

SIMULATION OF ROOT OF A USER PROCESS
STORAGE ALLOCATION.

COMPASS - VER 2.

02/09/71 14.53.21.

PAGE 1

ADDRESS LENGTH

BINARY CONTROL CARDS.

0 0
0

IDENT XROOT
END

IDENT

XROOT

		#		OPNAMES,XTEXT USED HERE			
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55	C.DISSEN	EQU	45	.DISPLAY STACK ENTRY	OPNAMES:	1
56	C.DSFMAP	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.CCCLOA	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.MODPC	EQU	53	.MODIFY P-COUNTER	OPNAMES:	1
66	C.DLPROC	EQU	54	.DESTROY A PROCESS	OPNAMES:	1
67	C.CHNGWD	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.DELSUS	EQU	58	DELETE SUP PROC	OPNAMES:	1
73	C.SETIIB	EQU	58+4	.SET INTERRUPT INHIBIT BIT	OPNAMES:	1
74	C.CLRIIB	EQU	56+4	.CLEAR INTERRUPT-INHIBIT BIT	OPNAMES:	1
75	C.GETEVF	EQU	57+4	.GET EVENT OR FRETURN	OPNAMES:	1
76	C.DELAB	EQU	62	.DESTROY ALLOCATION BLOCK	OPNAMES:	1
77	C.MGETH	EQU	63	GET EVENT FROM MULTIPLE CHANNELS OR	HOPNAMES:	1
					OPNAMES:	1
100	C.MGETF	EQU	64	GET EVENT FROM MULTIPLE CHANNELS OR	FOPNAMES:	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.GETF	OPNAMES:	1
41	C.PROBE	EQU		C.CHBKBLK	OPNAMES:	1
103	C.NWIMP	EQU	67	SET TEMPORARY PART OF CLASS CODE	OPNAMES:	1
104	C.DSPAB	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.USER	EQU	72	. USER INITIATED ERROR	OPNAMES:	1
111	C.RETPAR	EQU	73	. RETURN WITH PARAMETERS	OPNAMES:	1
112	C.TINDT	EQU	74	. RETURN DATE AND TIME	OPNAMES:	1
113	C.CAGEN	EQU	75	. MAKE CAPABILITY CREATING AUTHORIZATION	OPNAMES:	1
114	C.CGEN	EQU	76	. MAKE CAPABILITY OF AUTHORIZED TYPE	OPNAMES:	1
115	C.DSPSP	EQU	77	. DISPLAY SUBPROCESS DESCRIPTOR	OPNAMES:	1
116	C.TRDS	EQU	78	. TEST AND RESET DIRTY BIT	OPNAMES:	1
117	C.INCHR	EQU	79	. INCREMENT AB CHARGE RATE	OPNAMES:	1
120	C.DSPOB	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	OPNAMES:	1
46	C.MKMPRO	EQU		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
127	C.MOVCP	EQU	87	. TRANSFER CP TIME BETWEEN ABS	OPNAMES:	1
130	C.MOVMT	EQU	88	. TRANSFER MOT SLOTS BETWEEN ABS	OPNAMES:	1
131	C.INMTR	EQU	89	. INCREMENT AB CHARGE METER	OPNAMES:	1

SIMULATION OF ROOT OF A USER PROCESS
OPNAMES,XTEXT

COMPASS - VER 2.

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132 C.DLOPR EQU

90

. DESTROY AN OPERATION

OPNAMES 1

```
*
*
*
XJ      MACRO      LOC
+      VFD        12/0130B.18/LOC.30/1
      SET        **1
      JB         ERR
      ENDM

*
*
XJR      MACRO      LOC,RTNAUTH
+      VFD        12/0130B.18/LOC.12/1.18/2
      VFD        60/RTNAUTH
      SET        **1
      JB         ERR
      ENDM

*
*
CALL     MACRO      LOC
+      SET        **1
      JB         LOC
      ENDM

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

*
*
MCAP     MACRO      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,$$BS
      VFD        60/B
      IFC        NE,$$CS
      VFD        60/C
      IFC        NE,$$DS
      VFD        60/D
      IFC        NE,$$ES
      VFD        60/E
      IFC        NE,$$FS
```

```

VFD      60/F
IFC      NE,$$GS
VFD      60/G
IFC      NE,$$HS
VFD      60/H
ENDIF
ENDM

*
*
*
ENTERL   MACRO      NAME,CX
LOCAL    XNAME
RMT
XNAME    DATA      OL,XNAME
RMT
S&1     XNAME
S&2     CX
CALL    ENTERL
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

*
*
*

FINAL CALL (USE YSETXJ IN BETWEEN)

XDOXJ

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

SUBPROCESS DESCRIPTOR OFR XROOT

	USERNM	MICRO	L...S.	USER NAME FOR CODE FILE
0		ORG	0	
0		BSSZ	2	2 ZERO WORDS
2	30221717240000000000	DATA	0LXROOT,0LCLASS	CLASS CODE
4	00000000000000000005	DATA	5	NUMBER OF MAP ENTRIES
5	00000000000000000062	DATA	50	COMPILED MAP SIZE
6	00000000000000000750	ITEMS	FL	FIELD LENGTH
7	00000000000000000175	ITEMS	MAIN	ENTRY POINT
10	00000000000000000033	ITEMS	Y.SIZE	CLIST SIZE
11	000000000000000000136	ITEMS	LSCRSZ	SCRATCH FILE SIZE
12	00000000000000000000	DATA	0*0	
14	00000000000000000000	ITEMS	0*0,LSCRSZ*0	
20	30221717240000000000	DATA	0LXROOT,0L*USERNM*	
22	000000000000000000136	ITEMS	LSCRSZ,LSCRSZ,FL-LSCRSZ*1	
26	77777777777777777776	DATA	-1	
27	23051406000000000000	DATA	0LSELF,0LOPERATE	
31	30221717240000000000	DATA	0LXROOT,0L*USERNM*	
33	00000000000000000000	DATA	0	

LOCAL C LIST DEFINITIONS

0	Y.ALLOC	EDU	0	LOCAL ALLOCATION BLOCK
1	Y.BEAD	EDU	1	CALL ON BEAD
15	Y.PATH	EDU	13	THIS SUBPROCESS CLASS CODE
16	Y.MAST	EDU	14	MASTER CLIST
17	Y.CODE	EDU	15	CODE FILE FOR XROOT
20	Y.FREE	EDU	16	BEGINNING OF SCRATCH PART OF CLIST
20	Y.BLDFL	EDU	Y.FREE	BUILDER CODE FILE
21	Y.BLDCLL	EDU	Y.FREE+1	CALL ON BUILDER
22	Y.BLDCCL	EDU	Y.FREE+2	CLASS CODE OF BUILDER
23	Y.BLDCCL	EDU	Y.FREE+3	CLIST OF BUILDER
24	Y.BLDCOR	EDU	Y.FREE+4	SCRATCH FILE OF BUILDER
25	Y.LDIRC	EDU	Y.FREE+5	LOCAL NAME TABLE CLIST
26	Y.LDIRF	EDU	Y.FREE+6	LOCAL NAME TABLE FILE
27	Y.GDIRC	EDU	Y.FREE+7	GLOBAL NAME TABLE CLIST
30	Y.GDIRF	EDU	Y.FREE+8	GLOBAL NAME TABLE FILE
31	Y.BDCPY	EDU	Y.FREE+9	WILL HOLD COPY OF BEAD CLIST
32	Y.TEMP	EDU	Y.FREE+10	WILL SOMETIMES HOLD ITEM FOR LOCAL DIR
33	Y.SIZE	EDU	Y.FREE+11	SIZE OF THIS SUBPROCESS CLIST

```

#
#
# BUILDER HEADER READ IN HERE
#
34 HEAD BSS 0
#
34 TYPE BSSZ 1 TYPE FIELD ( 2 )
35 BSSZ 1 ( ZERO FIELD )
36 NMAP BSSZ 1 LOGICAL MAP SIZE
37 NCMAP BSSZ 1 COMPILED MAP SIZE
40 BLDFL BSSZ 1 FIELD LENGTH
41 BLIDENT BSSZ 1 ENTRY POINT
42 CLSTSIZ BSSZ 1 CLIST SIZE
43 SCRSZ BSSZ 1 SCRATCH FILE SIZE
44 RLDFX BSSZ 1 END OF READ ONLY AREA
45 BSSZ 1 SIZE OF GLOBAL NAME TABLE
46 BLDCXBS BSSZ 1 START OF FILLED IN ENTRIES IN CLIST
47 LDIRSZ BSSZ 1 SIZE OF LOCAL NAME TABLE
#
14. HEADCNT EQU *-HEAD

```

BEAD DIRECTORY ENTRY BLOCKS

50	02251114040522000000	RUILDCE	DATA	0LBUILDER.0LCODE
52			BSSZ	2
54	00000000000000000020		ITEMS	Y.BLDLFI
55	02251114040522000000	RUILDCE	DATA	0LBUILDER.0LCCLASS
57			BSSZ	2
61	00000000000000000022		ITEMS	Y.BLDCC
62	07140214030000000000	GDIRCE	DATA	0LGLBLC.0
64			BSSZ	2
66	00000000000000000027		ITEMS	Y.GDIRC
67	07140214040000000000	GDIRCE	DATA	0LGLBLD.0
71			BSSZ	2
73	00000000000000000030		ITEMS	Y.GDIRF

```
#
#
# MISC SCRATCH CELLS
#
74 RUNBLD7 BSSZ 1
75 POSZ BSSZ 1
76 LDIRFSZ BSSZ 1
77 NAME BSSZ 1
#
100 REGAREA BSSZ 208
#
# YJ S DONE HERE
#
120 YJLOC BSSZ 10
#
# DATA FOR ENTERL
#
132 ENTERL7 BSSZ 1
133 ENTERLNM BSSZ 1
134 ENTERLCX BSSZ 1
135 ENTERPLOX BSSZ 1
```

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END OF SCRATCH AREA

136

LSRsz Bss 0

MASTER CLIST REFERENCES

136
137
140
141
142
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147
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151
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153
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MCAP	READ
MCAP	CCLIST
MCAP	CFILE
MCAP	CBLK
MCAP	CSPROC
MCAP	MPCHRW
MCAP	MPCHRO
MCAP	MKOPR
MCAP	WRITE
MCAP	CAPOUT
MCAP	DELSUB
MCAP	DELCL
MCAP	DELBLK
MCAP	DELFIL
MCAP	CAPIN

		FIXED IP LISTS	
155	0000000000000000000001	BEAD	Y.BEAD
156	40000000160000000016	SAVEREG	SAVE
157	000000000000000000100	ITEMS	REGAREA
160	40000000170000000016	RSTREG	RESTOR
161	000000000000000000100	ITEMS	REGAREA
162	40000000030000000016	RETURN	RETURN
163	40000000030000000016	READSELF	READ
164	00000000000000000017	ITEMS	Y.CODE
165	00000000000000000000	ITEMS	0.0.LSCRSZ

170

175 013000016300000000001

177 10644

5160000077

200 5170000201

201 013000016200000000001

MAIN

BSSZ

XJ

Bx6

SA6

CALL

XJ

MAIN CODE

5

ALTERNATE ENRY POINTS

READSELF

X4

NAME

RUNBLD

RETURN

SAVE NAME OF PROCESS DESCRIPTOR

203 76670
5160000074

RUNBLD

Sx6
SA6THIS SUBROUTINE CONSTRUCTS BUILDER FROM
BUILDER CODE AND RUNS ITB7
RUNBLD7

GET BUILDER DESCRIPOT

204 6110000050
66600
205 6170000206
206 6160000001
207 6170000210
210 6110000120SB1
SB6
CALL
SB6
CALL
DOXJBUILDE
B0
BEADUSER
1
BEADUSER
M.READ,Y,BLDFL,B0,HEAD,HEADCNT

GET BUILDER CLASS CODE AND MAKE CALL OPERATION

221 6110000055
66600
222 6170000223
223 6160000001
224 6170000225
225 6110000120SB1
SB6
CALL
SB6
CALL
DOXJBUILDC
B0
BEADUSER
1
BEADUSER
M.MKOPR,Y,ALLOC,Y,BLDCLL,B0,Y,BLDCC,B0

MORE PRELIMINARY CONSTRUCTION

236 6110000120
244 6110000120
255 6110000120
263 6110000120DOXJ
DOXJ
DOXJ
DOXJM.COLECT,Y,ALLOC,Y,BLDCLL,-CLSTSZ
M.CFILE,Y,ALLOC,Y,BLDSCR,1,KJLOC+5,-SCRSZ
M.CBLK,Y,BLDSCR,B0
M.WRITE,Y,BLDSCR,6,NAME,1

MAKE BUILDER

274 6110000120
300 7110777741SETXJ
XROXJM.CSPROC,Y,BLDCC,Y,FATH
-NMAP,-NMAP,-BLDFL,-BLDENT,Y,BLDCL

MAKE MAP ENTRIES

310 6110000120
322 5110000043
5120000044
323 37621
5160000075
324 6110000120DOXJ
SA1
SA2
IX6
SA6
DOXJM.MPCHRW,Y,BLDCC,B0,Y,BLDSCR,B0,B0,-SCRSZ
SCRSZ
BLDFX
X2-X1
ROSZ
M.MPCHRO,Y,BLDCC,1,Y,BLDFL,-SCRSZ,-SCRSZ,-ROSZ

GET GLOBAL DIRECTORY

336 6110000062
66600SB1
SB6GDIRCE
B0

```
337 6170000340 CALL BEADUSER
340 6160000001 SR6 1
341 6170000342 CALL BEADUSER
342 6110000067 SR1 GDIRC
66600 SR6 R0
343 6170000344 CALL BEADUSER
344 6160000001 SR6 1
345 6170000346 CALL BEADUSER

*
*
* CREATE LOCAL DIRECTORY, AND PARTIALLY INITIALIZE
*
346 6110000120 DOXJ M.CCLIST,Y.ALLOC,Y.LDIRC,-LDIRSZ
354 5110000047 SA1 LDIRSZ
7261000001 SX6 X1+1
355 5160000076 SA6 LDIRFSZ
6110000120 DOXJ M.CFILE,Y.ALLOC,Y.LDIRF,1,XJLOC+5,-LDIRFSZ
366 6110000120 DOXJ M.CBLK,Y.LDIRF,B0
374 6110000120 DOXJ M.WRITE,Y.LDIRF,B0,XJLOC+5,1,-1

*
*
* NOW PLACE SOME ITEMS IN LOCAL DIRECTORY
*
405 5110000630 ENTERL LCLALOC,Y.ALLOC
*
407 6110000120 DOXJ M.CCLIST,Y.ALLOC,Y.BDCPY,30
415 6160000014 SR6 12
6170000031 SR7 Y.BDCPY
416 013000015500000000001 XJ BEAD GET A COPY OF BEAD CLIST
*
420 6110000120 DOXJ M.CAPIN,Y.BDCPY,7,Y.TEMP
426 5110000631 ENTERL TTYFILE,Y.TEMP
430 6110000120 DOXJ M.CAPIN,Y.BDCPY,8,Y.TEMP
436 5110000632 ENTERL TTYREQ,Y.TEMP
440 6110000120 DOXJ M.CAPIN,Y.BDCPY,9,Y.TEMP
446 5110000633 ENTERL TTYRESP,Y.TEMP
*
450 6110000120 DOXJ M.DELCL,Y.BDCPY DESTROY COPY OF BEAD CLIST
*
*
* NOW SET UP CONTENTS OF CLIST
*
455 5130000046 SA3 BLDCKBS
6110000120 DOXJ M.CAPOUT,Y.BLDCL,X3+0,Y.MAST
464 6110000120 DOXJ M.CAPOUT,Y.BLDCL,X3+1,Y.FATH
472 6110000120 DOXJ M.CAPOUT,Y.BLDCL,X3+2,Y.BLDCLL
500 6110000120 DOXJ M.CAPOUT,Y.BLDCL,X3+1,Y.BLDCL
506 6110000120 DOXJ M.CAPOUT,Y.BLDCL,X3+1,Y.BLOSCR
514 6110000120 DOXJ M.CAPOUT,Y.BLDCL,X3+1,Y.BLOCC
522 6110000120 DOXJ M.CAPOUT,Y.BLDCL,X3+1,Y.BLOFL
530 6110000120 DOXJ M.CAPOUT,Y.BLDCL,X3+1,Y.GDIRF
536 6110000120 DOXJ M.CAPOUT,Y.BLDCL,X3+1,Y.GDIRC
544 6110000120 DOXJ M.CAPOUT,Y.BLDCL,X3+1,Y.ALLOC
552 6110000120 DOXJ M.CAPOUT,Y.BLDCL,X3+1,Y.BEAD
560 6110000120 DOXJ M.CAPOUT,Y.BLDCL,X3+1,Y.LDIRC
566 6110000120 DOXJ M.CAPOUT,Y.BLDCL,X3+1,Y.LDIRF
```

574 6110000120

DOXJ

NOW CALL BUILDER

Y.BLDCLL

CLEAN UP

601 6110000120

DOXJ

M.DELSUB,Y.BLDCC

606 6110000120

DOXJ

M.DELCL,Y.BLDCL

613 6110000120

DOXJ

M.DELBLK,Y.BLDSCR,B0

621 6110000120

DOXJ

M.DELFIL,Y.BLDSCR

ALL DONE

626 5110000074

S&I

RUNBLD7

63710

S&T

X1

627 0270000000

JD

R7

HERE

651 0270000000



X1, BEADUS1

37

THIS ROUTINE MAKES AN ENTRY IN LOCAL DIRECTORY

X1 NAME
X2 INDEX OF OBJECT

```
652 76670          ENTERL  SX6      B7
      5160000132      SA6      ENTERL7
      10611          BX6      X1
653 5160000133      SA6      ENTERLNM
      73620          SX6      X2
654 5160000134      SA6      ENTERLCX
      6110000120      DOXJ     M.READ,Y.LDIRF,B0,ENTERLDX,1
665 5110000135      SA1      ENTERLDX
      7261000001      SX6      X1+1
666 54610          SA6      A1
      6110000120      DOXJ     M.CAPOUT,Y.LDIRC,-ENTERLDX,-ENTERLCX
675 6110000120      DOXJ     M.WRITE,Y.LDIRF,B0,ENTERLDX,1
706 5110000135      SA1      ENTERLDX
      7231000001      SX3      X1+1
707 6110000120      DOXJ     M.WRITE,Y.LDIRF,X3,ENTERLNM,1
720 5110000132      SA1      ENTERL7
      63710          SB7      X1
721 0270000000      JS       B7
```

THIS SUBROUTINE XFERS B2 ITEMS
(OR 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

```

722  43074      SET      Mx0      60
      66570      Sx5      B7
      10611      Bx6      X1
723  6170000724 CALL      SETA
724  10622      Bx6      X2
725  6170000726 CALL      SETA
726  10633      Bx6      X3
727  6170000730 CALL      SETA
730  10644      Bx6      X4
731  6170000732 CALL      SETA
732  10655      Bx6      X5
733  6170000734 CALL      SETA

734  66750      SETB     Sx7      B5
      0270000000      JB       B7

      SETA
735  0602000734      GT       B0,B2,SETB
      0326000737      PL       X6,SETA1
736  13660      Bx6      X6-X0
      53160      SA1      X6
      10611      Bx6      X1
737  56610      SETAT    Sx6      B1
      6111000001      Sx1      B1+1
740  6122777776      Sx2      B2-1
      0270000000      JB       B7
```

```
741 01300001560000000001
743 61600000004
744 01300001550000000001
746 0200000746
```

ERR

```
XJ
SR6
XJ
JP
```

ERROR SUBROUTINE

READ VERSION

SAVEREG

4

READ

*

END OF CORE

DATA

0

20

35354

STORAGE USED
6600 ASSEMBLY

2255 STATEMENTS
10.016 SECONDS

182 SYMBOLS
884 REFERENCES

000004 INVENTED SYMBOLS

SIMULATION OF ROOT OF A USER PROCESS
SYMBOLIC REFERENCE TABLE.

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BEAD	155	16/05 L	19/27	21/17	21/20	24/09
BEADUSER	634	18/14	18/24	19/02	19/07	21/08 L
		18/16	18/26	19/04	19/09	
BEADUSX	641	21/16 L				
BEADUS1	645	21/13	21/14	21/20 L		
BLDCXBS	46	12/17 L	19/40			
BLDENT	41	12/12 L	18/40			
BLDFL	40	12/11 L	18/40			
RLDFX	44	12/15 L	18/45			
BUILDCE	55	13/10 L	18/21			
BUILDE	50	13/05 L	18/11			
CLSTS7	42	12/13 L	18/32			
C.ACAP	36	3/39 D				
C.ADDOPT	37	3/40 D				
C.ADDORD	41	4/05 D				
C.ALLOC	1	3/07 D				
C.BDAT	105	4/31 D				
C.BLKCAP	106	4/32 D				
C.CAGEN	113	4/37 D				
C.CAPIN	23	3/27 D	15/27			
C.CAPOU	24	3/28 D	3/29			
C.CAPOUT	24	3/29 D	15/22			
C.CBLK	11	3/15 D	15/16			
C.CCC	15	3/19 D				
C.CCCLOA	62	4/06 D				
C.CCLIST	7	3/13 D	15/14			
C.CEVCH	13	3/17 D				
C.CFILE	10	3/14 D	15/15			
C.COEN	114	4/38 D				
C.CHKBLK	41	3/42 D	4/28			
C.CHMPRO	123	4/45 D				
C.CHMPRW	122	4/44 D				
C.CHNGWD	67	4/11 D				
C.CLRDAE	70	4/12 D				
C.CLRIB	74	4/16 D				
C.COPYOP	40	3/41 D				
C.CPROC	12	3/16 D				
C.CPZRO	126	4/50 D				
C.CRALBK	64	4/08 D				
C.CSPROC	14	3/18 D	15/17			
C.DELAB	76	4/18 D				
C.DELBLK	42	3/43 D	15/25			
C.DELCL	57	4/03 D	15/24			
C.DELFIL	43	3/44 D	15/26			
C.DELSUB	72	4/14 D	15/23			
C.DESECH	101	4/23 D				
C.DISMAP	51	3/50 D				
C.DISPOP	107	4/33 D				
C.DISPST	54	3/53 D				
C.DISSEN	55	4/01 D				
C.DLOPR	132	5/01 D				
C.DLPROC	66	4/10 D				
C.DONATE	63	4/07 D				

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C.DSCAP	20	3/22 D	3/23	
C.DSCLX	124	4/48 D		
C.DSFMAP	56	4/02 D		
C.DSPAB	104	4/30 D		
C.DSPALC	121	4/43 D		
C.DSPCAP	20	3/23 D		
C.DSPCLX	102	4/24 D		
C.DSPOB	120	4/42 D		
C.DSPSP	115	4/39 D		
C.ESMGEN	25	3/30 D		
C.ESMLOC	26	3/31 D		
C.FIXC	32	3/35 D		
C.FIXD	33	3/36 D		
C.FRETUR	31	3/34 D		
C.FSON	21	3/24 D		
C.GETE	6	3/12 D	4/27	
C.GETEVF	75	4/17 D		
C.HANG	6	4/27 D		
C.INCHR	117	4/41 D		
C.INMTR	131	4/53 D		
C.INTFIL	2	3/08 D		
C.JUMP	52	3/51 D		
C.MAPZRO	45	3/46 D		
C.MGETF	100	4/21 D		
C.MGETH	77	4/19 D		
C.MKMPRO	46	4/47 D		
C.MKMPRW	47	4/46 D		
C.MKOPR	27	3/32 D	15/20	
C.MODPC	65	4/09 D		
C.MOVBLK	50	3/49 D		
C.MOVCP	127	4/51 D		
C.MOVEC	22	3/25 D	3/26	
C.MOVMT	130	4/52 D		
C.MPCHRO	46	3/47 D	4/47	15/19
C.MPCHRW	47	3/48 D	4/46	15/18
C.MVECAP	22	3/26 D		
C.NEWUN	53	3/52 D		
C.NWTMP	103	4/29 D		
C.PINT	60	4/04 D		
C.PROBE	41	4/28 D		
C.READ	3	4/25 D	15/13	16/15
C.REDSHP	44	3/45 D		
C.RESTOR	17	3/21 D	16/10	
C.RETPAR	111	4/35 D		
C.RETURN	30	3/33 D	16/13	
C.RFILE	3	3/09 D	4/25	
C.SAVE	16	3/20 D	16/07	
C.SELF	0	3/06 D		
C.SENDE	5	3/11 D		
C.SETDAE	71	4/13 D		
C.SETIIB	73	4/15 D		
C.SPRET	125	4/49 D		
C.TIMDT	112	4/36 D		

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M.CBLK	7777636	15/16 D	18/34	19/18					
M.CCLIST	7777640	15/14 D	18/32	19/13	19/25				
M.CFILE	7777637	15/15 D	18/33	19/17					
M.CSPROC	7777635	15/17 D	18/39						
M.DELBLK	7777625	15/25 D	20/11						
M.DELCL	7777626	15/24 D	19/37	20/10					
M.DELFIL	7777624	15/26 D	20/12						
M.DELSUB	7777627	15/23 D	20/09						
M.MKOPR	7777632	15/20 D	18/27						
M.MPCHRO	7777633	15/19 D	18/49						
M.MPCHRW	7777634	15/18 D	18/44						
M.READ	7777641	15/13 D	18/17	22/15					
M.WRITE	7777631	15/21 D	18/35	19/19	22/20	22/23			
NAME	77	14/08 L	17/09 S	18/35					
NCMAP	37	12/10 L	18/40						
NMAP	36	12/09 L	18/39						
READSELF	163	16/15 L	17/07						
REGAREA	100	14/10 L	16/08	16/11					
RETURN	162	16/13 L	17/11						
ROSZ	75	14/06 L	18/47 S	18/49					
RSTREG	160	16/10 L	21/21						
RUNBLD	203	17/11	18/06 L						
RUNBLD7	74	14/05 L	18/07 S	20/15					
SAVEREG	156	16/07 L	21/08	24/07					
SCRSZ	43	12/14 L	18/33	18/44	18/44	18/49	18/49		
SET	722	18/17	18/34	18/44	19/19	19/42	19/49	20/09	22/20
		18/17	18/35	18/49	19/19	19/43	19/50	20/10	22/20
		18/27	18/35	18/49	19/25	19/44	19/51	20/11	22/23
		18/27	18/39	19/13	19/30	19/45	19/52	20/12	22/23
		18/32	18/40	19/17	19/32	19/46	19/53	22/15	23/15 L
		18/33	18/40	19/17	19/34	19/47	20/01	22/15	
		18/33	18/44	19/18	19/37	19/48	20/05	22/19	
SETA	735	23/19	23/21	23/23	23/25	23/27	23/32 L		
SETA1	737	23/33	23/37 L						
SETB	734	23/28 L	23/32						
TYPE	34	12/07 L							
XJLOC	120	14/15 L	18/34	18/16	19/30	19/43	19/49	20/04	22/15
		18/16	18/34	19/17	19/31	19/44	19/49	20/05	22/18
		18/17	18/35	19/17	19/32	19/44	19/50	20/08	22/19
		18/26	18/38	19/17	19/33	19/45	19/50	20/09	22/19
		18/27	18/40	19/18	19/34	19/45	19/51	20/09	22/20
		18/31	18/43	19/18	19/36	19/46	19/51	20/10	22/22
		18/32	18/44	19/19	19/37	19/46	19/52	20/10	22/23
		18/32	18/48	19/19	19/41	19/47	19/52	20/11	
		18/33	18/49	19/24	19/42	19/47	19/53	20/11	
		18/33	19/12	19/25	19/42	19/48	19/53	20/12	
		18/33	19/13	19/29	19/43	19/48	20/01	22/14	
Y.ALLOC	0	11/05 D	18/32	19/13	19/23	19/51			
		18/27	18/33	19/17	19/25				
Y.BDCPY	31	11/23 D	19/25	19/26	19/30	19/32	19/34	19/37	
Y.BEAD	1	11/06 D	16/05	19/52					
Y.BLDCC	22	11/16 D	13/12	18/27	18/39	18/44	18/49	19/47	20/09

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Y.BLDCL	23	11/17 D	19/42	19/45	19/47	19/50	19/53		
		18/32	19/43	19/45	19/48	19/51	20/01		
		18/40	19/44	19/46	19/49	19/52	20/10		
Y.BLDCLL	21	11/15 D	18/27	19/44	20/05				
Y.BLDLFL	20	11/14 D	13/07	18/17	18/49	19/48			
Y.BLDSCR	24	11/18 D	18/33	18/34	18/35	18/44	19/46	20/11	20/12
Y.CODE	17	11/10 D	16/16						
Y.FATH	15	11/07 D	18/39	19/43					
Y.FREE	20	11/12 D	11/15	11/17	11/19	11/21	11/23	11/26	
		11/14	11/16	11/18	11/20	11/22	11/24		
Y.GDIRC	27	11/21 D	13/17	19/50					
Y.GDIRF	30	11/22 D	13/22	19/49					
Y.LDIRC	25	11/19 D	19/13	19/53	22/19				
Y.LDIRF	26	11/20 D	19/17	19/18	19/19	20/01	22/15	22/20	22/23
Y.MAST	16	11/09 D	15/15	15/18	15/21	15/24	15/27	16/13	
		13/13	15/16	15/19	15/22	15/25	16/07	16/15	
		15/14	15/17	15/20	15/23	15/26	16/10	19/42	
Y.SIZE	33	10/18	11/26 D						
Y.TEMP	32	11/24 D	19/30	19/31	19/32	19/33	19/34	19/35	