	21301	7232777776	SX3	3-1
	63330		SA3	
	22222		SB3	X3
	66113		LX2	B3,X2
1672	20130		SB1	R1+B3 . ONE ONLY IF PRINTER
	5130000002 X	COMAND3A	R1	B3
			LX1	B4
			SA3	PARAM+2
1673	15630	43044	MX0	60-24
	12661		BX6	X0*X3
	23616		BX6	X6+X1 . ADDRESS AND TYPE
	22616		AX6	R1,X6
1674	5160000031 +		LX6	R1,X6 . NORMALIZE ADDRESS--ROUND DOWN
			SA6	CADRES . SET CURRENT ADDRESS
1675	12631	5032000001	SA3	A3+1
	10722		BX6	X3+X1 . ADD TYPE
			BX7	X2
1676	7170000001	5170000001 +	SA7	COUNT
			SX7	1
1677	5160000032 +	5170000002 +	SA7	ZCFLAG
			SA6	CADRES . SET FINISH ADDRESS
1701	43044	6170001701 +	CALL	EJECT
	5110000031 +		MX0	60-24
	15610		SA1	CADRES
1702	5160000164 +		BX6	X0*X1
			SA6	TAD . SET ADDRESS FOR FORM
1703	5160000033	7160000000	SX6	0
			SA6	TEMP
1705	7170001753	6170001705 +	CALL	ZERO
			SA7	READY
	5170000005 +		SA7	STATUS
1706	6170001707 +		CALL	LOCATE
1707	5110000033 +		SA1	TEMP
	5261000034 +		SA6	X1+IN . STORE INTO OUTPUT ARRAY
1710	7261000001	54610	SX6	X1+1
			SA6	A1 . BUMP TEMP
1711	5110000027 +		SA1	IFLAG
	5211000022 +		SA1	X1+SHFTB
1712	73210		SX2	X1
	21122		AX1	T8
1713	5120000026 +	0302001715 +	ZR	X2,LOCLOOP1 . JUMP IF XPACK
	7222777776		SA2	MODE
			SX2	X2-1


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1714 21201 63120 AX2 1 . BIT LEFT ONLY IF PRINTER
      63120 SB1 X2
1715 37261 22111 LOCLOOP1 LX2 51-X1 . BUMP COUNT IF PRINTER
      0332001706 + NG X2,LOCLOOP . GET NEXT WORD IF NOT DONE YET
      *
      *
1716 5120000027 + ZLOOP SA2 IFLAG
      7222777775 SX2 X2-2 . XPACK
1717 0302001726 + ZR X2,COMAND7 . PRINT ALL REGISTERS
      5120000002 + SA2 7CFLAG
1720 0312001726 + NZ X2,COMAND7
1721 5216000033 + ZLOOP1 SA1 IN-1+X6 . X6 HAS COUNT IN IT
      7264777776 SX6 X6-1
1722 0311001726 + NZ X1,COMAND7 . JUMP ON NON-ZERO
      0331001726 + NG X1,COMAND7 . PRINT -0+S
1723 0316001721 + NZ X6,ZLOOP1
      5110000030 + SA1 7FLAG
1724 0311001743 + NZ X1,COMAND10 . JUMP IF STAR OUTPUT ALREADY
      43673 MX6 59
      54610 SA6 A1
1725 6170001743 + CALL OUTSTAR,COMAND10
      *
1726 7160000000 COMAND7 SX6 0
      5160000030 + SA6 5FLAG . CLEAR ZERO FLAG
1727 6110000034 + SB1 IN
1730 6130000027 6120000104 + SB3 IFLAG
      6150000026 + SB5 MODE
1731 6140000060 + SB4 YOUT
      5110000026 + SA1 MODE
1732 7211777775 SX1 X1-2
      0311001735 + NZ X1,COMAND8
1733 6170001734 + CALL ROTATE
1734 6246001150 + SB4 X6-SCRBUFF+2 . OUTPUT TO CURRENT SCREEN LINE
      *
1735 0100000000 x COMAND8 RJ FORM . FORMAT OR TYPE OUTPUT
      *
1736 5110000026 + BSS 0
1738 7211777775 SA1 MODE
      0331001743 + SX1 X1-2
1737 0331001743 + NG X1,COMAND10
      6150001743 + SB7 COMAND10
1740 0311002264 + NZ X1,LINEOUT . WRITE LINE IN FILE
      *
1741 0130000124 + CEJ WSCR . WRITE OUT SCREEN BUFFER
1742 0130000114 + CEJ UPDATE . AND UPDATE SCREEN
      *
      *
1743 5110000031 + COMAND10 SA1 CADRES
      5120000032 + SA2 FADRES
1744 37321 IX3 X2-X1
      5110000005 + SAT NSTATUS

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1745	7211776024 -		SX1	X1-READY
	0311001751 +		NZ	X1,COMAND11
1746	13666		BX6	X6-X6
	5120000001 +		SA2	COUNT
	37432		IX4	X3-X2 . DIF-COUNT
1747	0324001750 +	+	PL	X4,*+1
	7160000001		SX6	1
1750	5160000002 +		SA6	7CFLAG
	0323001701 +	*	PL	X3,COMAND6 . LOOP IF NOT DONE YET
1751	6211001753 +	COMAND11	SB1	X1-READY
	6170001566 +		CALL	STATUS,COMMAND
1753	22050104310000000000	*READY	DIS	!\$READY\$

1754	6110000005	7160000000	GETCOM	SB1 SX6	S 0	
1755	5161000000	X 5161001460 +		SA6 SA6	R1+PARAM R1+COMLINE	. Z ERO PARAM AND COMMAND BUFFERS
1756	6111777776	0610001755 +		SB1 PL	R1-1 R1-1	. LOOP
1757	5110000014 +		*	SA1	MODETBL	. GET INPUT MODE FLAG
1760	0301002020	7211777776 + 6110000000		SX1 ZR SB1	X1-1 X1,GETCOM10 0	. JUMP IF TTY
1761	0130000107 +		*	GETCOMH	CEJ	KEYHANG
1762	0317001763 +			NZ	X7,GETCOM1	
	0337002054 +		*	NG	X7,GETCOML	
1763	5171001460	6111000001	GETCOM1	SA7 SB1	COMLINE+BI R1+1	
1764	43066	6120000012		MX0 SB2	50-6 10	
1765	20706	15670	GETCOM2	LX7 BX6 SX6	6 -X0*X7 X6-60B	
1766	0306001770	7264777717 + 6122777776		ZR SB2	X6,GETCOM3 R2-1	. QUIT ON CR
1767	0520001765 +	0406001761 +	*	NZ EQ	R2,GETCOM2 GETCOMH	. CHECK ALL 10 CHARACTERS . GET NEXT WORD
1770	6110777771	6120777765	GETCOM3	SB1 SB2	-6 -10	
1771	67302	13666		SB3 BX6	-B2 X6-X6	: +10 : ZERO OUTPUT REGISTER
1772	20106	5110001460 +		SA1	COMLINE	. GET FIRST WORD OF INPUT LINE
1773	7232777717	4122000001	GETCOM4	LX1 BX2	4 -X6*X1	
1774	7232777721	0303002014 +		SB2 SX3	R2+1 X2-60B	. GET CHAR AND BUMP COUNT . CHECK FOR END
1775	20606	0303002001 +		ZR SX3	X3,GETCOM9 X2-1R	. JUMP ON END . CHECK FOR ***
	12662	6133777776		ZR LX6 BX6	X3,GETCOM8 6 X6+X2	. END OF THIS PARAMETER . ADD CHAR TO OUTPUT
1776	0730002005 +			SB3 NG	B3-1 B3,GT10CH	. DECREMENT COUNT . ERROR, > 10 CHAR
1777	0720001772	5011000001	GETCOM4A	NG SA1	B2,GETCOM4 A1+1	. JUMP IF CHARS LEFT . ELSE GET NEXT WORD
2000	6120777765	0406001772 +	*	SB2 EQ	-10 GETCOM4	. AND LOOP
2001	5161000006 X	6111000001	GETCOM8	SA6 SB1 BX6 SB3	PARAM+6+BI R1+1 X6-X6 10	. STORE IN PARAM BUFFER
2002	13666	6130000012				

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2003 0710001777 + 110002007 + NG SB1 R1,GETCOM4A . OK IF <= 6 PARAMS
2004 6170001566 + CALL STATUS,COMMAND
2005 6110002011 + GT10CH SB1 GT10CHM
2007 55570724575541552001 + 6170001566 + CALL STATUS,COMMAND
2011 20012201150524052255 GT6P DIS $,GT. 6 PARAMETERS$
2014 5161000006 X GT10CHM DIS $PARAMETER.GT. 10 CHARACTERSS
2015 0130000124 + GETCOM9 SA6 PARAM+6*B1
2016 0130000114 + CEJ WSCR
2017 0400002021 + CEJ UPDATE
EQ GETCOM11 . STORE LAST WORD AND PROCEED

2020 6170002021 + GETCOM10 MESIN () . GET LINE FROM TTY
*
2021 6110002024 + GETCOM11 SB1 COMTAB
5120000000 X SA2 PARAM
2022 6170002023 + CALL LOOKUP . LOOK UP COMMAND
2023 0720002044 + NG B2,COMANDE
0220002034 + JP COMJTAB*B2
*
2024 00000000002022111624 COMTAB DATA ORPRINT
2025 00000000000024312005 DATA ORTYPE
2026 0000000000000061116 DATA ORFIN
2027 000000000000023241720 DATA ORSTOP
2030 00000004112320140131 DATA ORDISPLAY
2031 00000000000000242431 DATA ORTTY
2032 000000000000023012605 DATA ORSAVE
2033 00000000000000000000 DATA
*
2034 0400001567 + COMJTAB EQ COMAND
2035 0400001567 + EQ COMAND . PRINT AND TYPE
2036 0400002063 + EQ FIN
2037 0400002057 + EQ STOP
2040 0400002122 + EQ DISPLAY
2041 0400002115 + EQ TTY
2042 0400002145 + EQ SAVE
*
2043 5170777776 + SA7 -1 . GET AN ERROR IF ERROR
*
2044 6110002046 + COMANDE SB1 COMANDE
2045 6170001566 + COMANDE1 CALL STATUS,COMMAND
2046 25161316172716550317 COMANDE1 DIS $UNKNOWN COMMAND$
*
2050 6110002051 + DISPLAER SB1 DISPLAER
0400002045 + EQ COMANDE1
*
2051 11141405070114551601 DISPLAER DIS $.ILLEGAL NAME (MUST BE E-L)$
*
2054 6110002055 + GETCOML SB1 GETCOMLM

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0400002045 +
2055 14172324550401240100

GETCOMLM EQ
DIS

COMANDE1
LOST DATAS

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2057 6160000004      STOP      SB6      READ
2060 0130000106      CEJ
2061 6110001753      SB1      READY
      6170001566      CALL      STATUS,COMMAND
      *
      *
      *
      *
2063 5110000014      FIN      SA1      MODETBL
      7211777776      SX1      X1-1      . GET MODE FLAG
2064 0301002066      ZR      X1,FINI      . JUMP IF TTY
      6170002066      CALL      ZDISPL      . ZERO DISPLAY
2066 5110000145      SA1      RUFFPT      . GET BUFFER POINTER
      436A1      MX6      I      . EOF
2067 5261000146      SA6      X1+FBUFF
2070 0130000117      FINIA      CEJ      WRITEF,I
2071 0200002073      JP      WIN2
2072 0200002075      JP      WIN3
2073 0130000131      FIN2      CEJ      CRBLOCK
2074 0200002070      JP      FINIA
2075 6110001562      FIN3      SB1      DISCRA
      6160000001      SB6      I
2076 6170000000      SB7      O.DUMPF
2077 0130000106      CEJ      READ
2106 7110000000      TAPECOM      118      . REPLACE OUTPUT FILE
      6170002112      TAPE      . READETS
2112 6170002114      TAPEC
2114 0130000113      CEJ      RETURN      . REPLACE OUTPUT FILE
      *
      *
      *
      *
2115 7160000001      TTY      SX6      I
      5110000014      SA1      MODETBL      . GET OLD MODE
2116 54610      SA6      A1      . SET NEW ONE
      13661      BX6      X6-X1
2117 6170002120      ZR      X6,TTY1      . JUMP IF WAS TTY
      030A002120      CALL      ZDISPL      . ELSE ZERO DISPLAY
      *
2120 6110001753      TTY1      SB1      READY
      6170001566      CALL      STATUS,COMMAND
      *
      *
2122 5110000001      DISPLAY      SA1      PARAM+1      . GET NAME
      7261777772      SX6      X1-1RE
2123 0336002050      NG      X6,DISPLA      . ERROR IF < E
      7256777767      SX5      X6-1RM+1RE
2124 0325002050      PL      X5,DISPLA      . ERROR IF >= M
      5110000014      SA1      MODETBL      . GET OLD MODE
2125 7170000002      SX7      2

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	54710		SA7	A1	
	13771		BX7	X7-X1	
2126	0317002130 +		NZ	Y7-DISPLAY1	JUMP IF OLD NOT DISPLAY
	6170002130 +		CALL	ZDISPL	ELSE ZERO DISPLAY
2130	5110000001 x	DISPLAY1	SA1	PARAM+1	
	7277777772 x		SX7	X1+C.SCRNF-1RE	
2131	5170000125 +		SA7	WSCR+1	CAP FOR FILE
	7277000010		SX7	X7+8	
2132	5170000115 +		SA7	UPDATE+1	CAP FOR UPDATE EVCH
	7277000010		SX7	X7+8	
2133	5170000110 +		SA7	KEYHANG+1	KEYBD EVCH CAP
	5170000112 +		SA7	KEYGETF+1	
		*			
2134	43014		MX0	T2	
	6110900370		SB1	Z56+8	
2135	5111001146 +	DISPLAY3	SA1	ACRBOFF+BI	
	11301		BX3	X0-X1	
	20314		LX3	T2	
2136	12631		BX6	X3-X1	INSERT BYTE COUNT
	54610		SA6	A1	
	6111777767		SB1	R1-B	
2137	0610002135 +		PL	B1-DISPLAY3	
2140	0130000111 +		CEJ	KEYGETF+1	
2141	0400002143 +		EQ	X+2	
2142	0400002140 +		EQ	X-2	
2143	6110001753 +		SB1	READY	
	6170001566 +		CALL	STATUS.COMMAND	STATUS SHOULD UPDATE WHOLE SCREEN

2145	5110000001	Y	SAVE	SA1	PARAM+1
		7261777772		SX6	X1-1RF
2146	0331002050	+		NG	X1,DISPLAYE
		7254777767		SX5	X6-1RM+1RF
2147	0325002050	+		PL	X5,DISPLAYE
		7274000000	X	SX7	X6+C.SCRNF
2150	5110000125	+		SA1	WSCR+1
		5120000115	+	SA2	UPDATE+1
2151	54710			SA7	A1
		7277000050		SX7	X7+8
		54720		SA7	A2
2152	0130000124	+		CEJ	WSCR
2153	0130000114	+		CEJ	UPDATE
2154	10711			BX7	X1
		54710		SA7	A1
		10722		BX7	X2
		54720		SA7	A2
2155	6110001753	+		SB1	READY
		6170001556	+	CALL	STATUS:COMMAND

*
*
*
*
*
*
*
*
*
*
*
*

LOOKUP

PARAMETERS: X2 = DESIRED TEXT (RJZF)
B1 = PTR TO TABLE
R7 = RETURN

RETURNS: B2 = INDEX OF MATCH OR -1 IF NONE FOUND

*

NOTE: MATCH FAILS ON ZERO WORD IN TABLES

2157 6120777776
2160 6122000001
56772 13312
2161 0201002163 + 0373002160 +
2162 0270000000
2163 6120777776
0270000000

LOOKUP
LOOKUP1

SB2
SB2
SA1
BX3
ZR
NZ
JP
SB2
JP

B1
B2+1
B1+B2
X1-X2
X1:LOOKUP2
X2:LOOKUP1
B7
B1
B7

. RETURN WITH MATCH

. RETURN WITH FAILURE

LOOKUP2

```

2164 6110000370 43040 ZDISPL SB1 256-8
      43040 MX0 20-12
2165 5111001146 6111777767 ZDISPLI SA1 SCRBUF+BI
      6111777767 SB1 BI-8
2166 11601 54610 BX6 X0*X1
      54610 SA6 41
      0610002165 + PL R1,ZDISPLI
2167 0130000124 + CEJ WSCR
2170 0130000114 + CEJ UPDATE
2171 0270000000 JP R7
      *
      *
      *
      *
      *
      *
      *
2172 5110000026 + EJECT SA1 MODE
      7211777775 SX1 X1-2
2173 0331002201 + NG X1,EJECT2
      0331002204 + ZR X1,EJECT3
      *
2174 7160000034 SX6 TRI
      5110000003 + SA1 PAGE
2175 0331002176 + NG X1,**I
      7160000037 SX6 TRI4
2176 20666 LX6 24
      5160000040 + SA6 IOUT
2177 7160000020 SX6 16
      5160000003 + SA6 PAGE
2200 66770 CALL LINEOUT+BI . OUTPUT EJECT INTO FILE
      *
      *
2201 6110002203 + EJECT2 MESOUT EJECTS,B7
2203 00000000000000000000 EJECTS DATA 0
      *
      *
2204 66670 6170002206 + EJECT3 SB6 B7
      6170002206 + CALL ROTATE . SAVE RETURN
2206 6110000005 7170000000 SB7 5
      7170000000 SX7 0
2207 6120000001 7264001150 + SB2 I
      7264001150 + SX6 X6+SCRBUF+2
2210 53761 67112 + SA7 X6+B1
      67112 SB1 BI-B2
      0610002210 + PL BI,*
2211 66760 0270000000 SB7 R6
      0270000000 JP R7
      *
      *
      *

```

LINE	ADDRESS	DATA	OPERATION	MODE
2212	5110000026	7211777775	OUTSTAR	SA1 SX1
2213	0331002217	0301002222 *		NG ZR
2214	7160005547	20660		SX6 LX6
2215	5160000060	64770		SA6 CALL
2217	6110002221	47000000000000000000	OUTSTAR1	YESOUT
2222	66670		OUTSTAR2	SB6
2224	6170002224 *			CALL SA1
2225	5276001150	7077000001		SX7 SA7 SX7
2226	6110000004	7160000000		SB1 SX6
2227	6120000001			SB2 SA6
2230	53671	67112		SB1 PL
2231	66760	0270000000		SB7 LX6

```

2232 5110000014 +          STATUS  SA1  MODETRL
      7211777776          SX1  X1-1
2233 0311002235 +          NZ  X1,STATUS4
      66110          MESOUT  R1,B7
2235 7110000005          STATUS4  SX1  5
      13646          BX6  X6-X6
      43060          MX0  A0-12
2236 5261001450 +          STATUS4A  SA6  STATLIN+X1
      7211777776          SX1  X1-1
2237 0321002236 +          PL  X1,STATUS4A
      54110          SA1  R1
      10611          BX6  X1
2240 5160001450 +          SA6  STATLIN
2241 15110          STATUS5  BX1  X0*X1
      0301002244 +          ZR  X1,STATUS6
2242 5011000001          SA1  A1+1
      10611          SA6  X1
2243 5066000001          SA6  A6+1
      0400002241 +          EQ  STATUS5
      *
2244 0130000124 +          STATUS6  CEJ  WSCR
2245 0130000114 +          CEJ  UPDATE
2246 0270000000          JP  R7
      *
      *
      *
      *
2247 6110000023          ZERO  SB1  I9
      7160000000          SX6  0
2250 5161000034 +          SA6  IN+B1
      5161000060 +          SA6  IOUT+R1
2251 6111777776          SB1  R1-1
      0616002250 +          PL  R1,ZERO1
2252 0270000000          JP  R7          . RETURN
      *
      *
      *
      *
      *
2253 5110000105 +          ROTATE  SA1  CURLIN          . GET CURRENT LINE POINTER
      72310          SX3  X1
2254 5221001147 +          SA2  X1+SCRBUFF+1          . GET CO-ORDINATE WORD
2255 7233000010          ROTATI  SX3  X3+8
      7243777477          SX4  X3-30B+8          . BUMP POINTER
      *          . MAX LINE
2256 0334002257 +          NG  Y4,#+1
      7130000000          SX3  0
2257 10622          BX6  Y2
      5223001147 +          SA2  X3+SCRBUFF+1          . GET NEXT WORD IN ROTATION
      54620          SA6  A2          . AND MOVE THIS LINE TO LAST ONES SPOT

```

2260 37431
 0314002255 +
 2261 7263000010 7246777477
 2262 0334002263 +
 7160000000
 2263 5160000105 +
 *
 *
 0270000000

IX4
 NZ
 SX6
 SX4
 NG
 SX6
 SA6
 JP

X3-X1 . CURRENT = START
 X4,ROTAT1 . LOOP IF NOT DONE YET
 X3+8
 X6-30B*8
 X4,*+1
 0
 CURLIN . UPDATE CURRENT LINE POINTER
 AND RETURN POINTER IN X6
 R7 . RETURN

2264	6167000000	5110000003 +	LINEOUT	SR6 SA1	B7+0 PAGE
2265	7261777776	5061000000		SX6 SA6	X1-1 A1+0
2266	5110000060	6120777765		SA1 SB2	IOUT -10
2267	6130000061	71A0000011		SX3 SX6	-9 -18
2270	20670	43066		LX6 MX0	-6 -4
		5120000145 +	*	SA2	RUFFPT
2271	20106	15310	LINEOUT1	LX1 BX3	A -X0*X1
		6122000001		SB2	B2+1
2272	0303002346	7244777722	LINEOUT1A	ZR	X3,LINEOUT10 . GET DISPLAY CODE CHAR
		6120777765		SX4	X3-558 . DONE
2273	0304002300	5233000000 X		ZR	X4,LINEOUT2 . JUMP ON BLANK
		6120777765		SA3	TRANSTB+X3 . GET TABLE ENTRY
2274	20336	21355		LX3 AX3	30 45
		6170002276 +	*	CALL	LINEOUT6 . GET CHARACTER
2276	0720002271	6120777765		NO	B2,LINEOUT1 . LOOP IF CHARS LEFT
2277	5011000001	0400002271 +	*	SB2 SA1 EQ	-10 A1+1 LINEOUT1
2300	71300000173	6170002302 +	LINEOUT2	SX3 CALL	-1738 LINEOUT6
2302	7130000001	0720002304 +		SX3 NO	-1 B2,LINEOUT3
2303	6120777765	5011000001		SB2 SA1	-10 A1+1
2304	20106	15410	LINEOUT3	LX1 BX4	A -X0*X1
		6122000001		SB2	B2+1
2305	0304002313	7244777722		ZR	X4,LINEOUT4A
		6120777765		SX4	X4-558
2306	0314002311	7233000001		NZ	X4,LINEOUT4
		6120777765		SX3	X3+1
2307	0720002304	6120777765		NO	B2,LINEOUT3
2310	5011000001	0400002304 +	*	SB2 SA1 EQ	-10 A1+1 LINEOUT3
2311	6170002312	15310	LINEOUT4	CALL	LINEOUT6
2312	0400002272 +		*	BX3 EQ	-X0*X1 LINEOUT1A
2313	6170002314		LINEOUT4A	CALL	LINEOUT6
2314	0400002346		*	EQ	LINEOUT10

```

*
*
*
2315 22333 12663 LINOUT6 LX3 X3-X3 . POSITION CHAR
BX6 X6-X3 . ADD TO OUTPUT
2316 0730002317 6132777770 SB3 B3-7 LINOUT7 . JUMP IF OUTPUT WORD FULL
0270000000 NO3 B3 LINOUT7
JP R7 . RETURN
*
*
2317 5262000146 7160000000 LINOUT7 SA6 X2-FBUFF . STORE INTO FILE BUFFER
SX6 0
2320 7222000001 SX2 X2-1
SB3 49
2321 5130000123 61300000061 SA3 BLOCKSZ
IX7 X2-X3
2322 0327002323 37753 PL X7-LINOUT8 . JUMP IF END OF BUFFER
0270000000 JP R7
*
2323 5130000143 5140000121 LINOUT8 SA3 ATCH+2 . GET ATTACH ADDRESS
SA4 FILAD . GET FILE READ ADDRESS
IX7 X3-X4
2324 37734 0307002322 10733 ZR X7-LINOUT81 . JUMP IF SAME BLOCK
BX7 X3
2325 5170000137 10744 SA7 DTAD . DETACH OLD ATTACHED BLOCK
BX7 X4
2326 0130000135 CEU DETACH
2327 5170000143 SA7 ATCH+2 . SET ATTACH EQUAL TO WRITE
2330 0130000141 CEU ATCH-1 . AND ATTACH IT
2331 0130000131 CEU CKBLOCK . CREATE BLOCK IF RETURN
*
2332 5130000123 LINOUT81 SA3 BLOCKSZ
2333 0130000117 CEU WRITE-1
2334 02000002340 JP LINOUT8
2335 5120000121 3A723 SA2 FILAD
IX7 X2-X3
54720 SA7 A2
2336 5170000133 7120000000 SA7 BLOCKAD
SX2 0
2337 02700000000 JP R7
*
*
2340 0130000131 LINOUT9 CEU CKBLOCK
2341 5120000137 0432002343 NO2 DTAD
2342 0130000135 CEU X2-LINOUT91
2343 5120000133 LINOUT91 SA2 DETACH . DETACH OLD BLOCK
SA2 BLOCKAD
2344 5170000137 10722 BX7 DTAD . RESET DETACH ADDRESS
SA7
2345 0400002323 5170000143 SA7 ATCH+2 . AND ATTACH ADDRESS
LINOUT8 RE-TRY WRITE
*

```

2346	7130000155	* LINOUT10	SX3	155B	. CARRIAGE RETURN
2350	0316002346 +		CALL	LINOUT6	
	6170002350 +		NZ	X6, LINOUT10	. LOOP TILL END OF WORD
2351	5160000145 +		SX6	X2	
	73620		SA6	RUFFPT	. SAVE BUFFER POINTER
2352	6170002353 +		MX6		
	43621		CALL	LINOUT7	. INSERT EOF IN BUFFER
2353	0312002356 +		NZ	X2, LINOUT11	. JUMP IF NO WRITE
	5110000123 +		SA1	BLOCKSZ	
2354	5120000121 +		SA2	FILAD	
	37621		IX6	X2-X1	
	54620		SA4	A2	
2355	5160000133 +		SA6	BLOCKAD	. RESET FILE ADDRESSES
2356	66760	LINOUT11	SB7	86	
	0270000060		JP	B7	. RETURN
		EXT		C.BEAD, C.GETEV, C.RETUR, C.SENDE, C.WRITE, C.DUMPF	
		EXT		C.SCRNF	
		EXT		C.CBLK, CONVNUM, FORM, PARAM, TRANSTB, TYPEIN, TYPEOUT	

2357	76770	5170001546 +	LOCATE	SX7	R7	
				SA7	LOCB7	. SAVE RETURN
2360	43060		LOCATEL	GETBUFF	+)TRESP	. GET CURRENT BUFFER
				EXT		
2364	5111000001	5120000004 +		SA1	B1+1	
				SA2	RECORD	. GET RECORD ID
2365	21160	13112		AX1	40-12	
				BX1		
2366	5111000001	0311002637 +		NZ	X1:READ2FAR	. GET HEADER READING PAST RECORDED DATA
				SA1	B1+1	
				SA2	CADRES	. GET DESIGED ADDRESS
2367	43330	5120000031 +		MX3	60-36	
				BX3	-X3*X1	. SAVE BOTTOM OF HEADER
				IX4	X2-X3	. DESIRED - CURRENT
				BX5	X4	
2370	21530	10544		AX5	X4	. CHECK FOR SAME TYPE
				MX6	40-12	
				ZR	X5:LOCATE1	. JUMP IF SO
2371	0324002507	0400002541 +		PL	X4:SKIPFP	. SKIP FILE MARK FORWARD IF +
				EQ	SKIPFM	. ELSE SKIP FILE BACKWARDS
2372	231311202011	14070000	SKIPPING	DIS	.SKIPPING	
2373	0334002375	10511	LOCATE1	NG	X4:LOCATE2	. CAN NOT BE IN THIS BUFFER
				BX5	X1	
				AX5	X6	
2374	15550	37545		BX5	-X0*X5	
				IX5	X4-X5	. DIFF - COUNT
				NG	X5:LOCATES	. JUMP, IS IN BUFFER
2375			* LOCATE2	BSS	0	
2375	10511	21530		BX5	X1	
				AX5	X4	
				MX6	40-12	
2376	5255002423	15556		BX5	-X6*X5	. GET TYPE FIELD
				SAS	LOCATAB+X5	. GET TABLE ENTRY
				SBI	X5	
				AX5	X6	
2377	23313	22313		AX3	B1-X3	. CLEAR LOWER CURRENT
				LX3	B1-X3	
				IX6	X2-X3	. CHECK FOR AFTER LAST FILE MARK
2400	0436002541			NG	X6:SKIPFM	. ELSE SKIP BACKWARDS ONE FILE MARK
2401	0325002507	37545		IX5	X6-X5	. COUNT DIFFERENCE
				PL	X5:SKIPFP	. SKIP FORWARD ONE FILE MARK
2402	0400002403	0324002463 +		PL	X4:READP	. ELSE READ NEXT RECORD AND TEST
				EQ	READM	. IF NG, READ LAST RECORD
2403	5110001547	43601	READM	SA1	OLDSIGN	
				MX6	A1	. SET OLD SIGN
2404	5120001550	54610		SA2	LASTOP	. GET LAST OP FLAG

```

      54620
      13661
2405 5110000000 +
      0301002426 +
2406 0302002426 +
      0304002426 +
      *
2407 5110000005 + READNF SA1 NSTATUS
      7211776024 - SX1 X1-READY
2410 0311002425 + NZ X1,READNF9 . JUMP IF ALREADY ENTERED
      7170000006 + SX7 NTONTF
2411 5170000005 + SA7 NSTATUS
      5110000031 + SA1 CADRES . GET ADDRESS
2412 66100 SB1 B0
      66200 SB2 B0
      64310 SB3 A1
2413 6170002416 + SB7 READNF1
      10211 BX2 X1
      21230 AX2 24
2414 43044 + MX0 40-24
      0312002415 + NZ X2, **1
      21014 AX0 12
2415 15110 BX1 X0*X1 . REMOVE JUNK
      0400000000 X EQ CONVENUM
      *
2416 5110000031 + READNF1 SA1 CADRES
      10211 BX2 B1
      21230 AX2 24
2417 5232000016 + SA3 FLAGTB+X2
      7140000055 SX4 558
2420 0312002422 + NZ X2,READNF3
      21114 AX1 12
2421 7241000033 SX4 X1+1R0
2422 43014 READNF3 MX0 12
      20606 LX6 6
      15640 BX6 X0*X6
      20366 LX3 34
2423 20460 LX4 48
      12663 BX6 X6+X3
      12664 BX6 X6+X4
2424 5160000006 + SA6 NTONTF
2425 7160000000 READNF9 SX6 0
      0400002616 + EQ LOCATE7 . JUMP FINISHED
      *
      *
      *
      *
      SKIPST MACRO
                LOCAL
                SA1 X
                SX1 MODE
                NZ X1-2
                X1,X

```

			SRI CALL	SKIPPING STATUS
		X	BSS ENDM	0
		*		
		*		
		*		
2426	5110000026 +	READM1	SKIPST	
2431	7110000000 v		TAPECOM	T2B . BACKSPACE
	7110000000 X		TAPECOM	T2B . BACKSPACE
	7110000000 X		TAPECOM	T01B . READ
	6170002461 +		TAPER	. RDDET8
2461	0130000000 X		CEJ	READBUF
2462	0400002602 +		EQ	LOCATELO
		*		
		*		
		*		
2463	5110001547 +	READP	SA1	OLD SIGN
	43600		MX6	0
	54610		SA6	A1
2464	5120001550 +		SA2	(ASTOP
	43701		MX7	0
	54720		SA7	A2
2465	5130000000		SA3	CHECK
	0303002470 +		ZR	X3:READPI
2466	0302002470 +		BK6	X2:READPI
	13661		NZ	X6-X1
2467	0316002407 +			X6:READNF
2470	5110000026 +	READPI	SKIPST	
2473	7110000000 X		TAPECOM	T01B . READ
	6170002505 +		TAPER	. RDDET8
2505	0130000000 X		CEJ	READBUF
2506	0400002602 +		EQ	LOCATELO
		*		
		*		
		*		
2507	5110001547 +	SKIPFP	SA1	OLD SIGN
	43600		MX6	0
	54610		SA6	A1
2510	5120001550 +		SA2	(ASTOP
	54620		SA6	A2
	13661		BK6	X6-X1
2511	5130000000 +		SA3	CHECK
	0303002513 +		ZR	X3:SKIPFP
2512	0312002513 +		NZ	X2:SKIPFP
	0314002407 +		NZ	X6:READNF
		*		
2513	5110000026 +	SKIPFP	SKIPST	
2516	7110000000 v		TAPECOM	T3B . SKIP FORWARD TO FILEMARK
	7110000000 X		TAPECOM	T01B . READ
	6170002537 +		TAPER	. SKIPTB
2537	0130000000 X		CEJ	READBUF
2540	0400002602 +		EQ	LOCATELO

```

*
*
2541 5110001547 + 43611 54610 SKIPFM SA1 QLOSIGN
      43611 54610 MX6 1
2542 5120001550 + 43700 54720 SA6 A1
      43700 54720 SA2 LASTOP
      54720 MX7 00
      SA7 A2
2543 5130000000 + 0303002546 + SA3 CHECK
      0303002546 + ZR X3 SKIPFM1
2544 0312002546 + 13661 NZ X2 SKIPFM1
      13661 BX6 X6-X1
2545 0316002407 + NZ X6 READNF
*
2546 5110000026 + SKIPFM1 SKIPST
2551 7110000000 x TAPECOM T48 . SKIP BACK TO FILEMARK
      7110000000 x TAPECOM T28 . BACKSPACE
      7110000000 x TAPECOM T018 . READ
      6170002601 + TAPER . SKIP TB
2601 0130000000 x CEJ READRUF
2602 7160000001 LOCATEL0 SX6 1
      5160000000 + SA6 CHECK
2603 0400002360 + EQ LOCATEL
*
*
2604 21230 LOCATES AX2 T4
      13666 BX6 X6-X6
      5160000000 + SA6 CHECK
2605 0312002615 + NZ X2 LOCATE6 . JUMP IF NOT PPU
      7160000005 SX5 5
2606 27304 PX3 R0,X4
      24363 NX3 R0,X3 . FLOAT OFFSET
      27565 PX5 R0,X5
      24505 NX5 R0,X5
2607 44635 FX6 X3/X5
      28626 UX6 R2,X6
      22626 LX6 R2,X6
      27706 PX7 R0,X6
2610 24707 NX7 R0,X7
      40775 FX7 X7-X5
      24727 UX7 R2,X7
      22727 LX7 R2,X7
2611 37747 IX7 X4-X7 . REMAINDER
      7277000001 SX7 X7+1
2612 20502 BX5 X7
      20703 LX5 2
      36557 LX7 3
      63550 IX5 X5+X7 . SHFT COUNT = 12(REM+1)
2613 73161 SB5 X5
      5211000002 SX1 R1+X6 . GET BUFFER WORD
      22151 SA1 X1+2
      LX1 R5,X1 . BITE IN LOWER 15 BITS

```

```

2614 43060 15610 MX0 60-12
      0400002616 + BX6 -X0*X1 . BYTE IN LOWER X6
      * EQ LOCATE7

2615 73141 LOCATEA SX1 R1+X4 . STANDARD WORD
      5211000002 10611 SA1 X1+2
      * BX6 X1

2616 5110000031 + LOCATE7 SA1 CADRES
      43273 MX2 59
      37712 IX7 X1-X2
2617 54710 SA7 A1
      5110001546 + SA1 LOC87 . GET SAVED RETURN
      63710 SB7 X1
2620 0270000000 JB R7 . RETURN
      *
      *

2621 00000000000000000000 EXT GET,TRUFORG,T,FIRST,T,LIMIT,T,IN,T,TAPER,T,TAPEC
2623 000001000000000000030 ERRORM DATA 0:0
      LOCATAS VFD 42/1000000000B,18/24
2624 000000000100000000014 VFD 42/100000B,18/12
2625 00000000000000200000004 VFD 42/200B,18/4
2626 000000000100000000014 VFD 42/100000B,18/12
2627 000001000000000000030 VFD 42/1000000000B,18/24
      *
      *

2630 RD8TB BSS 0
2630 0000000000000000002644 + VFD 40/RDERR
      000006 DUP 4:1
      VFD 40/T.TAPE

2637 5110002641 + READ2FAR SBI RED2FAR
      6176002644 + CALL
2641 22050104111007852001 + RED2FAR DIS STATUS,RDERR
      7110000000 X RDERR TAPECOM 12B
      7110000000 X TAPECOM 12B
      7110000000 X TAPECOM 101B
      6176002674 + TAPER . READ8TB
2674 0400002407 + EQ READNF
2675 000007 READ8TB BSS 0
      DUP 7:1
      VFD 40/T.TAPE

2704 000000000000000000000 X * SKIPTB VFD 40/T.TAPE9
      000006 DUP 4:1
      VFD 40/T.TAPE9

2713 4000000000 X INIT DSKOPER READ,C,DMPSC,0,0,RWSIZE
2720 4000000000 X INIOPEN DSKOPER OPRO,C,DMPSC
2722 4000000000 X OPEN DSKOPER OPRW,C,DUMPF
2724 0130002720 + START CEJ INIOPEN,3,,,C,DMPSC
2730 0130002713 + XJ INIT
      0000000000 - VFD 30/0

```

```

*
*
*
*
*
2731 0130001551 + CEJ CAPIN
2732 0130001555 + CEJ READINI
2733 5110001553 + SA1 WHAT
2734 7170000000 73610 SX6 X1
SX7 C.TPBUF
2735 5170001554 + 5160001553 + SA6 WHAT
SA7 WHERE
2736 0130001551 + CEJ CAPIN
2737 7266000001 SX6 X6+1
5066000000 SA6 A6+0
2740 7277000001 SX7 X7+1
5077000000 SA7 A7+0
2741 0130001551 + CEJ CAPIN
2742 7266000001 SX6 X6+1
7277000001 SX7 X7+1
2743 5066000000 SA6 A6+0
5077000000 SA7 A7+0
2744 0130001551 + CEJ CAPIN
2745 0130000000 X CEJ WRITBUF
*
*
2746 6110000000 X SB1 RET
2747 0400000000 X 6170002750 + SB7 STARTI
EQ T.TAPEC . CLEAR TAPE DRIVE
*
*
2750 STARTI BSS 0
2750 7160000003 SX6 1
5160001557 + SA6 READINI+2
2751 0130001555 + CEJ READINI
2752 66100 SB1 R0
5110001553 + SA1 WHAT
2753 7171000000 X 10611 SX6 X1
SX7 R1+C.SCRNF
2754 5160001553 + 5170001554 + SA7 WHERE
SA6 WHAT
2755 0130001551 + CEJ CAPIN
000002 DUP 2
SX7 X7+8
SA7 WHERE
SX6 X6+1
SA6 WHAT
CEJ CAPIN
ENDD
2764 7266000001 SX6 X6+1
6111000001 SB1 R1+1

```


DUMP SCAN MAIN PROGRAM
SYMBOLIC REFERENCE TABLE.

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READ	106	PROGRAM*	4/01 L	14/02	14/25	31/28				
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			14/27	27/11	27/32	28/17	29/37	31/08	31/12	31/16
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BLOCKAD	133	PROGRAM*	4/13 L	23/39 S	23/48	24/14 S				
BLOCKSZ	123	PROGRAM*	4/10 L	23/16	23/33	24/10	31/34 S			
BUFFPT	145	PROGRAM*	4/19 L	14/14	22/11	24/06 S				
CADRES	31	PROGRAM*	3/40 L	8/18 S	8/30	9/50	25/11	26/13	26/26	29/10
CAPIN	1551	PROGRAM*	4/44 L	30/08	30/15	30/26	30/25	30/44	30/52	30/52
CHECK	0	PROGRAM*	3/13 L	26/03	27/24	27/43	28/09	28/22 S	28/29 S	
COMAND	1567	PROGRAM*	6/03 L	12/31	12/32					
COMANDE	2044	PROGRAM*	6/06	6/14	12/18	12/44 L				
COMANDER	2046	PROGRAM*	12/44	12/46 L						
COMANDE1	2045	PROGRAM*	12/45 L	12/49	13/01					
COMAND1	1624	PROGRAM*	6/26	6/53 L						
COMAND10	1743	PROGRAM*	9/19	9/22	9/42	9/45	9/50 L			
COMAND11	1751	PROGRAM*	10/02	10/11 L						
COMAND2	1634	PROGRAM*	6/30	7/14 L						
COMAND3	1666	PROGRAM*	6/50	7/11	7/26	7/33	7/42	7/53 L		
COMAND3A	1672	PROGRAM*	8/04	8/11 L						
COMAND4	1644	PROGRAM*	6/20	7/29 L						
COMAND5	1654	PROGRAM*	7/31	7/35 L						
COMAND5A	1662	PROGRAM*	7/36	7/45 L						
COMAND5B	1660	PROGRAM*	7/40 L	7/49	7/51					
COMAND6	1701	PROGRAM*	8/29 L	10/09						
COMAND7	1726	PROGRAM*	9/10	9/12	9/15	9/16	9/24 L			
COMAND8	1735	PROGRAM*	9/33	9/37 L						
COMJTB	2034	PROGRAM*	12/19	12/31 L						
COMLINE	1460	PROGRAM*	4/33 L	11/04 S	11/17 S	11/33				
COMMAND	1566	PROGRAM*	6/01 L	12/03	12/45	14/44	16/19			
			10/12	12/05	14/04	15/27	31/36			
COMTAB	2024	PROGRAM*	12/15	12/22 L						
CONVNUM	0	EXTERNAL*	6/23	6/32	7/01	7/30	7/38			
			6/28	6/34	7/15	7/33	26/24			
COUNT	1	PROGRAM*	3/14 L	8/23 S	10/04					
CRBLOCK	131	PROGRAM*	4/12 L	14/20	23/31	23/44				
CURLIN	105	PROGRAM*	3/52 L	20/44	21/07 S					
C.READ	0	EXTERNAL*	4/01							
C.CAPIN	0	EXTERNAL*								
C.CBLK	0	EXTERNAL*								
C.CL.OP	0	EXTERNAL*	4/03	4/06	4/08	4/13	4/19	4/48	29/50	
			4/04	4/07	4/12	4/16	4/45	29/49	29/51	
C.DMPSC	0	EXTERNAL*	29/49	29/50	29/52					
C.DUMDF	0	EXTERNAL*	4/08	4/13	4/16	4/19	14/24	29/51	31/25	31/30
C.GETEF	0	EXTERNAL*								
C.GETFV	0	EXTERNAL*								
C.INI	0	EXTERNAL*	4/46	4/48						

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C.MASTC	0	EXTERNAL*	4/45						
C.READR	0	EXTERNAL*							
C.RETOR	0	EXTERNAL*							
C.SCRNF	0	EXTERNAL*	15/06	16/06	30/41				
C.SELF	0	EXTERNAL*							
C.SENDE	0	EXTERNAL*							
C.TDRUF	0	EXTERNAL*	30/12						
C.WRITE DETACH	130	PROGRAM*	4/15 L	23/28	23/47				
DEATCH	0	EXTERNAL*	4/19						
DEATCH	0	EXTERNAL*	4/19						
DEATCH	0	EXTERNAL*	29/15						
DEATCH	0	EXTERNAL*	29/30						
DEATCH	0	EXTERNAL*	4/47	29/48					
DEATCH	0	EXTERNAL*	4/47						
DISPLAER	2051	PROGRAM*	12/48	12/51 L					
DISPLAY	2122	PROGRAM*	12/48	14/47 L					
DISPLAYE	2050	PROGRAM*	12/48 L	14/49	14/51	16/03	16/05		
DISPLAYE	2130	PROGRAM*	12/48 L	14/49 L					
DISPLAYS	2145	PROGRAM*	14/12 L	14/22					
DSCPA	19025	PROGRAM*	14/22 L	14/22	31/23	31/31			
DTAD	137	PROGRAM*	4/16	23/26 S	23/45	23/55 S			
DUMPFN.	3111	PROGRAM*	31/26	31/47 L					
EC:CIN	0	EXTERNAL*	4/44						
EC:SEVF	0	EXTERNAL*	4/44						
EC:SEVH	0	EXTERNAL*	4/44						
EC:STON	0	EXTERNAL*	4/44						
EC:SEV	0	EXTERNAL*	4/44						
EC:WRYT	0	EXTERNAL*	4/44						
EJECT	2172	PROGRAM*	18/29	18/19 L					
EJECT2	2201	PROGRAM*	18/21	18/30 L					
EJECT3	2204	PROGRAM*	18/22	18/40 L					
EJECTS	2203	PROGRAM*	18/36	18/37 L					
ERRORM	2621	PROGRAM*	14/28	27/13	27/32	27/52	28/20	29/20 L	29/40
FADRES	32	PROGRAM*	3/41 L	8/26 S	9/51				
FBIFF	146	PROGRAM*	4/09	4/20 L	14/19 S	23/12 S			
FILAD	121	PROGRAM*	4/08 L	23/22	23/36 S	24/11			
FIN	2056	PROGRAM*	14/12	14/14 L					
FIN1	2056	PROGRAM*	14/12	14/14 L					
FIN1A	2070	PROGRAM*	14/14 L	14/21					
FIN2	2073	PROGRAM*	14/18	14/20 L					
FIN3	2075	PROGRAM*	14/19	14/22 L					
FLASYS	16	PROGRAM*	3/28 L	6/12	26/29				
FORM	0	EXTERNAL*	9/37						
GETCOMH	1754	PROGRAM*	11/13 L	11/29 L					
GETCOMEM	2058	PROGRAM*	12/15	12/53 L					
GETCOM1	1763	PROGRAM*	11/14	11/17 L					
GETCOM10	2020	PROGRAM*	11/10	12/13 L					
GETCOM11	2021	PROGRAM*	12/11	12/15 L					
GETCOM2	1765	PROGRAM*	11/21 L	11/26					

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GETCOM3	1770	PROGRAM*	11/24	11/29 L					
GETCOM4	1772	PROGRAM*	11/24	11/45	11/48				
GETCOM4A	1777	PROGRAM*	11/25 L	12/01					
GETCOM8	2001	PROGRAM*	11/40	11/50 L					
GETCOM9	2014	PROGRAM*	11/38	12/08 L					
GT10CH	2005	PROGRAM*	11/44	12/04 L					
GT10CHM	2011	PROGRAM*	12/04	12/07 L					
GT6P	2007	PROGRAM*	12/02	12/05 L					
HELLO	3074	PROGRAM*	31/05	31/40 L					
IAD	174	PROGRAM*	3/45 L	8/32 S	9/27				
IFLAG	27	PROGRAM*	3/38 L	6/16 S	7/45	7/53	8/47	9/08	9/28
IN	34	PROGRAM*	3/43 L	8/44 S	9/13	9/26	20/32 S		
INIOPEN	2720	PROGRAM*	29/49 L	29/51					
INIT	2713	PROGRAM*	29/48 L	29/52					
IOUT	60	PROGRAM*	3/44 L	9/30	18/29 S	19/11 S	20/33 S	22/05	
KEYGETF	111	PROGRAM*	4/03 L	15/12 S	15/23				
KEYHANG	107	PROGRAM*	4/02 L	11/13	15/11 S				
LASTOP	1550	PROGRAM*	4/42 L	25/53	27/21	27/40	28/06		
LINEOUT	2264	PROGRAM*	9/44	18/33	19/13	22/01 L			
LINOUT1	2271	PROGRAM*	22/14 L	22/25	22/28				
LINOUT1A	2272	PROGRAM*	22/17 L	22/50					
LINOUT10	2346	PROGRAM*	22/17	22/53	24/02 L	24/04			
LINOUT11	2356	PROGRAM*	24/09	24/15 L					
LINOUT2	2300	PROGRAM*	22/19	22/30 L					
LINOUT3	2304	PROGRAM*	22/33	22/36 L	22/43	22/46			
LINOUT4	2311	PROGRAM*	22/41	22/48 L					
LINOUT4A	2313	PROGRAM*	22/39	22/52 L					
LINOUT6	2315	PROGRAM*	22/24	22/32	22/49	22/53	23/05 L	24/04	
LINOUT7	2317	PROGRAM*	23/08	23/12 L	24/09				
LINOUT8	2323	PROGRAM*	23/18	23/21 L	23/52				
LINOUT81	2332	PROGRAM*	23/24	23/33 L					
LINOUT9	2340	PROGRAM*	23/35	23/44 L					
LINOUT91	2343	PROGRAM*	23/46	23/48 L					
LOCATAS	2623	PROGRAM*	25/35	29/21 L					
LOCATE	2357	PROGRAM*	8/43	25/01 L					
LOCATEL	2360	PROGRAM*	25/03 L	26/23					
LOCATEL0	2602	PROGRAM*	27/14	27/33	27/53	28/21 L			
LOCATE1	2373	PROGRAM*	25/18	25/23 L					
LOCATE2	2375	PROGRAM*	25/23	25/30 L					
LOCATE5	2604	PROGRAM*	25/26	28/27 L					
LOCATE6	2615	PROGRAM*	28/30	29/06 L					
LOCATE7	2616	PROGRAM*	26/44	29/03	29/10 L				
LOCB7	1546	PROGRAM*	4/40 L	25/02 S	29/14				
LOCLOOP	1706	PROGRAM*	8/42 L	9/05					
LOCLOOP1	1715	PROGRAM*	8/51	9/04 L					
LOOKUP	2157	PROGRAM*	6/06	6/14	12/18	17/15 L			
LOOKUP1	2160	PROGRAM*	17/16 L	17/20					
LOOKUP2	2163	PROGRAM*	17/19	17/22 L					
MODE	26	PROGRAM*	3/37 L	8/05	9/29	9/40	19/03	27/29	28/15
MODETR	11	PROGRAM*	6/09 S	8/52	9/31	18/19	27/08	27/48	
MODETBL	14	PROGRAM*	3/21 L	6/04					
MOUNTT	3076	PROGRAM*	3/25 L	6/07	11/08	14/10	14/37	14/52	20/01
		PROGRAM*	31/06	31/41 L					

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NSTATUS	5	PROGRAM*	3/18 L	8/39 S	9/53	26/08	26/12 S						
NTONTP	6	PROGRAM*	3/19 L	26/11	26/41 S								
OLDSIGN	1547	PROGRAM*	4/41 L	25/50	27/18	27/37	28/03						
OPEN	2722	PROGRAM*	29/50 L	31/29									
OUTSTAR	2212	PROGRAM*	9/23	19/03 L									
OUTSTAR1	2217	PROGRAM*	19/05	19/15 L									
OUTSTAR2	2222	PROGRAM*	19/06	19/18 L									
PAGE	3	PROGRAM*	3/16 L	18/25	18/31 S	22/02							
PARAM	0	EXTERNAL*	6/03	6/28	6/36	7/09 S	7/29	7/39	11/50 S	16/01			
			6/11	6/29	6/44	7/10 S	7/30	7/41 S	12/08 S				
			6/22	6/32	6/49 S	7/14	7/30	7/48	12/16				
			6/23	6/33	6/53	7/15	7/33	8/12	14/47				
			6/25	6/34	7/04	7/25 S	7/35	11/03 S	15/05				
PARMSK	3107	PROGRAM*	31/11	31/14	31/45 L								
RDERR	2644	PROGRAM*	29/29	29/34	29/36 L								
RDETB	2630	PROGRAM*	27/13	27/32	29/28 L								
READBUF	0	EXTERNAL*	27/13	27/32	27/52	28/26	31/17						
READETB	2675	PROGRAM*	14/28	29/40	29/41 L	31/17							
READINI	1555	PROGRAM*	4/47 L	30/09	30/36 S	30/37							
READM	2403	PROGRAM*	25/47	25/50 L									
READM1	2426	PROGRAM*	26/04	26/05	26/06	27/08 L							
READNF	2407	PROGRAM*	26/08 L	27/28	27/46	28/13	29/40						
READNF1	2416	PROGRAM*	26/17	26/26 L									
READNF3	2422	PROGRAM*	26/31	26/34 L									
READNF9	2425	PROGRAM*	26/10	26/43 L									
READP	2463	PROGRAM*	25/46	27/18 L									
READP1	2470	PROGRAM*	27/25	27/26	27/29 L								
READY	1753	PROGRAM*	8/38	10/11	14/03	15/26	26/09						
			10/01	10/14 L	14/43	16/18	31/35						
READ2FAR	2637	PROGRAM*	25/09	29/33 L									
RECDID	4	PROGRAM*	3/17 L	28/06	31/22 S								
REO2FAR	2641	PROGRAM*	29/33	29/35 L									
RETURN	113	PROGRAM*	4/05 L	14/29									
ROTATE	2253	PROGRAM*	9/15	18/42	19/20	20/44 L							
ROTAT1	2255	PROGRAM*	20/47 L	21/02									
RWSIZE	1566	PROGRAM*	4/50 L	4/51 E	29/49								
SAVE	2145	PROGRAM*	12/37	16/01 L									
SCRBUF	1146	PROGRAM*	4/12	4/37	15/16	18/45	20/46						
			4/21 L	9/35	18/03	19/22 S	20/52						
SHFT8	22	PROGRAM*	3/31 L	8/01	8/48								
SKIPFM	2541	PROGRAM*	25/20	25/41	28/03 L								
SKIPFM1	2546	PROGRAM*	25/10	28/11	28/15 L								
SKIPFP	2507	PROGRAM*	25/19	25/44	27/37 L								
SKIPFP1	2513	PROGRAM*	25/44	27/45	27/48 L								
SKIPFNG	2372	PROGRAM*	25/21 L	27/09	27/30	27/46	28/16						
SKIPFB	2704	PROGRAM*	27/52	28/20	29/45 L								
SLOOP	2753	PROGRAM*	30/41 L	31/02									
STAR	2221	PROGRAM*	19/15	19/16 L	19/20								
START	2724	PROGRAM*	2/02 E	29/51 L									
START1	2750	PROGRAM*	30/30	30/34 L									
STATIN	1459	PROGRAM*	10/19 L	20/08 S	22/13 S	15/28	20/01 L	27/30	28/16	31/37			
STATUS	2232	PROGRAM*	12/04	12/46	14/45	16/20	27/09	27/49	29/35				

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STATUS4	2235	PROGRAM*	20/03	20/05 L							
STATUS4A	2236	PROGRAM*	20/08 L	20/10							
STATUS5	2241	PROGRAM*	20/14 L	20/19							
STATUS6	2244	PROGRAM*	20/15	20/21 L							
STOP	2057	PROGRAM*	12/34	14/01 L							
TRUFORG	0	EXTERNAL*	25/04	31/19							
TEMP	33	PROGRAM*	3/42 L	8/36 S	8/43						
TLOOP	2772	PROGRAM*	31/07 L	31/45	31/45	31/45	31/45	31/45	31/45	31/45	
TLOOPE	3100	PROGRAM*	31/11	31/14	31/42 L						
TRANSTB	0	EXTERNAL*	22/20								
TTY	2115	PROGRAM*	12/36	14/36 L							
TTY1	2120	PROGRAM*	14/40	14/43 L							
TYPEIN	0	EXTERNAL*	12/14								
TYPEOUT	0	EXTERNAL*	18/37	19/16	20/05	31/06	31/07				
T.FIRST	0	EXTERNAL*	14/27	27/11	27/50	28/18	29/38	31/10	31/16		
			25/04	27/12	27/51	28/19	29/39	31/12	31/19		
			27/10	27/31	28/17	29/37	31/09	31/13			
T.IN	0	EXTERNAL*	14/26	27/11	27/50	28/18	29/38	31/11			
			27/09	27/30	28/16	29/36	31/08	31/12			
T.LIMIT	0	EXTERNAL*	27/10	27/49	28/17	29/37	31/09	31/15			
			14/27	27/12	27/51	28/19	29/39	31/12			
			27/10	27/31	28/17	29/37	31/09	31/13			
T.TAPE	0	EXTERNAL*	27/11	27/50	28/18	29/38	31/10	31/16			
			29/32	29/32	29/32	29/44	29/44	29/44	29/44		
T.TAPEC	0	EXTERNAL*	29/32	29/32	29/32	29/44	29/44	29/44			
T.TAPER	0	EXTERNAL*	14/28	27/32	28/20	31/11	31/17				
			27/13	27/52	29/40	31/14					
T.TAPE9	0	EXTERNAL*	29/45	29/48	29/48	29/48	29/48	29/48	29/48		
T.TRESP	0	EXTERNAL*	25/04	31/19							
UPDATE	114	PROGRAM*	4/06 L	9/47	12/10	15/09 S	16/08	16/13	18/09	20/22	
WHAT	1553	PROGRAM*	4/45 L	4/48	30/10	30/13 S	30/39	30/43 S	30/52 S	30/52 S	
WHERE	1554	PROGRAM*	4/48 L	30/14 S	30/42 S	30/52 S	30/52 S				
WRITBUF	0	EXTERNAL*	30/26								
WRITEF	117	PROGRAM*	4/07 L	14/17	23/34						
WSCR	124	PROGRAM*	4/11 L	9/46	12/09	15/07 S	16/07	16/12	18/08	20/21	
YCORD	7140		4/22 D	4/28	4/28 D	4/28	4/28	4/28 D	4/28	4/28	
			4/28	4/28 D	4/28	4/28 D	4/28	4/28	4/28	4/28	
			4/28	4/28	4/28	4/28	4/28	4/28	4/28	4/28	
			4/28	4/28 D	4/28	4/28	4/28	4/28	4/28	4/28	
			4/28	4/28	4/28	4/28	4/28	4/28	4/28	4/28	
			4/28	4/28	4/28	4/28	4/28	4/28	4/28	4/28	
			4/28	4/28	4/28	4/28	4/28	4/28	4/28	4/28	
			4/28	4/28	4/28	4/28	4/28	4/28	4/28	4/28	
			4/28	4/28	4/28	4/28	4/28	4/28	4/28	4/28	
			4/28	4/28	4/28	4/28	4/28	4/28	4/28	4/28	
			4/28	4/28	4/28	4/28	4/28	4/28	4/28	4/28	
			4/28	4/28	4/28	4/28	4/28	4/28	4/28	4/28	
			4/28	4/28	4/28	4/28	4/28	4/28	4/28	4/28	
ZCFLAG	2	PROGRAM*	3/15 L	8/25 S	9/11	10/08 S	4/28	4/28 D	4/28		
ZDISPL	2164	PROGRAM*	14/14	14/42	15/05	18/01 L					
ZDISPL1	2165	PROGRAM*	18/03 L	18/07							
ZERO	2247	PROGRAM*	8/38	20/30 L							
ZEROL	2250	PROGRAM*	20/32 L	20/35							
ZFLAG	30	PROGRAM*	3/39 L	6/18 S	9/18	9/25 S					
ZLOOP	1716	PROGRAM*	9/08 L								

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ZLOOP1 1721 PROGRAM*

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