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ALTERNATIVES

- #1 CREATING A KLAD PACK FROM FIELD UPDATE TAPES
- #2 CREATING A KLAD PACK USING THE EXISTING MONITOR ON YOUR PRESENT KLAD
- #3 CREATING A KLAD PACK USING A BOOTSTRAP OF THE CUSTOMER'S MONITOR ON A BOOTABLE MAGTAPE (EMERGENCY USE CONDITION ONLY)
- #4 GO TO ANOTHER SITE TO MAKE A KLAD PACK IF YOU CAN'T DO THE PACK ANY OF THE ABOVE WAYS

THE PURPOSE FOR PROVIDING SEVERAL ALTERNATE WAYS OF UPDATING YOUR KLAD 10 PACK, IS TO PROVIDE COMPLETE FLEXIBILITY, TO PREVENT PECULIAR SYSTEM CONFIGURATIONS FROM CAUSING YOU PROBLEMS. YOU SHOULD SELECT THE ALTERNATIVE WHICH BEST SUITS YOUR REQUIREMENTS AND FOLLOW THE INSTRUCTIONS IN THE PROCEDURE FOR THAT ALTERNATIVE.

A. WHAT IS KLAD-10?

KLAD-10 (K L ACCEPTANCE & DIAGNOSTICS FOR TOPS-10) IS A SINGLE DISK-PACK, WHICH CONTAINS ALL CURRENTLY AVAILABLE TOPS10 SOFTWARE TO RUN AND DIAGNOSE A TOPS-10 SYSTEM.

SPECIFIC CONTENTS:

1. A COMPLETE 7.02 TOPS 10
2. THE CONTENTS OF THE CURRENT DIAGNOSTIC-TAPES
DFXLK-X AND DDXLA-N
3. THE CONTENTS OF THE CURRENT DIAG.-TAPE IN THE [6,11] AREA
4. AN AREA [35,1414], WHICH CONTAINS THE P.A.&T. VERSION OF THE
72 HOURS RELIABILITY TEST.

CONVENTIONS THAT MAY BE USED IN THIS DOCUMENT:

THE EXPRESSION <CR> INDICATES THAT THE USER IS DIRECTED TO INSERT A CARRIAGE RETURN AT THAT POINT IN THE INSTRUCTION SEQUENCE. IN THE MAJORITY OF CASES, IT IS ASSUMED THAT THE USER WILL TERMINATE ALL ENTRIES WITH A CARRIAGE RETURN, UNLESS SPECIFICALLY DIRECTED TO DO OTHERWISE.

THE WORDS CTRL "C", CTRL "\", CTRL "Z" INDICATES THAT THE USER IS DIRECTED TO DEPRESS THE CTRL<CONTROL> KEY AND THE OTHER INDICATED KEY SIMULTANEOUSLY.

BACKUP METHOD OF BOOTING KLDCP IN THE SYSTEM.

SECTION B1: STAND-ALONE DIAGNOSTIC USAGE WITH KLDCP (VERSION 17 OR LATER)

USING THE LATEST DECTAPE BASED RELEASE OF KLDCP YOU CAN RUN ALL
DIAGNOSTICS IN NORMAL MANNER (PACK MODIFYING DIAGNOSTICS OF
COURSE EXCLUDED)

1. MOUNT KLDCP DECTAPE AND START IT AND MOUNT KLAD-10
ON A DUAL-PORTED DRIVE 0 WRITE-PROTECTED.
2. TYPE "B" TO START 20 MIN SHURT CHECKOUT.

SECTION B2: BOOTING KLDCP FROM DISK

PREFERRED METHOD FOR BOOTING KLDCP IN THE SYSTEM

THE PROCEDURE INVOLVES RSX-20F, A SPECIAL RSX-PROGRAM "BOO"
AND ANOTHER SPECIAL "DBOOT"

EXAMPLE:

YOU HAVE KLAD-10 ON UNIT 0 IN A/B MODE WRITE-ENABLED.
SET SWITCHES ON 11 TO (OCTAL) 203.
PRESS "ENABLE" AND "SW R&G" AT THE SAME TIME.
-- THIS WILL LOAD RSX-20,
RSX-20F VA15-12 13:24 10-MAY-84

[SY0: REDIRECTED TO DRO:]
[DB0: MOUNTED]

PRESS "CONTROL N". THIS SHOULD GET YOU THE PAR&

IF YOU GET SOMETHING LIKE THIS PRINTED:

ING -- I/O ERROR ON TASK FILE TSK=PARSER PAR=GEN

YOU MAY HAVE THE DRIVE WRITE LOCKED.

NOTE:

IF YOU SEE "PAR>", YOU HAVE NOT STOPPED THE KL FROM RUNNING.
YOU HAVE TO TYPE "ABORT" TO THE PARSER. YOU SHOULD THEN
GET SOMETHING LIKE THIS:

PAR%

TYPE "MCR BOO" TO THE PARSER, WHICH WILL COME BACK WITH
BOO>

TYPE "DBOOT" TO BOO>, WHICH WILL COME BACK WITH KLOCP.

NOW PLEASE WRITE LOCK THE DRIVE.

ALL YOU HAVE TO DO NOW IS TO TYPE IN "B" <CR>.
THIS WILL RUN THE FRONT-END AND 10-BASED DIAGNOSTICS FOR YOU.

TO LOAD THE 7.02 MONITOR

WRITE ENABLE ALL DRIVES
PUT 207 IN THE SWITCHES ON THE 11 FRONT-END
PRESS ENABLE SWITCH ON THE KL10
AND PUSH SW/REG LOAD
THE SYSTEM WILL BOOT UP WITH KLI
LOAD MICROCODE, CONFIGURE MEMORY
ENABLE CACHE, AND LOAD BOOTS.
AT THE BOOTS PROMPT TYPE KLAD:<CR>
BOOT>KLAD: <CR>

THE 7.02 MONITOR WILL LOAD AND START.

NOTE -- THERE IS A MONITOR FOR TRI-SMP SYSTEM. TO USE
-- THIS TYPE "KLAD:NONTRI" AT THE ROOT> PROMPT.

TO CRASH THE OPERATING SYSTEM TYPE "CTRL \"
SYSTEM WILL COME BACK WITH PAR> THEN YOU TYPE SHUT <CR>

PAR%ABORT <CR>

OVERVIEW:

ALL MAJOR DIAGNOSTIC FILES ON KLAD-10 ARE PATCHABLE (ALL *.A10 AND ALL *.A11 FILES, *.R1C AND *.R1N FILES CAN ONLY BE PATCHED VIA UPD2 ON FLOPPIES).

THE PATCHING FOLLOWS 3 MAJOR STEPS:

1. GET THE FILE TO BE PATCHED INTO A WORK-AREA AND FIND OUT, WHERE IT IS KEPT ON KLAD-10.
2. PUT THE FILE BACK INTO THE AREA(S) IT IS KEPT ON KLAD-10.
3. UPDATE THE FILE <F-S>KLAD.UPD TO KEEP TAB ON CHANGES MADE TO THIS KLAD-10.

TO MINIMIZE THE WORKING WITH THE DIFFERENT "SAVE"-FORMATS CREATED ON THE 10/20 BY OUR ASSEMBLERS/LOADERS (MACRO/LINK MACY11, PALIC ETC) THE "ASCIIIZED" FORMAT WAS INVENTED. CONVRT ALLOWS YOU TO "ASCIIIZE" THE OUTPUT FILES OF THE ABOVE MENTIONED ASSEMBLER/LOADERS AND CROSS-ASSEMBLERS.

BASICALLY AN *.A11 FILE CONSISTS OF LOAD-LINES AND A TRANSFER-LINE.

CONVRT TRANSLATES 6-BIT OCTAL VALUES INTO 7-BIT ASCII, STARTING WITH THE LEAST SIGNIFICANT BITS. PDP11 WORDS ARE THEREFORE REPRESENTED BY 3 ASCII CHARACTERS (6+6+2=16) THIS IS THE BASIC STORAGE UNIT IN ASCIIIZED FILES. PDP10 WORDS ARE TRANSLATED INTO THREE UNITS (16+16+4=36)

6-BIT VALUES BETWEEN 0 AND 74 ARE TRANSLATED INTO 100 TO 174, VALUES 75 TO 77 ARE LEFT UNCHANGED.

THE GENERAL LINE FORMAT IS:

M T C , A , W1 , W2 , ... S <CARRIAGE RETURN>

M = E - PDP11 FILE, T - PDP10 FILE, ; - COMMENT LINE (TITLE)

T = "SPACE" - ASCIIIZED LINE, D - OCTAL PATCHING LINE

C = COUNT OF CONCURRENT WORD-UNITS (TIMES 3 FOR PDP10 WORDS)

A = ADDRESS OF FIRST OF THE C CONCURRENT WORDS

WX = CONTENTS OF WORDS

S = CHECKSUM-WORD (SUM OF A AND ALL W'S PLUS S GIVES 16-BIT ZEROS)

1. IF TYPE-FIELD IS 0 (OCTAL), THE ADDRESS AND WORD FIELDS ARE TRANSLATED FROM 6 OCTAL NUMBERS INSTEAD OF FROM 3 ASCIIIZED CHARACTERS AND NO CHECKSUM IS EXPECTED.
2. IF THE COUNT-FIELD IS LEFT OUT, THE FOLLOWING ADDRESS-FIELD IS TAKEN AS THE "START-ADDRESS" OF THE PROGRAM---TRANSFER-LINE AND END OF FILE IS ASSUMED.

THE BASIC EDITING SEQUENCE THEREFORE BREAKS DOWN TO:

1. SEARCH FOR TRANSFER-LINE AND INSERT LOAD-LINE IN FRONT OF IT.

EXAMPLE (PDP11-DIAGNOSTIC-ALL FILES; 1 WORD PATCH)

17000/107

LOAD-LINE HAS 1 WORD AND LOOKS LIKE

E01,17000,107

EXAMPLE (ALL-FILES 2 WORD PATCH)

17002/107

17004/110

LOAD-LINE WILL LOOK LIKE

E02,17002,107,110

THIS IS ONLY AN EXAMPLE:

 PUT YOUR KLAD PACK ON UNIT 0, PUT ALL THE SWITCHES ON THE 11 FRONT-END TO 0, THEN PUT ENABLE SWITCH ON AND PRESS DISK LOAD SWITCH. THIS WILL GIVE YOU RSX, LOAD MICROCODE, CONFIGURE MEMORY AND LOAD BOOT.

RSX-20F VA15-12 13:04 10-MAY-84

```

[SY0: REDIRECTED TO DB0:]
[DB0: MOUNTED]
KLI -- VERSION VA15-12 RUNNING
KLI -- MICROCODE VERSION 336 LOADED
KLI -- ALL CACHES ENABLED
LOGICAL MEMORY CONFIGURATION:
ADDRESS  SIZE  INT  TYPE CONTROLLER
00000000 256K  4   MF20  10
KLI -- BOOTSTRAP LOADED AND STARTED
BOOTS V1(4)

```

ETS>KLAD:

 SYSCHK(N,Y):

ACCEPT 1090 01-30-79

WHY FSLDAD: OPP

DATE: 8-24

TIME: 0926

STARTUP OPTION: C

NOTE***** RPR IS FOR RH10 UNIT#0

*CONTROLLER RPR IS OFF-LINE
DO YOU WANT IT TO BE 1)ON-LINE, OR 2)DOWN? (TYPE #)

2

?NO UNITS IN ACTIVE SWAPPING LIST

?NO STR'S IN SYS SEARCH LIST

TYPE STR NAME TO CHANGE ITS PARAMETERS(CR IF NONE, ALL IF ALL)

TYPE PHYSICAL UNIT NAME TO CHANGE ITS PARAMETERS(CR IF NONE,ALL IF ALL)

DO YOU WANT TO CHANGE THE ACTIVE SWAPPING LIST?

Y

FOR EACH CLASS TYPE PHYSICAL UNIT NAMES(EXTRA CR WHEN DONE)

CLASS 0

RPA0

CLASS 1

DO YOU WANT TO CHANGE THE "SYS" SEARCH LIST?

Y

TYPE STR NAMES FOR "SYS" SEARCH LIST(EXTRA CR WHEN DONE)

KLAD

HOWE BLOCKS TO BE WRITTEN ON WHICH PHYSICAL UNITS (EXTRA CR
WHEN THROUGH)(CR IF NONE, ALL IF ALL; "ALL" IS NORMAL CASE)

ALL

HOWE BLOCKS WRITTEN

STARTUP OPTION: Q

ACCEPT 1090 14:14:05 CTY SYSTEM 1369

.LOGIN 1,2

.? OPSER

.DET FROM [1,2]

.LOG [6,10]

JOB 1 ACCEPTANCE KLINIK/1090 CTY

PASSWORD: KL10

```

.P SETSRC
-----
* T
-----
KLAD:,FENCE

*CTRL "C"
-----
.TE CO DGMMA.A11
-----
E?K CORREJ
*NE ,SOLTSS ;SEARCH FOR E ,
-----
E ,X@,O"HH ;PRINT IT OUT
*TE01,35036,107 ;INSERT PATCH
-----
SS
-----
*-LS2TSS ;MOVE POINTER BACK TWO LINES
-----
E01,35036,107 ;CHECK TO MAKE SURE PATCH IS
E ,X@,O"HH ;IN THE RIGHT PLACE
*$EXSS ;EXIT TECO
-----
.DELE DGMMA.BAK ;DELETE BAK FILE
-----
FILES DELETED:
DGMMA.BAK
74 BLOCKS FREED

.AS KLAD DEV ;ASSIGN KLAD
-----
KLAD ASSIGNED

.RUN WHEEL
-----
SETTING WHEEL CAPABILITY

JOB # 1 (MAINTENANCE) SETTING WHEEL

.RUN KLAD10
-----

DECSYSTEM10 KP04/PP06 KLAD PACK CREATION PROGRAM, VER 0.2

COMMAND
*/DEV:DEV ;ASSIGN DEVICE
-----
*DGMMA.A11C6,103/TO11
-----
*CTRL "C" ;TO GET OUT OF KLAD10
-----
EXIT

```

KLAD 10

.PUN WHEEL

;CLEAR WHEEL

CLEARING WHEEL CAPABILITY

JOB # 1 (MAINTENANCE) CLEARING WHEEL.

.K/F

JOB 1, USER [6,10] LOGGED OFF CTY 1010 24-AUG-77
SAVED ALL FILES (25780 BLOCKS)
RUNTIME 2,64 SEC

.AT #C1,2J

PULL UP 207 ON THE PDP11 FRONT-END AND PRESS "SW REG"
LOAD SWITCH TO GET RSX SO YOU CAN CHECK TO MAKE SURE THE
PATCHES ARE ON THE 11 STRIP.

RSX-20F VA15-12 13:04 10-MAY-84

[SYD: REDIRECTED TO DD0:]

[DRC: MOUNTED]

KLI -- VERSION VA15-12 RUNNING

KLI -- ENTER DIALOG [NO,YFS,EXIT,BOOT]?

KLI>EXIT

CTRL BACKSLASH-----
PARABRUPT-----
CTRL BACKSLASH-----
PARABRUPT-----
BOO>DROOT-----
DFCSYSTEM DIAGNOSTIC CONSOLE

VERSION 0.17

SWR = 000207 DTE # 0

CMD:

>.P DGMMA.A11

DGMMA.A11 VER 0.2 25-APR-77

>.EF35036

035736 /000107

***** NOTE: TO PATCH AN A10 DIAGNOSTIC YOU HAVE TO FOLLOW THE A10 *****
 PATCHING TECHNIQUE LOCATED ON THE KLAD20.MEM DOCUMENT. *****
 YOU CANNOT PATCH A10 DIAGNOSTICS ON THE KLAD10 PACK, *****
 BECAUSE OF A MONITOR CHANGE. *****

YOU HAVE TO USE A KLAD PACK THAT IS ALREADY MADE TO DO THE FOLLOWING.

TO FORMAT A PACK YOU HAVE TO HAVE THE KLAD PACK ON THE SYSTEM.
SET SWITCHES ON THE 11 TO (OCTAL) 203.
THEN YOU PRESS, AT THE SAME TIME, "ENABLE" AND "SW REG".

THIS WILL LOAD RSX-20F FOR YOU.

RSX-20F VA15-12 13:04 1-MAY-84

[SY0: REDIRECTED TO DB0:]
[DB0: MOUNTED]

CLI -- VERSION V15-12 RUNNING
CLI -- ENTER DIALOG LNO,YES,EXIT,BOOT??
CLI>YES<CR>

CLI -- KL10 S/N: ###., MODEL B, 60 HERTZ
CLI -- KL10 HARDWARE ENVIRONMENT:
MOS MASTER OSCILLATOR
EXTENDED ADDRESSING
INTERNAL CHANNELS
CACHE

CLI -- RELOAD MICROCODE (YES,VERIFY,FIX,NO)?
CLI>YES<CR>

CLI -- MICROCODE VERSION 336 LOADED
CLI -- RECONFIGURE CACHE (FILE,ALL,YES,NO)?

CLI>ALL<CR>

CLI -- ALL CACHES ENABLED
CLI -- CONFIGURE KL MEMORY (FILE,ALL,REVERSE,FORCE,YES,NO)?
CLI>FORCE<CR>

STARTING MF20 DRE SCAN. WAIT 25 SEC/256K.

MEMORY RESOURCES:
CONTROLLER ADDRESS TYPE MODULES/GROUPS
 7 6 5 4 3 2 1 0

 10 MF20 0 0 0 0 0 0 0 4
CLI -- CONFIGURE MOS MEMORY (ALL,YES,NO)?
CLI>ALL<CR>

LOGICAL MEMORY CONFIGURATION:
ADDRESS SIZE INT TYPE CONTROLLER
00000000 256K 4 MF20 10

KLI -- LOAD KL BOOTSTRAP (FILE, YES, NO, FILENAME)?
KLI>NO<CR>

KLI -- EXIT (VFS, RESTART)?
KLI>YES<CR>

KLI -- CONFIGURATION FILE ALTERED
CTRL \

PARMCR 600<CR>

END>DDPDT<CR>

DFCSYSTEM DIAGNOSTIC CONSOLE
VERSION 0.17
SWR = 000002 UTE # 0
CMD:

>.KPC<CR>

>.B* <CR>

U.PAM IS LOADED, MEMORY IS CONFIGURED, SUBRTN IS LOADED AND KLDDT.

>. P DDPDT<CR>

PUT THE PACK THAT YOU ARE GOING TO FORMAT ONTO A DISK DRIVE.
ALSO PUT UP SWITCH 1 ON THE 11 FRONT-END.

>.STD<CR>

LIST THE PGM SWITCH OPTIONS? Y OR N <CR> - N

DRIVES'S <TYPE> AVAILABLE = 0<4> - 2<6>
WHAT DRIVES(S) TO BE TESTED (00 TO 77, ALL, H=HELP)?
0<CR>

TYPE "H" FOR TEST NAME HELP MESSAGE

WHAT TEST? - PAKINT<CR>

PAKINT

PAKINT - PACK INITIALIZE SCRIPT

THIS SCRIPT WILL FORMAT - MAP - AND GENERATE THE BAT BLOCKS
FOR THE SELECTED PP04/05/06 DISK DRIVES.

PROCEED WITH THE SCRIPT? (Y OR N) Y<CR>

MAPOUT SOFT (RECOVERABLE) READ ERROR BLOCKS Y OR N <CR> - Y<CR>

PROGRAM RUN TIME = 0:0:53 FORMAT

THE PACK SPECIFICATION ALLOWS A TOTAL OF 20 ERRORS...

OF WHICH 5 MAY BE "HARD" ERRORS.

CYLINDER 000 SURFACE 00 CANNOT HAVE ANY "HARD" ERRORS!

PROGRAM RUN TIME = 0:1:1 FORMATTING STARTED

PROGRAM RUN TIME = 0:11:50 OPERATION COMPLETED

PROGRAM RUN TIME = 0:11:53 RONLY

PROGRAM RUN TIME = 0:21:49 MAPOUT ROUTINE

BAT BLOCK CONTENTS
DRIVE 540 - 0<4>

NO BAT BLOCK FOUND FOR THIS DRIVE!

DRIVE BAT BLOCKS CREATED
*? DRIVE #00 CONTAINS 0. PAD SPOT ENTRY(S)

WHAT TEST? - CTRL C

YOUR PACK SHOULD NOW BE FORMATTED.

APPENDIX C.

SAVING YOUR KLAD10 PACK

TYPE IN, ONLY WHAT IS UNDERLINED.

1. LOAD KLAD MONITOR AS NORMAL
2. LOG IN A [1,2] JOB
3. AS MTA?<CR>
4. SET DEN MTA?:1600<CR>
5. RE# MTA?<CR>
6. GET KLAD:FEFILE[1,4]<CR>
JOB SETUP
7. SAV MTA?:FEFILE<CR>
FEFILE SAVED
8. SAV MTA?:FEFILE<CR>
FEFILE SAVED
9. GET KLAD:BACKUP[1,4]<CR>
JOB SETUP
10. SAV MTA?:BACKUP<CR>
BACKUP SAVED
11. R BACKUP<CR>
12. /TA MTA?<CR>
13. /PEN 1600<CR>
14. /SUP ALW<CR>
15. /SORT FILES ALPHA<CR>
16. /SAV KLAD:[1,4]<CR>
11,4 KLAD
DONE

```
17. /SAV KLAD:L2,5J<CR>
-----
I2,5 KLAD

DONE

18. /SAV KLAD:L6,6J<CR>
-----
I6,6 KLAD

DONE

19. /SAV KLAD:L6,10J<CR>
-----
I6,10 KLAD

DONE

20. /SAV KLAD:L35,1414J<CR>
-----
I35,1414 KLAD

DONE

21. /SAV KLAD:L10,*J<CR>
-----
I10,7 KLAD
KLAD:L10,7JFILE.EXT(BLOCK=##)

$PKPEOT REACHED EOT--MOUNT NEW TAPE THEN TYPE "GO"

22. /GU<CR>
-----
I10,7

$PKPEOT REACHED EOT--MOUNT NEW TAPE THEN TYPE "GO"

23. /GU<CR>
-----

DONE

24. /UNL<CR>
-----

25. /PRESS CTRL C
-----

26. .FIN<CR>
-----
```

IF FOR SOME REASON, IN THE MIDDLE OF BACKING UP YOUR PACK
 YOU GET A TAPE PARITY ERROR, YOU DON'T HAVE TO START OVER
 AGAIN. JUST DO THE FOLLOWING:

DO A CTRL C TO BACKUP

 R BACKUP<CR>

 /TA MT??<CR>

 /REW<CR>

 /DEN ???<CR>

 /SUP ALW<CR>

 /SORT FILES ALPHA<CR>

 /INIT KLAD:C##, #JFILE.EXT<CR> ;YOU PUT THE LAST FILE THAT WAS SAVED

;ON THE PREVIOUS TAPE BEFORE THE
 ;TAPE THAT GOT THE ERROR.

 /SAV KLAD:<CR>

;AND CONTINUE ON SAVING THE KLAD

NOTE: IF YOU ARE UPDATING YOUR KLAD PACK, USING ALTERNATIVE #2. CONTINUE ON
 ----- TO APPENDIX D. PAGE 16, STEP 3. & FOLLOW THE INSTRUCTIONS THERE.

APPENDIX D.

CREATING A 1090 OR 1091 KLAD PACK

DO THIS PART OF THE PROCEDURE STAND ALONE.

PLEASE TYPE WHAT IS UNDERLINED. WHEN YOU SEE "S" PLEASE PRESS
ALTMODE OR ESCAPE KEY.

ALTERNATE WAYS OF UPDATING YOUR KLAD PACK WITH A SET OF FIELD
UPDATE TAPES.

ALTERNATIVE 1:

CREATING A KLAD PACK FROM FIELD UPDATE TAPES

ALTERNATIVE 2:

CREATING A KLAD PACK USING THE EXISTING MONITOR ON
YOUR PRESENT KLAD

ALTERNATIVE 3:

CREATING A KLAD PACK USING A BOOTSTRAP OF THE CUSTOMER'S
MONITOR ON A BOOTABLE MAGTAPE (EMERGENCY USE CONDITION)

ALTERNATIVE 4:

GO TO ANOTHER SITE, TO MAKE A KLAD PACK IF YOU CAN'T DO
THE PACK, ANY OF THE WAYS LISTED ABOVE

NOTE: THIS PROCEDURE IS TO BE USED ON A SYSTEM WITH ONLY A PPO4
OR PPO6B(0) ON A RH20 #0 OR RH10 #0 ON-LINE. PLEASE POWER
DOWN ALL OTHER DRIVES. THE UPDATE TAPES ARE 9TRK.

ALTERNATIVES:

1: CREATING A KLAD PACK FROM FIELD UPDATE TAPES

REQUIREMENTS:

- 1 KL10
- 1 PPO4/6B(0) RH20 #0

AND AT LEAST ONE OF THE FOLLOWING STYLE MAGTAPE SUBSYSTEMS

DX20 TU70/77/TM02/03/TU45/77/TM78

DX10

THEN START WITH STEP 3. IN APPENDIX D. PAGE 18



ALTERNATIVE:

- 2: SAVE CURRENT KLAD PACK THAT YOU ALREADY HAVE. PRESUMES
 THAT THE MONITOR YOU HAVE ON THIS KLAD FITS YOUR SYS-
 TEM CONFIGURATION.

 START SAVING KLAD AT STEP #1 APPENDIX C. PAGE 12

ALTERNATIVE:

- 3: USE BOOTSTRAP OF CUSTOMER'S MONITOR ON BOOTABLE MAGTAPE.
 ***** (EMERGENCY USE CONDITION ONLY) *****

NOTE: THIS IS ONLY AN EXAMPLE OF HOW TO PUT A MONITOR ON A
----- BOOTABLE MAGTAPE. DID YOU MOUNT SCRATCH TAPE WRITE-ENA-
 BLED ON UNIT 0 ????

```
.AS MTA0<CR>
-----
MTA0 ASSIGNED
.SET DEN MTA0:1600<CR>
-----
.REW MTA0<CP>
-----
.GET SYS:BACKUP<CP>
-----
JOB SETUP
.SAV MTA0:BACKUP<CR>
-----
BACKUP SAVED
.R BACKUP<CR>
-----
/TA MTA0<CR>
-----
/DEN 1600<CR>
-----
/SAV DSKb:11,4)=MAST:C1,4)SYSTEM.EXE<CR>
-----
11,4     MAST
"DONE
/REW<CR>
-----
```

 THEN PROCEED TO APPENDIX D. PAGE 18 STEP 3. AND CONTINUE ON

ALTERNATIVE:

- 4: GO TO ANOTHER SITE AND DO THE KLAD PACK UPDATE.

NOTE: IF YOU ARE DOING 1091 UPDATE MOUNT SYSTEM FLPY A IN DX0:
 ----- (AS-C183A-BB) AND SYSTEM FLPY B IN DX1: (AS-C184A-BB).

NOTE: IF YOU ARE DOING 1090 UPDATE LOAD FRONT-END DECTAPE #1 ONTO
 ----- DT0:(AL-X454A-BB). LOAD FRONT-END DECTAPE #2 ONTO DT1:
 (AL-X455A-BB). ***** WRITE ENABLED *****

NOTE: IF YOU ARE DOING ALTERNATIVE #3 PUT THE BOOTABLE MONITOR
 ----- MAGTAPE ON UNIT 0.

3. MOUNT A FORMATTED DISK PACK ON A DUAL-PORTED DRIVE (0) OF A
 RH20 #0 OR A RH10 #0.

NOTE: IF YOU ARE DOING ALTERNATIVE #1: PLEASE MOUNT MAGTAPE
 ----- #1 FROM THE FIELD UPDATE KIT ON MAGTAPE UNIT 0.

4. PUT THE SWITCHES 0,1,2 ON THE 11 FRONT-END UP.

NOTE: #1 IF YOU ARE DOING A FIELD UPDATE OF YOUR K1AD
 PACK USING ALTERNATIVE #2, PLEASE MOUNT TAPE #1 FROM
 THE SET THAT YOU JUST MADE FROM APPENDIX C. ON MAGTAPE
 UNIT 0. THEN CONTINUE ON FOLLOWING THIS PROCEDURE.

5. THEN PRESS ENABLE AND SW/REG -- THIS WILL GET YOU TO -RSX-

RSX-20F VA15-12 13:04 10-MAY-84

[SY0: REDIRECTED TO DX0:]

EDX0: MOUNTED]

KLI -- VERSION VA15-12 RUNNING

KLI -- ENTER DIALOG [Y,YES,EXIT,BOOT]?

6. KLI>YES<CR>

 KLI -- K110 S/N: ####, MODEL B, 60 HERTZ

KLI -- K110 HARDWARE ENVIRONMENT:

400 MASTER OSCILLATOR

EXTENDED ADDRESSING

INTERNAL CHANNELS

CACHE

KLI -- RELOAD MICROCODE [YES,VERIFY,PTX,NO]?

7. KLI>YES<CR>

 KLI -- MICROCODE VERSION 336 LOADED

KLI -- RECONFIGURE CACHE [FILE,ALL,YES,NO]?

8. KLI>ALL<CR>

 KLI -- ALL CACHES ENABLED

KLI -- RECONFIGURE KL MEMORY [FILE,ALL,REVERSE,FORCE,YES,NO]?

9. KLI>FORCE<CR>

 STARTING MF20 DRB SCAN. WAIT 25 SEC/456K.

MEMORY RESOURCES:
 CONTROLLER ADDRESS TYPE MODULES/GROUPS
 7 6 5 4 3 2 1 0
 10 MF20 0 0 0 0 0 0 0 4

10. KLI -- CONFIGURE MOS MEMORY CALL,YES,NO?

 KLI>ALL<CR>

 LOGICAL MEMORY CONFIGURATION.
 ADDRESS SIZE INT TYPE CONTROLLER
 00000000 256K 4 MF20 10

11. KLI -- LOAD KL ROOTSTRAP (FILE,YES,NO,FILENAME)?

 KLI>BOOTM<CR>

12. KLI -- WRITE CONFIGURATION FILE (YES,NO)?

 KLI>NO<CR>

 KLI -- ROOTSTRAP LOADED AND STARTED
 BOOTM V5(27)

 BEFORE YOU DO ANYTHING ELSE, PLEASE READ THESE FEW LINES, VERY CAREFULLY

 IF YOU HAVE A DX20 YOU USE A /DX20 SWITCH.

IF YOU HAVE A TM02 YOU USE A /TM02 SWITCH.

IF YOU HAVE A TM03 YOU USE A /TM03 SWITCH.

IF YOU HAVE A TM78 YOU USE A /TM78 SWITCH.

/DEN:1600 REFERS TO THE DENSITY OF THE MAGTAPE THAT YOU ARE USING.
 NOTE: IF YOU ARE FOLLOWING THE PROCEDURE IN ALTERNATIVE #3 REPLACE
 ----- "KLAD" WITH STRUCTURE NAME USED BY CUSTOMER FOLLOWED BY FILE
 NAME OF MONITOR E.G.

 DSKP:SYSTEM.EXE/TX01/DEN:1600

13. (PTH>KLAD:SYSTEM/TM03/DEN:1600<CR>)

 NOTE: IF YOU ARE FOLLOWING ALTERNATIVES 2 OR 3 THE ?'S WILL VARY
 ----- ACCORDING TO THE MONITOR THAT YOU ARE USING. IF TAPE MARK IN
 SAVE FILE PRINTS OUT-DO CTRL "\", THEN "J 400" CONTINUE ON.

14. SYSCHK(N,V):<CR>

 7.02+MG20 04-17-94

15. WHY RELOAD: OTHER KLAD BUILD<CR>

 NOTE: ENTER CURRENT DAY AND TIME



16. DATE:3 11 <CR>

17. TIME:1330<CR>

18. STARTUP OPTION:L<CR>

IN THE FOLLOWING DIALOG, ALL NUMBERS ARE DECIMAL.
TYPE <C> IF OK, OR A NEW NUMBER TO CHANGE VALUE.

RPA0 FIRST HOM BLOCK CONSISTENCY ERROR
RPA0 SECOND HOM BLOCK CONSISTENCY ERROR

19. DO YOU WANT TO INITIALIZE THE HOME BLOCKS ON THIS UNIT?
Y<CR>

?NO UNITS IN ACTIVE SWAPPING LIST

NOTE: IF THERE WERE ANY HARD SPOTS MAPPED OUT WHEN YOU FORMATTED
----- THE PACK, THE QUESTION TYPE PHYSICAL UNIT NAME TO LIST #
BAD REGTONS<CR> IF NONE, ALL IF ALL) WILL PRINT OUT .
ANSWER WITH <CR> IF THIS QUESTIONS PRINTS OUT.

DSK FILE STRUCTURES(STKS):

UNITS NOT IN A FILE STRUCTURE:
RPA0(),RPA1(),RPA0(),RPA1()

UNITS IN ACTIVE SWAPPING LIST:

STRUCTURES IN SYSTEM SEARCH LIST:

STRUCTURES IN SYSTEM DUMP LIST:

20. TYPE PHYS UNIT NAME TO LIST ITS PARAMETERS<CR> IF NONE, ALL IF ALL)
<CR>

BEFORE "HOME" BLOCKS ARE REWRITTEN,

21. DO YOU WANT TO CHANGE ANY DISK PARAMETERS?
Y<CR>

TYPE STP NAME TO BE DEFINED<CR> IF NONE)

22. KLAD<CR>

TYPE NAMES OF PHYS UNITS IN STR(ALL IF ALL, EXTPA <CR> WHEN DONE)

23. RPA0<CR>

24. <CR>

NOTE: TYPE STRUCTURE NAME TO BE DEFINED(<CR> IF NONE) MIGHT PRINT
 ----- OUT HERE. IF SO PRESS <CR>.

 TYPE STR NAME TO CHANGE ITS PARAMETERS(<CR> IF NONE, ALL IF ALL)

25. ALAD<CR>

NOTE: THE FIGURES GIVEN BELOW ARE FOR A RP06. RP04
 ----- FIGURES ARE APPROXIMATELY ONE-HALF.

AFTER EACH PRINTING OF CURRENT VALUE, TYPE NEW VALUE OR <CR>

PARAMETERS WHICH MAY BE CHANGED WITHOUT REFRESHING
 #OF CONSECUTIVE BLOCKS TRIED FOR ON OUTPUT = 30
 MIN = 1 MAX = 262143

26. <CR>

SUM OF BLOCKS GUARANTEED TO USERS = 0
 MIN = 0 MAX = 307800

27. <CR>

BLOCKS ALLOWED FOR OVERDRAW PER USER = 500
 MIN = 0 MAX = 307800

28. <CR>

IS THIS A PRIVATE STR? (TYPE Y IF PRIVATE, N IF NO ACCESS RESTRICTIONS)

29. N<CR>

PARAMETERS WHICH MAY NOT BE CHANGED WITHOUT REFRESHING
 K FOR CRASH.EXE = 256
 MIN = 0 MAX = 4096

NOTE: RP04=0, RP06=1024 OR SIZE OF MEMORY IN SYSTEM

30. 1024<CR>

BLOCKS PER CLUSTER = 10
 MIN = 1 MAX = 511

31. <CR>

THEREFORE BITS PER CLUSTER ADR. = 15
 THEREFORE BLOCKS PER SUPER-CLUSTER = 10
 THEREFORE SUPER-CLUSTERS PER UNIT = 30780

BITS PER CLUSTER COUNT = 12
 MIN = 1 MAX = 18

32. <CR>

THEREFORE BITS PER CHECKSUM = 9

TYPE STR NAME TO CHANGE ITS PARAMETERS(<CR> IF NONE, ALL IF ALL)

33. <CR>

TYPE PHYS UNIT NAME TO CHANGE ITS PARAMETERS(<CR> IF NONE, ALL IF ALL)

34. RPA0<CR>

AFTER EACH PRINTING OF CURRENT VALUE, TYPE NEW VALUE OR CR

PARAMETERS WHICH MAY NOT BE CHANGED WITHOUT REFRESHING

NOTE: THE FIGURES GIVEN BELOW ARE FOR A RP06. THE RP04 FIGURES
----- ARE APPROXIMATELY ONE-HALF.

OF SAT BLOCKS ON UNIT = 8
MIN = 8 MAX = 83

35. <CR>

THEREFORE CLUSTERS PER SAT = 3848
THEREFORE WORDS PER SAT = 197

K FOR SWAPPING ON UNIT = 0
MIN = 0 MAX = 4095

NOTE: RP04=300, RP06=2000

36. 2000<CR>

COMPUTED 1ST. LOGICAL BLOCK FOR SWAPPING = 145900
1ST. LOGICAL BLOCK FOR SWAPPING = 145900
MIN = 8510 MAX = 291800

NOTE: TYPE WHATEVER MAX VALUE IS FROM ABOVE IF RP04, OTHERWISE <CR>

37. <CR>

PARAMETERS WHICH MAY BE CHANGED WITHOUT REFRESHING

UNIT ID IS 1

38. REV12<CR>

SAT BLOCKS IN CORE = 1
 MIN = 1 MAX = 8

NOTE: TYPE WHATEVER MAX VALUE IS FROM ABOVE.

39.

<CR>

TYPE PHYS UNIT NAME TO CHANGE ITS PARAMETERS(<CR> IF NONE, ALL IF ALL)

40.

<CR>

UNITS IN ACTIVE SWAPPING LIST:

DO YOU WANT TO CHANGE THE ACTIVE SWAPPING LIST?

41.

Y<CR>

FOR EACH CLASS TYPE PHYS UNIT NAMES(EXTRA <CR> WHEN DONE)
 CLASS 0

42.

RPA0<CR>

43.

<CR>

CLASS 1

44.

<CR>

STRUCTURES IN SYSTEM SEARCH LIST:

DO YOU WANT TO CHANGE THE SYSTEM SEARCH LIST?

45.

Y<CR>

TYPE STR NAMES FOR SYSTEM SEARCH LIST(EXTRA <CR> WHEN DONE)

46.

KLAD<CR>

47.

<CR>

STRUCTURES IN SYSTEM DUMP LIST:

DO YOU WANT TO CHANGE THE SYSTEM DUMP LIST?

48.

Y<CR> FOR RP06, IF RP04 JUST A <CR>

TYPE STR NAMES FOR SYSTEM DUMP LIST(EXTRA <CR> WHEN DONE)

49. KLAD<CR>

 <CR>

 BEFORE "HOME" BLOCKS ARE WRITTEN
 TYPE STR NAME FOR A LIST OF ITS PARAMETERS(<CR> IF NONE, ALL IF ALL)
50. <CR>

 TYPE PHYS UNIT NAME TO LIST ITS PARAMETERS(<CR> IF NONE, ALL IF ALL)
51. <CR>

52. DO YOU WANT TO CHANGE ANY DISK PARAMETERS?(<CR> IF NO)
 <CR>

 HOME BLOCKS TO BE WRITTEN ON WHICH PHYS UNIT(EXTRA <CR> WHEN THROUGH)
 (<CR> IF NONE, ALL IF ALL ;"ALL" IS NORMAL CASE)
53. ALL<CR>

 HOME BLOCKS WRITTEN
 NOTE: AND STRUCTURES IN SYSTEM DUMP LIST WILL TYPE OUT IF YOU
 ----- ARE UPDATING A RPO4 PACK.
 NOTE: IF ANY BAD SPOTS WERE MAPPED OUT, DURING THE FORMATTING
 ----- OF THE PACK, TYPE PHYSICAL UNIT NAME TO LIST # BAD REGIONS
 (<CR> IF NONE, ALL IF ALL) WILL PRINT OUT, ANSWER WITH A
 <CR>.

 DSK FILE STRUCTURES:
 NEEDS REFRESHING KLAD:RPA?(REV12)
 UNITS IN ACTIVE SWAPPING LIST:
 RPAC(C)
 STRUCTURES IN SYSTEM SEARCH LIST:
 KLAD
 NOTE: BELOW WILL ONLY TYPE OUT IF YOU ARE UPDATING A RPO6 PACK.
 ----- STRUCTURES IN SYSTEM DUMP LIST:
 TYPE STR NAME FOR A LIST OF ITS PARAMETERS(<CR> IF NONE, ALL IF ALL)
54. <CR>

55. TYPE PHYS UNIT NAME TO LIST ITS PARAMETERS(<CR> IF NONE, ALL IF ALL)
 <CR>

56. DO YOU WANT TO CHANGE ANY DISK PARAMETERS?(<CR> IF NONE)
 <CR>

57. TYPE STR NAME TO BE REFRESHED(<CR> IF NONE, ALL IF ALL)
 KLAD<CR>

58. TYPE STR NAME TO BE REFRESHED(<CR> IF NONE, ALL IF ALL)
 <CR>

59. STARTUP OPTION: Q<CR>

 TO AUTOMATICALLY LOG-IN UNDER [1,2] TYPE LOGIN<CR>
 1091 14:08:54

NOTE: THE ABOVE HEADER WILL VARY ACCORDING TO WHAT MONITOR
 ----- YOU ARE USING ON THE SYSTEM.

60. .LOGIN<CR>

NOTE: #2 IF YOU ARE UPDATING YOUR KLAD PACK USING ALTERNATIVE #2
 ----- OR #3 PLEASE REMOVE MAGTAPE FROM UNIT 0. THEN MOUNT
 MAGTAPE #1 FROM THE FIELD UPDATE KIT ON MAGTAPE UNIT 0.
 THEN CONTINUE ON FOLLOWING THESE INSTRUCTIONS.

NOTE: IF YOU ARE USING ALTERNATIVE #1 & HAVE NO DX10 ON SYSTEM.
 ----- A MESSAGE MTA OFF-LINE WILL PRINT. TYPE "SET NOM MTA"<CR>
 OR "SET NOM MTB" ETC. TO STOP MESSAGE FROM BEING PRINTED.

61. .RES<CR>

NOTE: THIS WILL TELL YOU WHAT RESOURCES YOU HAVE ON THE SYSTEM
 ----- YOU CAN TELL WHAT TYPE OF MGT. YOU HAVE FROM THESE 2 NOTES.

62. .AS MTA0<CR>

 MTA000 ASSIGNED

63. .SET DEN MTA0:1600<CR>

64. .GET MTA0:FEFILE<CR>

 JOB SFTUP

FEFILE

NOTE: ONLY IF YOU GET A *** TRANSMISSION ERROR *** PRINTED OUT

 AFTER YOU DO STEP #64. YOU HAVE TO DO THE FOLLOWING,
 OTHERWISE SKIP A. THROUGH G.

A.--GET MTA0:BACKUP<CR>

 JOB SETUP

B.--ST<CR>

 C.--/TA MTA0<CR>

 D.--/REW<CR>

 E.--/SKIP 1<CR>

 F.--/CTPL C

 G.--GET MTA0:FEFILE<CR>

 JOB SETUP

PLEASE CONTINUE ON WITH THE PROCEDURE.

NOTE: #3 IF YOU ARE UPDATING YOUR KLAD PACK USING ALTERNATIVE #2
 ----- OR #3 REPEAT STEP 64. AGAIN, THEN CONTINUE ON.

65. .ST<CR>

 66. DISK UNIT NAME:RPA0<CR>

 67. SIZE OF FILE IN BLOCKS (<CRUF> GIVES DEFAULT OF 2000)
 <CR>

 [2008 DATA BLOCKS ALLOCATED TO FE.SYS]

NOTE: THIS STEP TAKES A FEW MINUTES.

 [FE.SYS AREA STARTS AT LOGICAL BLOCK 8441.]
 [FRONT END FILE CREATED, HJM BLOCKS WRITTEN]

68. .GET MTA0:BACKUP<CR>

 JOB SETUP

69. .SAV BACKUP<CR>

 BACKUP SAVED

70. .RU BACKUP<CR>

 71. /TA MTA0<CR>

```

72.  /SKIP 1
-----
73.  /REST<CR>
-----
      11,4  KLAD
      "Done
      /REST<CR>
-----
      12,5  KLAD
      "Done
      /REST<CR>
-----
      16,6  KLAD
      "Done
      /REST<CR>
-----
      16,10 KLAD
      $RKPEOT Reached EOT -- Mount new tape then type "GU"
      /GU<CR>
-----
      16,10
      "Done
      /REST<CR>
-----
      135,1414 KLAD
      "Done
74.  /PRESS CTRL C
-----
75.  .DEAS MTA0:<CR>
-----

```

NOTE: #4 IF YOU ARE UPDATING YOUR KLAD PACK USING ALTERNATIVE
 ----- #2 OR #3. FOLLOW THESE INSTRUCTIONS. OTHERWISE GO TO
 STEP #76. PAGE 28

```

R  KLBDOUT<CR>
-----

```

```

TYPE "HELP" FOR HELP
SELECT UNITS?<CR>
-----

```

```

EXIT
.

```

```

PRESS CTRL \
-----

```

```

PAR>SHUT<CR>          ? DEPENDING ON THE TYPE OF SYSTEM YOU HAVE
                       ? YOU CAN GET A DIFFERENT PRINTOUT HERE.
DUMPING ON KLAD:CPASH.EXEC1,47

```

```

BOOTS
KLAD:SYSTEM

```

```

SYSCHK(N,Y):<CR>
-----

```

```

1001      05-08-80
WHY RELOAD: OTHER CONTINUE KLAD BUILD<CR>
-----

```

```

DATE:
TIME:
STARTUP OPTION: w<CR>
-----

```

WHEN SYSTEM NOW READY TO RUN AND *
PRINTS OUT THEN PRESS CTRL C

.K/F<CR>

THEN CONTINUE ON WITH THIS PROCEDURE STARTING WITH STEP 76.

76. .P DAEMON<CR>

DETACHING

77. CTRL C

78. .LOG 6,11<CR>

JOB 2 1091 CTY

79. PASSWORD:KL10<CR>

80. .P SETSPC<CR>

81. *C /LIB:[6,10]KLAD<CR>

82. *T<CR>

/LIB:[6,10] KLAD:, FENCE

83. *PRESS CTRL C

84. .AS KLAD DEV<CR>

KLAD ASSIGNED

85. .RU WHEEL<CR>

SETTING WHEEL CAPABILITY
JOB # 2 (MAINTENANCE) SETTING WHEEL.

86. .RU KLAD10<CR>

DECSYSTEM10 RP04/RP06 KLAD PACK CREATION PROGRAM, VER 0.2
COMMAND

87. *P1011[6,10]0<CR>

NOTE: THIS STEP TAKES ABOUT 30 MINUTES.

NOTE: IF ILLEGAL MEMORY REFERENCE PRINTS OUT ON THE CTY, STOP WHAT YOU
----- ARE DOING, FORMAT YOUR PACK AGAIN AND START FROM THE BEGINNING.

EXIT

KLAD10

88. .PU WHEEL<CR>

CLEARING WHEEL CAPABILITY
JOB # 2 (MAINTENANCE) CLEARING WHEEL.

NOTE: ONLY FOLLOW THE INSTRUCTIONS IN THIS NOTE IF YOU ARE UPDATING A KP04
----- DISK PACK. GO BACK TO THE [1,2] AREA & DELETE ALL OF THE HARDWARE
SUPPORT & ISOLATION FILES I.E. (.A11 & .TIC FILES) YOU DO NOT NEED
FROM THE [6,10] AREA. SINCE YOU ALREADY MOVED THEM TO THE [6,11] AREA.

NOTE: KILL THE JOB YOU ARE PRESENTLY LOGGED IN UNDER, AND LOGIN AGAIN UNDER
----- [1,2] PASSWORD FAILSA AND CONTINUE ON WITH THE PROCEDURE.

89. .AS MTA0:<CR>

MTA000 ASSIGNED

90. .SET DENSITY MTA0:1600<CR>

91. .R BACKUP<CR>

92. /TA MTA0:<CR>

93. /SUP ALW<CR>

94. /REST<CR>

110,7 KLAN
KLAN:[10,7]FILE.EXT (BLOCK=###)
SPKPEOT REACHED EOT--MOUNT NEW TAPE THEN TYPE "GO"

95. /GU<CR>

110,7
SPKPEOT REACHED EOT -- MOUNT NEW TAPE THEN TYPE "GO"
/GU<CR>

110,7

Done

FAILSA

96. /UNL<CR>

97. /PRESS CTRL C

98. .K/P<CR>

JOB 2 USER MAINTENANCE [6,11]
LOGGED -OFF CTV AT 14:42:27 ON 2-FEB-79

99. .PRESS CTRL \

100. PAR>AR<CR>

NOTE: ALWAYS WAIT UNTIL THE DECTAPE STOPS MOVING BEFORE GOING ON.

PUT UP SWITCHES 0 AND 1 ON THE 11 FRONT-END AND DO A SWITCH/REG LOAD

RSX-20F VA15-12 12:11 10-MAY-84

[SY0: REDIRECTED TO DXG:]
[DX0: MOUNTED]
[DX1: MOUNTED]

101. PRESS CTRL \

102. PAR>AR<CR>

103. PAR>SFT CON MAI<CR>

CONSOLE MODE: MAINTENANCE

104. PAR>RESET<CR>

105. PAR>ST MIC<CR>

106. PAR>SFT CON UP<CR>

CONSOLE MODE: OPERATOR

NOTE: IF DECTAPE UPDATE DO THE FOLLOWING: OTHERWISE SKIP A.-> D.

A.-PAR>M MOU<CR>

B.-MOU>DI1:<CR>

MOU -- MOUNT COMPLETE

C.-MOU>PRESS CTRL 2

D.-PRESS CTRL \

CONTINUE ON WITH STEP 107.

PIP

Jet 2

107. PAR%M INI<CR>

108. INI>DRG:<CR>

NOTE: THE TERMINAL WILL ONLY CARRIAGE RETURN

109. PRESS CTRL \

110. PAR%M MOU<CR>

111. MOU>DRG:<CR>

MOU -- MOUNT COMPLETE

112. MOU>PRESS CTRL Z<CR>

113. PRESS CTRL \

114. PAR%M UFD<CR> /D

115. UFD>DRG:[5,5]<CR>

NOTE: THE TERMINAL WILL ONLY CARRIAGE RETURN AS WITH INI.

116. PRESS CTRL \

117. PAR%M PIP<CR>

NOTE: IF DECTAPE UPDATE DO THE FOLLOWING: OTHERWISE SKIP
----- A. -> H. & CONTINUE ON WITH STEP 118.

5 MIN. A.-PIP>DRG:=DTG:F11ACP.TSK,PARSER.TSK,DT1:PIP.TSK<CR>

B.-PIP>PRESS CTRL Z

C.- PRESS CTRL \

D.-PAR%M RED<CR>

E.-RED>DRG:=SYU:<CR>

F.- PRESS CTRL \

G.-PAR%M PIP<CR>

20 MIN. H.-PIP>DRG:=DTG:*.*,DT1:*.*)<CR>

CONTINUE ON WITH STEP 119.

118. PIP>DRO:=DX0:,DX1:<CR>

THE CONTENTS OF THE SYSTEM FLOPPIES A & B ARE BEING PIPPED
TO THE FILES 11 AREA OF THE ALAD PACK. THIS PROCESS TAKES
ABOUT 5 TO 10 MINUTES. WHEN THE PIP PROMPT RETURNS CONTINUE ON.

119. PIP>DPC:/LI<CR>

SECTION 1:

DIRECTORY DRO:[5,5]				
10-MAY-84 13:03				
F11ACP.TSK;1512	77.	C	10-APR-84	16:04
TXTN.TSK;1512	6.	C	10-APR-84	16:04
MOU.TSK;1512	5.	C	10-APR-84	16:04
DR.MCP;336	50.		24-AUG-83	13:49
BDUT.EXB;2014	18.		10-APR-84	16:04
BDUTM.EXB;6032	56.		10-APR-84	16:04
RF16N1.A11;1	1.		10-APR-84	16:05
RF64N1.A11;1	1.		10-APR-84	16:05
SPO.CMD;1	2.		10-APR-84	16:05
SPI.CMD;1	2.		10-APR-84	16:05
CLUCK.CMD;1	1.		10-APR-84	16:05
ERUS.CMD;1	1.		10-APR-84	16:05
DEX.CMD;1	2.		10-APR-84	16:05
KPALV.CMD;1	1.		10-APR-84	16:05
TIMFO.CMD;1	1.		10-APR-84	16:05
FMPAP.CMD;1	1.		10-APR-84	16:05
CPAM.CMD;1	1.		10-APR-84	16:05
DRAM.CMD;1	1.		10-APR-84	16:06
HALT.CMD;1	5.		10-APR-84	16:06
LOUP.CMD;1	1.		10-APR-84	16:06
PARSER.TSK;703	71.	C	10-APR-84	16:06
KLDIJC.TSK;1512	5.	C	10-APR-84	16:06
KLRING.TSK;1512	6.	C	10-APR-84	16:06
LOGXFP.TSK;1512	10.	C	10-APR-84	16:06
MIDNIT.TSK;1512	4.	C	10-APR-84	16:06
SFTSPD.TSK;1512	5.	C	10-APR-84	16:06
KLI.TSK;1512	73.	C	10-APR-84	16:06
T20ACP.TSK;1512	8.	C	10-APR-84	16:07
BOU.TSK;1512	19.	C	10-APR-84	16:07
COF.TSK;1512	8.	C	10-APR-84	16:07
DMO.TSK;1512	5.	C	10-APR-84	16:07
IMI.TSK;1512	23.	C	10-APR-84	16:07
PIP.TSK;1512	56.	C	10-APR-84	16:07
PFD.TSK;1512	6.	C	10-APR-84	16:07
SAV.TSK;1512	23.	C	10-APR-84	16:07
UPD.TSK;1512	9.	C	10-APR-84	16:07
ZAP.TSK;1512	38.	C	10-APR-84	16:07
RSX20F.SYS;1512	59.	C	10-APR-84	16:08
RSX20F.MAP;1512	154.		10-APR-84	16:11

TOTAL OF 815. BLOCKS IN 39. FILES

NOTE: IF KL.CFG PRINTS OUT IN THE ABOVE LIST DO THE FOLLOWING:
----- IF NOT SKIP STEP 120.

120. PIP>DPC:KL.CFG;*/DE<CR>

DIP 55

121. PIP>PRESS CTRL Z<CR>
 122. PRESS CTRL \

NOTE: IF DECTAPE UPDATE GO TO STEP 126. IF NOT CONTINUE ON.

123. PAR&M RED<CR>
 124. REDD>DRC:=SY0:<CR>

NOTE: THE TERMINAL WILL ONLY CARRIAGE RETURN

125. PRESS CTRL \
 126. PAR&M SAV<CR>
 127. SAV>SY0:/WB<CR>

LD60: DISMOUNTED]
 LD&0: DISMOUNTED]
 LD&1: DISMOUNTED]

KSA-20F VA15-12 13:04 10-MAY-84
 [SY0: REDIRECTED TO DRC:]
 LD60: MOUNTED]

NOTE: REMOVE FLOPPIES OR DECTAPES FROM DRIVES.

NOTE: IF YOU HAVE A THIRD FLOPPY TO PUT ONTO THE FRONT END OF THE
 ----- K&AD-10 PACK PUT THE THIRD FLOPPY IN D&0: NOW, AND DO THE
 FOLLOWING, OTHERWISE SKIP THESE STEPS- A. THROUGH N.

A.-PRESS CTRL \
 B.-PAR>MCR M&U<CR>
 C.-M&U>D&0:<CR>
 M&U -- MOUNT COMPLETE
 D.-M&U>PRESS CTRL Z
 E.-PRESS CTRL \
 F.-PAR>MCR PIP<CR>
 G.-PIP>D&0:=D&0:<CR>
 H.-PIP>T1:=D&0:/L1<CR>

THIS WILL GIVE YOU A DIRECTORY OF WHAT IS ON THE [5,5] AREA.

```

I.-PIP>PRESS CTRL Z
  ---
J.-PRESS CTRL \
  ---
K.-PAP>MCR DM0<CR>
  -----
L.-DM0>DX0:<CR>
  -----
DM0 -- DISMOUNT COMPLETE
M.-DM0>PRESS CTRL Z
  ---
N.-PRESS CTRL \
  ---
PAR> CONTINUE ON WITH THE PPOCEDURE

```

SECTION 2:

128. DO A SW/REG LOAD WITH 0,1,2 & 7 SWITCHES UP ON THE 11 FRONT-END.

RSX-20E VA15-12 13:04 10-MAY-84

[SY?: REDIRECTED TO DPO:]
[DPO: MOUNTED]

179. KLI -- VERSION VA15-12 RUNNING
KLI -- ENTER DIALOG LNO,YFS,EXIT,ROOT??
KLI><CR>

```

-----
KLI -- KL10 S/N: 2500., MODEL B, 50 HERTZ
KLI -- KL10 HARDWARE ENVIRONMENT:
      MOS MASTER OSCILLATOR
      EXTENDED ADDRESSING
      INTERNAL CHANNELS
      CACHE

```

```

KLI -- MICROCODE VERSION 336 LOADED
KLI -- * NO FILE - ALL CACHE BEING CONFIGURED
KLI -- ALL CACHES ENABLED
KLI -- * NO FILE - ALL MEMORY BEING CONFIGURED

```

```

LOGICAL MEMORY CONFIGURATION.
ADDRESS SIZE INT TYPE CONTROLLER
00000000 256K 4 MF20 10

```

```

KLI -- * NO FILE - LOADING BOOTSTRAP
KLI -- CONFIGURATION FILE WRITTEN
KLI -- BOOTSTRAP LOADED AND STARTED
ROOTS V1(4)

```

130. HOUT>KLAD:<CR>

131. SVSCHK(N,Y):<CR>

7.02+MG20 04-17-84
132. WHY RELOAD: OTHER INSTALL REST OF FE<CR>

- NOTE: INSFRD CURRENT DAY AND TIME

133. DATE:3 11<CR>

TIME:1330<CR>

- NOTE: IF YOU HAVE STARTED FROM THE BEGINNING OF THIS PROCEDURE
----- I.E. UPDATING YOUR KLAD PACK GO TO STFP 146.
134. STARTUP OPTION: C<CR>

%LOGICAL UNIT 0 MISSING FROM ACTIVE SWAPPING LIST
%LOGICAL STRUCTURE # 0 MISSING FROM SYSTEM SEARCH LIST
TYPE STRUCTURE NAME TO CHANGE ITS PARAMETERS(CR IF NONE, ALL IF ALL)
135. <CR>

TYPE PHYSICAL UNIT NAME TO CHANGE ITS PARAMETERS(CR IF NONE,ALL IF ALL)
136. <CR>

DO YOU WANT TO CHANGE THE ACTIVE SWAPPING LIST?
137. Y<CR>

FOR EACH CLASS TYPE PHYSICAL UNIT NAMES(EXTRA CR WHEN DONE)
CLASS 0
138. RPA0<CR>

<CR>

CLASS 1
139. <CR>

DO YOU WANT TO CHANGE THE "SYS" SEARCH LIST?

140. Y<CR>

 TYPE STP NAMES FOR "SYS" SEARCH LIST(EXTRA <CR> WHEN DONE)

141. KLAD<CR>

142. <CR>

 DO YOU WANT TO CHANGE THE SYSTEM DUMP LIST?

143. <CR>

 HOME BLOCKS TO BE WRITTEN ON WHICH PHYSICAL UNITS (EXTRA <CR> WHEN THROUGH)
 (<CR> IF NONE, ALL IF ALL ;"ALL" IS NORMAL CASE)

144. ALL<CR>

145. <CR>

 HOME BLOCKS WRITTEN

AND STRUCTURES IN SYSTEM DUMP LIST

146. STARTUP OPTION: Q<CR>

 KLAD10-X-7.02 DEC F.S. 13:40:05 CTY SYSTEM 2123
 CONNECTED TO NODE KL2123(23) LINE # 351
 .LOGIN 1,2
 .? DPSEP
 [DPRPAF PROCESSING AUTO COMMAND FILE]
 15:46:09(D)
 .
 DETACHING
 .
 15:46:13(QUA)
 .
 15:46:15(QUA)
 .
 15:46:17(QUAN1)
 .
 .FROM JOB 3
 .
 15:46:21(MIC)
 .
 MTC VERSION - 6A(32)
 DETACHING
 .
 15:46:23(Q)
 .
 ;;DPR: - SYSTEM NOW READY TO RUN
 15:46:24(C)
 .

```

147. *PRESS CTRL C
-----
148. .CDP SYS:=ALAD:[35,1414]FEUTC.TXT<CR>
-----
149. .R FE<CR>
-----
150. PRESS CTRL \
-----
151. PAR>M MOU<CR>
-----
152. MOU>FE:<CR>
-----

MOU -- MOUNT COMPLETE

153. MOU>PRESS CTRL Z
-----
154. PRESS CTRL \
-----
155. PAR>M PIP<CR>
-----
156. PIP>DB0:=FE:[100,100]DBOOT.CMD,DBOOT.OBJ,DBOOT.MAP<CR>
-----
157. PIP>DP0:=FE:[100,100]DBOOT.SYS/CUNT,TKB.TSK/CONT,KLDCC.BIN<CR>
-----
158. PIP>DP0:/LI<CR>
-----

```

DIRECTORY DB0:[5,5]
2-FEB-79 15:53

IF YOU HAVE JUST FINISHED MOVING THE FRONT-END ONTO YOUR PACK
YOU WILL HAVE THE SAME DIRECTORY THAT IS LISTED IN APPENDIX D: IN
SECTION 1: PAGE 32.

ALSO YOU HAVE JUST MOVED THE DBOOT, TKB, AND KLDCC FILES TO THE [5,5]
AREA. THEY SHOULD LOOK LIKE THE FOLLOWING. THE 6 FILES LISTED BELOW
SHOULD BE THE LAST 6 FILES IN THE ABOVE 2 DIRECTORIES.

NOTE: DATE LISTED BELOW DEPENDS ON CURRENT DATE.

```

-----
DBOOT.CMD;1      1.          02-APR-79
DBOOT.OBJ;1      6.          02-APR-79
DBOOT.MAP;1      2.          02-APR-79
DBOOT.SYS;1      8.          C          02-APR-79
TKB.TSK;1       119.        C          02-APR-79
KLDCC.BIN;1     51.          02-APR-79

```

RFE

- 159. PTP>PRESS CTRL Z<CR>

- 160. PPESS CTRL C

- 161. PPESS CTRL C

- 162. .PPESS CTRL \

- 163. PAK>AP<CR>

- 164. DO A SW/REG LOAD WITH 203 IN THE 11 FRONT-END SWITCHES

KSA-20F VA15-12 12:11 10-MAY-84

LSV0: REDIRECTED TO DR0:J
LDH0: MOUNTED

- 165. PPESS CTRL \

- 166. PAK?M BOO<CR>

- 167. BOO>DFOOT<CR>

DPCSYSTEM DIAGNOSTIC CONSOLE
VERSION 0.17
SWR = 000000 DTE # 0
CMD:
>

APPENDIX E. KLAD10 HELP FILE

;KLAD10.HLP VER 0.3 15-JUN-79

1. KLAD10 DISK PACK CREATION PROCEDURES

THE FOLLOWING ASSUMES THAT YOU HAVE ALREADY RESTORED THE [6,10] DIAGNOSTIC AREA ON THE KLAD PACK FROM THE DIAGNOSTIC DISTRIBUTION MAGTAPE. IF NOT, DO STEP 2 FIRST. ALSO, IF YOUR PACK IS NOT "KLAD", SUBSTITUTE ITS NAME WHERE "KLAD" IS USED.

```

.LOG 6,11                ;LOGIN TO 6,11 AREA
-----
PASSWORD: KL10          ;
-----
.MOUNT KLAD             ;MOUNT YOUR KLAD PACK
-----
.P SETSRC              ;SETUP SEARCH LIST
-----
*C /LIB:[6,10]KLAD     ;LIBRARY AREA FROM [6,10]
-----
^C
.ASSIGN KLAD: DEV       ;ASSIGN LOGICAL NAME "DEV" TO "KLAD"
-----
.RUN WHEEL             ;REQUIRES PRIVILEGES TO MAKE KLAD
-----
.RUN KLAD10            ;RUN THE KLAD CREATION PROGRAM
-----
COMMAND:               ;OK APPROPRIATE COMMAND FILE
*P1011[6,10]@
-----
.EXIT                  ;COMPLETED
-----
.RUN WHEEL             ;RELEASE PRIVILEGES
-----
.REMOVE KLAD           ;REMOVE KLAD PACK FROM SYSTEM
-----
.K/F                   ;LOGOUT
-----

```

P1011 @

2. DIAGNOSTIC DISTRIBUTION MAGTAPE TO KLAD (6,10) RESTORE

```

.LOG 6,10                ;LOGIN TO 6,10 AREA
-----
PASSWORD: KL10
-----
.MOUNT KLAD              ;MOUNT YOUR KLAD PACK
-----
.P SETSRC                ;SETUP SEARCH LIST
-----
*C KLAD                  ;KLAD DISK ONLY
-----
**C
-----
.ZERO KLAD:             ;CLEAN OUT OLD FILES
-----
.AS MT?#:                ;ASSIGN A MAGTAPE DRIVE
-----                    ;MOUNT THE DIAGNOSTIC MAGTAPE

.PEW MT?#:               ;REWIND MAGTAPE
-----

.SET DENSITY MT?#:800 OR 1600 BPI
-----
.SET BLOCKSIZE MT?#:512 WORDS
-----
.SKIP MT?#:1 FILE
-----
.COPY MAGTAP.SAV=MT?#:  ;RETRIEVE MAGTAP PROGRAM
-----
.PUN MAGTAP              ;RUN MAGTAP PROGRAM
-----
DIAGNOSTIC DISTRIBUTION MAGTAPE CREATOR

MAGTAPE DEVICE - MT?#:
-----
WHAT DENSITY - 800 OR 1600
-----
COMMAND - GET            ;RETRIEVE ALL PROGRAMS FROM MAGTAPE
-----
COMMAND - UNLOAD        ;UNLOAD MAGTAPE
-----
.K/P                     ;LOGOUT, ALL DONE
-----

```


3. KLAD10 COMMAND FORMATS:

- A. /SWITCH
- B. /SWITCH:VALUE
- C. FILENAME.EXT[PPN]/SWITCH:VALUE
- D. OUTPUT FILENAME.EXT[PPN]=INPUT FILENAME.EXT[PPN]/SWITCH:VALUE

4. SWITCHES:

- A. /DEV:DEVICE NAME

INDICATES ON WHAT DEVICE THE FRONT-END DIRECTORY STRUCTURE WILL BE LOCATED. DEVICE NAME MAY BE LOGICAL, PHYSICAL OR A FILE STRUCTURE NAME.

- B. /CREATE:N

CREATE A NEW OR SUPERSEDE AN EXISTING FRONT-END DIRECTORY WITH N DIRECTORY ENTRIES ALLOCATED.

- C. FILENAME.EXT/ALLOC:N

ALLOCATE A DIRECTORY ENTRY WITH N DATA BLOCKS FOR A DUMMY FILE SPECIFIED BY FILENAME. NO DATA IS TRANSFERRED. N MUST BE >0.

- D. FILENAME.EXT/DELETE

THE FRONT-END DIRECTORY IS SEARCHED FOR THE FILE SPECIFIED BY THE FILENAME. IF FOUND, THE FILE WILL BE DELETED FROM THE FRONT-END DIRECTORY AND THE (6,11) DIRECTORY. IF FILE IS NOT FOUND, THE USER WILL BE NOTIFIED.

- E. FILENAME.EXT[PPN]/BOOT

WRITES THE -11 BOOTSTRAP PROGRAM SPECIFIED BY THE FILENAME TO THE HARDWARE BOOT AREA OF THE DISK. FILE MUST BE "KLADBT.RIN".

:ROM406

IF THIS SWITCH VALUE IS APPENDED TO THE /ROOT SWITCH THE BOOT WILL ALSO BE WRITTEN TO DISK CYLINDER 406 BLOCK 0 TO ALLOW FOR THE OLD KL10 BM373 ROM.

F. FILENAME.EXT(TPPN)/TO11

THE FRONT-END DIRECTORY MUST EXIST PRIOR TO THE USE OF THIS SWITCH.

THE -10 DIRECTORY IS SEARCHED FOR THE FILE SPECIFIED BY THE FILE NAME. IF FOUND, THE FILE IS COPIED FROM THE -10 FILE SYSTEM TO THE FRONT-END FILE SYSTEM. DATA CONVERSION IS PERFORMED UNLESS THE FILE EXTENSION IS ONE OF THOSE LISTED UNDER /BINARY SWITCH.

/ASCII AND /BINARY ARE THE ONLY SWITCHES WHICH MAY BE USED WITH /TO11.

G. OUTPUT FILENAME.EXT(TPPN)=INPUT FILENAME.EXT/TO10

THE FRONT-END DIRECTORY IS SEARCHED FOR THE INPUT FILE SPECIFIED. IF FOUND, THE INPUT FILE IS COPIED TO THE -10 FILE SYSTEM BY THE OUTPUT FILENAME. DATA CONVERSION IS PERFORMED UNLESS THE FILE EXTENSION IS LISTED UNDER /BINARY SWITCH. OUTPUT MUST NOT BE TO THE (6,11) AREA.

H. FILENAME.EXT(TPPN)/R/PLACE

REPLACE FILE IN -11 DIRECTORY WITH A NEW VERSION

I. /ASCII

FORCE DATA CONVERSION FROM 7-BIT BYTES TO 8-BIT BYTES IF USED WITH /TO11. FORCE DATA CONVERSION FROM 8-BIT BYTES TO 7-BIT BYTES IF USED WITH /TO10. THIS SWITCH IS ASSUMED (I.E. DEFAULT) UNLESS THE FILE EXTENSION IS ONE OF THOSE LISTED UNDER /BINARY.

J. /BINARY

CANCEL DATA CONVERSION FOR INPUT FILES WHOSE FILE EXTENSION IS NOT ONE OF: .ABS, .BIN, .PIC, .CIL, .LBO, .LDA, .LER, .LUD, .MED, .OBJ, .SAV, .SYM, .SYS, .UPD. THIS SWITCH IS ASSUMED FOR FILES WITH ABOVE FILE EXTENSIONS.

K. /LIST

THIS SWITCH IS USED TO GET THE FRONT-END DIRECTORY LISTING.

:SUM

IF THIS SWITCH IS APPENDED TO THE /LIST SWITCH ONLY THE DIRECTORY SUMMARY INFORMATION WILL BE PRINTED.

APPENDIX F.

BEWARE FILE FOR THE KLAD-10 V7.02 WITH MG-20 SUPPORT

THIS KLAD PACK SUPPORTS THE TOPS-10 V7.02 SOFTWARE PLUS NEW DIAGNOSTICS FOR THE NEW MG-20 MEMORY. THE MONITOR (SYS:SYSTEM.EXE) IS A TOPS-10 V7.02 MONITOR WITH DECNET SUPPORT BUILT INTO IT. THE SDC VERSIONS OF THE TOPS-10 V7.02 DISTRIBUTION TAPE, THE CUSP TAPE, CUSTOMER SUPPORTED TAPE, CPNSER, AND DECNET HAVE ALL BEEN PUT INTO THE (10,7) AREA. THE ONLY CHANGES BETWEEN THE SOFTWARE IN THE (10,7) AREA AND THE ACTUAL SDC RELEASE TAPES ARE 1)CHANGES TO MOSSEP.MAC TO MAKE IT WORK WITH THE NEW TCHA V4 AND 2)A PATCH TO FILTD.MAC (PCO 10-702 -041) TO MAKE IT WORK WITH THE NEW DDRPI DIAGNOSTIC. THE DIAGNOSTICS ARE IN THE (6,10) AREA. THE MANUFACTURING ACCEPTANCE CONTROL FILES ARE IN THE (35,1414) AREA.

THERE IS A MONITOR BUILT FOR TRI-SMP SYSTEMS ON (1,4) CALLED MONTRI.EXE. THERE IS ALSO A .MIC FILE LOCATED IN THE (10,7) AREA CALLED TRIKLD.MIC WHICH CAN BE USED TO BUILD A TRI-SMP SYSTEM FROM SOURCES.