

1) Command fromson, but BEAD CHUST ai 2) an example with the BET 3) temporary disk limits 4) CALTSS has alveg -5) Del Supe? 6) Return Key? 7) What namerpace get in SCOKE? 5) Lord Hermundory for cell 1 9) Shazam 10) "prompt

```
C. DISK.S
???
BEAD HERE
C, DISK, S
DISK HERE
GET. ECSINIT
OBTAINED
FIN
BEAD HERE
C, PRINTER, S, ECSINITT
SPACE. 100000
OK
TOO MUCH
C.DISK.S
                 Jist of VV & GENE files
on old DISK, S - check against
my stuff now
DISK HERE
GET, XTEXT
OBTAINED
<1
OBTAINED
LIST EXHAUSTED
FIN
BEAD HERE
LOGOUT
VV
LOGGED OUT
TRIM
OK
SPA ←CE,30000
C. DIT
USER. VV
REMEMBER TO LOGOUT
C. DISK.S
```

BAD SUB C,DISK,S DISK HERE

LIST, VV								7
XTAXT	400		311					
TTEST	400		315					
W	400		325					
BINARY	33400		401					
TEVCHI	3400		721					
LAST	400		745					
CLIST	400		755					
SUBPROC	13400		1001					
TALOCI	4000		1271					
ISUBPS	2400		1311					
TEVCH	25400		1325					
TCLSTI	2000		1341					
TCLST	15000		1345					
TCOMP	4000		1351					
TMISC1	1000		1375					
TMISC	13000		1401					
ALLOC	20400		1461					
TFILE	13000		1771					
TSUBP1	1000		2001					
TSUBP	20000		2005					
TFILE1	1400		2325	-				
TMACROS	2400		2365					
ECSINIT	2400	2400	2561					
TALOC	12400		3031					
ECSMACT	400		3211-					
HOROR	1000		4065					
TTIME!	1000		4355					
TTIME	13000		4361					
TCOMPI	1400		4365					
MAPS	12000		4505-					
SWAP	4400		4545					
SYSENT	15000		4561					
PROCESS	6400		4635					
SNO	1000	1000	4641					
ECSACT	1400		4661					
INITL	7400		4775					
COMED	1400		9411					
TESUL I	DIETE	2400	5451					
LIST COM	FLEIE							

LIST, GENE		
HOTSHIT	2000	405
PROTEKT	400	1205
T 4		1211
CPII	33400	1765
TERECS	20400	2101
LASTBIN		2201
W	400	2255
ISUBPS	5000	2311
LAST	400	2315
	13400	2335
IMACROS	4400	2371
MACROS1	1000	2375
TSUBP2	1000	2721
TSUBP1	3000	2725
TCLST15	1000	2731
TCLST1	1000	3015
TCLST2	1000	3021
TCLMOVE	1400	3065
TFULLP	1000	3171
IMOVERR	1000	3175
OPR 1	1000	3215
SMALLP	400	3305
OPMACS	3000	3435
OPR2	2000	3471
OPRINT	2000	3475
RALPH	1000	3511
TECBIN	13400	3521
KILL	400	3615
CCARDS	400	3705
CLIST	400	4055
TALECS	15000	4071
NUMOUT	1400	4101
CPUCODE		4205
	3400	4271
IS12BIN	4000	4301
TECLBIN	17000	4471
COMNDCL	400	4501
PROCESS	13000	4705
PROCSYM	1400	5015
ERRNUMS	2400	5025
ERRCODE	1000	5235
ECSINIT	2400	5261
INITL	7400	5265
ECSACT	1400	5271
OPNAMES	1400	5275
TSTCRDS	400	5301
ACTIONS	1000	5371
HASHER	1000	5 42 1
LIST COMP	LEIE	
FIN WERE		
BEAD HERE		

Sec of the second

```
ENTER TITLE LINE
  STURGIS
  SCOPE FORMAT CONVENTIONS ?
  YES
  EVCH CLEARED
  PRINTING ...
  COMMAND PROCESSOR HERE
  !LOGOFF
  GOOD DAY
  CAL TSS VERSION 1.2
  FERBARASE DORECTORY?
  · KEITH
  COMMAND PROCESSOR HERE
  ! SERV
  SERVICES HERE
  *FIN
  COMMAND PROCESSOR HERE
  !DISKSLD
  MOUNT DISK, S DUMP TAPE
  ENTER LOAD, LIST, OR FIN
  TLIST
  ENTER USER NAMES TO DLIST OR 1.1 TO QUIT ($$ LISTS USERS)
  +VV
  + .
  BEGIN SCANNING TAPE
  XTEXT
             VV
                               400
  TTEST
             VV
                               400
  W
             VV
                               400
 BINARY
             VV
                             34000
- TEVCH1
             VV
                              3400
LAST
             VV
                               400
 CLIST
             VV
                               400
SUBPROC
             VV
                             13400
TALOC1
             VV
                              4000
- I SUBPS
             VV
                              2400
  TEVCH
             VV
                             25400
- TCLST1
             VV
                              2000
  TCLST
             VV
                             15000
  TCOMP
             VV
                              4000
 TMISC1
             VV
                              1000
  TMISC
             VV
                             13000
 ALLOC
             VV
                             24000
  TFILE
             VV
                             13000
TSUBP1
             VV
                              1000
  TSUBP
             VV
                             20000
TFILE1
             VV
                              1400

    TMACROS

             VV
                              2400
                              2400
 ECSINIT
             VV
  TALOC
             VV
                             12400
■ ECSMAC
             VV
                               400
  HOROR
             VV
                              1000
- TTIME1
             VV
                              1000
  TTIME
             VV
                             13000
- TCOMPI
             VV
                              1400
MAPS
             VV
                             12000
 SWAP
             VV
                              4400
 SYSENT
             VV
                             15000
 PROCESS
             VV
                             12400
  SNO
             VV
                              1000
  ECSACT
             VV
                              1400
 INITL
            VV
                              7000
 VTEXT
             VV
                               400
  PROCSYM
            VV
                              1400
  END OF DISK, S TAPE
  ENTER LOAD, LIST, OR FIN
```

V) Dec 170 14 Dec 70 TCLST bug remove stack error from jump call 14 Dec'TO 1 " put extensition TROB, SETLIM 14 Na 70 5 " more stringert alog limit on blocks 5 Dec 170 compactor times compactor test / u design the "AB Cruiser" of finish 4 Jan 71 designery the AB's negais sysonts vis-a-vis CL140 failure 17 Dec 4 Jan 71 16 Dec recover TSUBP stuff 17 Pec get compactor out of central 28 Dec MOVE BLOCK ACCOUNTING TOLC. Jan 71 28 Pec 1 28 Dec 28 Pec Block in may / Charge U.N. harale Change UN court on maps 4 Jan Chawd, Letdae, Chrone Feb Det TYPECODE table out of CM 1 Feb 1 Feb Redo ECSSUB FIX MOVMT to conform to PONATE 9 June 17 option the for new style AB's

FOR MAB

A Probe retions I magnefe is x 7? tong Paul no It White interrigt datum after Subject ? ? lage 37???
Page 19-3,2 evror on more block
Write of jump cal Errors on return with farameters Whose are capability option bit those days (vir-a-vir cape ap) - Low bits What give deglay grovers? Often litz on more - any cap? Visglay system clock times Return v rodo grez I leverifed my operations (page follow) Tind was son Parameters to Charge unifer rank Her Ab operations

Change to OPER macro in INITL, to facilitate futting names in the directory i) put remake OPER: "OPER MACRO NAME, ACTIONS." "MACRO OPER, NAME, ACTION, ... " 2) remove all the actual agas mann, starting with read file, to an XTEXT file called OPER, XTEXT; call in the file appropriately 3) add the C. names to the localing field of each onewrone of the exer macro (ignored by mith.) talk to I Governd

LITTLE THINGS

31 May 1) fix S.ECSRA so that they won't assemble s.ECSFL unless the low b bite are zero; then fix the allocation writers:

checks for sulprocess call 1. not room in stack 2. not room is sulp Ft for params 3. not room in selly local C-list for params 4. call non-existent sulp checks for block seeroms 1. negative user pointer 2. block extends beyond FL (check boundary) 3. user count . GT. max count air oper 4. in called subp - block is properly placed in param area - 1st wel is actual size of block - next peram is 'mox count'+1 (5: negative under 6. block spans local to next colins. 7. block not start is local c-ent 8. block spons 2 non local Clust 9. block ox tends too far 10. c-lest gone 11. param is pused as I facter herder next cap is at under + max count 12, and supplied count is GT, mox went odpuble &

SUBPA SUBPE 1) exter sulp C 2) call sulp A 3) colo returnio params I megative court and 2) data Letern Port falerither 3) capabilet block not all wither 4) capability block completely in lecal (-list of sulep A 5) copability week in leval clest of A and also reptle in clerit of B 6) copability block purtle in color of Bord purtle in Clent of CV 1) between control -meg counts V Denta Bulipa reg pto to reterm control V S) # params > ECS beffer 2) call sup A - zero pto to retur contr return contract v 3) call sulp D 4) do retern en porons return blech find () a) cap left falls in local C-list of A b) cap lek spons lecal E-lest and C-list of B make sure gets in c) cop like spons C-lit of B Ecs copy of local C-list

gotern outhoring [X8 /1/87] ptx: lour tout inder cap reter poron call API D: I Tout pte API P: I went sieler ECS befor control on regar: at P. PAPAUC Hogge Hedright

in AP area Bytes Acrys MAX #

O=data
1= rapability P.S. daten - block paran 0= data 1= capability 19/137 1 count / pts /

```
start here
         TITLE Test capability across Clist boundary stunte
         EJECI
  * A's Clist only
  SP1060 TOPER 1,,, K. CALLC, (42/10, 18/CSTORE+1), (42/10, 18/CCAPAIL), 8,
                 K. CALLA, O, O, O,
                  C. RETPAR, (0 y (42/4, 18/ACAP+1), 0,
                  C. Return, 0,000,
                  0,0,0,0
           Bix Cliet only
          Topen =
 SP1061
           Cir Cliet only
Topon =
 X
 SP1062
                                        CCAP+1
         A+Biz clist
*
SP1063
         Topoz -
                                        ACAP+28-
          B&C'2 clist
59 1064
          Topon =
                                        BCAP+28
        very top of full Clist
SP1065 Tapor =
                                        90-5
       to of ful clist of
5P1066 Topor 3,?;?, -
                                       90-4
```

```
TITE various errors in return control parameters
  * normal, base-line, really works paramets
  SP1070 Toper 1,,,1(42/2, 7/SPFLC-2), (42/2, 18/028-1), 8)
                    K. CALLA, 0,0,0,
                    6. Retgaz, (42/2, 18/ASTORE+1), (42/2, 18/ACARI), 0,
                    C. Return, 0,0,0,
                    0,0,0,0
  * neg par ret count
                    3,?,?, K.CALLC, (42/-1, -
 * neg cop ret count
SP1072 (42/2), (42/-1.)
 * par net count + ptr too large
5P1073 Typon 3:33, K. Calle, (42/2, 18/SPFLC-1), ( --)
* openet continder, Too large
SP1074 Taper 3,?;?, K. Calle, ( ), (42/2, 18/29)
* neg for ret pts
SP1075 Teger 3;?, K. Calla, (42/2, 18/-1) -
* neg apret index
                                        18/spades (42/2, 18/-1)
```

```
* no return authorized
 s P1077 Typen 3,?, ?, K.CALLA, O, O, O,
                  C. Retpar, (42/2, 18/astro+1), (42/2, 18/aup+1),0,
                  0,0,0,0,
                  0,0,0,0)
 * net author, but nothing netel
SP1078 neg . ftr 70 ret auth
Sp1078 7 gor 3,?;?
                 C.WFILE, K.FILE, BEGSPC+LOOPE, INST1,1
          DOPER
          450
                  CODE
 INSTI
         VFD
                  12/0130B 318/-6
                                      , 18/-13/000
          455
         Topor 3,?,?, K. Calle, (42/2,18/Cstoret1), (42/2,18/clap+1), 8
SP1079
                  K. calla, 0,0,0,
                  c. retgar, G,G,C,
                  ( return , 0,0,0)
SP1079 same but returne Trespas
 * ptr te retauth 2 FL
          Dojen INST2
                12/0130B, 18/-6, 18/SPFLC, 12/1000
  1NST2
          UFO
         Topol
SP1080
```

* Tras to relion How many data SPIOSI Topen 3,?,?, K. Calle, (42/2, 18/CSTORE+1), (42/2, CCAPH), 8, K. calla, 0, 0, 0, C. Retpury (42/3, 18/ASTORE+1), (* too mong caps SP1082 Topon Crespon, (42/2, 18/astract), (42/3, 18/deeptl),0, 372) * return more stuff than the buffer wit hold SP1083 Topor 3,33, K-calle, 0,0,0, 0, K. Colla, 0,0,0, C. Retgar, (42/251,18/0),

256

```
* PAGE
 * TEST FILE CREATION OPERATION.
 +
    CREATE. FILE (AB, WC.INDEX, NSN, SNL)
 *
 *
    AB AND WC.INDEX ARE RESPECTIVELY THE ALLOCATION BLOCK
 *
    TO BE CHARGED AND THE NDEX IN THE WORKING CLIST TO
    RETURN THE NEW FILE CAPABILITY NO TESTS WILL BE RUN CONCERNING THE
*
*
X
    NSN IS THE NUMBER OF SHAPE NUMBERS THE FILE IS
   NO HAVE THIS NUMBER MUST BE POSITIVE (>0) AND
*
*
   SMALLER THAN P.SCRL-3 SINCE THE FILE DESCRIPTION
   MUST FIT IN P.SCR, AND ITS LENGTH IS 3+NSN.
X
*
* - CREATE 1 LEVEL PILE . C. CFILE
F1
   TOPER NIII COMEN, AB, C. TEMP, 1, SHAPES
*
   CAUSE 2,0,3 ERROR (NON POSITIVE NSN.)
×
*
                             , C. CFILE,
FZ TOPER 5,60/2, (48/3, 18/0), AD, C.TEMP, O, SHAPES
*
* CAUSE 2, 1,3 ERROR (NSN TOO LARGE)
X
                               , C. CFILE,
    TO PER $ 60/2, (42/3, 18/1), AB, C.TEMP, P. JCRL-Z, SHAPES
F3
¥
* CREATE (P.SCRL-3) LEVEL FILE.
```

F4 TOPER N, IN AB, C. TEMP, P.SCRL-3, SHAPES

SNL IS THE ADDRESS OF A UST OF SHAPE NUMBERS. IT MUST BE NON NEGATIVE, AND NOT GREATER THAN FL-NSN. X THEREATER IN 2,2,4 BROOK (SNL IS NEGATIVE) X TOPER B,60/2, (42/4,19/2), C.CFILE, AB, C.TEMP, 1,-1 F5 X CAUSE 2,1,4 HEROR (SNL+NSN >= FL) F TOALR E, 60/2, (42/4, 18/1), C.CFILE, AB, C.TEMP, 1, FL-1 F6 * * THE SHAPE NUMBER LIST CONSISTS OF A SERIES OF 60-BIT H NON-NEGATIVE POWER OF TWO A LESS THAN 2179 THE SEEM OF THE SHAPE NUMBERS MUST BE < 2159 CAUSE
CREATE 3,7 BEROR (MESSERVE SHIPE NUMBUR) TOPLE B, 60/3, KARD 60/7, C. CFILE, AB, CTEMP, 1, SNL. DEC F7 × CAUSE 3,8 HERER (SHAPE NUMBER >= 2417) TOPLE B, 60/3,60/8, C.CFILE, AB, C.TEMP, 1, SNL.BIG H X

3,9 LERGIR (SHAPE NUMBER OTHER THAN ST NOT PUNGE)

F9 TOPER E, 60/3, 60/9, CCFILE, AB, C. TEMP, 2, 8702485

*

+

SHAPES BSS 0

DUP P.SCRL-2,1

DATA 1 ... 1=210 IS A GOOD SHAPE NUMBER

**

SNL. END DATA 0 ... ILLEGAL SHAPE NUMBER

SNL. BIG DATA 131072 ... =217, TOO LARGE FOR A SHAPE #

** NOTROW

BADGHES DATA 100,3 ... DECOND SHAPE NUMBER NOT A POWLYZ

**

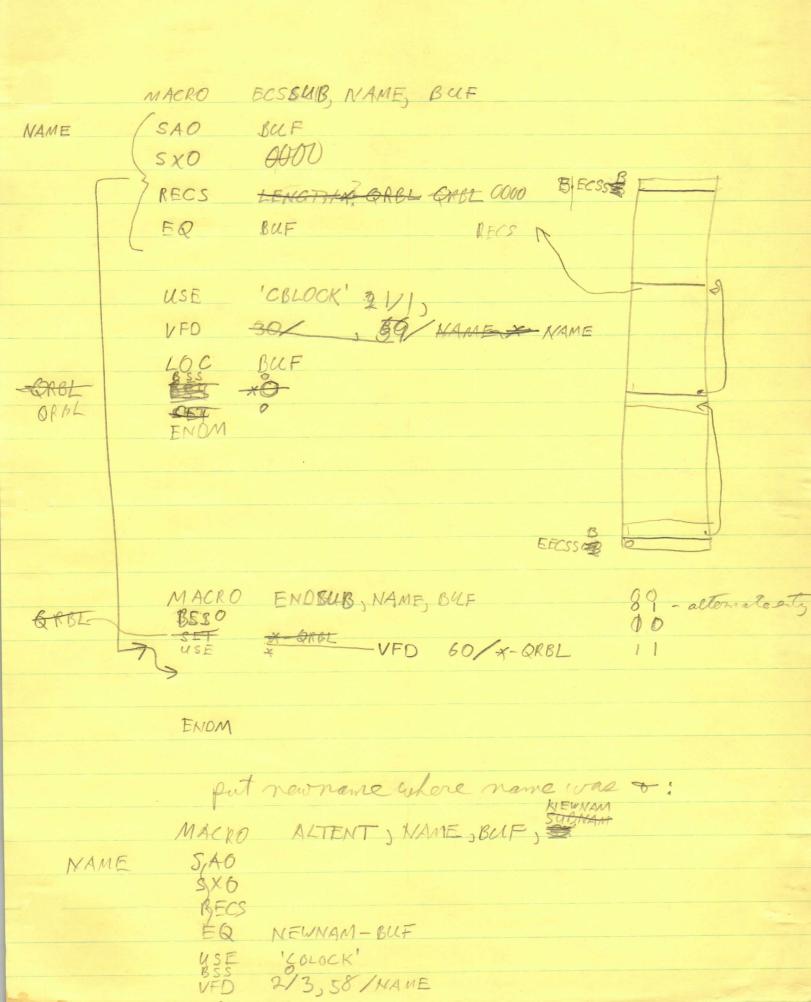
BIGFILE DATA 2048, 65536, 65536, 65536 ... 12+3×16 = 25934

**

NOTICISE DATA 2048, 65536, 65536, 65536 ... 11+3*16=59

×

THREALEN DATA 2,2,2



(XO = fust evailable BCS) SAI = XBECSSOBJULY SAT XI WORKTOOO EQ 133 B4, WERKRON SA1 X1 EQ SCAN HOWORK -LXI X, ALTBAT NG XI+1 . add of code to move WORKTOOD SB2 SB2 SB3 · beyord end B3-B2 . count S B2 B2, more code WECS XO+B2: advance ECS ally -SXO 40 SXI , get main ontry PTR SAI AO SX2 10 XI · pickup SAO, SXO word X2+XO · stick in ECS addr 5A2 B X 6 CS 46 包XI) SXA B2 . word count 30 . steck is in an KECS deemy AXA Jemmy S 43 5A/A/-1 BXA X3+X1 SXT A641