

PRESSING THE "ORIG" BUTTON ON THE TELETYPE, AND DIALING 2  
WILL GIVE YOU THE LOG-ON MESSAGE AT WHICH POINT YOU CAN LOG IN.  
EXAMPLE:

HARVARD TIME SHARING SYSTEM (D00-H20): 8-6-68  
MAR 4, 1969 10:01 A.M.

GROUP NO:101  
PASSWORD:  
NAME: OPERATOR.

@

ONCE THE '@' SIGN APPEARS YOU ARE ENTERED IN THE SYSTEM.

\*\*\*\*\* LINKING \*\*\*\*\*

UPON ENTERING TYPE A WHO THIS WILL GIVE YOU A LISTING OF  
THE USERS CURRENTLY USING THE SYSTEM.  
EXAMPLE:

@WHO IS ON?  
TELCO ON LINE 0  
ACH ON LINE 2  
OPERA ON LINE 5  
ATKINSON ON LINE 12  
BROWN ON LINE 18  
DAVIS ON LINE 24  
@

AT THIS POINT TYPE LNK WHICH WILL RETURN WITH A '!'. THEN TYPE  
IMM, THE SYSTEM WILL PRINT OUT IMMEDIATE MESSAGE: FOLLOWED BY A  
LINE FEED AND CARRIAGE RETURN.

ANYTHING TYPED AT THIS POINT, FOLLOWED BY A CONTROL D, WILL  
BE SENT TO ALL USERS ON THE SYSTEM. UNTIL THE CONTROL D IS HIT  
NO MESSAGE WILL BE SENT.

IF IN TYPING YOU HIT ANY CHARACTER OTHER THAN THE ONE YOU  
WANTED, TYPING A CONTROL A WILL DELETE THE LAST CHARACTER TYPED.  
THIS BAD CHARACTER WILL NOT BE SENT, NOW YOU CAN TYPE IN THE GOOD  
CHARACTER AND RESUME YOUR MESSAGE.

IF YOU DECIDE TO DELETE THE WHOLE MESSAGE, HITTING THE  
ESCAPE KEY WILL ABORT THE MESSAGE AND BRING YOU BACK TO THE '!'  
AT WHICH POINT HITTING THE ESCAPE AGAIN WILL BRING YOU BACK TO THE  
'@' LEVEL, OR TYPING IMM WILL BRING YOU BACK TO IMMEDIATE MESSAGE:

WHEN THE MESSAGE IS COMPLETE, AND THE CONTROL D TYPED,  
DEPENDING ON THE THE LENGTH OF THE MESSAGE AND THE NUMBER OF PEOPLE  
ON THE SYSTEM IT WILL TAKE A FEW MINUTES FOR THE MESSAGE TO REACH  
ALL THE USERS. YOU WILL ALSO GET A COPY OF THE MESSAGE BACK.

EXAMPLE:

@LINK

!IMMEDIATE MESSAGE:

PLEASE LOG OUT WE ARE GOING DOWN.

PLEASE LOG OUT WE ARE GOING DOWN.

!

\*\*\*\*\* REMOVING USERS \*\*\*\*\*

AFTER USERS HAVE BEEN NOTIFIED THAT WE ARE GOING DOWN AND GIVEN A FEW MINUTES TO DO SO REMOVE THEM VIA THE DATA PHONES. DEPRESSING THE LINE KEY, DEPENDING ON WHAT LINE THEY ARE ON, THE TALK KEY, AND LIFTING THE RECIEVER WILL REMOVE THE USER FROM THE SYSTEM. THIS SHOULD CAUSE THE LIGHT ON THE LINE KEY TO GO OUT.

WHEN ALL USERS HAVE BEEN REMOVED BUSY OUT ALL THE LINES BY DEPRESSING THE LINE KEY, TALK KEY, BUSY KEY, AND LIFTING THE RECIEVER, THIS WILL START THE LINE KEY BLINKING. REPEAT THIS PROCEDURE FOR ALL THE LINES.

ON THE MAIN CONSOLE PUT BREAKPOINT 4 DOWN. THIS WILL CAUSE AN ON LINE MESSAGE TO APPEAR ON THE MAIN TELETYPE CONSOLE.  
EXAMPLE:

940 SYSTEM STARTUP

OPERATOR:

NOW PUT THE RUN-IDLE-STEP (RIS) SWITCH TO IDLE, AND HIT THE START BUTTON ON THE CONSOLE, PUT THE RIS SWITCH BACK TO RUN.

\*\*\*\*\* TAKING A FILL TAPE \*\*\*\*\*

MOUNT THE APPROPRIATE FILL TAPE, DEPENDING ON THE DAY YOU ARE TAKING THE FILL, AND MOUNT IT ON UNIT 7, AT 800 BPI, RING IN. PUT THE FILL PAPER TAPE IN THE PAPER TAPE READER AND READY. AT THE CONSOLE PUT THE 'PAPER TAPE SWITCH' UP, THIS WILL CAUSE THE PAPER TAPE TO BE READ IN, AND START THE RAD DUMPING ONTO THE TAPE. WHEN THE DUMP IS FINISHED THE TAPE WILL REWIND, AT THIS POINT REMOVE THE TAPE FROM THE DRIVE, REMOVE THE RING, LABEL WITH THE DATE, AND REPLACE TAPE IN APPROPRIATE SLOT IN RACK.

\*\*\*\*\* DUMPING THE DISC \*\*\*\*\*

GET APPROPRIATE DUMP TAPES FROM THE RACK (DEPENDING ON THE DAY YOU ARE DUMPING) AND MOUNT DUMP FOR 0-7 ON TAPE UNIT 7, AT 800 BPI, AND READY. AT THE MAIN CONSOLE PUT RIS SWITCH TO IDLE AND HIT THE START BUTTON. THEN PUT THE RIS SWITCH BACK TO RUN. READY THE SWAP PAPER TAPE IN THE PAPER TAPE READER, AND AT THE MAIN CONSOLE PUT THE 'PAPER TAPE' SWITCH UP. THIS WILL CAUSE THE PAPER TAPE TO BE READ IN.

AT THIS POINT THE CONSOLE WILL BE IN A WAIT STATE, PUT THE RIS SWITCH DOWN TO STEP AND BRING IT BACK TO RUN. THE MAIN TELETYPE CONSOLE WILL RESPOND WITH THE STARTUP MESSAGE.

EXAMPLE:

940 SYSTEM STARTUP

OPERATOR:

TYPE IN YOUR INITIALS FOLLOWED BY A PERIOD. THE COMPUTER WILL RESPOND WITH: ENTER(MO-DAY-HOUR-MIN):.

AT THIS POINT TYPE IN THE MONTH, DAY, HOUR, AND MINUTE, EACH ARE FOLLOWED BY A SPACE, AND IT IS ENDED WITH A PERIOD.

EXAMPLE:

03 04 08 40.

AT THIS POINT THE SYSTEM WILL RESPOND WITH A > INDICATING IT IS WAITING FOR COMMANDS. ALL YOU NEED DO AT THIS POINT IS TYPE IN THE FIRST CHARACTER OF THE FUNCTION YOU WANT DONE, AND THE SYSTEM WILL PRINT OUT THE WORD. TYPING A "D" WILL PRODUCE DUMP. TYPING A SECOND "D" WILL PRODUCE DISC. NOW IT WILL WAIT FOR YOU TO TYPE IN THE PLATTERS YOU WANT DUMPED.

TO DUMP PLATTERS 0 TO 7 TYPE IN A 0 FOLLOWED BY A SPACE THE SYSTEM WILL RESPOND WITH A "TO". THEN TYPE IN A 7 FOLLOWED BY A SPACE, AND THE SYSTEM WILL RESPOND WITH "TO TAPE". HERE GIVE IT A PERIOD, THE SYSTEM WILL RESPOND WITH "READY TAPE ON UNIT 7, RING IN, 800 BPI". IF THE TAPE IS READY ON THE DRIVE IT WILL ASK FOR A "TAPE NUMBER:", IF THE TAPE IS NOT READY IT WILL WAIT TILL ONE IS MOUNTED AND READIED.

ONCE THE TAPE NUMBER IS TYPED IN, THE SYSTEM WILL START DUMPING THE DISC ONTO THE TAPE.

EXAMPLE:

>DUMP DISC 0 TO 7 TO TAPE.  
READY TAPE ON UNIT 7, RING IN, 800BPI  
TAPE NUMBER: SDS 40

ONCE THE DUMP HAS FINISHED THE TAPE WILL REWIND, AND THE SYSTEM WILL RESPOND WITH ANOTHER > . IN DUMPING ANY OTHER DISCS THE SAME PROCEDURE IS FOLLOWED EXCEPT INSTEAD OF DUMP DISC 0 TO 7, YOU TYPE IN THE DISCS YOU ARE DUMPING, SUCH AS: 8 TO 15, 16 TO 19, OR 31 TO 31.

WHEN ALL DUMPS ARE DONE ALL TAPES SHOULD BE DATED AND RETURNED TO THE RACK. AT THIS POINT THE MAIN CONSOLE WILL STILL BE WAITING FOR COMMANDS WITH A ">" PRINTED OUT. YOU NOW TYPE AN "S" FOLLOWED BY A PERIOD, THIS WILL START THE SYSTEM BIT-MAPPING. EXAMPLE:

> START SYSTEM:

THE LIGHTS ON THE DISC CONTROLLER (NEXT TO THE DISC) SHOULD BE ACTIVE. IN ABOUT 10 MINUTES THE SYSTEM SHOULD BE LOADED IN. THE LAST MESSAGE TO APPEAR ON THE MAIN CONSOLE SHOULD BE: "THE HIGHEST DISC ADDRESS IS 306620 IT IS ON DISC 17".

\*\*\*\*\* OPENING LINES \*\*\*\*\*

ONCE THE SYSTEM IS LOADED IN OPEN THE LINES ON THE CALL DIRECTORY BY DEPRESSING THE LINE BUTTON, DEPRESSING THE TALK BUTTON, AND LIFTING THE RECIEVER. THIS WILL STOP THE LINE LIGHT FROM BLINKING (IF THEY HAD BEEN BUSIED OUT WHEN THE SYSTEM WAS TAKEN DOWN), DO THIS TO ALL THE LINES UNTILL ALL LINES ARE FREE.

ONCE THE LINES ARE FREE THE ONLY BUTTONS DEPRESSED SHOULD BE THE AUTO KEY AND THE TEST KEY. THESE SHOULD ALWAYS BE DOWN AT ALL TIMES WHILE THE SYSTEM IS OPERATING. ONCE THE LINES ARE OPENED YOU SHOULD LOG-IN TO MAKE SURE THE SYSTEM IS OPERATING PROPERLY.

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