

ADDRESS	LENGTH	BINARY CONTROL CARDS.	
0	0	IDENT	HEAD
0		END	

ENTRY POINTS.

OPERCL	-	1	PROFILE	-	6	XJRET	-	104	XJ	-	42
DAYFILE	-	4	CMMDSTF	-	0	HASKTAB	-	106	XJF	-	54
DAYF	-	5	XJR	-	72	ENTRY	-	217			

EXTERNAL SYMBOLS.

GLOBAL	EC:ZRM	EC:DFIL	EC:ESML	EC:SAVE
EC:PROB	EC:DBLK	START	EC:DSSE	EC:RTRN

BCPL GENERAL HEAD

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IDENT HEAD

B C P L G E N E R A L H E A D
SYSTEM LINK

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3	GLBSIZE	EQU	3
536	STKSIZE	EQU	350
2	FRECAPS	EQU	2

EXT	GLOBAL
ORG	0

0

*
*
*
*
*

MACRO TO SPECIFY ONE LOGICAL MAP ENTRY

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

*
*

* FIXED LENGTH PART

0	0000000000000000000001	DATA	1	TYPE	
1	0000000000000000000000	DATA	0		
2	03035703141620221706	DATA	1	/CC,CLNPROF/	
3	03035706220524222700	DATA	1	/CC,FRETBW/	
4	03175703141620061100	DATA	1	/CO,CLNPFI/	
5	03145703141620221706	DATA	1	/CL,CLNPROF/	
6	05065703142006230322	DATA	1	/EF,CLPFSCR/	
7	0000000000000000000003	DATA	3	LOGICAL MAP ENTRIES	
10	0000000000000000000024	DATA	20	COMPILED MAP BUFFER	
11	0000000000000000000541	CON		GLOBAL0*GLBSIZE*STKSIZE	FILED LENGTH
12	0000000000000000000217	CON		ENTRY ENTRY POINT	
13	0000000000000000000007	CON		NEXTCAP CLIST SIZE	
14	0000000000000000000577	CON		GLBSIZE*STKSIZE*ENDCAPS	SCRATCH FILE SIZE

*
*
*
*

MAP DESCRIPTOR

15	05065703142006230322	MAP	EF,CLPFSCR,0,0,0,ENDCAPS,0
20	05065703141620221706	MAP	EF,CLNPROF,1,ENDCAPS,ENDCAPS,GLOBAL0,1
23	05065703142006230322	MAP	EF,CLPFSCR,2,ENDCAPS,GLOBAL0,GLOBAL0*GLBSIZE*STKSIZE,0
26	77777777777777777777	DATA	-0

*
*
*
*

CLIST DESCRIPTOR

0		LOC	0
		ENTRY	OPERCL,DAYFILE,DAYF,PROFILE,CMMDSTF
0	03145703151504232406	CMMDSTF	DATA 1/CL,CMMDSTF/
1	03145717200522230000	OPERCL	DATA 1/CL,OPERS/
2	05065703141620221706	COFFILE	DATA 1/EF,CLNPROF/
3	03035703141620221706	CLASSCOD	DATA 1/CC,CLNPROF/
4	0000000000000000000000	DAYFILE	DATA 0
5	0000000000000000000000	DAYF	DATA 0
6	0000000000000000000000	PROFILE	DATA 0
7		NEXTCAP	BSS 0
36		LOC	#0
36	77777777777777777777	ENDCAPS	DATA -0

*
*
*

MACROES TO LINK COMPASS WITH BCPL PROGRAMS

RESET	MACRO	
	SB5	=XGLOBAL0
	SA2	B5
	SB6	X2
	SB1	1
	SB2	-1
	MX6	0
	ENDM	
GLOBAL	MACRO	NAME, INDEX TO INITIALIZE GLOBAL
	SX7	NAME
	SA7	B5+INDEX
	ENDM	
SAVE	MACRO	PUT AT EACH ENTRY
	SA7	B6
	SX7	B6
	SA7	=XGLOBAL0
	ENDM	
RETURN	MACRO	
	RESET	
	SA2	B6
	SB4	X2
	JP	B4
	ENDM	

*
*
*

REGISTER WHOMPING SUBROUTINES

	PXJ	MACRO	LOC	
	+	XJ	LOC	
	-	VFD	30/0	
		ENDM		
37	01605260000000000000	VFD	4/0,7/70B,7/52B,7/140B,35/0,60/0,60/0	
40	00000000000000000000			
41	00000000000000000000			
42	56760	XJ	SAVE	
43	6146000002	SB4	B6+2	POINT AT CALL NAME
44	0130777773	+	XJ	-4
	0000000000	-	VFD	30/0
45	10166		BX1	X6
	6150000000 X		RETURN	IN CASE ANY RETURN
51	01605223300000000000	VFD	4/0,7/70B,7/52B,7/46B,7/140B,28/0,60/0,60/0	
52	00000000000000000000			
53	00000000000000000000			
54	56760	XJF	SAVE	
55	6146000003	SB4	B6+3	
56	0130777773	+	XJ	-4
	0000000001	-	VFD	30/1
57	6140000001	+	SB4	1
	0200000061	-	JP	L1
60	66400	+	SB4	B0
61	10166	L1	BX1	X6
	6150000000 X		RESET	
64	0440000065		EQ	B4,B0,L2
	0260000002		JP	B6+2
65	56260	L2	SA2	B6
	63420		SB4	X2
	0240000000		JP	B4
				JUMP TO FRETURN
				NORMAL RETURN

B C P L G E N E R A L H E A D
COMPASS ROUTINES

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66 01605230700000000000
67 00000000000000000000
70 00000000000000000000
71 000

VFD

4/0.7/70B,7/52B,7/61B,7/140B,35/0.60/0.60/0

72 56760 XJR
73 5116000002

ENTRY

XJR

SAVE

SA1

B6+2

BX7

X1

SA1

A1+B1

SB4

B6+4

SA7

ENDCAPS=3

BX7

X1

SA7

A7+B1

XJ

-4

VFD

12/1,18/1,60/ENDCAPS=3

74 6146000004 10711 54111
75 10711 54771
76 0130777773 0001000001
77 000000000000000000033
100 10166 6150000000 X

BX1

X6

RETURN

104 XJRET
104 0130000105 0000000000

ENTRY

XJRET

BSS

0

XJ

*+1

VFD

30/0

105 4000000000 X 0000000001

VFD

1/1,29/EXEC:RTRN,30/OPERCL

*
*
*

MASK TABLE

106

74
000075

ONES
MASKTAB
ZEROS
ONES

ENTRY
SET
BSS
DUP
SET
VFD
SET
ENDD

MASKTAB:ENTRY,XJ,XJF
60
0
61
60-ONES
ZEROS/0:ONES/-0
ONES=1


```

#
# SAVE REGISTERS AND DISPLAY STACK ENTRY WHEN CALLED WITH ERROR
#
203 0130000206 ERROR PXJ ERR1 SAVE THE REGISTERS
204 0130000210 PXJ ERR2 DISPLAY THE TOP ENTRY OF THE STACK
205 0400000205 EQ * HANG IN LOOP
#
# THE IP LISTS
#
206 4000000000 X ERR1 VFD 1/1,29/=XEC:SAVE,30/0PERCL,60/10B
      0000000001
207 000000000000000000010
210 4000000000 X ERR2 VFD 1/1,29/=XEC:DSSE,30/0PERCL,60/30B,60/1
      0000000001
211 000000000000000000030
212 000000000000000000001
213 4000000000 X ERR3 VFD 1/1,29/=XEC:ESML,30/0PERCL,60/*+1,60/-0
      0000000001
214 0000000000000000000215
215 77777777777777777777

```

*
* CODE TO BE EXECUTED AT BEGINNING
*

216	0400000203	ERRENT	EQ	ERROR
217		ENTRY	BSS	0
217	5110000006	* RETURN IF THIS IS THE INITIAL CALL		
	0301000104	SA1	6	
220	6150000000 X	ZR	X1,XJRET	
	7175000004	SB5	GLOBAL0	
221	56750	SX7	B5+GLBSIZE+1	
	6150000000 X	SA7	B5	HIDE INITIAL STACK P
224	0130000213	RESET		
225	7170000227	PXJ	ERR3	SET ERROR SELECTION MASK
226	0200000000 X	SX7	ENTRY3	
		JP	=XSTART	

ENTRY2

* PUT CODE TO DESTROY THE CODEFILE IN GLOBAL VECTOR THEN CALL IT

227	6110000036	* MOVE THE WORDS		
230	5111000233	ENTRY3	SB1	30
	10711	ENTRY5	SA1	B1+ENTRY4
231	5171000000 X		BX7	X1
	6111777776		SA7	B1+GLOBAL0
232	0610000230		SB1	B1-1
	0200000000 X		GE	B1,B0,ENTRY5
		* GOTO IT		
		JP	GLOBAL0	

* THE CODE TO DESTROY THEN DO SUBPROCESS RETURN

233		ENTRY4	BSS	0
L	0		LOC	0
L	0	0130000016 X	* ZERO THE CODE FILE MAP ENTRY	
		0000000000	+	XJ GLOBAL0+DST5
L	1	0130000013 X	-	VFD 30/0
		0000000000	* DELETE ALL THE BLOCKS	
L	2	5110000015 X	DST4	XJ DST3+GLOBAL0
		7261000400	-	VFD 30/0
L	3	5160000015 X	SA1	DST3+GLOBAL0+2
		5160000024 X	SX6	X1+256
L	4	0130000022 X	SA6	DST3+GLOBAL0+2
		0000000000	SA6	DST6+GLOBAL0+2
L	5	0306000001 X	+	XJ DST6+GLOBAL0
			-	VFD 30/0
L	6	0130000010 X	ZR	X6,DST4+GLOBAL0
			* KILL THE FILE	
			+	XJ GLOBAL0+DST1

ADDRESS OF LAST DELETED BLOCK

L	7	0130000012 X	-	VFD	30/0
			+	XJ	GLOBAL+DST2
L	10	4000000000 X	-	VFD	30/0
			DST1	VFD	1/1,29/=XEC:DFIL,30/0PERCL,60/CODFILE
L	11	000000000000000000002			
L	12	4000000000 X	DST2	VFD	1/1,29/=XEC:RTRN,30/0PERCL
L	13	4000000000 X	DST3	VFD	1/1,29/=XEC:DBLK,30/0PERCL,60/CODFILE,60/0
L	14	000000000000000000002			
L	15	000000000000000000000			
L	16	4000000000 X	DST5	VFD	1/1,29/=XEC:ZRM,30/0PERCL,60/CLASSCOD,60/1,60/CODFILE
L	17	000000000000000000003			
L	20	000000000000000000001			
L	21	000000000000000000002			
L	22	4000000000 X	DST6	VFD	1/1,29/=XEC:PROB,30/0PERCL,60/CODFILE,60/0
L	23	000000000000000000002			
L	24	000000000000000000000			
L	0				

END

35244

STORAGE USED
6600 ASSEMBLY

471 STATEMENTS
2.629 SECONDS

47 SYMBOLS
495 REFERENCES

[illegible]

BCPL GENERAL HEAD
SYMBOLIC REFERENCE TABLE.

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ONES 7777776

[illegible]

OPERCL	1
PROFILE	6
START	0
STKSIZE	536
XJ	42
XJF	54
XJR	72
XJRET	104
ZEROS	74

EXTERNAL*