

ALLOCATION BLOCK TEST
STORAGE ALLOCATION.

COMPASS - VER 2.

04/30/71 22.56.05.

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ADDRESS LENGTH

0 1135
1135

BINARY CONTROL CARDS.

IDENT TALOCX
END

BLOCKS	TYPE	ADDRESS	LENGTH
PROGRAM*	LOCAL	0	552
LITERALS*	LOCAL	552	1
CHARS	LOCAL	553	42
PARAS	LOCAL	615	320

ENTRY POINTS.

TEST1 - 0

EXTERNAL SYMBOLS.

REGSAVE	START	TEMP	PACK	ERR
TESTN	CVTOUT	TYPEOUT	XPACK	

	IDENT	TALOCX
		BOOKKEEPING
	*	
	*	
	*	
0	TMACROS	XTEXT
0	MACROS1	XTEXT
0	OPNAMES	XTEXT
0	CLIST	XTEXT

ALLOCATION BLOCK TEST
ALLOCATION BLOCK CREATION

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ENTRY TEST1

```
0 46000 TEST1 NO
*
* STEAL ALL THE MABS SPACE
*
553 15010255020506172205 SAY (MAB BEFORE)
621 00000000000000000104 DOPER C.DSPAB,1,=XTEMP,5
13 0130000625 + DUMP TEMP,5
21 5110000000 X SA1 TEMP
10211 BX2 X1
21136 AX1 30 . CHARGED SPACE
22 20236 LX2 30
21236 AX2 30 . SPACE IN USE
37612 IX6 X1-X2
23 5160000147 X SA6 TEMP+103 . CAN GET THIS MUCH
7160000063 SX6 C.DONATE . SET UP THE DONATION
24 5160000144 X SA6 TEMP+100
7160000001 SX6 1
25 5066000001 SA6 A6+1
7160000145 SX6 K.MALLOC
26 5066000001 SA6 A6+1
27 0130000144 X CALL TEMP+100,=XERR
*
* NOW DISPLAY THE MAB AND MY AB FO CHECKING
*
555 23242211202005045515 SAY (STRIPPED MAB)
635 00000000000000000104 DISPAB 1
557 55153155010200000000 SAY ( MY AB)
651 00000000000000000104 DISPAB K.MALLOC
*
* ALLOCATOR INITIALLY
*
661 00000000000000000121 DOPER C.DSPALC,TEMP,14
560 01141417030124172255 SAY (ALLOCATOR TO START WITH)
DUMP TEMP,16
*
* CREATE A FILE TO TEST INTERACTION BETWEEN COMPACTOR
AND FILE BLOCK CREATION
*
670 00000000000000000010 DOPER C.CFILE,K.MALLOC,K.FILE2,3,SHAPES2
USE PARAS
675 00000000000000000020 SHAPES2 DATA 16,16,32
USE *
*
* CREATE A FILE WITH AN ENORMOUS NUMBER OF
SMALL BLOCKS TO FILL ALMOST ALL AVAILABLE SPACE
*
700 50 P.SCRL USE PARAS
SHAPES EQU 508
BSS 0 SHAPE NUMBERS
DUP P.SCRL-2,1
DATA 2
USE *
746 00000000000000000010 DOPER C.CFILE,K.MALLOC,K.FILE1,P.SCRL-3,SHAPES
```

111 7160000011
5160000012 X
112 7160000213
5066000001
113 7170000000
7150000002
753 0000000000000000104
117 5110000000 X
10211
21136
120 20236
21236
37612
121 7120000454
37662
122 0336000126 +
5170000014 X
123 0130000012 X
125 36775
0200000114 +

LOOP1

SX6 C.CBLK
SA6 TEMP+10
SX6 K.FILE1
SA6 A6+1
SX7 0 . INITIALIZE FILE ADDR
SX5 2 . ADDRESS INCREMENT
DOPER C.DSPAB,K.MALLOC,TEMP,8
SA1 TEMP
BX2 X1
AX1 30
LX2 30
AX2 30
IX6 X1-X2
SX2 300 . SEE IF WERE ABOUT FULL
IX6 X6-X2
NG X6,FUL
SA7 TEMP+12
CALL TEMP+10,ERR
IX7 X7+X5
JP LOOP1

*
* NOW THAT ECS IS NEARLY FULL, MAKE A LOT OF
* SMALL FBS
*

757 0000000000000000121
563 31172555150131551605
140 10477
7160000042
141 5160000012 X
7170000000
142 7150000100
143 5170000014 X
36775
144 0130000012 X
146 37347
147 0303000150 +
0323000143 +
766 0000000000000000121
570 06220107150516240504
162 0130000775 +

FUL

LOOP2

DOPER C.DSPALC,TEMP+30,14
SAY (YOU MAY NEVER SEE THIS MANY BLOCKS AGAIN)
DUMP TEMP+30,16
BX4 X7 . SAVE LAST FILE ADDR+2
SX6 C.DELBLK
SA6 TEMP+10
SX7 0
SX5 100B . INCREMENT FOR DELETIONS
SA7 TEMP+12
IX7 X7+X5
CALL TEMP+10,ERR
IX3 X4-X7
ZR X3,++1
PL X3,LOOP2
DOPER C.DSPALC,TEMP,14
SAY (FRAGMENTED AND READY TO GO)
DUMP TEMP,16

*
* SET UP TO MAKE A LARGE EVENT CHANNEL
*

1001 0000000000000000104
173 7170000013
5170000106 X
174 7170000145
5077000001
175 7170000154
5077000001
176 5110000000 X
10211

DOPER C.DSPAB,K.MALLOC,TEMP,8
SX7 C.CEVCH
SA7 TEMP+70
SX7 K.MALLOC
SA7 A7+1
SX7 K.TEVCH1
SA7 A7+1
SA1 TEMP
BX2 X1

43

```

AX1      30
LX2      30
AX2      30
IX6      X1-X2      . THIS IS HOW MUCH THERE IS
SX5      5
IX6      X6-X5
AX6      1
SA6      A7+1
SAY      (READY OR NOT)
DOPER    C.DSPCLX,TEMP+10
DOPER    C.DSCLX,TEMP+20
CALL     TEMP+70,ERR
DOPER    C.DSPCLX,TEMP+30
DOPER    C.DSCLX,TEMP+40
SAY      (WHEW)
DUMP     TEMP+10,40
DOPER    C.DSPALC,TEMP,14
SAY      ( AFTER THE TRAUMA)
DUMP     TEMP,16

DISPLAY THE NEW OBJECT

DOPER    C.DSPOB,K,TEVCH1,TEMP+10,20
SAY      (NEW OBJECT DISPLAYED)
DUMP     TEMP+10,8

NOW START FRAGMENTING AND CREATING FILE BLOCKS

SX6      C.CBLK
SA6      TEMP+20
SX6      K.FILE2
SA6      A6+1
SX6      0      . SET FIRST ADDRESS TO CREATE
SA6      A6+1
SX6      C.DELBLK
SA6      TEMP+10
SX6      K.FILE1
SA6      A6+1
SX7      2      . INITIAL BLOCK TO DELETE
SA5      JPNOSPC
BX6      X5
SA6      =XSTART-1
SX5      100B      . INCREMENT FOR DELETIONS
SA7      TEMP+12
CALL     TEMP+10,ERR
IX7      X7+X5
IX3      X4-X7
SA1      TEMP+22      . GET LAST ADDRESS CREATED
SX6      X1+32      . COMPUTE NEXT ADDRESS
CALL     TEMP+20,ERR
SA6      A1
PL       X3,LOOP4

```

```
*
*      REPORT HOW MANY RIG BLOCKS CREATED
*
603 14012324550104042205      SAY      (LAST ADDRESS CREATED+32)
326 0130001060 +              DUMP      TEMP+22,1
*
*      NOW TRY TO CLEAN UP
*
1064 00000000000000000101      DOPER      C.DESECH,K.TEVCH1
337 5150000451 +              SA5        JPNBLK
*
*      10655
340 5160777776 X              BX6        X5
*      7160000042              SA6        =XSTART-1
341 5160000012 X              SX6        C.DELBLK
*      7170000000              SA6        TEMP+10
342 7150000002              SX7        0
*      7160000213              SX5        2
343 5066000001              SX6        K.FILE1
344 5170000014 X              SA6        A6+1
*      10677              LOOP3          SA7        TEMP+12
345 0130000012 X              BX6        X7
*      36775              LOOP3.1        CALL      TEMP+10,ERR
347              LOOP3.2          IX7        X7+X5
*      37347              IX3        X4-X7
350 0303000351 +              ZR        X3,++1
*      0323000344 +              PL        X3,LOOP3
351 5150000460 +              SA5        JPERR
*      10655              BX6        X5
352 5160777776 X              SA6        =XSTART-1
1066 00000000000000000043      DOPER      C.DELFIL,K.FILE1
356 7160000042              SX6        C.DELBLK
*      5160000024 X              SA6        TEMP+20
357 5110000026 X              SA1        TEMP+22 . GET LAST EXTANT ADDRESS+32
*      7160000000              SX6        0
360 5160000026 X              SA6        TEMP+22
*      37361              LOOP5          CALL      TEMP+20,ERR
361 0130000024 X              SX6        X6+32
363 7266000040              IX3        X6-X1
*      37361              NZ        X3,LOOP5
364 0313000360 +              DOPER      C.DELFIL,K.FILE2
1070 00000000000000000043
*
*      STILL HAVE TO GIVE MAB BACK ITS MONEY
*
606 11235515315501025502      SAY      (IS MY AB BACK TO WHAT IT WAS?)
1076 00000000000000000104      DISPAB    K.MALLOC
410 7160000001              SX6        1
*      5160000146 X              SA6        TEMP+102
411 7160000145              SX6        K.MALLOC
*      5160000145 X              SA6        TEMP+101
412 0130000144 X              CALL      TEMP+100,ERR
612 15010255010624052255      SAY      (MAB AFTER GOODS RESTORED)
1112 00000000000000000104      DISPAB    1
434 0000000000 X              JP        =XTESTN
*
*      BLOCK COUNNT BE CREATED YET
```

```

*
435 0200000436 +      JPNOSPC  JP      NOSPC
436 5110000006      NOSPC    SA1      6      . CHECK OUT ERROR CLASS
                                SX1     X1=6
437 0311000000 X      NZ      X1=XERR
1122 000000000000000000000065      DOPER  C=MODPC,K,SELF,1,LOOP4.1
1126 000000000000000000000026      DOPER  C=ESMLOC,=-0
1130 000000000000000000000030      DOPER  C=RETURN
451 0200000452 +      JPNBLK   JP      NOBLK
452 5110000006      NOBLK    SA1      6
                                SX1     X1=3
453 0311000000 X      NZ      X1=ERR
1131 000000000000000000000065      DOPER  C=MODPC,K,SELF,1,LOOP3.2
457 0200000443 +      JP      GNER
460 0200000000 X      JP      =XERR
                                HERE
461 000000000000000000000016      TRAILER SELF
1135      END

```

37360

STORAGE USED
6600 ASSEMBLY

2570 STATEMENTS
12.466 SECONDS

300 SYMBOLS
396 REFERENCES

000117 INVENTED SYMBOLS

ALLOCATION BLOCK TEST
SYMBOLIC REFERENCE TABLE.

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CALLBEAD	466	PROGRAM#	8/18 L							
CVTOUT	0	EXTERNAL#	4/08	4/29	6/20	7/05	7/51			
			4/27	5/42	6/26	7/44				
C.CBLK	11		5/01	6/29						
C.CEVCH	13		5/46							
C.CFILE	10		4/39	4/53						
C.DELBLK	42		5/29	6/35	7/12	7/29				
C.DELFIL	43		7/28	7/38						
C.DESECH	101		7/08							
C.DONATE	63		4/15							
C.DSCLX	124		6/11	6/14						
C.DSPAB	104		4/06	4/26	4/28	5/07	5/45	7/43	7/50	
C.DSPALC	121		4/32	5/25	5/39	6/17				
C.DSPCLX	102		6/10	6/13						
C.DSPOB	120		6/23							
C.ESMLOC	26		8/07							
C.MODPC	65		8/06	8/13						
C.RESTOR	17		4/06	4/27	4/34	5/42	6/19	6/26	7/43	7/51
			4/08	4/28	5/27	6/10	6/20	7/04	7/44	8/18
			4/26	4/29	5/41	6/16	6/25	7/05	7/50	
C.RETURN	30		8/08	8/18						
C.RFILE	3		8/18							
C.SAVE	16		4/06	4/27	4/34	5/42	6/19	6/26	7/43	7/51
			4/08	4/28	5/27	6/10	6/20	7/04	7/44	8/17
			4/26	4/29	5/41	6/16	6/25	7/05	7/50	
ERR	0	EXTERNAL#	4/06	4/28	5/19	6/10	6/19	7/04	7/44	8/09
			4/06	4/28	5/26	6/10	6/20	7/05	7/44	8/12
			4/07	4/29	5/27	6/11	6/20	7/05	7/49	8/14
			4/08	4/29	5/27	6/12	6/24	7/09	7/50	8/15
			4/08	4/29	5/36	6/13	6/25	7/21	7/50	
			4/22	4/33	5/40	6/14	6/25	7/29	7/51	
			4/26	4/34	5/41	6/15	6/26	7/35	7/51	
			4/26	4/34	5/41	6/16	6/26	7/39	7/51	
			4/27	4/40	5/42	6/16	6/46	7/43	8/05	
			4/27	5/01	5/42	6/18	6/51	7/43	8/07	
			4/27	5/08	5/46	6/19	7/04	7/44	8/08	
FUL	126	PROGRAM#	5/16	5/25 L						
GENER	443	PROGRAM#	8/07 L	8/14						
JPERR	460	PROGRAM#	7/25	8/15 L						
JPNBLK	451	PROGRAM#	7/09	8/09 L						
JPNOSPC	435	PROGRAM#	6/40	8/02 L						
K.BEAD	146		8/18							
K.FILE	151		8/18							
K.FILE1	213		5/01	5/03	6/37	7/16	7/29			
K.FILE2	214		4/40	6/31	7/39					
K.MALLOC	145		4/19	4/40	5/08	5/48	7/46			
			4/29	5/01	5/46	7/44				
K.SELF	150		8/07	8/14						
K.TEVCH1	154		5/50	6/24	7/09					
LOOP1	114	PROGRAM#	5/07 L	5/20						
LOOP2	143	PROGRAM#	5/33 L	5/38						
LOOP3	344	PROGRAM#	7/18 L	7/24						
LOOP3.1	345	PROGRAM#	7/20 L							

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LOOP3.2	347	PROGRAM*	7/21 L	8/14							
LOOP4	306	PROGRAM*	6/44 L	6/52							
LOOP4.1	316	PROGRAM*	6/52 L	8/07							
LOOP5	360	PROGRAM*	7/33 L	7/37							
NEWBLK	474	PROGRAM*	8/18 L								
NOBLK	452	PROGRAM*	8/09	8/10 L							
NOSPC	436	PROGRAM*	8/02	8/03 L							
PACK	0	EXTERNAL*	4/06	4/28	5/27	6/10	6/19	7/04	7/50		
			4/26	4/34	5/41	6/16	6/25	7/43			
P.SCRL	50		4/48 D	4/50	5/01						
READSELF	467	PROGRAM*	8/18 L								
REGSAVE	0	EXTERNAL*	8/18	8/18							
RESTREG	463	PROGRAM*	8/18 L								
RETURN	465	PROGRAM*	8/18 L								
SAVEREG	461	PROGRAM*	8/17 L								
SHAPES	700	PROGRAM*	4/49 L	5/01							
SHAPES2	675	PROGRAM*	4/40	4/41 L							
START	0	EXTERNAL*	6/42 S	7/11 S	7/27 S	8/18					
TEMP	0	EXTERNAL*	4/07	4/29	5/08	5/42	6/14	6/30 S	7/20	7/45 S	
			4/07 S	4/29 S	5/17 S	5/46	6/14 S	6/36 S	7/29 S	7/47 S	
			4/08	4/29	5/18	5/46 S	6/15	6/44 S	7/30 S	7/48	
			4/08	4/33	5/26	5/47 S	6/15 S	6/45	7/31	7/51	
			4/14 S	4/33 S	5/26 S	5/52	6/18	6/48	7/33 S	7/51 S	
			4/16 S	4/40 S	5/30 S	6/11	6/18 S	6/50	7/34	7/51	
			4/21	5/01 S	5/33 S	6/11 S	6/20	7/05	7/39 S	8/07 S	
			4/27	5/02 S	5/35	6/12	6/24	7/09 S	7/44	8/08 S	
			4/27 S	5/08	5/40	6/12 S	6/24 S	7/13 S	7/44 S	8/09 S	
			4/27	5/08 S	5/40 S	6/12	6/26	7/18 S	7/44	8/14 S	
TESTN	0	EXTERNAL*	7/51								
TEST1	0	PROGRAM*	3/03 E	4/01 L							
TYPEOUT	0	EXTERNAL*	4/06	4/28	5/27	6/10	6/19	7/04	7/50		
			4/26	4/34	5/41	6/16	6/25	7/43			
XPACK	0	EXTERNAL*	4/06	4/27	4/34	5/42	6/19	6/26	7/43	7/51	
			4/06	4/27	4/34	5/42	6/19	6/26	7/43	7/51	
			4/08	4/28	5/27	6/10	6/20	7/04	7/44		
			4/08	4/28	5/27	6/10	6/20	7/04	7/44		
			4/26	4/29	5/41	6/16	6/25	7/05	7/50		
			4/26	4/29	5/41	6/16	6/25	7/05	7/50		