

TTY SCANNER AND PANIC HANDLER
STORAGE ALLOCATION.

COMPASS - VER 2.

01/01/84 00.00.00.

PAGE 59

ADDRESS LENGTH

BINARY CONTROL CARDS.

0 0

IDENT READ

0

END

IDENT READ2

		*			*
			LIST	X	
			XTEXT		
0	OPNAMES				
0	C.SELF	EQU	0	CAPABILITY FOR THIS C LIST	OPNAMES 1
1	C.ALLOC	EQU	1	ALLOCATION BLOCK C LIST INDEX	OPNAMES 1
2	C.INTFIL	EQU	2		OPNAMES 1
3	C.RFILE	EQU	2+1	READ ON FILE	OPNAMES 1
4	C.WFILE	EQU	3+1	WRITE ON FILE	OPNAMES 1
5	C.SENDE	EQU	4+1	SEND EVENT	OPNAMES 1
6	C.GETE	EQU	5+1	GET EVENT OR HANG	OPNAMES 1
7	C.CCLIST	EQU	6+1	CREATE C LIST OPERATION	OPNAMES 1
10	C.CFILE	EQU	7+1	CREATE FILE	OPNAMES 1
11	C.CBLK	EQU	8+1	CREATE FILE BLOCK	OPNAMES 1
12	C.CPROC	EQU	9+1	CREATE PROCESS	OPNAMES 1
13	C.CEVCH	EQU	10+1	CREATE EVENT CHANNEL	OPNAMES 1
14	C.CSPROC	EQU	11+1	CREATE SUB PROCESS	OPNAMES 1
15	C.CCC	EQU	12+1	CREATE CLASS CODE	OPNAMES 1
16	C.SAVE	EQU	13+1	SAVE REGISTERS	OPNAMES 1
17	C.RESTOR	EQU	14+1	RESTORE REGISTERS	OPNAMES 1
20	C.DSCAP	EQU	16	.. DISPLAY A CAPABILITY	OPNAMES 1
20	C.DSCAP	EQU	C.DSCAP	.. OLD NAME FOR C.DSCAP	OPNAMES 1
21	C.FSON	EQU	16+1		OPNAMES 1
22	C.MOVEC	EQU	18	.. MOVE A CAPABILITY WITHIN FULL CLIST	OPNAMES 1
22	C.MVECAP	EQU	C.MOVEC	.. OLD NAME FOR C.MOVEC	OPNAMES 1
23	C.CAPIN	EQU	18+1		OPNAMES 1
24	C.CAPOU	EQU	20	.. COPY A CAPABILITY OUT OF FULL CLIST	OPNAMES 1
24	C.CAPOUT	EQU	C.CAPOU	.. OLD NAME FOR C.CAPOU	OPNAMES 1
25	C.ESMGEN	EQU	21	SET ANY ESM IN PROCESS	OPNAMES 1
26	C.ESMLOC	EQU	22	SET LOCAL ESM	OPNAMES 1
27	C.MKOPR	EQU	23	CREATE OPERATION(SUBP CALL)	OPNAMES 1
30	C.RETURN	EQU	24	SUBPROCESS RETURN	OPNAMES 1
31	C.FRETUR	EQU	25	F-RETURN	OPNAMES 1
32	C.FIXC	EQU	26	FIX CAPABILITY PS	OPNAMES 1
33	C.FIXD	EQU	27	FIX DATUM PS	OPNAMES 1
34	C.UDAT	EQU	28	CHANGE ANY PS TO USER DATUM	OPNAMES 1
35	C.UCAP	EQU	29	CHANGE ANY PS TO USER CAPABILITY	OPNAMES 1
36	C.ACAP	EQU	30	CHANGE ANY PS TO ANY CAPABILITY	OPNAMES 1
37	C.ADOPT	EQU	31	ADD OPTION BITS TO PS	OPNAMES 1
40	C.COPYOP	EQU	32	• MAKE A COPY OF AN OPERATION	OPNAMES 1
41	C.CHKBLK	EQU	33	• CHECK FOR MISSING FILE BLOCKS	OPNAMES 1
42	C.DELBLK	EQU	34	• DELETE A FILE BLOCK	OPNAMES 1
43	C.DELFIL	EQU	35	• DELETE A FILE	OPNAMES 1
44	C.PEDSHP	EQU	36	• GET SHAPE NUMBERS OF A FILE	OPNAMES 1
45	C.MAPZRO	EQU	37	• ZERO A MAP ENTRY	OPNAMES 1
46	C.MPCHRO	EQU	38	• CHANGE A ZERO MAP ENTRY TO READ ONLY	OPNAMES 1
47	C.MPCHRW	EQU	39	• CHANGE A ZERO MAP ENTRY TO RW	OPNAMES 1
50	C.MOVBK	EQU	40	• MOVE A FILE BLOCK	OPNAMES 1
51	C.DISMAP	EQU	41		OPNAMES 1
52	C.JUMP	EQU	42		OPNAMES 1
53	C.NEWUN	EQU	43	• CHANGE UNIQUE NAME	OPNAMES 1
54	C.DISPST	EQU	44	• DISPLAY ENTIRE STACK	OPNAMES 1
55	C.DISSEN	EQU	45	• DISPLAY STACK ENTRY	OPNAMES 1

56	C.DSEMAP	EQU	46	DISPLAY FULL MAP ENTRY	OPNAMES	1
57	C.DELCL	EQU	47	DELETE C-LIST	OPNAMES	1
60	C.PINT	EQU	48	SEND PROCESS INTERRUPT	OPNAMES	1
61	C.ADDORD	EQU	49	• ADD AN ORDER TO AN OPERATION	OPNAMES	1
62	C.CCCLDA	EQU	50	CREATE COMPLETE CAPABILITY	OPNAMES	1
63	C.DONATE	EQU	51	TRANSFER BETWEEN ALLOC BKS	OPNAMES	1
64	C.CRALBK	EQU	52	• CREATE ALLOC BLOCK	OPNAMES	1
65	C.MONPC	EQU	53	• MODIFY P-COUNTER	OPNAMES	1
66	C.DLPROC	EQU	54	• DESTROY A PROCESS	OPNAMES	1
67	C.CHNGMD	EQU	55		OPNAMES	1
70	C.CLRDAE	EQU	56	• CLEAR THE DIRECT ACCESS ECS ENTRY	OPNAMES	1
71	C.SETDAE	EQU	57	• SET THE DIRECT ACCESS ECS ENTRY	OPNAMES	1
72	C.DELSUB	EQU	58	DELETE SUP PROC	OPNAMES	1
73	C.SETIIR	EQU	55+4	• SET INTERRUPT INHIBIT BIT	OPNAMES	1
74	C.CLIIR	EQU	56+4	• CLEAR INTERRUPT-INHIBIT BIT	OPNAMES	1
75	C.GETEVF	EQU	57+4	• GET EVENT OR FRETURN	OPNAMES	1
76	C.DELAR	EQU	62	• DESTROY ALLOCATION BLOCK	OPNAMES	1
77	C.MGETA	EQU	63	GET EVENT FROM MULTIPLE CHANNELS OR	OPNAMES	1
	•				OPNAMES	1
100	C.MGETF	EQU	64	GET EVENT FROM MULTIPLE CHANNELS OR	OPNAMES	1
	•				OPNAMES	1
101	C.DESECH	EQU	65	DESTROY EVENT CHANNEL	OPNAMES	1
102	C.DSPCLX	EQU	66	DISPLAY CLOCKS IN USER CORE	OPNAMES	1
3	C.READ	EQU	C.RFILE		OPNAMES	1
4	C.WRITE	EQU	C.WFILE		OPNAMES	1
6	C.HANG	EQU	C.GETE		OPNAMES	1
41	C.PROBE	EQU	C.CHKBLK		OPNAMES	1
103	C.NWTMP	EQU	67	SET TEMPORARY PART OF CLASS CODE	OPNAMES	1
104	C.DSPAR	EQU	68	DISPLAY ALLOCATION BLOCK	OPNAMES	1
105	C.BDAT	EQU	69	• CHANGE ANY TO BLOCK DATA PARAMETER	OPNAMES	1
106	C.BLKCAP	EQU	70	• CHANGE ANY TO BLOCK CAPABILITY PARAM	OPNAMES	1
107	C.DISPOP	EQU	71	• DISPLAY OPERATION	OPNAMES	1
110	C.USPER	EQU	72	• USER INITIATED ERROR	OPNAMES	1
111	C.RETPAR	EQU	73	• RETURN WITH PARAMETERS	OPNAMES	1
112	C.TIMDT	EQU	74	• RETURN DATE AND TIME	OPNAMES	1
113	C.CAGEN	EQU	75	• MAKE CAPABILITY CREATING AUTHORIZATION	OPNAMES	1
114	C.CGFN	EQU	76	• MAKE CAPABILITY OF AUTHORIZED TYPE	OPNAMES	1
115	C.DSPSP	EQU	77	• DISPLAY SUBPROCESS DESCRIPTOR	OPNAMES	1
116	C.TRNB	EQU	78	• TEST AND RESET DIRTY BIT	OPNAMES	1
117	C.SETLIN	EQU	79	• SET ALLOCATION BLOCK SPACE LIMIT	OPNAMES	1
120	C.DSPOR	EQU	80	• DISPLAY OBJECT	OPNAMES	1
121	C.DSPALC	EQU	81	• DISPLAY ALLOCATOR CONSTANTS	OPNAMES	1
122	C.CHMPRW	EQU	82	• CHANGE A READ-WRITE MAP ENTRY	OPNAMES	1
123	C.CHMPRO	EQU	83	• CHANGE A READ ONLY MAP ENTRY	OPNAMES	1
47	C.MKMPRW	EQU	C.MPCHRW	• MORE REASONABLE NAME FOR C.MPCHRW	OPNAMES	1
46	C.MKMPRO	EQU	C.MPCHRO	• MORE REASONABLE NAME FOR C.MPCHRO	OPNAMES	1
124	C.DSCLX	EQU	84	• DISPLAY SYSTEM CLOCKS IN USER CORE	OPNAMES	1
125	C.SPRET	EQU	85	• SPECIAL RETURN (DECREMENT P-COUNTER)	OPNAMES	1
126	C.CPZRO	EQU	86	• ZERO A CAPABILITY	OPNAMES	1

```
*
*
*
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

*
*
XJF      MACRO      LOC,FGO
+      VFD         12/0130B,18/LOC,30/1
      JP           FGO
      ENDM

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

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

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

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

```
*
*
*
```

```
MAP      MACRO      NAME,X,FLAD,CMAD,LASTP1,R0
+        VFD        60/OLNAME
+        VFD        30/X,30/FLAD
+        VFD        1/R0,29/CMAD,30/LASTP1
+        ENDM
```

```
*
*
*
```

MACRO FOR CLIST INDEX OF OBJECT TO RETURN TO CALLER

```
PTNCAP   MACRO      NAME
+        DATA      0
+        RMT
+        DATA      OLNAME
+        RMT
+        ENDM
```

```
*
*
*
```

MACRO FOR CLIST INDEX OF OBJECT TO BE OBTAINED
AT TIME OF THIS SUBPROCESS CONSTRUCTION

```
PARCAP   MACRO      NAME
+        DATA      OLNAME
+        ENDM
```

```
*  
*  
* BASIC MACRO  
*
```

```
XSETXJ MACRO A,B,C,D,E  
LOCALPXJ SFT 0  
IFC NE,$$A$  
SY1 A  
LOCALPXJ SET 1  
IFC NE,$$R$  
SY2 R  
LOCALPXJ SFT 2  
IFC NE,$$C$  
SY3 C  
LOCALPXJ SFT 3  
IFC NE,$$D$  
SY4 D  
LOCALPXJ SFT 4  
IFC NE,$$E$  
SY5 E  
LOCALPXJ SFT 5  
ENDM
```

```
*  
*  
* FULL 10 PARAM VERSION  
*
```

```
YSETXJ MACRO A,B,C,D,E,F,G,H,I,J  
XSETXJ A,B,C,D,E  
SR2 5  
CALL SET  
XSETXJ F,G,H,I,J  
ENDIF  
SR2 LOCALPXJ  
CALL SET  
ENDM
```

```
*  
*  
* STANDARD XJ CALL  
*
```

```
DOXJ MACRO A,B,C,D,E,F,G,H,I,J  
SR1 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  
SR1 XJLOC  
YSETXJ A,B,C,D,E,F,G,H,I,J
```

ENDM

*
*
*

FINAL CALL (USE YSETXJ IN BETWEEN)

*DOXJ

MACRO
YSETXJ
XJ
ENDM

A,B,C,D,E,F,G,H,I,J
A,B,C,D,E,F,G,H,I,J
XJLOC

*
*
*

SAVE

MACRO
SY6
SA6
ENDM

L
R7
L

*
*

GET7

MACRO
SA1
SR7
ENDM

L
L
X1

NAMES FOR CALL TO MAKE NEW PROC

1043

NAMES

BSS

0

1047 00000000000000000000

HERE
DATA

0

XJ S DONE HERE

MISC POINTERS ETC

INDEX OF SPECIAL TTY IN MASTER CLIST

FIRST INDEX BEYOND TTYS IN MASTER CLIST

INDEX OF TTY 0 IN MASTER CLIST

MOVING INDEX IN MASTER CLIST DURING TLOOP1

MOVING INDEX IN DIR FILE DURING TLOOPI

WILL BE NUMBER OF FIRST UNUSED TTY

USED NAME OF CURRENT TTY IN DIR FILE TLOOP1

NUMBER OF CURRENT TTY IN TLOOP2

BREAK COUNTS FOR RUNNING PROCESSES

256

REGISTER SAVE AREA

20B

20B REGISTERS

208

3 TOP OF STACK

22

```

*
*
*
*
1542 SCRSZ BSS 0
*
*
1542 40000000030000000002 READSELF MYCAP READ
1543 00000000000000000003 ITEMS CX.CODE,0,0,SCRSZ
*

```

MISC MASTER CLIST REFERENCES

```

1547 MCAP CAPIN
1550 MCAP DLPROC
1551 MCAP GETE
1552 MCAP INTFIL
1553 MCAP MVECAP
1554 MCAP PINT
1555 MCAP READ
1556 MCAP SENDE

```

GET SPECIAL TTY AND INITIALIZE SET UP SCAN

1571	6110001050	DNXJ	M.READ,M.INTFIL,R0,TTYSPCX,1
1602	6110001050	DNXJ	M.READ,M.INTFIL,1,TTYLMT,1
1613	5110001067	SA1	TTYSPCX
	7261000003	SY6	X1+3
1614	5160001071	SA6	TTYBASE
	5160001072	SA6	TTYPNT
1615	7231000002	SY3	X1+2
	6110001050	DNXJ	M.CAPIN,CX,MACT,X3,CX.SRESP
1624	7160000001	SY6	1
	5160001073	SA6	DIRFX
1625	76600	SY6	R0
	5160001074	SA6	MXTTY

NOW SCAN ALL TTYS, GETTING APPROPRIATE ACCT BLK FROM
 READ DIR CLIST AND DETERMINE MAX ALLOWED TTY BY READ
 ALSO DETERMINE MAX FROM MAX CREATED TTY
 TURN ON EACH TTY CREATED AND ALLOWED BY READ

1626	6110001050	TLOOP1	DOXJ	M.READ,CX.DIRFL,-DIRFX,DIRUNM,1	
1637	5110001075		SA1	DIRUNM	
	43060		MX0	60-12	
	11101		Bx1	X0#X1	
1640	5120001703		SA2	XUSER	
	13212		Bx2	X1-X2	SEE IF THIS TTY IN BEAD DIRECTORY
1641	0312001731		NZ	X2,TLOOP2	NO
	0332001731		NG	X2,TLOOP2	NO
1642	5110001072		SA1	TTYPNT	
	5120001070		SA2	TTYLMT	
1643	37212		IV2	X1-X2	SEE IF THIS TTY WAS CONSTRUCTED
	0322001731		PL	X2,TLOOP2	NO
1644	7231000001		Sx3	X1+1	
	6110001050		DOXJ	M.CAPIN,CX.MAST,X3,CX.TREQ	
1653	6110001050		DOXJ	M.SENDE,CX.TREQ,20000B	(TURN IT ON)
1661	6110001050		DOXJ	M.SENDE,CX.TREQ,10000B	(START OUTPUT)
1667	5130001074		SA3	IXTTY	
	7243000412		Sx4	X3-CX.ALRS	
1670	6110001050		DOXJ	M.CAPIN,CX.DIRCL,X3,X4	GET ALLOCATION BLK
1676	5110001072		SA1	TTYPNT	
	7261000003		Sx6	X1+3	
1677	54610		SA6	A1	

	5110001074		S01	MXTTY
1700	7261000001		SX6	X1+1
	54610		S06	A1
1701	5110001073		S01	DIRFX
	7261000004		SX6	X1+4
1702	54610		S06	A1
	0200001626		JP	TLOOP1
		#		
		#		
1703	25230522000000000000	XUSER	DATA	OLUSER

```

*
*
*
*
1704 01300017160000000001  ERRC  XU  ESAVE  SAVE REGISTERS
1706 01300017220000000001  XU  SETEMSK RE SET ERROR SELECTION MASK
1710 01300017260000000001  XU  RDSTK  READ TOP OF STACK ( IN CASE UNWANTED ERROR)
1712 01300017200000000001  XU  FRESTOR RESTORE REGISTERS
1714 01300017300000000001  XU  FRTN   NOW CONVERT ERROR TO F RETURN
*
*
1716 40000000160000000002  ESAVE MYCAP  SAVE
1717 00000000000000001517  ITEMS FREGS
*
*
1720 40000000170000000002  FRESTOR MYCAP  RESTOR
1721 00000000000000001517  ITEMS FREGS
*
*
1722 40000000260000000002  SETEMSK MYCAP  FSMLOC
1723 00000000000000001724  ITEMS  ++1
1724 77777777777777777777  DATA  -0
*
*
1725 40000000550000000002  RDSTK  MYCAP  DISSEN
1726 00000000000000001537  ITEMS  STKBUF
1727 00000000000000000001  DATA  1
*
*
1730 40000000310000000002  FRTN   MYCAP  FRETUR

```

1731 6110001050

1736 43064

15170

5120001074

1737 37212

0322001731

63110

1740 10611

5160001070

21714

1741 15770

7247777776

1742 0314001753

TL00P2

BOAJ

CALL

MX0

BY1

SA2

IX2

PI

SR1

RY6

SA6

AX7

BY7

SY4

N7

NOW WATCH FOR TTY BREAKS AND MILD PANICS

M.GETE,CX.SRESP

DEBUG

60-8

-X0*X7

CHANNEL NUMBR

MXTTY

X1-X2

COMPARE WITH LIMIT

X2,TL00P2

AT OR ABOVE LIMIT, IGNORE

X1

X1

TTYNUM

12

-X0*X7

TYPE EVENT

X7-1

X4,BREAK

BREAK RECIEVED

SEND PANIC WITH CONTENTS OF X4

0 = MILD PANIC

1 = MAJOR PANIC

1743 7121000012

6110001050

1750 01300010500000000001

1752 0200001731

PANIC

SX2

SETXJ

XJF

JP

R1+CX.TTYP5

M.PINT,X2,CX.BDCC,X4 ON FRETURN, PROCESS WAS GONE

XJLOC,CREATE

SO CREATE

TL00P2

Line	Address	Operation	Source	Destination	Comments
					HANDLE A BREAK
	24	BREAKCNT	EDU	20	
1753	5111001077	BREAK	SA1	TTABLE+B1	
	7261777776		SV6	X1=1	
1754	5161001077		SA6	TTABLE+B1	DECREMENT COUNT
	0311001731		N7	X1+TLOOP2	DO NOT PANIC YET
1755	7160000024		SV6	BREAKCNT	
	5161001077		SA6	TTABLE+B1	RESET BREAK COUNT
1756	0200001743		JP	PANIC	SEND MAJOR PANIC
					CREATE A PROCESS
1757	5110001076	CREATE	SA1	TTYNUM	
	63110		SA1	X1	
1760	7121000412		SV2	B1+CX,ALBS	
	6110001050		DOXJ	M.MVECAP,CX,X2,CX,USAB,-XMZERO	
1767	5110001076		SA1	TTYNUM	
	10211		BY2	X1	
	20201		LY2	1	
1770	36212		IV2	X1+X2	TTY NUM * 3
	6110001071		SA1	TTYBASE	
	36312		IV3	X1+X2	
1771	6110001050		DOXJ	M.CAPIN,CX,MAST,X3,CX,UST1	
1777	6110001050		DOXJ	M.CAPIN,CX,MAST,X3+1,CX,UST2	
2005	6110001050		DOXJ	M.CAPIN,CX,MAST,X3+1,CX,UST3	
2013	6110001050		SETXJ	CX,NWPR,-PRCDESC,-BLKNMS,-BLKCAPS	
2017	01300010500001000002		XJR	XJLOC,RTNAUTH	
2022	5110001076		SA1	TTYNUM	
	7231000012		SV3	X1+CX,TTYP5	
2023	6110001050		DOXJ	M.MVECAP,CX,PDOC,X3,-XMZERO	
2031	5110001076		SA1	TTYNUM	
	63110		SA1	X1	
2032	7160000024		SV6	BREAKCNT	
	5161001077		SA6	B1+TTABLE	RESET BREAK COUNT
2033	0200001731		JP	TLOOP2	
2034	77777777777777777777	XMZERO	DATA	-0	
2035	02050104160115052300	PRCDESC	DATA	ALBEADNAMES	
2036	00000000050000001043	BLKNMS	VFD	30/5,30/NAMES	
2037	00000000040000001012	BLKCAPS	VFD	30/4,30/CX,USAB	

2040 00000000000000000000
2041 00000000010000000005

RTNAUTH

DATA

0

VFD

30/1.30/CX.PRC

*
*

```
*
*
*
*
* THIS SUBROUTINE XFERS B2 ITEMS
* ( ON 5, WHICH EVER IS LESS )
* FROM X1, X2, . . . X5 TO B1, B1+1, . . B1+4
*
* IF XN IS POSITIVE, CONTENTS OF XN IS XFERED
* IF XN IS NEGATIVE, CONTENTS OF CELL ADDRESS -XN
*
* X1 WILL BE DESTROYED
*
* B1 IS ADVANCED AND B2 DECREMENTED BY 1 FOR EACH XFER
*
2042 43074 SET MX0 60
      66570 SR5 R7
      10611 BX0 X1
2043 6170002044 CALL SETA
2044 10622 BX6 X2
2045 6170002046 CALL SETA
2046 10266 BX2 X6
      10633 BX0 X3
2047 6170002050 CALL SETA
2050 10366 BX3 X6
      10644 BX6 X4
2051 6170002052 CALL SETA
2052 10466 BX4 X6
      10655 BX0 X5
2053 6170002054 CALL SETA
2054 10566 BX5 X6
*
2055 66750 SETB SR7 R5
      0270000000 JP R7
*
2056 0602002055 SETA GE R0,B2,SETB
      0326002060 PL X6,SETA1
2057 13660 BX6 X6=X0
      53160 SA1 X6
      10611 BX6 X1
2060 56610 SETA1 SA6 R1
      6111000001 SR1 R1+1
2061 612277776 SR2 R2=1
      0270000000 JP R7
*
* CRAASH
*
2062 013000210300000000001 FRR XJ SAVE
2064 6160000004 SR6 4
2065 013000210200000000001 XJ READ
2067 0200002105 JP DIE
*
*
```

```

2070 013000210300000000001  *
2072 61600000004  *
2073 013000210200000000001  *
2075 013000210000000000001  *
2077 02700000000  *
      *
2100 400000001700000000002  *
2101 00000000000000001477  *
      *
2102 000000000000000000004  *
2103 400000001600000000002  *
2104 00000000000000001477  *
      *
2105 013000210700000000001  *
      *
2107 400000011100000000002  *
2110 00000000010000002112  *
2111 000000000000000000000  *
      *
2112 000000000000000000000  *

```

DEBU	XJ	SAVE
	SR6	4
	XI	READ
	XJ	RESTORE
	JO	B7
RESTORE	MYCAP	RESTOR
	ITEMS	REGAREA
READ	ITEMS	CX.BEAD
SAVE	MYCAP	SAVE
	ITEMS	REGAREA
DIE	XI	SRETURN
SRETURN	MYCAP	RETPAR
VFD		30/1,30/ZR0
VFD		30/0,30/0
ZRO	DATA	0

*
*

2113 000000000000000000001
2114 000000000000000000001

*
*
DATA 1
FL DATA 1

0

END

35350

STORAGE USED
6600 ASSEMBLY

1392 STATEMENTS
0.000 SECONDS

170 SYMBOLS
518 REFERENCES

TTY SCANNER AND PANIC HANDLER
SYMBOLIC REFERENCE TABLE.

COMPASS - VER 2.

01/01/84 00.00.00.

PAGE 81

BEAD	2102	77/50	78/04	78/13 L					
BLKCAPS	2037	75/36	75/52 L						
BLKNMS	2036	75/36	75/51 L						
BREAK	1753	74/18	75/09 L						
BREAKCNT	24	75/06 D	75/14	75/44					
CLSTSZ	1016	67/18	67/45 L						
CREATE	1757	74/30	75/21 L						
CX.ALBS	412	67/39 L	71/49	75/23					
CX.BDCC	7	67/35 L	74/29						
CX.BEAD	4	67/32 L	78/13						
CX.CODE	3	67/31 L	70/09						
CX.DIRCL	1	67/29 L	71/51						
CX.DIRFL	0	67/28 L	71/33						
CX.MAST	2	67/30 L	70/16	70/19	70/22	73/12	73/25	75/33	78/15
		70/08	70/17	70/20	71/21	73/16	73/30	75/34	78/22
		70/15	70/18	70/21	71/46	73/20	75/32	78/09	
CX.NWPR	6	67/34 L	75/36						
CX.PROC	5	67/33 L	75/41	76/02					
CX.SRESP	11	67/37 L	71/21	74/06					
CX.TREQ	10	67/36 L	71/46	71/47	71/48				
CX.TTYP	12	67/38 L	74/27	75/39					
CX.USAB	1012	67/40 L	75/25	75/52					
CX.UST1	1013	67/41 L	75/32						
CX.UST2	1014	67/42 L	75/33						
CX.UST3	1015	67/43 L	75/34						
C.ACAP	36	61/38 D							
C.ADDOPT	37	61/39 D							
C.ADDORD	61	62/04 D							
C.ALLOC	1	61/06 D							
C.BDAT	105	62/30 D							
C.BLKCAP	106	62/31 D							
C.CAGEN	113	62/36 D							
C.CAPIN	23	61/26 D	70/15						
C.CAPOU	24	61/27 D	61/28						
C.CAPOUT	24	61/28 D							
C.CBLK	11	61/14 D							
C.CCC	15	61/18 D							
C.CCCLOA	62	62/05 D							
C.CCLIST	7	61/12 D							
C.CEVCH	13	61/16 D							
C.CFILE	10	61/13 D							
C.CGEN	114	62/37 D							
C.CHKBLK	41	61/41 D	62/27						
C.CHMPRO	123	62/44 D							
C.CHMPRW	122	62/43 D							
C.CHNGWD	67	62/10 D							
C.CLRDAE	70	62/11 D							
C.CLRILB	74	62/15 D							
C.COPYOP	40	61/40 D							
C.CPROC	12	61/15 D							
C.CPZRO	126	62/49 D							
C.CRALBK	64	62/07 D							
C.CSPROC	14	61/17 D							

TTY SCANNER AND PANIC HANDLER
SYMBOLIC REFERENCE TABLE.

COMPASS - VER 2.

01/01/84 00.00.00.

PAGE 82

C.DELAB	76	62/17	D	
C.DELBLK	42	61/42	D	
C.DELCL	57	62/02	D	
C.DELFIL	43	61/43	D	
C.DELSUB	72	62/13	D	
C.DESECH	101	62/22	D	
C.DISMAP	51	61/49	D	
C.DISPOP	107	62/32	D	
C.DISPST	54	61/52	D	
C.DISSEN	55	61/53	D	73/25
C.DLPROC	66	62/09	D	70/16
C.DONATE	63	62/06	D	
C.DSCAP	20	61/21	D	61/22
C.DSCLX	124	62/47	D	
C.DSFMAP	56	62/01	D	
C.DSPAB	104	62/29	D	
C.DSPALC	121	62/42	D	
C.DSPCAP	20	61/22	D	
C.DSPCLX	102	62/23	D	
C.DSPOB	120	62/41	D	
C.DSPSP	115	62/38	D	
C.ESMGEN	25	61/29	D	
C.ESMLOC	26	61/30	D	73/20
C.FIXC	32	61/34	D	
C.FIXD	33	61/35	D	
C.FRETUR	31	61/33	D	73/30
C.FSON	21	61/23	D	
C.GETE	6	61/11	D	62/26 70/17
C.GETIEVF	75	62/16	D	
C.HANG	6	62/26	D	
C.INTFIL	2	61/07	D	70/18
C.JUMP	52	61/50	D	
C.MAPZRO	45	61/45	D	
C.MGETF	100	62/20	D	
C.MGETH	77	62/18	D	
C.MKMPRO	45	62/46	D	
C.MKMPRW	47	62/45	D	
C.MKOPR	27	61/31	D	
C.MODPC	65	62/08	D	
C.MOVBK	50	61/48	D	
C.MOVEC	22	61/24	D	61/25
C.MPCHRO	46	61/46	D	62/46
C.MPCHRW	47	61/47	D	62/45
C.MVECAP	22	61/25	D	70/19
C.NEWJIN	53	61/51	D	
C.NWTMP	103	62/28	D	
C.PINT	60	62/03	D	70/20
C.PROBE	41	62/27	D	
C.READ	3	62/24	D	70/08 70/21
C.REDSHP	44	61/44	D	
C.RESTOR	17	61/20	D	73/16 78/09
C.RETPAR	111	62/34	D	78/22
C.RETURN	30	61/32	D	

C.RFILE	3	61/08 D	62/24							
C.SAVE	16	61/19 D	73/12	78/15						
C.SELF	0	61/05 D								
C.SENDE	5	61/10 D	70/22							
C.SETDAE	71	62/12 D								
C.SETIIB	73	62/14 D								
C.SETLIM	117	62/40 D								
C.SPRET	125	62/48 D								
C.TIMOT	112	62/35 D								
C.TRDB	116	62/39 D								
C.UCAP	35	61/37 D								
C.UDAT	34	61/36 D								
C.USRER	110	62/33 D								
C.WFILE	4	61/09 D	62/25							
C.WRITE	4	62/25 D								
DEBUG	2070	78/02 L								
DIE	2105	77/51	78/19 L							
DIRFX	1073	60/15 L	71/22 S	71/33	72/04					
DIRUNM	1075	60/17 L	71/33	71/33						
ERECS	1517	60/33 L	73/13	73/17						
ERESTOR	1720	73/08	73/16 L							
ERR	2062	71/07	71/21	71/48	73/08	75/25	75/37	77/51	78/20	
		71/08	71/33	71/51	73/09	75/32	75/41	78/03		
		71/14	71/40	73/06	73/10	75/33	77/48 L	78/05		
		71/15	71/47	73/07	74/06	75/34	77/49	78/06		
		71/05	73/05 L							
		73/05	73/12 L							
		67/16	67/23	80/04 L						
ERRC	1704	73/09	73/30 L							
ESAVE	1716	71/14 D	71/15 D	71/33 D	71/47	74/06 D	75/25	75/34 D	75/41 D	
FL	2114	71/14 D	71/15 D	71/33 D	71/48 D	74/06 D	75/32 D	75/34 D	75/41 D	
FRTN	1720	71/14 D	71/15	71/33	71/48 D	74/06	75/32 D	75/34	75/41	
LOCALPXJ	4	71/14 D	71/21 D	71/46 D	71/48 D	74/29 D	75/32 D	75/34		
		71/14 D	71/21 D	71/46 D	71/48	74/29 D	75/32	75/36 D		
		71/14	71/21	71/46	71/51 D	74/29	75/33 D	75/36 D		
		71/15 D	71/33 D	71/47 D	71/51 D	75/25 D	75/33 D	75/36 D		
		71/15 D	71/33 D	71/47 D	71/51 D	75/25 D	75/33 D	75/36		
		71/15 D	71/33 D	71/47 D	71/51	75/25 D	75/33	75/41 D		
MAIN	1545	67/17	71/06 L							
MXTTY	1074	60/16 L	71/24 S	71/48	72/01	74/09				
M.CAPIN	7776230	70/15 D	71/21	71/46	71/51	75/32	75/33	75/34		
M.DLPROC	7776227	70/16 D								
M.GETE	7776226	70/17 D	74/06							
M.INTFIL	7776225	70/18 D	71/14	71/15						
M.MVECAP	7776224	70/19 D	75/25	75/41						
M.PINT	7776223	70/20 D	74/29							
M.READ	7776222	70/21 D	71/14	71/15	71/33					
M.SENDE	7776221	70/22 D	71/47	71/48						
NAMES	1043	68/01 L	75/51							
PANIC	1743	74/27 L	75/16							
PRDESC	2035	75/36	75/50 L							
RDSTK	1725	73/07	73/25 L							
READSELF	1542	70/08 L	71/06							

TTY SCANNER AND PANIC HANDLER
SYMBOLIC REFERENCE TABLE.

COMPASS - VER 2.

01/01/84 00.00.00.

PAGE 84

REGAREA	1477	69/28 L	78/10	78/16					
RESTORE	2109	78/05	78/09 L						
RTNAUTH	2040	75/07	76/01 L						
SAVE	2103	77/48	78/02	78/15 L					
SCRSZ	1542	67/19	67/22	67/23	67/23	70/05 L	70/10		
SET	2042	71/14	71/15	71/33	71/48	74/29	75/33	75/41	
		71/14	71/21	71/46	71/51	75/25	75/34	77/15 L	
		71/15	71/33	71/47	74/06	75/32	75/36		
SETA	2056	77/19	77/21	77/24	77/27	77/30	77/36 L		
SETA1	2060	77/37	77/41 L						
SETR	2055	77/32 L	77/36						
SETEMSK	1722	71/07	73/06	73/20 L					
SRETURN	2107	78/19	78/22 L						
STKBUF	1537	69/35 L	73/26						
TLOOP1	1626	71/32 L	72/07						
TLOOP2	1731	71/38	71/39	71/43	74/05 L	74/11	74/30	75/12	75/47
TTABLE	1077	69/23 L	75/09	75/11 S	75/15 S	75/45 S			
TTYBASE	1071	69/13 L	71/17 S	75/29					
TTYLMT	1070	69/12 L	71/15	71/41					
TTYNUM	1076	69/18 L	74/14 S	75/21	75/25	75/38	75/42		
TTYPNT	1072	69/14 L	71/18 S	71/40	71/51				
TTYSPOX	1067	69/11 L	71/14	71/15					
XJLOC	1050	69/06 L	71/20	71/46	71/50	74/29	75/32	75/36	
		71/13	71/21	71/46	71/51	75/24	75/33	75/40	
		71/14	71/32	71/47	74/05	75/25	75/33	75/41	
		71/14	71/33	71/47	74/06	75/31	75/34		
		71/15	71/45	71/48	74/28	75/32	75/35		
XMZERO	2034	75/25	75/41	75/49 L					
XUSER	1703	71/36	72/10 L						
ZRO	2112	78/23	78/27 L						