

		IDENT	NEWSYS
	000000	PROGRAM LENGTH	
		BLOCKS	
000000	002226	ABSOLUTE#	ABSOLUTE

```
*
*
*
XJ      MACRO      LOC
+      VFD        12/0130B,18/LOC,30/1
      SR7         **1
      JP          ERR
      ENDM

*
*
XJR      MACRO      LOC,RTNAUTH
+      VFD        12/0130B,18/LOC,12/1,18/2
      VFD        60/RTNAUTH
      SR7         **1
      JP          ERR
      ENDM

*
*
CALL     MACRO      LOC
+      SR7         **1
      JP          LOC
      ENDM

*
*
CX       MACRO      CAP,CX,NAME1,NAME2
CPNTR   EQU        CPNTR
      SET         CPNTR+1
      DATA      0L*NAME1,0L*NAME2
      ENDM

*
*
CX       MACRO      CBSS,CX,CNT
CPNTR   EQU        CPNTR
      SET         CPNTR+CNT
      ENDM

*
*
MCAP     MACRO      NAME
M.NAME  BSS        0
      EQU        -*
      VFD        1/1,29/C.NAME,30/Y.MAST
      ENDM

*
*
MXCAP    MACRO      NAME
+      VFD        1/1,29/C.NAME,30/Y.MAST
      ENDM

*
*
ITEMS    MACRO      A,B,C,D,E,F,G,H
      VFD        60/A
      IFC        NE,$$$
      VFD        60/B
```

```
IFC      NE,$$C$
VFD      60/C
IFC      NE,$$D$
VFD      60/D
IFC      NE,$$E$
VFD      60/E
IFC      NE,$$F$
VFD      60/F
IFC      NE,$$G$
VFD      60/G
IFC      NE,$$H$
VFD      60/H
ENDIF
ENDM
```

*
*

```
IFTEST  MACRO      LOC
        IFEQ      TESTFLG,1
        JP        LOC
        ENDIF
        ENDM
```

```
*
*
* BASIC MACRO
XSETXJ      MACRO      A,B,C,D,E
LOCALPXJ    SET        0
              IFC       NE,$$AS
              SX1       A
LOCALPXJ    SET        1
              IFC       NE,$$BS
              SX2       B
LOCALPXJ    SET        2
              IFC       NE,$$CS
              SX3       C
LOCALPXJ    SET        3
              IFC       NE,$$DS
              SX4       D
LOCALPXJ    SET        4
              IFC       NE,$$ES
              SX5       E
LOCALPXJ    SET        5
              ENDM
*
*
* FULL 10 PARAM VERSION
YSETXJ      MACRO      A,B,C,D,E,F,G,H,I,J
XSETXJ      A,B,C,D,E
SB2         5
CALL        SET
XSETXJ      F,G,H,I,J
ENDIF
SB2         LOCALPXJ
CALL        SET
ENDM
*
*
* STANDARD XJ CALL
DOXJ        MACRO      A,B,C,D,E,F,G,H,I,J
SRI         XJLOC
YSETXJ      A,B,C,D,E,F,G,H,I,J
XJ          XJLOC
ENDM
*
*
* MULTI LINE VERSIONS
INITIAL SET UP LINE
SETXJ       MACRO      A,B,C,D,E,F,G,H,I,J
SRI         XJLOC
YSETXJ      A,B,C,D,E,F,G,H,I,J
```

```
ENDM
*
*
*
XDOXJ MACRO A,B,C,D,E,F,G,H,I,J
YSETXJ A,B,C,D,E,F,G,H,I,J
XJ XJLOC
ENDM
```

```
*
*
*
MSG      MACRO      LINE
LOCAL    XLINE
SBI      XLINE
CALL     TYPE
RMT
XLINE    DIS        ,.LINE.
RMT
ENDM
```

```
*
*
*
PACK     MACRO      LINE
LOCAL    XLINE
SBI      XLINE
SB2      100
CALL     PACK
RMT
XLINE    DIS        ,.LINE.
RMT
ENDM
```

```
*
*
*
DMPWD    MACRO      WD
SAI      WD
CALL     DMPWD
ENDM
```

*
*
*

TAPEACT	MACRO	CODE
	SX3	CODE
	CALL	TAPEACT
	ENDM	

*
*

TAPECHK	MACRO	ITEMS,VALUES,FAIL
	SX1	ITEMS
	SX2	VALUES
	SX3	FAIL
	CALL	TAPECHK
	ENDM	

SUBPROCESS DESCRIPTOR FOR BEAD			
0000000	USERNM	MICRO	1...S.
0000000	TESTFLG	EQU	0 1 CAUSES TEST CASE TO OCCUR
0000000		ORG	0
0000000		BSSZ	2
0000002 16052723312300000000		DATA	0LNEWSYS,0LCLASS CLASS CODE
0000004 000000000000000000000003		DATA	3 NUMBER OF MAP ENTRIES
0000005 000000000000000000000017		DATA	15 COMPILED MAP SIZE
0000006		ITEMS	FL FIELD LENGTH
0000007		ITEMS	MAIN ENTRY POINT
0000010		ITEMS	CLSTSZ SIZE OF CLIST
0000011		ITEMS	SCRSZ SCRATCH FILE SIZE
0000012		ITEMS	0,0
0000014		ITEMS	0,0,SCRSZ,0
0000020		ITEMS	0LNEWSYS,0L#USERNM#
0000022		ITEMS	SCRSZ,SCRSZ,FL-SCRSZ,1
0000026 77777777777777777776		DATA	-1
0000001	Y.BEAD	EQU	1
0000016	CPNTR	SET	14
0000027	M.CAPIN	CAP	CAPIN,OPERATE
0000031	M.GETE	CAP	HANG,OPERATE
0000033	M.READ	CAP	READ,OPERATE
0000035	M.SENDE	CAP	SENDE,OPERATE
0000037	M.WRITE	CAP	WRITE,OPERATE
0000041	M.RETURN	CAP	RETURN,OPERATE
0000043	M.CHKBLK	CAP	CHKBLK,OPERATE
0000045	M.REDSHP	CAP	REDSHP,OPERATE
0000047	Y.MAST	CAP	SELF,OPERATE
0000051	Y.CODE	CAP	NEWSYS,#USERNM#
0000053	Y.RESTOR	CAP	RESTOR,OPERATE
0000055	Y.SAVE	CAP	SAVE,OPERATE
0000057 00000000000000000000		DATA	0

NEWSYS NEWSYS
LOW CORE

CREATE A NEW SYSTEM TAPE

01 JAN 84 00:00:00 PAGE NO. 9

000060
000060
000060
000060
000060

Y.TFILE CBSS 1
Y.TREQ CBSS 1
Y.TRESP CBSS 1
Y.FLLIST CBSS 1
Y.CFILE CBSS 1

#

0000037 CLSTSZ EQU CPNTR

000060

XJLOC BSSZ 20

000104

REGAREA BSSZ 20B

```

*
*
*
*
* DATA FOR FILE LIST AND NAMED FILE
000124 LSTPNT BSSZ 1 NEXT LOCATION IN LIST
*
000125 FILELST BSSZ 4 BEAD ENTRY FOR FILE LIST
000131 ITEMS Y.FLLIST
*
000132 FILENM BSSZ 4 BEAD ENTRY FOR CURRENT FILE
000136 ITEMS Y.CFILE
*
*
* B7 SAVE CELLS
*
000137 WRRCD7 BSSZ 1
000140 PUTFILE7 BSSZ 1
000141 NXTFILE7 BSSZ 1
000142 PUTPPU7 BSSZ 1
*
*
*
000143 BLKSZ BSSZ 1 SIZE OF BLOCK IN CURRENT FILE
000144 FILEPNT BSSZ 1 POSITION IN CURRENT FILE
*
*
0000005 SHPCNT EQU 5
*
000145 SHPBUF BSSZ SHPCNT CURRENT FILE SHAPE
*
*
* SCOPE FILE DATA
*
000152 SCPBANNR BSSZ 1 SCOPE LOGICAL RECORD BANNER WORD
000153 RDCDNT BSSZ 1 NO. WDS LEFT IN CURRNT LOGICAL RCD

```

		#	DATA FOR TTY PACKAGE	
000154		DMPWDX1	BSSZ	2
000156		DMPWDX2	BSSZ	1
000157	000000000000000000161	OUTPOINT	VFD	60/OUTBUF
000160		OUTCNT	BSSZ	1
000161		OUTBUF	BSSZ	16
000201		TYPEOUT7	BSSZ	1
000202		TYPE7	BSSZ	1

		#			
		#		RETURN LOCATIONS	
		#			
000203		TAP7A	BSSZ	1	
000204		TAP7B	BSSZ	1	
000205		WRITETP7	BSSZ	1	
000206		INITAPE7	BSSZ	1	
		#			
		#		OTHER STUFF	
		#			
000207		TDVCX	BSSZ	1	INDEX IN MASTER CLIST OF TAPE OBJECTS
000210		TACT	BSSZ	1	CURRENT ACTION
000211		TAPERSP	BSSZ	1	LATEST RESPONSE
000212		TAPEREQ	BSSZ	1	LATEST REQUEST
000213	00010001100100000000	TAP7CDE	VFD	1/0,11/1,12/1,12/513,12/0,12/0	SKELLETON TAPE REQ
000214					SIGN BIT WILL CHANGE
		#			
		#			
		#		DATA BLOCK	COUNT IN FST WORD
		#			
000214		TPEDATA	BSSZ	513	

```

*
*
*
001215      SCRSZ      BSS      0      END OF SCRATCH AREA
*
*
*
001215      RESTORE   ITEMS    Y.RESTOR,REGAREA
001217      SAVE      ITEMS    Y.SAVE,REGAREA
001221      BEAD      ITEMS    Y.BEAD
001222      READSELF  ITEMS    M.READ,Y.CODE,0,0,SCRSZ
*
*
*
001227      M.IN+FL   BSS      0
                        EQU      -#
001227 40000000020000000026 +      VFD      1/1,29/2,30/Y.MAST

```

```
*
*
*
*
*
001230
001232 10644 10755 5160000125
001233 5170000126
001235
001237
001240
001241
001242
001245 6110000125 66600
001247 6160000001
001251 76600 5160000124
*
001253
001254
*
001256
001257 0301001262
001261 0200001256
*
001262
001264
001266
001270
001272
001274
001275
001277
*
001304
*
001306
001310
001311
001313
```

MAIN CODE

MAIN

XJ READSELF
BX6 X4
BX7 X5
SA6 FILELST
SA7 FILELST+1
CALL TYPESET
MSG (NEWSYS HERE)
CALL INITAPE
CALL GETTAPE
CALL SETTAPE
TAPECHK 0004B,0004B,MAIN3 CHECK FOR WRITE RING
SB1 FILELST
SB6 B0
CALL BEADUSER OBTAIN FILE LIST FROM BEAD
SB6 1
CALL BEADUSER RETURN IT
SX6 B0
SA6 LSTPNT INITIALIZE POINTER

CALL NXTFILE OBTAIN PPU FILE
CALL PUTPPU WRITE PPU CODE ON TAPE
TAPEACT 15B (FILE MARK)

MAIN1

CALL NXTFILE GET NEXT FILE
ZR X1,MAIN2 ALL DONE
CALL PUTFILE WRITE FILE ON TAPE
JP MAIN1

MAIN2

TAPEACT 15B (END FILE)
TAPEACT 15B (END FILE)
TAPEACT 15B (END FILE)
TAPEACT 15B (END FILE)
TAPEACT 11B (REWIND UNLOAD)
CALL PUTTAPE
MSG (FILES WRITTEN OK)
DOXJ M.RETURN

MAIN3

FDONE

TAPEACT 11B (REWIND UNLOAD)
CALL PUTTAPE
MSG (ABORT)
DOXJ M.RETURN

```

*
*
*
*
WRITE OUT PPU FILE
001320 76670 5160000142 76600 PUTPPU SX6 B7
SA6 PUTPPU7
SX6 B0
SA6 FILEPNT SET POINTER
*
001322 PUTPPU1 DOXJ M.READ,Y.CFILE,-FILEPNT,SCPBANNR,1
001333 7263000001 SX6 X3+1
5160000144 SA6 FILEPNT STEP POINTER
001334 5110000152 SA1 SCPBANNR PICK UP SCOPE BANNER WORD
73610 SX6 X1 NEXT RECORD COUNT
001335 0306001346 ZR X6,PUTPPU4 ZERO , ALL DONE
5160000153 SA6 RDCNT
*
001336 5110000153 PUTPPU2 SA1 RDCNT PUT OUT NEXT PHYSICAL RECORD
7261776777 SX6 X1-1000B
001337 0336001343 NG X6,PUTPPU3 PUT OUT SHORT PHYSICAL RCD
5160000153 SA6 RDCNT
001340 7150001000 SX5 1000B
CALL WRITERCD
JP PUTPPU2
*
001343 73510 PUTPPU3 SX5 X1
CALL WRITERCD WRITE OUT FINAL PORTION OF A RECORD
JP PUTPPU1
*
001346 5110000142 PUTPPU4 SA1 PUTPPU7 ALL DONE
63710 SB7 X1
JP B7
001347 0270000000

```


Address	Hex Data	Assembly Code	Comment
001350	76670 5160000140 76600	PUTFILE SX6 SA6 SX6 SA6 DOXJ SA1 SB1 SA1 SX6 SA6	B7 PUTFILE7 B0 FILEPNT SET POINTER M.REDSHP,Y.CFILE,SHPBUF,SHPCNT SHPBUF X1 A1+B1 PICK UP BLOCK SIZE X1 BLKSZ
001351	5160000144		
001360	5110000145 63110 54111		
001361	73610 5160000143		
001362	5130000144 5140000143	PUTFILE1 SA3 SA4 SX5	FILEPNT BLKSZ 1000B
001363	7150001000		
001364		PUTFILE2 DOXJ NZ IX3 IX5 ZR PL	M.CHKBLK,Y.CFILE,X3 X6,PUTFILE4 X3+X4 X5-X4 X5,PUTFILE3 X5,PUTFILE2
001372	0316001377 36334 37554		SCAN BLOCKS FILE BLOCK GONE
001373	0305001374 0325001364		
001374	7150001000	PUTFILE3 SX5 CALL JP	1000B ALL NECESSARY BLOCKS PRESENT WRITERCD PUTFILE1
001376	0200001362		
001377	63750 67707 7157001000	PUTFILE4 SB7 SB7 SX5 CALL	X5 -B7 1000B+B7 COMPUT SHORT RECORD SIZE WRITERCD
001400			
001401	5110000140 63710	SA1 SB7 JP	PUTFILE7 X1 B7
001402	0270000000		

```

*
*
*
*
*
001403 76670          WRITERCD SX6      B7
          5160000137      SA6      WRRCD7
001404 0305001416      ZR      X5,WRRCD1      ZERO COUNT
          36635          DOXJ      M,READ,Y.CFILE,-FILEPNT,TPEDATA+1,X5
          5160000144      IX6      X3+X5
001416 73650          WRRCd1 SA6      FILEPNT
          5160000214      SX6      X5
          63710          SA6      TPEDATA
001420 5110000137      CALL      WRITETP
          63710          SA1      WRRCD7
001421 0270000000      SB7      X1
          JP      B7

```

```

*
*
*
*
001422 76670          5160000141  NXTFIL  SX6      B7
                                SA6      NXTFIL7
                                DOXJ     M.READ,Y.FLLIST,-LSTPNT,FILENM,2
001434 7263000002      5160000124  SX6      X3+2
                                SA6      LSTPNT   STEP POINTER
001435 5110000132      0301001444  SA1      FILENM   CHECK FOR END MARKER
001436 6110000132      66600       ZR       X1,NXTFIL1
                                SB1      FILENM
                                SB6      B0
                                CALL     BEADUSER GET FILE FROM BEAD
001440 6160000001      63710       SB6      1
                                CALL     BEADUSER RETURN TO BEAD
001442 5110000141      63720       SA1      NXTFIL7
                                SB7      X1
001443 0270000000      63720       JP       B7
*
001444 5120000141      63720       NXTFIL1 SA2      NXTFIL7
                                SB7      X2
001445 0270000000      63720       JP       B7

```

```

001446                                     *
001450      5111000004                     *
                                           *
                                           *
                                           *
                                           *
BEADUSER    XJ          SAVE
              SA1        B1+4
              SB7        X1
              SA1        B1
              SA2       B1+1
              NE         B6,B0,BEADUS1
001452      0311001455                 NZ     X1,BEADUS1
              MSG        (ATTEMPT TO GET FILE WITH ZERO NAME FROM BEAD)
001454      0200001306                 JP     FDONE
                                           *
001455      BEADUS1    XJ          BEAD
001457                                XJ          RESTORE
001461      0270000000                JP          B7

```

```
*
*
* SEND AN ALREADY FORMED LINE TO TTY
001462 76670          TYPEOUT SX6 B7
          5160000201 SA6 TYPEOUT7
001463 5110000160 SA1 OUTCNT
          7261000001 SX6 X1+1
001464 54610 SA6 A1
          6110000157 SB1 OUTPOINT
001465 6160000005 SB6 5
          XJ BEAD
001470 CALL TYPESET
001471 5110000201 SA1 TYPEOUT7
          63710 SB7 X1
001472 0270000000 JP B7

*
* SET UP OUTPUT LINE BUFFER
001473 76600          TYPESET SX6 B0
          5160000160 SA6 OUTCNT
001474 7160000011 SX6 11B INDICATE FIRST OF LINE
          20607 LX6 7
001475 7160000155 SX6 155B CR
          20661 LX6 7*7 POSITION DATA
001476 5110000157 SA1 OUTPOINT
          53610 SA6 X1 STORE 1ST WORD
001477 0270000000 JP B7

*
* SEND A LINE TO TTY
* B1 PPOINTS TO 1ST WORD OF DISPLAY CODE
001500 76670          TYPE SX6 B7
          5160000202 SA6 TYPE7
001501 6120000144 SB2 100
          CALL PACK
001503 CALL TYPEOUT
          CALL TYPE7
001504 5110000202 SA1 TYPE7
          63710 SB7 X1
001505 0270000000 JP B7
```

РАСК 3

80

001506	5110000157	
		5120000160
001507	63620	
	43071	
		15320
		20271
001510	63310	
	63323	
		56230
		20204
001511	63430	
001512	0440001514	
		20207
001513	6144777776	
		0200001512
001514	20207	
	43465	
		11242
		20265
001515	63430	
	6150000010	
		67454
001516	56110	
	6150000012	
		43066
001517	43465	
001520	0420001533	
		20106
		15310
001521	0303001533	
		6166000001
001522	20207	
	11242	
		5233001540
001523	12223	
	6144777776	
001524	0540001527	
		10622
		56630
001525	6133000001	
		76200

001526	6140000010		SB4	8
001527	6155777776	* PACK4	SB5	B5-1
	6122777776		SB2	B2-1
001530	0550001520		NE	B5,B0,PACK3
	6150000012		SB5	10
001531	6111000001		SB1	B1+1
	56110		SA1	B1
001532	0200001520		JP	PACK3
001533	76660	* PACK5	SX6	B6
	5160000160		SA6	OUTCNT
001534	7130000155		SX3	1558 (CR)
001535	20207	* PACK6	LX2	7
	12223		Bx2	x2+x3
	6144777776		SR4	B4-1
001536	0540001535		NE	B4,B0,PACK6
	10622		BX6	x2
	56630		SA6	B3
001537	0270000000		JP	B7

```
*  
*  
*  
001540 00000000000000000000  
001550 000000000000000000050  
001560 000000000000000000060  
001570 000000000000000000070  
001600 000000000000000000025  
001610 000000000000000000017  
001620 000000000000000000003  
001630 000000000000000000076
```

OUTTRANS	DATA	
	DATA	00B,41B,42B,43B,44B,45B,46B,47B
	DATA	50B,51B,52B,53B,54B,55B,56B,57B
	DATA	60B,61B,62B,63B,64B,65B,66B,67B
	DATA	70B,71B,72B,20B,21B,22B,23B,24B
	DATA	25B,26B,27B,30B,31B,13B,15B,12B
	DATA	17B,10B,11B,04B,35B,00B,14B,16B
	DATA	03B,73B,75B,32B,07B,77B,01B,06B
	DATA	76B,02B,34B,36B,40B,37B,76B,33B


```
*
*
*
*
001640 20136 OCTAL LX1 30
        6160000012 SB6 10
        76600 SX6 B0
001641 43071 MX0 60-3
*
001642 20103 OCTAL1 LX1 3
        15210 BX2 -X0*X1
        0312001647 NZ X2,OCTAL3
001643 7120000055 SX2 55B
        20606 LX6 6
        12626 BX6 X2+X6
001644 6166777776 SB6 B6-1
        0560001642 NE B6,B0,OCTAL1
001645 0270000000 JP B7
*
001646 20103 OCTAL2 LX1 3
        15210 BX2 -X0*X1
001647 7222000033 OCTAL3 SX2 X2+33B
        20606 LX6 6
        12626 BX6 X2+X6
001650 6166777776 SB6 B6-1
        0560001646 NE B6,B0,OCTAL2
001651 0270000000 JP B7
```

CONVERT BOTTOM HALF OF X1 TO LEFT BLANK FILLED OCTAL IN X6
USES X0, X2, X6, B6

```
*
*
*
*
001652 43071 DMPWD MX0 60-3
        6120000002 SB2 2
001653 6130000154 SB3 DMPWDX1
001654 6110000012 DMPWD1 SB1 10
        76600 SX6 B0
001655 20103 DMPWD2 LX1 3
        15710 BX7 -X0*X1
        7277000033 SX7 X7+33B
001656 20606 LX6 6
        12667 BX6 X6+X7
        6111777776 SB1 B1-1
001657 0501001655 NE B0,B1,DMPWD2
        56630 SA6 B3
001660 6133000001 SB3 B3+1
        6122777776 SB2 B2-1
001661 0502001654 NE B0,B2,DMPWD1
        6110000154 SB1 DMPWDX1
001662 6120000024 SB2 20
        76670 SX6 B7
001663 5160000156 SA6 DMPWDX2
        CALL PACK
001665 5110000156 SA1 DMPWDX2
```

CONVERTS X1 TO OCTAL, PLACE IN OUTPUT BUFFER

001666	0270000000	63710	SB7	X1
			JP	B7
		*		
		*		
		*		CONVERT ZEROS TO BLANKS FROM X1 TO X6
		*		USES X0, X2, X6, B6
001667	6160000012	BLANKS	SB6	10
	43066		MX0	60-6
	76600		SX6	B0
001670	20106	BLANKS1	LX1	6
	15210		BX2	=X0*X1
	0312001672		NZ	X2, BLANKS2
001671	7120000055		SX2	55B
001672	20606	BLANKS2	LX6	6
	12662		BX6	X6+X2
	6166777776		SB6	B6-1
001673	0560001670		NE	B6, B0, BLANKS1
	0270000000		JP	B7

```

*
*
*
*
INITIALIZE TAPE CAPABILITIES
001674 76670 5160000206 INITAPE SX6 B7
SA6 INITAPE7
DOXJ M.READ,M.INTFL,1,TDVCX,1
001706 DOXJ M.CAPIN,Y.MAST,-TDVCX,Y.TFILE
001714 DOXJ M.CAPIN,Y.MAST,X3+1,Y.TREQ
001722 DOXJ M.CAPIN,Y.MAST,X3+1,Y.TRESP
001730 5110000206 SA1 INITAPE7
63710 SB7 X1
001731 0270000000 JP B7

*
*
*
*
OBTAIN TAPE PRIVILEGES
001732 76670 GETTAPE SX6 B7
IFTES B7
SA6 TAPE7A
XJ SAVE
001735 6160000010 SB6 B LOCK UP SYSTEM
*** XJ READ
XJ RESTORE

*
GETTAPE1 DOXJ M.SENDE,Y.TREQ,-TMARK ( SPCL MARKER EVNT )
SX6 X6-3
NG X6,GETTAPE2 EVENT ACTUALLY SENT
DOXJ M.GETE,Y.TRESP
DOXJ M.GETE,Y.TRESP
001761 0200001740 JP GETTAPE1

*
GETTAPE2 DOXJ M.GETE,Y.TRESP
SA7 TAPERSP
MX0 60-11
BX7 -X0*X7 ( GET SEQ NO. )
SX1 TPCHKSQ
IX1 X7-X1
001771 0311001762 NZ X1,GETTAPE2 HAVENT GOT IT YET

*
SA1 TAPE7A
001772 63710 SB7 X1
0270000000 JP B7

*
*
*
*
SPECIAL MARKER EVENT FOR CLEARING TAPE CHANNELS
0002532 TPCHKSQ EQU 2532B
*
001773 25320001100100000100 TMARK VFD 1/0,11/TPCHKSQ,12/1,12/513,12/0,12/100B
001774

*
*
*
*
RETURN TAPE PRIVILEGES

```

001774
001776
001776 6160000011

002001 0270000000

*
PUTTAPE

XJ
IFTEST
SB6
XJ
XJ
JP

SAVE
B7
9
BEAD
RESTORE
B7

*
*
*
*

PLACE TAPE IN DESIRED STATUS

002002 76670
5160000203

SETTAPE

SX6

B7

SA6

TAPE7A

TAPEACT

058

(CLEAR)

002005

TAPEACT

01B

(BINARY)

002007

TAPEACT

10B

(REWIND)

002011

TAPEACT

03B

(556 BPI)

002013 5110000203

SA1

TAPE7A

63710

SB7

X1

002014 0270000000

JP

B7

```

#
#
#
#
#
THIS CODE EXECUTES A TAPE ACTION
#
002015 76670 5160000204 10633 TAPEACT SX6 B7
          SA6 TAPE7B
          BX6 X3
002016 5160000210 SA6 TACT
          IFTEST TAPEACT5
#
002017 5110000213 12613 TAPEACT1 SA1 TAPECODE
          BX6 X1+X3
          SA6 TAPEREQ
          DOXJ M.SENDE,Y.TREQ,-TAPEREQ
          DOXJ M.GETE,Y.TRESP
002026 5170000211 SA7 TAPERSP
002033 0357002037 OR X7,TAPEACT3 REQUEST IGNORED
002034 0337002037 NG X7,TAPEACT3 ERROR RESPONSE
#
002035 5110000204 63710 TAPEACT2 SA1 TAPE7B
          SB7 X1
          JP B7
#
002037 5110000213 43001 13601 TAPEACT3 SA1 TAPECODE FLIP ERROR RECOVERY BIT
          MX0 1
          BX6 X0-X1
          SA6 A1
          PL X7,TAPEACT4 REMAKE REQUEST IF IGNORED
#
002041 5110000211 20160 SA1 TAPERSP
          LX1 60-12
          SX0 3
          BX1 X0*X1
          NZ X1,TAPEACT4 RE MAKE REQUEST IF REJECTED
#
002046 0200002035 TAPECHK 4001B,0001B,TAPEACT4 REMAKE RQST ON SOME ERRORS
          JP TAPEACT2
#
002047 5130000210 0200002017 TAPEACT4 SA3 TACT REMAKE REQUEST
          JP TAPEACT1
#
#
#
#
TEST CASE ONLY
#
002050 TAPEACT5 PACK (TAPEACT )
002052 DMPWD TACT
002054 MSG ( )
002056 5110000204 63710 SA1 TAPE7B
          SB7 X1
          JP B7
002057 0270000000

```

```

*
*
*
*
*
*
*
*
002060 5140000211      TAPECHK  SA4  TAPERSP
                        IFTEST  B7
                        LX4    60-24
                        BX4    X4-X2
                        BX4    X1-X4
                        NZ     X4,TAPECHK1
                        JP     B7
*
002061 11414           20444 13442
                        0314002063
002062 0270000000
*
002063 63730           TAPECHK1 SB7  X3
                        JP     B7
                        0270000000

```

ADDRESS	DATA	INSTR	OP1	OP2	COMMENT
					PERFORM WRITE ON TAPE
					WORD COUNT AT TPEDATA
					DATA START AT TPEDATA+1
002064	76670	WRITETP	SX6	B7	
	5160000205		SA6	WRITETP7	
			IFTEST	WRITETPX	
002065	5110000214		SA1	TPEDATA	
	10611		BX6	X1	
	20102		LX1	2	
002066	36616		IX6	X1+X6	BYTE COUNT
	0316002070		NZ	X6*WRITETP2	
002067	7160000004		SX6	4	
002070	54610	WRITETP2	SA6	A1	
			DOAJ	M.WRITE,Y.TFILE,B0,TPEDATA,513	
002101			TAPEACT	102B	
002103	0327002134	WRITETP1	PL	X7,WRITETPZ WRITE WAS OK	
			TAPECHK	40B,00B,WRITETPE	(END OF TAPE)
002106			TAPEACT	12B	(BACK SPACE)
002110			TAPEACT	16B	(SKIP BAD SPOT)
002112			TAPECHK	2000B,0000B,WRITETPB	PARITY CHECK
002115			MSG	(BAD SPOT SKIPPED)	
002117			TAPEACT	102B	(WRITE AGAIN)
002121	0200002103		JP	WRITETP1	
002122		WRITETPE	MSG	(END OF TAPE, SORRY)	
002124	0200002130		JP	WRITETPY	
002125		WRITETPB	MSG	(BAD SPOT CAN NOT BE SKIPPED, SORRY)	
002127	0200002130		JP	WRITETPY	
002130		WRITETPY	TAPEACT	11B	(REWIND, UNLOAD)
002132			CALL	PUTTAPE	
002133	0200001306		JP	FDONE	
002134	5110000205	WRITETPZ	SA1	WRITETP7	
	63710		SB7	X1	
002135	0270000000		JP	B7	
					TEST CAS ONLY

002136		*	WRITETPX	PACK	(WRITE)
002140				DMPWD	TPEDATA
002142				MSG	()
002144	5110000205			SA1	WRITETP7
	63710			SB7	X1
002145	0270000000			JP	B7

[illegible]

```
*  
*  
* HERE  
*  
002225 000000000000000000001 FL DATA 1 END OF PROGRAM  
*  
*  
*  
000000 END  
  
2480 STATEMENTS 145 SYMBOLS
```

BEAD	0001221	20-01455, 21-01466, 34-02171
BEADUSER	0001446	15-01246, 15-01250, 19-01437, 19-01441
BEADUS1	0001455	20-01451, 20-01452
BLANKS1	0001670	26-01673
BLANKS2	0001672	26-01670
BLKSZ	0000143	17-01361, 17-01362
CLSTSZ	0000037	8-00010
CPNTR	0000037	8-00027, 8-00027, 8-00031, 8-00031, 8-00033, 8-00033, 8-00035, 8-00035, 8-00037, 8-00037, 8-00041, 8-00041, 8-00043, 8-00043, 8-00045, 8-00045, 8-00047, 8-00047, 8-00051, 8-00051, 8-00053, 8-00053, 8-00055, 8-00055, 9-00060, 9-00060, 9-00060, 9-00060, 9-00060, 9-00060
DMPWD	0001652	30-02053, 33-02141
DMPWDX1	0000154	25-01653, 25-01661
DMPWDX2	0000156	25-01663, 25-01665
DMPWD1	0001654	25-01661
DMPWD2	0001655	25-01657
ERR	0002166	15-01231, 15-01303, 15-01317, 16-01332, 17-01357, 17-01371, 18-01414, 19-01433, 20-01447, 20-01456, 20-01460, 21-01467, 27-01705, 27-01713, 27-01721, 27-01727, 27-01734, 27-01737, 27-01745, 27-01753, 27-01760, 27-01766, 28-01775, 28-02000, 30-02025, 30-02032, 32-02100, 34-02167, 34-02172
FDONE	0001306	20-01454, 32-02133
FILELST	0000125	15-01232, 15-01233, 15-01245
FILENM	0000132	19-01425, 19-01435, 19-01436
FILEPNT	0000144	16-01321, 16-01323, 16-01333, 17-01351, 17-01362, 18-01406, 18-01415
FL	0002225	8-00006, 8-00024
GETTAPE	0001732	15-01240
GETTAPE1	0001740	27-01761
GETTAPE2	0001762	27-01746, 27-01771
INITAPE	0001674	15-01237
INITAPE7	0000206	27-01674, 27-01730
LOCALPXJ	0000000	15-01300, 15-01314, 16-01327, 17-01354, 17-01366, 18-01411, 19-01430, 27-01702, 27-01710, 27-01716, 27-01724, 27-01742, 27-01750, 27-01755, 27-01763, 30-02022, 30-02027, 32-02075
LSTPNT	0000124	15-01251, 19-01424, 19-01434
MAIN	0001230	8-00007
MAIN1	0001256	15-01261
MAIN2	0001262	15-01257
MAIN3	0001304	15-01243
M.CAPIN	0000016	27-01706, 27-01714, 27-01722
M.CHKBLK	0000024	17-01364
M.GETE	0000017	27-01747, 27-01754, 27-01762, 30-02026
M.INTFL	7776550	27-01676
M.READ	0000020	14-01222, 19-01322, 18-01405, 19-01423, 27-01675
M.REDSHP	0000025	17-01352
M.RETURN	0000023	15-01277, 15-01313
M.SENDE	0000021	27-01740, 30-02021
M.WRITE	0000022	32-02071
NXTFILE	0001422	15-01252, 15-01256
NXTFILE1	0001444	19-01435
NXTFILE7	0000141	19-01422, 19-01442, 19-01444
OCTAL1	0001642	25-01644
OCTAL2	0001646	25-01650
OCTAL3	0001647	25-01642
OUTBUF	0000161	12-00157

OUTCNT	0000160	21-01463, 21-01473, 22-01506, 23-01533
OUTPOINT	0000157	21-01464, 21-01476, 22-01506
OUTTRANS	0001540	22-01522
PACK	0001506	21-01502, 25-01664, 30-02051, 33-02137
PACK1	0001512	22-01513
PACK1A	0001514	22-01512
PACK3	0001520	23-01530, 23-01532
PACK4	0001527	22-01524
PACK5	0001533	22-01520, 22-01521
PACK6	0001535	23-01536
PUTFILE	0001350	15-01260
PUTFILE1	0001362	17-01376
PUTFILE2	0001364	17-01373
PUTFILE3	0001374	17-01373
PUTFILE4	0001377	17-01372
PUTFILE7	0000140	17-01350, 17-01401
PUTPPU	0001320	15-01253
PUTPPU1	0001322	16-01345
PUTPPU2	0001336	16-01342
PUTPPU3	0001343	16-01337
PUTPPU4	0001346	16-01335
PUTPPU7	0000142	16-01320, 16-01346
PUTTAPE	0001774	15-01274, 15-01310, 32-02132
RDCNT	0000153	16-01335, 16-01336, 16-01337
READSELF	0001222	15-01230
REGAREA	0000104	14-01216, 14-01220
RESTORE	0001215	20-01457, 27-01736, 28-01777
SAVE	0001217	20-01446, 27-01733, 28-01774, 34-02166
SCPBANNR	0000152	16-01324, 16-01334
SCRSZ	0001215	8-00011, 8-00016, 8-00022, 8-00023, 8-00024, 14-01226
SET	0002146	15-01301, 15-01315, 16-01326, 16-01330, 17-01355, 17-01367, 18-01410, 18-01412, 19-01427, 19-01431, 27-01701, 27-01703, 27-01711, 27-01717, 27-01725, 27-01743, 27-01751, 27-01756, 27-01764, 30-02023, 30-02030, 32-02074, 32-02076
SETA	0002162	34-02147, 34-02151, 34-02153, 34-02155, 34-02157
SETA1	0002164	34-02162
SETB	0002161	34-02162
SETTAPE	0002002	15-01241
SHPBUF	0000145	17-01353, 17-01360
SHPCNT	0000005	11-00145, 17-01353
TACT	0000210	30-02016, 30-02047, 30-02052
TAPEACT	0002015	15-01255, 15-01263, 15-01265, 15-01267, 15-01271, 15-01273, 15-01307, 29-02004, 29-02006, 29-02010, 29-02012, 32-02102, 32-02107, 32-02111, 32-02120, 32-02131
TAPEACT1	0002017	30-02047
TAPEACT2	0002035	30-02046
TAPEACT3	0002037	30-02033, 30-02034
TAPEACT4	0002047	30-02040, 30-02043, 30-02044
TAPECDE	0000213	30-02017, 30-02037
TAPECHK	0002060	15-01244, 30-02045, 32-02105, 32-02114
TAPECHK1	0002063	31-02061
TAPEREQ	0000212	30-02020, 30-02022
TAPERSP	0000211	27-01767, 30-02033, 30-02041, 31-02060
TAPE7A	0000203	27-01732, 27-01771, 29-02002, 29-02013
TAPE7B	0000204	30-02015, 30-02035, 30-02056

TDVCX	0000207	27-01677, 27-01707
TMARK	0001773	27-01741
TPCHKSQ	0002532	27-01770, 27-01773
TPEDATA	0000214	18-01406, 18-01416, 32-02065, 32-02072, 33-02140
TYPE	0001500	15-01236, 15-01275, 15-01305, 15-01312, 20-01453, 30-02055, 32-02116, 32-02123, 32-02126, 33-02143
TYPEOUT	0001462	21-01503
TYPEOUT7	0000201	21-01462, 21-01471
TYPESET	0001473	15-01234, 21-01470
TYPE7	0000202	21-01500, 21-01504
WRITERCD	0001403	16-01341, 16-01344, 17-01375, 17-01400
WRITETP	0002064	18-01417
WRITETPB	0002125	32-02113
WRITETPE	0002122	32-02104
WRITETPY	0002130	32-02124, 32-02127
WRITETPZ	0002134	32-02103
WRITETP1	0002103	32-02121
WRITETP2	0002070	32-02066
WRITETP7	0000205	32-02064, 32-02134, 33-02144
WRRCD1	0001416	18-01404
WRRCD7	0000137	18-01403, 18-01420
XJLOC	0000060	15-01277, 15-01302, 15-01313, 15-01316, 16-01322, 16-01331, 17-01351, 17-01356, 17-01364, 17-01370, 18-01404, 18-01413, 19-01423, 19-01432, 27-01675, 27-01704, 27-01706, 27-01712, 27-01714, 27-01720, 27-01722, 27-01726, 27-01740, 27-01744, 27-01747, 27-01752, 27-01754, 27-01757, 27-01762, 27-01765, 30-02020, 30-02024, 30-02026, 30-02031, 32-02070, 32-02077
Y.BEAD	0000001	14-01221
Y.CFILE	0000036	11-00136, 16-01323, 17-01352, 17-01365, 18-01405
Y.CODE	0000027	14-01223
Y.FLLIST	0000035	11-00131, 19-01424
Y.MAST	0000026	14-01227, 27-01707, 27-01715, 27-01723
Y.RESTOR	0000030	14-01215
Y.SAVE	0000031	14-01217
Y.TFILE	0000032	27-01710, 32-02071
Y.TREQ	0000033	27-01716, 27-01741, 30-02021
Y.TRESP	0000034	27-01724, 27-01750, 27-01755, 27-01763, 30-02027

LOAD MAP TSS 6400 SCOPE SIMULATOR VER 2.06

FWALOAD: 000100 LWA LOAD: 002227
ROOM LEFT 043423 TRANSFER POINT: NEWSYS

MODULES	LENGTH	AT ADDRESS	TYPE
NEWSYS	000000	000100	SUB PROGRAM

ENTRY	ADDRESS	REFERENCES AT
-------	---------	---------------

END OF FILE