

HP2000B.TXT

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***** BIOC AGENT 003
'S TUTORIAL IN ****
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PREFACE

THE PURPOSE OF THIS TUTORIAL IS TO GIVE
POTENTIAL HACKERS USEFUL INFORMATION
ABOUT HEWLETT-PACKARD'S HP2000 SYSTEMS.

THE FOLLOWING NOTATION WILL BE USED
THROUGHOUT THIS TUTORIAL:

<CR> - CARRIAGE RETURN, RETURN, ENTER,
ETC.
^C - A CONTROL CHARACTER (CONTROL-C I
N EXAMPLE)
CAPITAL LETTERS - COMPUTER OUTPUT & USE
R INPUT

SYSTEM INFORMATION

EACH HP2000 SYSTEM CAN SUPPORT UPTO 32
USERS IN A TIMESHARED BASIC (TSB)
ENVIRONMENT. THE SYSTEM**MU11ERUN A
VERSION OF HEWLETT PACKARD'S
TIMESHARED/BASIC 2000 (VARIOUS LEVELS).

LOGON PROCEDURE

ONCE CONNECTED TO A HP2000, TYPE A NUME
RAL FOLLOWED BY A <CR>. THE SYSTEM
SHOULD THEN RESPOND WITH: PLEASE LOG I

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N. IF IT DOES NOT IMMEDIATELY
RESPOND KEEP ON TRYING THIS PROCEDURE U
NTIL IT DOES (THEY TEND TO BE SLOW
TO RESPOND).

USER ID: THE USER ID CONSISTS OF A LETTER FOLLOWED BY 3 DIGITS, EG, H241.

PASSWORD: THE PASSWORDS ARE FROM 1 TO 6 PRINTING AND/OR NON-PRINTING (CONTROL) CHARACTERS. THE FOLLOWING CHARACTERS WILL NOT BE FOUND IN ANY PASSWORDS SO DON'T BOTHER TRYING THEM: LINE DELETE (^X), NULL (^@), RETURN (^M), LINEFEED (^J), X-OFF (^S), RUBOUT, COMMA (^L), SPACE (^@), BACK ARROW (<-), & UNDERSCORE (_). HP ALSO SUGGESTS THAT ^E IS NOT USE IN PASSWORDS (BUT I HAVE SEEN IT DONE!).

THE LOGON FORMAT IS: HELLO-A123,PASSWD

WHERE: HELLO IS THE LOGIN COMMAND. IT MAY BE ABBREVIATED TO HEL. A123 IS THE USER ID & PASSWD IS THE PASSWORD.

THE SYSTEM WILL RESPOND WITH EITHER ILLLEGAL FORMAT OR ILLEGAL ACCESS DEPENDING UPON WHETHER YOU SCREWED UP THE SYNTAX OR IT IS AN INVALID USER ID OR PASSWORD. THE MESSAGES: PLEASE LOG IN, ILLEGAL FORMAT, & ILLEGAL ACCESS ALSO HELP YOU IDENTIFY HP2000 SYSTEMS.

THE SYSTEM MAY ALSO RESPOND WITH ALL PORTS ARE BUSY NOW - PLEASE TRY AGAIN LATER OR A SIMILAR MESSAGE. ONE OTHER POSSIBILITY IS NO TIME LEFT WHICH MEANS THAT THEY HAVE USED UP THEIR TIME LIMIT WITHOUT PAYING.

UNLIKE OTHER SYSTEMS WHERE YOU HAVE A CERTAIN AMOUNT OF TRIES TO LOGIN, THE HP2000 SYSTEM GIVES YOU A CERTAIN TIME LIMIT TO LOGON BEFORE IT DUMPS YOU. THE SYSTEM DEFAULT IS 120 SECONDS (2 MI

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NUTES). THE SYSOP CAN CHANGE IT TO BE ANYWHERE BETWEEN 1 AND 255 SECONDS, THO UGH. IN MY EXPERIENCE, 120 SECONDS IS SUFFICIENT TIME FOR TRYING BETWEEN 20-30 LOGON ATTEMPTS WHILE HAND-HACKING & A MUCH HIGHER AMOUNT WHEN USING A HACKING PROGRAM.

USERS

THE VARIOUS USERS ARE IDENTIFIED BY THEIR USER ID (A123) & PASSWORD. USERS ARE ALSO IDENTIFIED BY THEIR GROUP. EACH GROUP CONSISTS OF 100 USERS. FOR EXAMPLE, A000 THROUGH A099 IS A GROUP, A100 THROUGH A199 IS ANOTHER GROUP, & Z900 THROUGH Z999 IS THE LAST POSSIBLE GROUP. THE FIRST USER ID IN EACH GROUP IS DESIGNATED AS THE GROUP MASTER & HE HAS CERTAIN PRIVILEGES. FOR EXAMPLE, A000, A100,...H200..., & Z900 ARE ALL GROUP MASTERS. THE USER ID A000 IS KNOWN AS THE SYSTEM MASTER & HE HAS THE MOST PRIVILEGES (BESIDES THE HARDWIRED SYSOP TERMINAL). THE LIBRARY ASSOCIATED WITH USER Z999 CAN BE USED TO STORE A HELLO PROGRAM WHICH IS EXECUTED EACH TIME SOMEONE LOGS ON.

SO, THE BEST THING TO HACK ON AN HP2000 SYSTEM IS THE SYSTEM MASTER (A000) ACCOUNT. IT IS ALSO THE ONLY USER ID THAT MUST BE ON THE SYSTEM. HE LOGS ON BY TYPING: HEL-A000,PASSWD. YOU JUST HAVE TO HACK OUT HIS PASSWORD. IF YOU DECIDE TO HACK Z999, YOU CAN CREATE OR CHANGE THE HELLO PROGRAM TO GIVE EVERY USER YOUR OWN PERSONAL MESSAGE EVERY TIME HE LOGS ON! THIS IS ABOUT ALL YOU CAN DO WITH Z999 THOUGH SINCE IT IS OTHERWISE A NON-PRIVILEGED ACCOUNT.

LIBRARY ORGANIZATION

EACH USER HAS ACCESS TO 3 LEVELS OF LIBRARIES: HIS OWN PRIVATE LIBRARY, A GROUP LIBRARY, AND THE SYSTEM LIBRARY.

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TO SEE WHAT IS IN THESE LIBRARIES YOU WOULD TYPE: CATALOG, GROUP, & LIBRARY RESPECTIVELY (ALL COMMANDS CAN BE ABBREVIATED TO THE FIRST 3 LETTERS). THE INDIVIDUAL USER IS RESPONSIBLE FOR HIS OWN LIBRARY AND MAINTANING ALL THE FILES. IF A PROGRAM IS IN YOUR CATALOG, THEN YOU CAN CHANGE IT.

[GROUP MASTERS]

GROUP MASTERS (GM) ARE RESPONSIBLE FOR CONTROLING ALL PROGRAMS IN THE GROUP LIBRARIES. ONLY MEMBERS OF THE GROUP CAN USE THESE PROGRAMS. THESE ARE VIEWED BY TYPING GROUP. FOR EXAMPLE, USER S500 CONTROLS ALL PROGRAMS IN THE GROUP LIBRARY OF ALL USERS BEGINNING WITH ID S5XX. OTHER USERS IN THE GROUP CANNOT MODIFY THESE PROGRAMS. ALL PROGRAMS IN THE GROUP LIBRARY ARE ALSO IN THE GROUP MASTERS PRIVATE LIBRARY (CATALOG), THEREFORE HE CAN MODIFY THEM! THE GROUP MASTER ALSO HAS ACCESS TO 2 PRIVILEGED COMMANDS. THEY ARE: PROTECT & UNPROTECT. WITH PROTECT, THE GROUP MASTER CAN RENDER A PROGRAM SO IT CANNOT BE LISTED, SAVED, CSAVED, PUNCHED TO PAPER TAPE, OR XPUNCHED. FOR EXAMPLE, IF THE GM TYPED PRO-WUMPUS, OTHER USERS IN THE GROUP WOULD BE ABLE TO RUN WUMPUS BUT THEY WOULD NOT BE ABLE TO LIST IT. THE GM CAN REMOVE THESE RESTRICTIONS WITH THE UNPROTECT COMMAND.

[SYSTEM MASTER]

THERE IS EXACTLY ONE SYSTEM MASTER (SM) AND HIS USER ID IS A000. HE CAN PROTECT & UNPROTECT PROGRAMS IN THE SYSTEM LIBRARY. ALL USERS HAVE ACCESS TO THESE FILES BY TYPING LIBRARY TO VIEW THEM. ONLY THE SYSTEM MASTER CAN MODIFY THESE FILES SINCE HIS PRIVATE LIBRARY & GROUP LIBRARY CONSTITUTE THE SYSTEM LIBRARY. THE SM ALSO HAS ACCESS TO OTHER PRIVILEGED COMMANDS SUCH AS:

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DIRECTORY: THIS COMMAND WILL PRINTOUT
ALL FILES AND PROGRAMS STORED ON THE
SYSTEM ACCORDING TO USERS.

DIR WILL PRINT OUT THE ENTIRE
DIRECTORY. DIR-S500 WILL START LISTING THE DIRECTORY WITH USER
S500.

EXAMPLE:

DIR
BOCES ED 1 053/84 1243

ID	NAME	DATE	LENGTH	DISC
	DRUM			
A000	ALPHA	043/84	00498	001384
	BCKGMN	053/84	04564	001526
	FPRINT	053/84	00567	002077
	STOCK	038/84	04332	002753
	TFILE	020/83 F	00028	002804
	WUMPUS	053/84 P	02636	003142
B451	BLJACK	316/75	03088	011887
	GOLF	316/75	02773	011911
S500	GIS	050/84 C	03120	019061
	GISCL4	050/84 F	03741	022299
Z999	HELLO	021/84	00058	011863

IN THIS EXAMPLE, THE SYSTEM NAME IS BOCES ED 1. THE DATE OF THE PRINTOUT IS THE 53RD DAY OF 1984 (053/84) AND THE TIME IS 12:43 (24-HR). THE FILES APPEARING UNDER A000 ARE THOSE IN THE SYSTEM LIBRARY. THE DATE ASSOCIATED WITH THE PROGRAM IS THE DATE IT WAS LAST REFERENCED. THE LENGTH IS HOW LONG IT IS IN WORDS. DISC REFERS TO ITS STORAGE BLOCK LOCATION ON ONE OF THE HARD DRIVES. DRUM REFERS TO ITS LOCATION ON THE DRUM STORAGE UNIT. ONLY SANCTIFIED PROGRAMS ARE STORED ON A DRUM TO INCREASE THEIR ACCESS TIME. THE LETTERS AFTER THE DATE REFER TO F IF IT IS A FILE, P MEANS IT IS PROTECTED, AND C MEANS THE PROGRAM IS COMPILED. IN THE EXAMPLE THE SYSTEM PROGRAM, WUMPUS, WAS LAST USED ON THE 53RD DAY OF 1984 (2-22-84); IT IS CURRENTLY UNLISTABLE (PROTECTED) AND IT OCCUPIES 2636 WORDS OF MEMORY STARTING AT DISC B

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LOCK 3142. THE COMMAND SDIRECTORY WILL PRINT OUT PROGRAMS THAT ARE ONLY STORED ON DRUM. MOST SYSTEM DIRECTORIES ARE USUALLY LONGER THAN THE EXAMPLE. THE ABOVE EXAMPLE IS AN ABRIDGED VERSION OF A 43 PAGE DIRECTORY! THE <BREAK> KEY WILL STOP THE LISTING IF NECESSARY.

REPORT

THE REPORT COMMAND WILL SHOW THE USER ID, HOW MUCH TERMINAL TIME THEY HAVE USED SINCE THE LAST BILLING PERIOD (IN MINUTES), AND HOW MUCH DISC SPACE THEY ARE USING.

EXAMPLE:

REPORT

BOCES ED 1 055/84 1905

ID	TIME	SPACE	ID	TIME	SPACE
I	TIME	SPACE			
A000	01150	12625	B451	00003	05861
B864	00000	00000			
S500	00235	06861	S543	00421	00000
Z999	00000	00058			

THE ADVANTAGE OF HACKING THE A000 PASSWORD FIRST IS THAT YOU CAN USE THE PRIVILEGED COMMANDS TO SEE WHICH USER ID'S EXIST AND WHAT PROGRAMS ARE STORED WHERE SO THAT YOU CAN FURTHER PENETRATE THE SYSTEM.

PORt

THIS COMMAND TELLS THE CHARACTER SIZE AND BAUD RATE AT WHICH EACH OF THE 32 PORTS ARE CONFIGURED. IT IS IN THE FORMAT C-BBB, WHERE C=CHARACTER SIZE & BBB=BAUD RATE. IT IS SET UP IN COLUMNS OF 8. THE FIRST ROW CORRESPONDS TO PORTS 0-7, THE SECOND ROW CORRESPONDS TO 8-15, ETC. THIS IS GENERALLY USELESS IN MY OPINION. ALSO, THE PORTS ARE USU

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ALLY ONLY CONFIGURED SEPARATELY IF THE TERMINALS ARE ALL HARD-WIRED.

STATUS

THIS COMMAND ALLOWS THE SM TO VIEW INFORMATION CONCERNING THE MASS-STORAGE DEVICES. IT GIVES CURRENT LOCATIONS OF THE ID TABLE, USER SWAP AREAS, LINE PRINTER STATUS, ETC. IT TENDS TO HOLD ALOT OF INFO IF IT IS READ CORRECTLY. UNFORTUNATELY, I DON'T HAVE THE ROOM TO FULLY DISCUSS IT HERE.

SINCE ALL LOGINS & LOGOUTS ARE PRINTED AT THE SYSTEM CONSOLE ALONG WITH OTHER PERTINENT INFORMATION, I WOULD STRONGLY SUGGEST THAT YOU AVOID EXTENSIVE USE OF AN A000 PASSWORD IF YOU FIND ONE.

THE SYSTEM OPERATOR HAS ACCESS TO ALOT OF OTHER COMMANDS. UNFORTUNATELY, HE IS SITUATED AT THE SYSTEM CONSOLE WHICH IS HARD-WIRED TO THE COMPUTER. IF ANYONE FIGURES OUT A WAY TO GIVE A REMOTE USER SYSOP PRIVILEGES, LET ME KNOW & I CAN HELP YOU WITH HIS COMMANDS.

NON-PRIVILEGED COMMANDS

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LIBRARY - LISTS THE SYSTEM PROGRAMS. THERE IS ONLY 1 SYSTEM LIBRARY & ANY USER CAN ACCESS IT.

EXAMPLE:

LIBRARY TO RETRIEVE A PROGRAM FROM THE SYSTEM LIBRARY, YOU WOULD TYPE:

GET-NAME (TO LOAD THE STOCK PROGRAM, YOU WOULD TYPE GET-STOCK)

YOU CAN THEN RUN OR LIST IT. IF YOU ATTEMPTED TO LIST WUMPUS WHICH IS

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PROTECTED (P), IT WOULD SAY RUN ONLY.

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GROUP - LISTS ALL FILES IN YOUR GROUP.

IT IS IN THE SAME FORMAT AS THE LIBRARY

=5599

TO RETRIEVE A PROGRAM FROM YOUR GROUP LIBRARY, YOU WOULD TYPE:

GET-*NAME

=====

CATALOG - LISTS ALL FILES IN YOUR PERSONAL LIBRARY. IT IS ALSO IN THE SAME FORMAT AS THE LIBRARY COMMAND

.

TO RETRIVE A PROGRAM IN YOUR PERSONAL LIBRARY, YOU WOULD TYPE:

GET-NAME

=====

OTHER COMMANDS YOU CAN USE WITH YOUR PERSONAL FILES (OR SYSTEM FILES IF LOGGED ON AS A000) INCLUDE:

RUN	RUNS THE PROGRAM IN THE
USER SWAP AREA	(MEMORY)
LIST	LISTS THE PROGRAM IN THE
E USER SWAP AREA	
SAVE-NAME	NAME MAY BE UPTO 6 CHAR
ACTQ**HHMY5NAME	SAVE IN COMPILED FORM
NAME-NAME	ASSIGN A NAME TO IT
KILL-NAME	DELETES A FILE FROM YOU
R LIBRARY	
PUNCH	PUNCHES A PROGRAM ONTO
PAPER TAPE	
TAPE	INPUT A PAPER TAPE
APPEND-NAME	ATTACHES THE FILE NAME
TO CURRENT PROGRAM	IN MEMORY
LENGTH	TELLS THE CURRENT LENGTH
H OF PROGRAM	IN MEMORY
LPRINTER	DESIGNATES THE LINE PRI

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ENTER AS USER OUTPUT DEVICE
OPEN CREATES A FILE [OPEN-FI
LE,# OF RECORDS, (RECORD LENGTHS)]
RENUMBER RENUMBERS STATEMENTS
 [REN-(1ST STATEMENT #),
(INTERVAL BETWEEN STATEMENTS), (# TO
 START RENUMBERING AT),
(# TO END RENUMBERING)]

NOTE: ALL COMMANDS CAN BE ABBREVIATED
TO THE FIRST 3 DIGITS. THE MAIN COMMAND
IS SEPARATED FROM THE FIRST PARA
METER BY A DASH (-), THE FIRST PARAMETER
IS SEPARATED BY THE SECOND PARAM
ETER BY A COMMA (,), AND ALL FURTHER
PARAMETERS ARE SEPARATED BY COMM
AS. EG, HEL-A000,^C(I DID ACTUALLY
 FIND A SYSTEM WHERE THE SM PASSW
ORD WAS ^C).

OTHER USEFUL COMMANDS

BYE LOGS USER OFF
ECHO-ON HALF-DUPLEX
 -OFF FULL-DUPLEX (DEFAULT)
SCRATCH1IMUSERS SWAP AREA
(NEW)
KEY TRANSFERS CONTROL TO KE
YBOARD
TIME INFORMS USER OF TOTAL C
ONNECT TIME & CONSOLE TIME
MESSAGE SENDS A MESSAGE TO SYSO
P CONSOLE [MES-(TEXT UPTO 68 CHARS)]

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THE PROGRAMMING OF THE SYSTEM IS ABOVE
THE SCOPE OF THIS TUTORIAL. IF YOU DO
MANAGE TO GET INTO THE A000 OR Z999 ACC
OUNTS, THERE IS SUFFICIENT INFO
PROVIDED IN THIS TEXT TO HELP YOU MANIP
ULATE THE DATA. THE BASIC IS RATHER
EXTENSIVE. THE FILE COMMANDS ARE EXCELL
ENT & YOU CAN MASK FILES SO THAT NOBODY
CAN READ THEM WITHOUT THE PROPER MASK (

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I HAVE ALREADY CRACKED THIS CODE,
THOUGH!). BRIEFLY, IT IS SIMILAR TO MOS
T OTHER BASIC'S. IF YOU WANT, ORDER
THEIR PROGRAMMING MANUAL. IT IS CALLED
20854A TIMESHARED BASIC/2000, LEVEL F
(PART # 02000-90073).

NOTE: THERE ARE DIFFERENT LEVELS (VERSIONS) OF TSB/2000. THIS ARTICLE IS
BASED PRIMARILY ON LEVEL F. MOST
OF THE LEVELS ARE SIMILAR IN THEIR
COMMANDS SO THE DIFFERENCES SHOULD
NOT AFFECT THE HACKER. ALSO, SOME
SYSTEMS ARE CUSTOMIZED. EG, ONE
SYSTEM I KNOW DOESN'T HAVE THE MESSAGE
COMMAND BECAUSE _EDON'T WANT
THE OPERATOR BOTHERED WITH MESSAGES.
ANOTHER SYSTEM SAYS ??? INSTEAD
OF PLEASE LOG IN AND ILLEGAL INSTEAD OF
ILLEGAL ACCESS. THESE ARE ONLY
TRIVIAL PROBLEMS, THOUGH.
PROGRAMS

HEWLETT-PACKARD OFTEN SUPPLIES PROGRAMS
FROM THEIR TSB LIBRARY FOR THE SYSTEMS.
UTILITIES SUCH AS ASCII*, FPRINT, & OTHERS
ARE ALMOST INEVITABLY FOUND ON
EVERY SYSTEM. STANDARD GAMES SUCH AS WUMPUS,
STOCK, LUNAR, & MANY OTHERS ARE
ALSO A "SYSTEM OUST." OTHER COMPANIES
OFFER VERY LARGE PROGRAMS FOR THE
HP2000 ALSO. GIS (GUIDANCE INFORMATION
SYSTEMS) IS A DATABASE TO HELP GUIDANCE
COUNSELORS HELP STUDENTS TO SELECT COLLEGES,
JOBS, FINANCIAL AID, ETC. GIS IS
USUALLY FOUND IN THE S5XX GROUP LIBRARY
(ANYONE WITH AN S5XX PASSWORD CAN USE
IT). UNFORTUNATELY, SOMETIMES THESE PROGRAMS
ARE SET SO THAT A CERTAIN
PASSWORD WILL AUTOMATICALLY RUN THEM.
IN SOME CASES YOU CAN ABORT BY PRESSING
THE <BREAK> KEY. THERE IS A BASIC FUNCTION
[X=BRK(0)] THAT DISABLES THE
<BREAK> KEY. IN THIS CASE, ONLY THE SYSTEM
OR THE PROGRAM CAN THROW YOU INTO
BASIC.

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THERE ARE MANY ALLEGED BUGS ON THE HP2000 THAT ALLOW USERS TO DO ALL SORTS OF THINGS. IF YOU RUN ACROSS ANY OF THESE BE SURE TO LET ME KNOW.

I HAVE SEEN ONE SYSTEM THAT CONSISTED OF 2 HP2000'S RUNNING TOGETHER. IN THIS CASE, THE MULTIEAIWOULD FIRST ASK THE USER SYSTEM 1 OR SYSTEM 2? BEFORE LOGGING IN. YOU WOULD THEN TYPE SYS1 OR SYS2.

MOST OF THE HP2000 SYSTEMS ARE USED BY SCHOOLS, SCHOOL DISTRICTS, BOCES, AND VARIOUS BUSINESSES. THIS WAS AN IDEAL SYSTEM FOR SCHOOLS BEFORE MICRO-COMPUTERS EXISTED. THE HP2000 SYSTEM HAS BEEN IN EXISTANCE SINCE AROUND 1973. IT HAS BEEN REPLACED BY THE HP3000 BUT THERE ARE STILL MANY HP2000 SYSTEMS IN EXISTANCE & I BELIEVE THAT THEY WILL STAY THERE FOR AWHILE.

HERE ARE THE DIAL-UPS TO A FEW HP2000 SYSTEMS TO GET YOU STARTED:

[314/645-1289]
[203/622-1933]
[312/398-8170]

IF YOU NEED HELP WITH ANYTHING ON AN HP 2000 OR FIND OTHER HP2000 SYSTEMS, FEEL FREE TO ASK ME. ANY COMMENTS, CORRECTIONS, AND/OR THREATS ARE ALSO WELCOME.

YOURS TRULY,

*****BIOC
*==*AGENT
*****003

<<=-FARGO 4A-->>

(P) APRIL 8, 1984 [THE YEAR OF BIG BROTHER]

SHERWOOD FOREST][- (914) 359-1517
RACS III - (914) 942-2638

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PS SYSOPS OF OTHER BBS'S ARE WELCOME TO
USE THIS MATERIAL ON THEIR BOARD
PROVIDING THEY DO NOT ALTER ANYTHING

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Downloaded from P-80 Systems.....