



# THE ARCHIVER

The little Black Book Mommy told you about!

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## 1541 MAGIC SPELLS



Pictures provided by Nico Clone

#### INTRODUCTION

\_\_\_\_\_

There are three reasons why this manual was written. First, to enable the original purchaser of protected software to make archival backups, second, to help reduce the damage which results from the drive "head" hitting the "stop", and third to allow the use of the SX64 and 1541 compatible drives.

Whether software is on disk or cartridge, it is susceptible to damage. If the original program is "protected" in a manner which prevents the user from making a backup, the user-is-out-of-luck. The ARCHIVER manual shows you how to make archival backups of over 300 programs. The intention of this manual is not to promote or, condone piracy in any form. ARCHIVER is sold exclusively for the education of the original purchaser. It is illegal to sell or distribute copyrighted software. Archiver's purpose is to enable the original purchaser to make an archival backups as permitted by Federal Law.

#### WARRANTY and COPYRIGHT

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CYBERTECH P.O. BOX 4065 EAST LANSING, MI. 48823 (517) 351-7305

EDITION 5 WRITTEN BY MAD MAX ALONG WITH THE ADDITIONS OF LATER SOFTWARE PROGRAMS.

PROGRAMS ON DISK

#### PROGRAMS ON DISK

\_\_\_\_\_

Included with the Archiver Manual are several programs to help you remove the many types of protection schemes. The following section is a brief explanation on the operation of some of those programs. All programs run in C64 mode even though some of the parameters are for the C128.

HIMON SYS49152, LOMON SYS32768, LLMON SYS8192

There are six commands which will be used to copy Cartridges. They are: S; L; M; I; D; A.

The "S" command is used to save sections of code. For Example, if you wished to save a 16k Cartridge you would do the following:

S"NAME",08,8000,C000

The "L" command is used to load a file into the computers memory. For example, to load a file called "ARCHIVER", you would do the following:

#### L"ARCHIVER",08

The "M" command displays the hexadecimal contents of any address or range of addresses in memory. For example, to examine address 0001 you would do the following:

M 0001

This would display the next 8 bytes of memory starting at address 0001. The "I" command is used to interrogate memory locations. Interrogation converts the hexadecimal memory contents to their ASCII equivalent and display them on the screen. You will use the "I" command to check for the "CBM80" at \$8000. For example:

I 8000

If an auto-start Cartridge was inserted, you would see the letters "CBM80" from addresses \$8004-\$8008. The "D" command is used to disassemble the contents of a series of memory locations. This command displays the mnemonic equivalent of the hexadecimal contents at a given location. For example:

D 8000 8100

This would disassemble the memory contents from \$8000-\$8100. The "A" command is used to Assemble machine code instruction at a particular address. For example:

A 7000 JSR \$FCE2 (press return)

After pressing "return", the code would look like this:

A 7000 20 E2 FC JSR \$FCE2 A 7003

The ML monitor automatically assembles the mnemonic code you entered into the required hex bytes and then prints the next consecutive line number to be assembled.

### SUPERBOOTER

\_\_\_\_\_

The operation of SUPERBOOTER is covered in the cartridge introduction section.

ZIP

ZIP is designed to create a 'clean' working area in the computer's memory. To 'run' the program, load"ZIP",8,1 and press 'return'. ZIP will do the rest.

### ALLOCATE ALL

ALLOCATE ALL will allocate all blocks on a particular disk. This ensures that when a file is 'scratched' from the disk, the file that replaces it will get placed exactly where the other one resided.

#### DIRECTORY REPAIR

\_\_\_\_\_

DIRECTORY REPAIR is designed to "clean-up" disk directories that cannot be listed because they contain special characters, false pointers, or endless loops. Type 'LOAD"DIRECTORY REPAIR",8' and 'RUN'. The program will report all "non-standard" directory blocks and Will remove the abnormal characters. If the directory needs repair, it will ask you to enter a new NAME and ID for the disk. DIRECTORY REPAIR will also unwrite protect disk and files.

#### STACK 02A7, 033C, CF00

The STACK programs are designed to transfer the first 4k of memory from \$0000-\$FFFF to \$6000-\$6FFF. This will allow you to examine this area of memory without it being altered by the program which is running. Type 'LOAD"STACKxxxx",8,1' and SYS to the appropriate address. \$02A7 = SYS679, \$033C = SYS828, \$CF00 = SYS52992.

#### DC. \$1000, \$8000, \$C000

DC. is a ML monitor that will decode unimplemented op-codes. The monitor has three basic functions: D ssss ffff = disassemble code from ssss to ffff; P ssss ffff = print the code from ssss to ffff; and X = exit to basic. There are several programs using unimplemented op-codes for protection because traditional ML monitors wouldn't 'decode' this type of code. There are several articles in COMPUTE GAZETTE explaining the function of any of these unimplemented instructions. Type 'LOAD"DC.XXXX",8,1' and SYS: \$1000 = 4096; \$8000 = 32768; \$C000 = 49152.

#### FILE COMPARE

This program will "compare" two files and report the address and value of the conflicting data. The program will work on a dual drive or a single. The programs to be compared must have different names, otherwise it will compare a file to itself. It will generate a report to either the screen or printer, and will compare either program or sequential files. With some printer interfaces it may be necessary to remove the buffer memory for the program to generate a printed copy.

\_\_\_\_\_

#### KERNAL MOVE

This program will move the contents lying underneath the KERNAL (\$E000-\$FFFF) to \$2000-\$3FFF. The program should be loaded with an ML monitor and activated with a G 1000.

#### UNWRITE PROTECT

This program will unwrite protect a disk so its contents can be altered. It accomplishes this by changing byte 3 of track 18 sector 0 from whatever it is to its original value of \$41.

#### BLOCK FINDER

BLOCK FINDER (BF) will locate a particular byte on a disk when it is given the name of a file and the address at which the code resided in the computer's memory. The address must be entered in decimal. BF will report the track, sector, and byte location of the code you specified (These values are all reported in decimal). This makes it easy to alter protection schemes with a track and sector editor once the desired code is located.

#### LOADADDR

This program will change the Load address of a particular file. You must enter the file name, and the new load address (in decimal). It will locate the file and change the loading address on the disk.

#### T & S EDITOR

The TRACK and SECTOR EDITOR (T&S) enables you to edit the code while it's on the disk. Type 'LOAD"T & S EDITOR",8' and 'RUN'. Once the program is running, press 'R'. This will read the code from the disk. The program asks for the track and sector to be read (these must be entered in decimal). When the block of data is read it is displayed in ASCII on the screen. The cursor keys enable you to move around in the block of data being displayed. When you move around the data display, the windows displaying the byte value and location change (these are in hexadecimal).

To change data go to the desired location within the data block by watching the value displayed in the location window. Once there, press the '@' key. The window displaying the current byte value will clear and you can now enter the new value. YOU MUST ENTER A '\$' BEFORE ALL DATA OTHERWISE IT WILL BE INTERPRETED AS DECIMAL AND NOT HEXADECIMAL. For example 'A0' would be entered as '\$A0'. Once you done the change, press 'RETURN' and use the cursor keys to locate additional bytes to be changed. After all changes are made, press 'W' to write the altered data back to disk. "REMEMBER", THE TRACK AND SECTOR ARE ENTERED IN DECIMAL, AND THE BYTES ARE ENTERED IN HEX WITH A PRECEEDING "\$".

#### RELOCATE BLOCK

This program will read the data from a particular track and sector and "relocate" the data to another track and sector. You must supply the source track and sector and the destination track and sector.

The disk section of the ARCHIVER manual follows fairly simple format. All programs are listed by company, and then alphabetically by program name. The following example shows the steps necessary to remove the protection from most programs:

\_\_\_\_\_

RANDOM HOUSE INC.

ALPINE ENCOUNTER (TM)

------

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
07	10	08	20	EA
03	18	09	CF	A9
03	18	0A	FF	01

#### 4. DONE!

Step 1 says make a copy or clone same unless it specifies a special copier. This means make a copy of the whole disk WITHOUT THE ERRORS WHICH ARE PRESENT ON THE ORIGINAL: BACKUP 228 on the ARCHIVER disk will create a backup without errors. This program is very slow. One nice feature we placed in it was the ability to stop and start on any track! Some tracks have embedded GCR which is used to stop any copier from making a copy. If you want to copy faster we have a few in mind: FAST HACK'EM, DI-SECTOR, RENEGADE, and MAVERICK. The later 2 was Added to this new version.

Step 2 says load & execute the track and sector editor (T&S). A T&S is included on the ARCHIVER disk. The directions for its use are outlined in the section explaining the programs on the ARCHIVER disk.

Step 3 says to make the specified changes using the T&S. All programs using a T&S follow the same format. We tell you the track, sector, and byte where the data is located. Next, we tell you what the "old" data is, and what it must be changed to, or the "new" data. The track & sector are in decimal, and the byte, old data, and new data are in hexadecimal. When altering the data with the T&S, BE SURE TO PLACE A "\$" PRECEDING THE "NEW" DATA. For example: "A0" should be entered as "\$A0". If the "\$" isn't included, the data will be interpreted as decimal not hexadecimal making the data you entered incorrect.

The removal of some protection schemes require you to load them from the original and make changes using either the "M" or "A" command of the ML monitors included on the ARCHIVER disk. A thorough explaination of the use of the monitors is included in the section covering the programs on the ARCHIVER disk.

Some programs require the computer to be RESET after the program is running. This can only be accomplished with a "RESET" button. In

some cases, pressing the "RESET" button will not allow you to exit the program. EASY SCRIPT (TM), for example, will restart after pressing RESET. To RESET programs like this, you must have a switch with which you can "GROUND" the EXROM line of the cartridge port. This "FLIPS-OUT" the auto start memory at address \$8000 and enables the computer to be "RESET". The best way to do this is to have a switchable expander board. There are many available priced from \$19.99 to \$60.00.

The boards priced around \$20.00 to do a good job. There are very few programs which require the "activation" of the EXROM line. We've tried to minimize the number of programs requiring this method of protection removal. The ones that do require an EXROM switch can't be unprotected by any other method.

Most programs can be unprotected individuals with very little experience. However, some programs have many steps which require more effort because of the sophistication of the protection scheme. These programs follow a similar format as outlined above, but may consist of as many as 20 steps. If you work slowly, and do everything we tell you, it will become very easy to remove even the most sophisticated protection schemes in minutes!

We hope this book serves as an educational tool into the understanding and removal of protection schemes. CYBERTECH does not condone the unauthorized distribution or sale of copyrighted software. This publication was created to enable the original purchaser to make ARCHIVAL copies of original software. We hope you do not abuse the information contained in this manual.

DISK

#### ABACUS

\_\_\_\_\_

ADA TRAINING (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
35 35	00	01	25	12
35	00	05	ΟE	12

4. LOAD"RELOCATE BLOCK",8 AND RUN
5. SOURCE: TRACK 37 SECTOR 14 DESTINATION: TRACK 18 SECTOR 18
6. YOU'RE DONE!!

PROTECTION

-----

RELOCATE BLOCK MOVES DATA FROM TRACK 37,14 TO 18,18. THE T & S CHANGES RESULT IN THE PROGRAM READING'TRACK 18,18.

CADPAK 128

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

[KEYB	OARD]				[MOU	SE]
TRACK	SECTOR	BYTE	OLD DATA	NEW DATA	TRACK	SECTOR
		 01				10
02	06	UI	AB	BC	04	13
02	06	21	1F	44	04	13
02	06	22	DO	D4	04	13

ADD THIS RTN AT BYTE AC (Track 2 for Keyboard/Track 4 for Mouse) A9 EA 8D 60 D0 8D C0 D0 8D CB D2 8D D8 D2 4C 1F D0

4. SAVE SECTOR AND YOUR DONE!!

PROTECTION

\_\_\_\_\_

EXTENDING THE SECTOR TO ADD THE NEW EQUATION AND BYPASS TRACK/SECTOR CHECK AND PLACING THE NEW ROUTINE INTO THE PLACE CHECK AND JUMP TO \$1FD0 TO RUN.

SDU 64 (TM) \_\_\_\_\_ 1. LOAD "HIMON", 8,1 AND SYS49152 2. F 0800 BFFF 00 3. LOAD"SDU",8,1 4. AFTER LOADING IS COMPLETE, PRESS RESET BUTTON 5. M 0801 OB 08 6. INSERT FORMATTED DISK 7. S"SDU",08,0801,257D 8. TO RUN PROGRAM, LOAD"SDU", 8 AND RUN 9. YOU'RE DONE!! SUPER C (TM) -----1. MAKE A COPY OF THE ORIGINAL. 2. SCRATCH THE FOLLOWING FILES FROM COPY: FILE NAME SAVE RANGE 0801 0802 BYTES \_\_\_\_\_ C-COPY0801-0D823009C-EDITOR0801-20066219C-COMPILER0801-68B86324C-LINKER0801-26090C0D 3. LOAD "HIMON", 8,1 AND SYS49152 4. F 0800 BFFF 00 5. G FCE2 (RESET THE COMPUTER) 6. INSERT ORIGINAL AND LOAD":\*",8,1 7. WHEN MENU APPEARS, SELECT "C-COPY" 8. AFTER FILE IS LOADED, PRESS RESET BUTTON 9. SYS49152 (RE-ENTER MONITOR) 10. M 0801 30 09 (REPLACE THE BYTE AT 0801 AND 0802. SEE TABLE ABOVE) 11. INSERT CLONE DISK 12. S"C-COPY",08,0801,0D82 (SAVE RANGE TAKEN FROM ABOVE TABLE) 13. REPEAT STEPS 4-12 USING THE APPROPRIATE SAVE RANGE AND REPLACEMENT BYTES FOR EACH FILE. 14. YOU'RE DONE!! NOTE: THE FOLLOWING CHANGES ARE ONLY TO BE MADE IF YOU WISH TO USE FASTLOAD (TM) WITH SUPER C (TM). 15. LOAD & EXECUTE TRACK & SECTOR EDITOR. 16. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR: SECTOR BYTE OLD DATA NEW DATA TRACK -----06 2E 20 06 2F 15 06 30 FD 17 ΕA 17 ΕA 17 ΕA 17. YOU'RE DONE!!

\_\_\_\_\_

#### ACADEMY SOFTWARE INC.

\_\_\_\_\_

### IFR (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	10	4C	9E	8 F
17	10	63	9E	8 F

4. YOU'RE DONE!!

#### PROTECTION

-----THIS PROGRAM IS A BASIC PROGRAM. IT CHECKED TRACK 33 FOR AN ERROR AND

RESET (SYS64738) IF NO ERROR WAS FOUND. A \$9E, A 'SYS', WAS REPLACED WITH AN \$8F WHICH IS A 'REM'.

#### TYPING TUTOR + WORD-INVADERS (TM)

-----

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	16	CA	34	8 F
17	16	D8	9E	8 F

4. YOU'RE DONE!!

#### PROTECTION

-----

THIS PROGRAM USED THE SAME TYPE OF PROTECTION FOUND IN IFR (TM)

#### ACCELERATED SOFTWARE

ENHANCED FORTH (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17 17 17	16 09	83 CA	6E 6E	AD AD

4. YOU'RE DONE!!

NOTE: THE FILE CALLED "FORTH" FOR REFERANCE THE PROTECTIONS HEXADECIMAL \$0E74 AND SECOND PART AT \$2887.

PROTECTION

THIS PROTECTION IS CALLED SECURITY KEY OR DONGLE IT NEEDS PLUGGED IN THE DATA PORT NOW YOU CAN USE TAPE WITHOUT DIFFICULTY! (SOME DATASETTES HAVE THROUGH PORTS) YOU HAD TO BUY ONE OF THOSE TO USE TAPE!

\_\_\_\_\_

Q-BOBBER (TM)

-----

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	18	 5E	20	EA
17	18	5F	В1	EA
17	18	60	0 B	EA

4. YOU'RE DONE!!

#### ACCESS INC.

BEACH-HEAD (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
16	08	 СО	 15	00

4. YOU'RE DONE!!

#### PROTECTION

\_\_\_\_\_

THIS PROGRAM CHECKS FOR AN ERROR 21 (\$15 IN HEX). WE CHANGED THIS TO A (\$00) OR NO ERROR.

BEACH-HEAD II (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	11	0B	20	EA
17	11	0C	A5	EA
17	11	0 D	F6	EA
17	11	ΟE	20	A9
17	11	ΟF	4D	AB
17	11	10	F7	10
17	11	14	20	A9
17	11	15	4D	AD
17	11	16	F7	10
17	11	1A	20	A9
17	11	1B	4 D	AF
17	11	1C	F7	EA

4. YOU'RE DONE!!

PROTECTION

\_\_\_\_\_

THE ABOVE CHANGES BYPASS THE PROTECTION AND LOAD THE CORRECT VALUES INTO THE 'A' REGISTER.

#### NEUTRAL ZONE

-----

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
				00
14	19	EA	15	

4. YOU'RE DONE!!

#### PROTECTION

\_\_\_\_\_

THIS PROGRAM CHECKS FOR AN ERROR 21 (\$15 IN HEX). WE CHANGED THIS TO A (\$00) OR NO ERROR.

\_\_\_\_\_ RAID OVER MOSCOW (TM) ------1. MAKE A CLONE OF THE ORIGINAL ACCESS DISK. 2. RUN DIRECTORY REPAIR TO FIX THE ENDLESS DIRECTORY. 3. SCRATCH THE FIRST FILE ON THE CLONE DISK. 4. TYPE IN THE FOLLOWING PROGRAM AND SAVE IT TO THE CLONE DISK. NAME IT "ACCESS BOOT" 10 POKE49922,131:POKE49923,130:POKE49924,133 20 LOAD"ACCESS",8 5. LOAD"MONITOR\$8000",8,1 and SYS32768 6. F 0800 7FFF 00 (ZERO RAM) 7. T A000 BFFF A000 (TRANSFER ROM TO RAM) 8. G FEC2 (RESET COMPUTER) 9. POKE42335,0:POKE40960,148:POKE1,54 10. INSERT ORIGINAL DISK 11. LOAD":\*",8,1 12. AFTER PROGRAM LOADS, 'READY' WILL APPEAR ON THE SCREEN TYPE SYS32768. 13. INSERT CLONE ACCESS DISK. 14. S"ACCESS",08,0801,1C02 15. NOW YOU CAN LOAD WITH ,8 AND TYPING RUN WHEN 'READY' APPEARS. 16. YOU'RE DONE!! SCROLLS OF ABADON \_\_\_\_\_ 1. MAKE A CLONE OF THE ORIGINAL ACCESS DISK. 2. RUN DIRECTORY REPAIR TO FIX THE ENDLESS DIRECTORY. 3. SCRATCH THE FIRST FILE ON THE CLONE DISK. 4. LOAD"MONITOR\$8000",8,1 and SYS32768 5. F 0800 7FFF 00 (ZERO RAM) 6. T A000 BFFF A000 (TRANSFER ROM TO RAM) 7. G FEC2 (RESET COMPUTER) 8. POKE42335,0:POKE40960,148:POKE1,54 9. INSERT ORIGINAL DISK 10. LOAD":\*",8,1 11. AFTER PROGRAM LOADS, 'READY' WILL APPEAR ON THE SCREEN TYPE SYS32768. 12. INSERT CLONE ACCESS DISK. 13. S"ACCESS",08,0801,08EA 14. NOW YOU CAN LOAD WITH ,8 AND TYPING RUN WHEN 'READY' APPEARS. 15. YOU'RE DONE!! PROTECTION

\_\_\_\_\_

ARCHIVER

THE ABOVE CHANGES INSERT A 'BRK' INTO THE BASIC INTERPRETER, CAUSING THE PROGRAM TO RETURN TO READY WHEN LOADED.

SPRITE MASTER (TM)

1. MAKE A CLONE OF THE ORIGINAL ACCESS DISK.

2. YOU'RE DONE!!

PROTECTION

THIS PROGRAM CHECKS FOR DATA AT AN UNALLOCATED BLOCK ON DISK. JUST COPY THE WHOLE DISK!!

\_\_\_\_\_

#### ACTIVISION INC.

BEAMRIDER (TM)

- 1. INSERT EXPANDER BOARD
- 2. LOAD THE ORIGINAL DISK
- 3. ACTIVATE EXROM LINE AND PRESS RESET, AFTER RESETTING, DE-ACTIVATE EXROM
- 4. LOAD"LLMON", 8, 1 AND SYS8192
- 5. M 8000 09 (REPLACE BYTE FROM RESET)
- 6. TYPE 'S"BR.OBJ",08,8000,C000'. THE CODE IS SAVED IN THIS FORMAT SO IT CAN BE BOOTED WITH A BOOT FROM SUPERBOOTER.
- 7. BUILD A BOOT WITH SUPERBOOTER CALLED 'BEAMRIDER', USING 'BR' AS TWO BOOT LETTERS. THE BOOT MUST FLIP-OUT BASIC AND BE A CARTRIDGE BOOT.
- 8. YOU'RE DONE!!

DECATHLON (TM)

- 1. INSERT EXPANDER BOARD
- 2. LOAD THE ORIGINAL DISK
- 3. ACTIVATE EXROM LINE AND PRESS RESET, AFTER RESETTING, DE-ACTIVATE EXROM
- 4. LOAD LLMON AND SYS8192
- 5. M 8000 09 (REPLACE BYTE FROM RESET)
- 6. TYPE 'S"DE.OBJ",08,8000,C400'. THE CODE IS SAVED IN THIS FORMAT SO IT CAN BE BOOTED WITH A BOOT FROM SUPERBOOTER.
- 7. BUILD A BOOT WITH SUPERBOOTER CALLED 'DECATHLON', USING 'DE' AS TWO BOOT LETTERS. THE BOOT MUST FLIP-OUT BASIC AND BE A CARTRIDGE BOOT.
- 8. YOU'RE DONE!!

DIE HARD (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
33	14	BD	DD	A9
33	14	BE	41	00
33	14	BF	В4	EA

4. YOU'RE DONE!!

#### PROTECTION \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

THIS TYPE IS OFF DISK PROTECTION NOW ANY TWO CHARACTERS WILL WORK! FILE NAME 'G2' HOLD THE PROTECTION AT \$B590 LOCATION.

\_\_\_\_\_

#### HERO (TM) \_\_\_\_\_

- 1. INSERT EXPANDER BOARD
- 2. LOAD THE ORIGINAL DISK
- 3. ACTIVATE EXROM LINE AND PRESS RESET, AFTER RESETTING, DE-ACTIVATE EXROM
- 4. LOAD"LLMON", 8,1 AND 'SYS8192'
- 5. M 8000 09 (REPLACE BYTE FROM RESET)
- 6. TYPE 'S"HE.OBJ",08,8000,C000'. THE CODE IS SAVED IN THIS FORMAT SO IT CAN BE BOOTED WITH A BOOT FROM SUPERBOOTER.
- 7. BUILD A BOOT WITH SUPERBOOTER CALLED 'HERO', USING 'HE' AS TWO BOOT LETTERS. THE BOOT MUST FLIP-OUT BASIC AND BE A CARTRIDGE BOOT.
- 8. YOU'RE DONE!!

#### MASTER OF THE LAMP (TM)

MAKE A WORK DISK TO STORE SAVED PARTS AND MAKE A SECOND DISK TO HOLD THE FILES AFTER YOU PUT THE BOOT FILE ON. 1. LOAD"HIMON", 8, 1 AND 'SYS49152' 2. F 0800 BFFF 00 (CLEAR MEMORY) 3. G FCE2 (RESET THE COMPUTER) 4. LOAD THE ORIGINAL DISK 'LOAD"\*",8,1' 5. AFTER 'ACTIVISION' APPEARS THE SECOND TIME, RESET THE COMPUTER. 6. SYS49152 TO RE-ENTER MONITOR 7. M 0001 36 CHANGE \$37 TO \$36 (FLIP-OUT BASIC ROM) 8. SAVE FIRST PART OF CODE 'S"ML.OBJA",08,0A00,C000 (SAVE CODE SO IT CAN BE BOOTED WITH SUPERBOOTER) 9. L"KERNAL MOVE",08 (ON ARCHIVER DISK, THIS PROGRAM TRANSFERS CODE UNDER KERNAL TO \$2000) 10. G 1000 (ACTIVATES 'KERNAL MOVE') 11. S"ML.OBJB",08,2000,4000 (SAVE CODE TRANSFERRED FROM UNDER KERNAL) 12. RESET THE COMPUTER AND LOAD 'CHANGE LOADADDR' (ON ARCHIVER DISK) 13. CHANGE THE LOAD ADDRESS OF 'ML.OBJB' TO 57344 14. BUILD A BOOT WITH SUPERBOOTER THAT BOOTS TWO PROGRAMS (ML.OBJA & ML.OBJB), FLIPS-OUT BASIC, AND HAS SYS 34304 15. YOU'RE DONE!! MINDSHADOW (TM) 1. MAKE A COPY OF THE ORIGINAL.

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- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
18	10	DD	с9	 D0
18	10	DE	32	0A

4. YOU'RE DONE!!

PROTECTION

AFTER THE PROGRAM CHECKS FOR A DISK ERROR. IT THEN DOES A COMPARE WITH 32. THE ABOVE T & S CHANGE INSERTS A 'BNE' COMMAND INTO THE CODE.

\_\_\_\_\_

PARK PATROL (TM)

- 1. MAKE A CLONE OF THE DISK
- 2. LOAD "HIMON", 8, 1 AND SYS49152
- 3. L" 1984 ",08 FROM CLONE (BE SURE YOU HAVE '2' SPACES ON EACH SIDE OF '1984').
- 4. USE THE 'M' COMMAND TO CHANGE THE FOLLOWING:

ADDRESS	OLD DATA	NEW DATA
4049	DO	EA
4051	54	EA
4056	31	EA

5. s"@0: 1984 ",08,4000,4E00 (REPLACE '1984' FILE ON CLONE DISK)

PROTECTION

THE ABOVE CHANGES INSERT NOP'S INTO THE ERROR CHECKING ROUTINE AT LOCATION \$9E4C AND \$9E6F

PITFALL (TM)

- 1. INSERT EXPANDER BOARD
- 2. LOAD THE ORIGINAL DISK
- 3. ACTIVATE EXROM LINE AND PRESS RESET, AFTER RESETTING, DE-ACTIVATE EXROM
- 4. LOAD"LLMON", 8, 1 AND 'SYS8192'
- 5. M 8000 09 (REPLACE BYTE FROM RESET)
- 6. TYPE 'S"PF.OBJ",08,8000,C000'. THE CODE IS SAVED IN THIS FORMAT SO IT CAN BE BOOTED WITH A BOOT FROM SUPERBOOTER.
- 7. BUILD A BOOT WITH SUPERBOOTER CALLED 'PITFALL', USING 'PF' AS TWO BOOT LETTERS. THE BOOT MUST FLIP-OUT BASIC AND BE A CARTRIDGE BOOT.
- 8. YOU'RE DONE!!

PITFALL II (TM)

- 1. INSERT EXPANDER BOARD
- 2. LOAD THE ORIGINAL DISK
- 3. ACTIVATE EXROM LINE AND PRESS RESET, AFTER RESETTING, DE-ACTIVATE EXROM
- 4. LOAD"LLMON", 8,1 AND 'SYS8192'
- 5. M 8000 09 (REPLACE BYTE FROM RESET)
- 6. TYPE 'S"P2.OBJ",08,8000,C000'. THE CODE IS SAVED IN THIS FORMAT SO IT CAN BE BOOTED WITH A BOOT FROM SUPERBOOTER.
- 7. BUILD A BOOT WITH SUPERBOOTER CALLED 'PITFALL II', USING 'P2' AS TWO BOOT LETTERS. THE BOOT MUST FLIP-OUT BASIC AND BE A CARTRIDGE BOOT.
- 8. YOU'RE DONE!!

RIVER RAID (TM)

- 1. INSERT EXPANDER BOARD
- 2. LOAD THE ORIGINAL DISK
- 3. ACTIVATE EXROM LINE AND PRESS RESET, AFTER RESETTING, DE-ACTIVATE EXROM

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- 4. LOAD"LLMON", 8,1 AND 'SYS8192'
- 5. M 8000 09 (REPLACE BYTE FROM RESET)
- 6. TYPE 'S"RR.OBJ",08,8000,C000'. THE CODE IS SAVED IN THIS FORMAT SO IT CAN BE BOOTED WITH A BOOT FROM SUPERBOOTER.
- 7. BUILD A BOOT WITH SUPERBOOTER CALLED 'RIVER RAID', USING 'RR' AS TWO BOOT LETTERS. THE BOOT MUST FLIP-OUT BASIC AND BE A CARTRIDGE BOOT.
- 8. YOU'RE DONE!!

SPACE SHUTTLE (TM)

- 1. INSERT EXPANDER BOARD
- 2. LOAD THE ORIGINAL DISK
- 3. ACTIVATE EXROM LINE AND PRESS RESET, AFTER RESETTING, DE-ACTIVATE EXROM
- 4. LOAD"LLMON", 8,1 AND 'SYS8192'
- 5. M 8000 78 (REPLACE BYTE FROM RESET)
- 6. TYPE 'S"SS.OBJ",08,8000,C000'. THE CODE IS SAVED IN THIS FORMAT SO IT CAN BE BOOTED WITH A BOOT FROM SUPERBOOTER.
- 7. BUILD A BOOT WITH SUPERBOOTER CALLED 'SPACE SHUTTLE', USING 'SS' AS TWO BOOT LETTERS. THE BOOT MUST FLIP-OUT BASIC AND SYS 32768.
  8. YOU'RE DONE!!

TOY BIZZARE (TM)

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- 1. INSERT EXPANDER BOARD
- 2. LOAD THE ORIGINAL DISK
- 3. ACTIVATE EXROM LINE AND PRESS RESET, AFTER RESETTING, DE-ACTIVATE EXROM
- 4. LOAD"LLMON", 8,1 AND 'SYS8192'
- 5. M 8000 09 (REPLACE BYTE FROM RESET)
- 6. TYPE 'S"TB.OBJ",08,8000,C000'. THE CODE IS SAVED IN THIS FORMAT SO IT CAN BE BOOTED WITH A BOOT FROM SUPERBOOTER.
- 7. BUILD A BOOT WITH SUPERBOOTER CALLED 'TOY BIZZARE', USING 'TB' AS TWO BOOT LETTERS. THE BOOT MUST FLIP-OUT BASIC AND BE A CARTRIDGE BOOT.
- 8. YOU'RE DONE!!

TRACER SANCTION (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
18	10	DD	C9	D0
18	10	DE	32	0A

4. YOU'RE DONE!!

PROTECTION

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AFTER THE PROGRAM CHECKS FOR A DISK ERROR. IT THEN DOES A COMPARE WITH 32. THE ABOVE T & S CHANGE INSERTS A 'BNE' COMMAND INTO THE CODE.

ZENJI (TM)

- 1. INSERT EXPANDER BOARD
- 2. LOAD THE ORIGINAL DISK
- 3. ACTIVATE EXROM LINE AND PRESS RESET, AFTER RESETTING, DE-ACTIVATE EXROM
- 4. LOAD"LLMON", 8,1 AND 'SYS8192'
- 5. M 8000 09 (REPLACE BYTE FROM RESET)
- 6. TYPE 'S"ZE.OBJ",08,8000,C000'. THE CODE IS SAVED IN THIS FORMAT SO IT CAN BE BOOTED WITH A BOOT FROM SUPERBOOTER.
- 7. BUILD A BOOT WITH SUPERBOOTER CALLED 'ZENJI', USING 'ZE' AS TWO BOOT LETTERS. THE BOOT MUST FLIP-OUT BASIC AND BE A CARTRIDGE BOOT.
- 8. YOU'RE DONE!!

ADVANCED IDEAS INC.

TIC TAC SHOW (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	20	 6C	9E	8F
19	10	49	9E	8 F

4. YOU'RE DONE!!

PROTECTION

THIS PROGRAM IS A BASIC PROGRAM. IT CHECKED TRACK 33 FOR AN ERROR AND RESET (SYS64738) IF NO ERROR WAS FOUND. A \$9E, A 'SYS', WAS REPLACED WITH AN \$8F WHICH IS A 'REM'. (8F/9E BASIC TOKENS)

#### ADVENTURE INTERNATIONAL

MAXIGOLF (TM)

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1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
11	11	8D	32	30
11	11	94	31	30
25	14	52	32	30
11	11	59	31	30

PROTECTION

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THIS PROGRAM SEARCHED FOR AN ERROR 21 WHEN EITHER PLAYER, OR DESIGNER WAS RUN.

#### AMERICAN EAGLE INC.

MASQUERADE (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD"DIRECTORY REPAIR", 8 AND RUN
- 3. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 4. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	20	$4 \mathrm{E}$	6C	02

5. LOAD"LOMON",8,1

- 6. INSERT COPY DISK AND LOAD"+",8,1
- 7. AFTER COMPUTER LOCKS-UP, PRESS RESET
- 8. SCRATCH THE FOLLOWING FILES
   OPEN15,8,15,"S0:BOOT":CLOSE15
   OPEN15,8,15,"S0:AMERICAN":CLOSE15
   OPEN15,8,15,"S0:EAGLE":CLOSE15
- 9. INSERT ORIGINAL AND POKE49881,0:SYS49881
- 10. AFTER READY, SYS32768 TO RE-ENTER MONITOR
- 12. MAKE THE FOLLOWING CHANGES: M C800 20 00 CD EA EA EA EA EA M C808 EA EA EA A9 00
- 13. INSERT COPY DISK AND S"AE.OBJ",08,C800,D000
- 14. USE SUPERBOOTER TO BUILD A BOOT FOR AE.OBJ, SYS 51200
- 15. YOU'RE DONE!!

#### ARTWORX

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GHOST CHASER (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
13	05	0D	EB	4D
13	05	ΟE	3E	4D
13	05	ΟF	E7	4D
13	05	17	EB	4D
13	05	18	ЗE	4D
13	05	19	E7	4D
13	15	2D	77	4D
13	15	2E	AO	4D
13	15	AO	EB	4D
13	15	A1	8 D	4D
13	15	A2	E5	4D
13	15	AA	EB	4D
13	15	AB	8 D	4D
13	15	AC	E5	4D

4. YOU'ER DONE!!

PROTECTION

THIS PROGRAM CHECKED FOR ERROR TYPES 22 & 23. THE PROTECTION WAS CONTAINED IN FILE 'C'. THE ENTIRE FILE WAS EOR'ED WITH AN \$A7. WE REMOVED THE PROTECTION BY PLACING NOP'S ABOVE THE JUMP'S AND BRANCH'S (\$4D EOR'ED WITH \$A7 = \$EA).

#### BERKELY SOFTWARE

GEOS SOFTWORKS IS A BIT DIFFERENT WE WILL EXPLAIN THIS BRIEFLY AS THIS MANUAL ISN'T HERE TO TEACH YOU ABOUT OPERATING GEOS. NOW WHAT GEOS TOOLS YOU NEED IS CONVERT 2.5 BY BILL COLEMAN AND GEOS WORKING. MAKE YOUR WORK DISK WITH GEOS TO COPY THE FILE IN QUESTION, NEXT YOU NEED TO BOOT CONVERT 2.5 AND GET THE FILE CONVERTED THIS SHOULD BE THE ONLY FILE ON THE WORK DISK! OK! IF YOU USE CONVERT 2.5 MAKE SURE IT SAVES IT AS 'PRG' FILE TYPE NOT 'SEQ' OK! NEXT USE GEOS TO VALIDATE DISK SO THIS IS CORRECT! NOW FOLLOW THE INSTRUCTIONS FOR THE FILE.

A LITTLE FACT IS GEOS HAS APPLICATIONS WHICH USE SERIAL NUMBER DETECTION. THIS IS A SECONDARY WAY FOR GEOS TO DETECT A NON REGISTERED COPY AND THIS IS QUITE FREQUENT. AND WHY WE BECAME INVOLVED! YOU BUY GEOS YOU DECIDE TO UPGRADE NOW YOUR OLD GEOS APPLICATIONS BECOME UNUSABLE. THIS WILL WORK WITH ALL 2.0 GEOS. WE GIVE YOU THE SERIAL CHECKER \$C196 (THIS IS USED ON BOTH C64/C128) DISK BLOCK AND FILENAME SEQUENCES THEN (20 96 C1 (JSR TO SERIAL CHECK) THEN DECODES THE SERIAL THAT WAS EMBEDDED DURING INSTALL). AND AFTER FAIL REBOOTS TO DESKTOP! FONT CHANGER V1 (TM)

- 1. LOAD"HIMON", 8,1 SYS49152
- 2. L"FONT CHANGER.CVT",08,0883 (FORCE LOAD SO IT PUTS THE FILE IN MEMORY AT THE CORRECT LOCATION IF YOU HAVE DONE IT CORRECTLY).3. BELOW IS THE CHANGES TO BE MADE IN HEXADECIMAL!

\_\_\_\_\_

- BYTE LOC. OLD DATA NEW DATA \_\_\_\_\_ 09DE 00 0F 00  $\mathbf{F}\mathbf{F}$ 0A0D 00 00 00 OAOF 70 0A10 2F 0A11 00 8D 0A12 00 FD 1406 A5 A9 03 1407 FD A5 140D Α9 02 140E8D Α5 1448 Α9 1449 07 2F 144F A5 A9 1450 06 70 1495 A5 A9 07 1496 2F A5 149A Α9 149B 06 70 A5 14A2 Α9 03 14A3 FD A5 A9 14A7 14A8 02 8D
- 4. S"@0:FONT CHANGER.CVT",08,0883,24F0

5. YOU'RE DONE!!

FONT EDITOR 2.5 (TM) (ONLY WORKS ON UNINSTALLED VERSION)

1. LOAD"HIMON",8,1 SYS49152

- 2. L"FONT EDITOR.CVT",08,0883 (FORCE LOAD SO IT PUTS THE FILE IN MEMORY AT THE CORRECT LOCATION IF YOU HAVE DONE IT CORRECTLY).
- 3. BELOW IS THE CHANGES TO BE MADE IN HEXADECIMAL!

BYTE LOC	. OLD DATA	NEW DATA
2C19	A5	EA
2C1A	02	EA
2C1B	49	A9
2C22	A5	EA
2C23	03	EA
2C24	49	A9

4. S"@0:FONT EDITOR.CVT",08,0883,8DBB

5. YOU'RE DONE!!

GEOCANVAS V1 128 (TM) BY NATHAN FIEDLER

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- 1. LOAD"HIMON", 8, 1 SYS49152
- 2. L"GEOCANVAS.CVT",08,0E83 (FORCE LOAD SO IT PUTS THE FILE IN MEMORY AT THE CORRECT LOCATION IF YOU HAVE DONE IT CORRECTLY).

\_\_\_\_\_

3. BELOW IS THE CHANGES TO BE MADE IN HEXADECIMAL!

BYTE	LOC.	OLD	DATA	NEW	DATA		
 414E		20		60	(BYPASS	SERIAL	DETECT)
4202		20		2C	(BYPASS	ID CHEC	CK)

- 4. S"@0:GEOCANVAS.CVT",08,0E83,708D
- 5. YOU'RE DONE!!

GEOFILE 128 (TM)

- 1. USE ACTION REPLAY (MONITOR FOR THIS USES ALL THE RAM)
- 2. L"GEOFILE.CVT",08,0800 (FORCE LOAD SO IT PUTS THE FILE IN MEMORY AT THE CORRECT LOCATION IF YOU HAVE DONE IT CORRECTLY).
- 3. BELOW IS THE CHANGES TO BE MADE IN HEXADECIMAL!

E	BYTE LOC.	OLD DATA	NEW DATA
- M	4848	 FE	BE
	487B	BE	고고

- 4. S"@0:GEOFILE.CVT",08,0800,C335 5. YOU'RE DONE!!
- GEOSPELL V1.1 (TM) BY STEVE SCHOLL
  - 1. LOAD"HIMON",8,1 SYS49152
  - 2. L"GEOSPELL.CVT",08,1183 (FORCE LOAD SO IT PUTS THE FILE IN MEMORY AT THE CORRECT LOCATION IF YOU HAVE DONE IT CORRECTLY).
  - 3. BELOW IS THE CHANGES TO BE MADE IN HEXADECIMAL!

E	BYTE LOC.	OLD DATA	NEW DATA
M	4C0E	C4	09
	4036	09	C4

4. S"@0:GEOSPELL.CVT",08,1183,8152

5. YOU'RE DONE!!

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GEO WIZARD V1 (TM)

- 1. LOAD"HIMON", 8,1 SYS49152
- 2. L"GEOWIZARD.CVT",08,0883 (FORCE LOAD SO IT PUTS THE FILE IN MEMORY AT THE CORRECT LOCATION IF YOU HAVE DONE IT CORRECTLY).3. BELOW IS THE CHANGES TO BE MADE IN HEXADECIMAL!
- BYTE LOC. OLD DATA NEW DATA 
   M
   09DE
   0E
   0F

   0A0D
   00
   FF

   0A0F
   00
   61

   0A10
   00
   D5

   0A11
   00
   B5
   0A12 00 58 12D4 A5 Α9 12D5 03 58 A5 12DB Α9 02 В5 12DC A5 1303 Α9 1304 07 D5 130A A5 Α9 130B 06 61 133D A5 Α9 07 133E D5 1342 A5 Α9 1343 06 61 A5 134A Α9 134B 03 58 A5 134F Α9
- 4. S"@0:GEOWIZARD.CVT",08,0883,412A

02

5. YOU'RE DONE!!

1350

GEOWRITE 128 V2.1 (TM) BY TONY REQUIST

1. LOAD"HIMON", 8, 1 SYS49152

2. L"GEOWIZARD.CVT",08,1183 (FORCE LOAD SO IT PUTS THE FILE IN

В5

- MEMORY AT THE CORRECT LOCATION IF YOU HAVE DONE IT CORRECTLY).
- 3. BELOW IS THE CHANGES TO BE MADE IN HEXADECIMAL!

BYTE LOC.	OLD DATA	NEW DATA
M 4513	73	BE
453D	BE	73

4. S"@0:GEOWIZARD.CVT",08,1183,9E22

5. YOU'RE DONE!!

DISK

GRAPHICS GRABBER V2.2 (TM)

- 1. LOAD"HIMON", 8,1 SYS49152
- 2. L"GRAPHGRAB.CVT",08,0983 (FORCE LOAD SO IT PUTS THE FILE IN MEMORY AT THE CORRECT LOCATION IF YOU HAVE DONE IT CORRECTLY).

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3. BELOW IS THE CHANGES TO BE MADE IN HEXADECIMAL!

M 4494 AD 60 4573 60 AD	E	BYTE LOC.	OLD DATA	NEW DATA
	M	4494 4573	AD 60	60 AD

- 4. S"@0:GRAPHGRAB.CVT",08,0983,45AA
- 5. YOU'RE DONE!!

BLUE CHIP SOFTWARE

BARON (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
24	08	F1	В2	B1

4. YOU'ER DONE!!

MILLIONARE (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
08	02	F9	в2	B1

4. YOU'ER DONE!!

TYCOON (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	02	F5	в2	B1

4. YOU'ER DONE!!

#### BRITANNICA SOFTWARE

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SPELLING AND READING PRIMER (TM) EDUWARE SERIES

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	18	9D	9E	8 F

4. YOU'ER DONE!!

#### BRODERBUND

CASTLE OF DR. CREEP (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
16	09	 Сб	20	ــــــم م
16	09	C7	CF	32
16	09	C8	FF	EA
16	09	CE	20	A9
16	09	CF	CF	37
16	09	DO	ΕF	EA
16	09	BF	48	A9
16	09	C 0	98	00
16	09	C1	48	60
16	16	59	AO	00

4. YOU'ER DONE!!

#### PROTECTION

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THE PROGRAM CHECKS FOR THE DISK'S NAME AND ERROR'S. THE DISK CODE IS MODIFIED BY LOADING VALUES INTO THE 'A' REGISTER.

CHAMPIONSHIP LODE RUNNER (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	08	 14	20	EA
17	08	15	56	EA
17	08	16	93	EA
15	09	12	ΕE	EA
15	09	13	46	EA
15	09	14	90	EA

4. YOU'ER DONE!!

PROTECTION

FILENAME: IT (1ST BLOCK AND 46TH BLOCK) THE ABOVE CHANGES, NOP'S THE DISK ERROR CHECKING AND CHECKSUM ROUTINES.

DROL (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
08	14	 5C	31	30
08	14	5E	38	34
19	08	51	00	32
19	08	52	00	30
19	08	53	00	32
19	08	54	00	30
19	08	55	00	33
19	08	56	00	30
19	08	57	00	37
19	08	58	00	30

4. YOU'ER DONE!!

PROTECTION

THE ABOVE CHANGES, BYPASS THE ERROR CHECKING ROUTINE AND STORES THE EXPECTED VALUES.

GUMBALL (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
13	01	в5	00	03

4. YOU'ER DONE!!

PROTECTION

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THIS PROGRAM WE BYPASSED THE ERROR CHECKING ROUTINE BY CHANGING START ADDRESS FROM \$2000 TO \$2003.

KARATEKA (TM)

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1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	02	62	F0	EA
17	02	63	10	EA
14	18	DF	55	49
14	18	ΕO	4A	30
17	06	ΕF	20	EA
17	06	FO	8A	EA
17	06	F1	FF	EA
14	00	3C	20	EA
14	00	ЗD	BA	EA
14	00	ЗE	FF	EA
14	10	С7	20	EA
14	10	C8	BA	EA
14	10	С9	FF	EA

4. YOU'ER DONE!!

PROTECTION

\_\_\_\_\_

THE 1541 COMPATIBLE VERSION OF THIS PROGRAM IS UNPROTECTED. THE 1ST TWO BYTE CHANGES ABOVE, TELL THE PROGRAM IT'S A 1541 COMPATIBLE DRIVE, THE NEXT TWO BYTE CHANGES A 'UJ' COMMAND TO 'IO', AND THE REMAINING CHANGES, ENABLES FASTLOAD (TM). LODERUNNER (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
 15	18	F9	C9	D0
15 17	18 07	FA 0C	C8 20	05 EA
17 17	07 07	0D 0E	11 8E	EA EA
4. YOU'ER	DONE!!			

MASK OF THE SUN (TM)

- 1. MAKE A CLONE OF THE ORIGINAL.
- 2. LOAD"HIMON", 8, 1 SYS49152
- 3. USE THE 'M' COMMAND TO ENTER THE FOLLOWING CODE: L"ULTRACODER",08 ADDRESS REPLACE WITH

					-			
0876	20	00	20					
2000	Α9	00	8 D	4B	08	8 D	55	08
2008	Α9	6B	8 D	36	8 0	Α9	1В	8 D
2010	54	8 0	Α9	17	8D	50	8 0	Α9
2018	91	8D	78	08	60			

4. S"@0:ULTRACODER",08,0800,201D (RESAVE TO CLONE DISK) 5. YOU'RE DONE!!

MIDNIGHT MAGIC (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
12	01	ΒE	С9	DO
12	01	BF	91	11

4. YOU'RE DONE!!

PROTECTION

THE ABOVE T & S CHANGES BYPASS CHECKSUM CODE WITH 'BNE'

DISK

PRINTSHOP (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

SIDE 1 TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
16	07	CE	00	22
SIDE 2 TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
16	07	C2	00	22

4. YOU'RE DONE!!

PROTECTION

BEFORE RUNNING THE ERROR CHECKING ROUTINE, THE PROGRAM CHECK THE ABOVE

LOCATIONS FOR CHECKSUMS AND IF CORRECT BYPASS PROTECTION.

PRINTSHOP GRAPHICS LIBRARY (TM)

1. COPY TRACKS 2-35
2. YOU'RE DONE!!

NOTE: TRACK 1 OF THE PROGRAM IS AN ENDLESS LOOP. IF YOU TRY TO COPY IT, MOST COPY PROGRAMS WILL GET "STUCK".

RAID OVER BUNGLING BAY (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
12	07	 1E	D0	EA
12	07	1F	FO	EA
12	07	25	D0	EA
12	07	26	E9	EA

4. YOU'RE DONE!!

#### PROTECTION

-----

THE 'BNE' COMMANDS ARE "NOP'ED" AFTER COMPARING FOR ERRORS ABOVE

SPARE CHANGE (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
24	05	1E	DO	EA
24	05	1F	03	EA
24	12	69	D0	EA
24	12	6A	03	EA
24	17	7D	DO	EA
24	17	7E	03	EA

4. YOU'RE DONE!!

STEALTH (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	02	9D	20	4C
17	02	9E	$4 \mathrm{E}$	CF
17	02	9F	CA	C9
19	00	4C	AD	4C
19	00	4D	0A	67
19	00	4E	CA	60

4. YOU'RE DONE!!

WHIRLWIND (TM)

\_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
19	02	53	8 D	EA
19	02	54	56	EA
19	02	55	14	EA
19	02	5D	8 D	EA
19	02	5E	55	EA
19	02	5F	14	EA
19	02	61	FF	45
19	02	62	FF	5A

4. YOU'RE DONE!!

WHISTLER'S BROTHER (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
26	01	BF	20	EA
26	01	CO	10	EA
26	01	C1	5E	EA
29	12	7E	AD	4C
29	12	7 F	79	22
29	12	80	5E	79

4. YOU'RE DONE!!

CBS INC.

ADVENTURE MASTER (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
07	04	с4	D0	EA
07	04	C5	29	EA
07	04	СВ	DO	EA
07	04	CC	22	EA
07	04	DB	DO	EA
07	04	DC	12	EA
32	07	C4	DO	EA
32	07	С5	29	EA
32	07	CB	D0	EA
32	07	CC	22	EA
32	07	DB	D0	EA
32	07	DC	12	EA

4. YOU'RE DONE!!

PROTECTION

\_\_\_\_\_

THE ABOVE T & S CHANGES 'NOP' THE 'BNE' COMMAND AFTER THE ERROR CHECKING COMPARES.

DREAM HOUSE (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
21	 15	 39	D0	EA
21	15	ЗA	30	EA
21	15	49	DO	EA
21	15	4A	20	EA
21	15	59	D0	EA
21	15	5A	10	EA

4. YOU'RE DONE!!

FORECAST (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
31	02	A3	32	20
31	02	A4	33	30

4. YOU'RE DONE!!

WEATHER TAMERS (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
22	08	0 D	DO	EA
22	08	ΟE	27	EA
22	08	14	DO	EA
22	08	15	20	EA
22	08	24	DO	EA
22	08	25	10	EA

4. YOU'RE DONE!!
### CODEWRITER

\_\_\_\_\_

ELF SYSTEM (TM)

- 1. MAKE A CLONE OF THE ORIGINAL.
- 2. LOAD"HIMON", 8, 1 SYS49152
- 3. USE THE 'M' COMMAND TO ENTER THE FOLLOWING CODE: L"ELF",08

OLD	NEW
2E	2В
2E	2B
2E	2B
2B	2E
	OLD 2E 2E 2E 2E 2B

4. S"@0:ELF",08,0801,1A85 (RESAVE TO CLONE DISK) 5. YOU'RE DONE!!

### COLECO

WARGAMES (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	02	44	30	A9
17	02	45	FB	01

4. YOU'RE DONE!!

PROTECTION

\_\_\_\_\_

THE PROTECTION ROUTINE CHECKS TRACK 37 FOR A SYNC (FORMATTED). THE ABOVE CHANGES 'BMI' COMMAND TO LDA #\$01. (SYNC FOUND)

### COMM\*DATA COMMODORE COMPUTER HOUSE

\_\_\_\_\_

ENGLISH INVADERS (TM)

- 1. MAKE A CLONE OF THE ORIGINAL.
- 2. LOAD"HIMON", 8, 1 SYS49152
- 3. USE THE 'M' COMMAND TO ENTER THE FOLLOWING CODE: L"BOOT",08

# ADDRESS REPLACE WITH

0833	4A	03	(OI	D)
0833	00	0 F	(NE	W)
0839	20	C1	0 F	(OLD)
0839	ΕA	ΕA	ΕA	(NEW)
0860	4D	03	(OI	D)
0860	10	0 F	(NE	W)

- 4. S"@0:BOOT",08,0801,11f0 (RESAVE TO CLONE DISK)
- 5. YOU'RE DONE!!

COMMODORE BUSINESS MACHINES INC.

B-GRAF (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
05	07	24	0E	 F4
05	07	25	CD	F4
05	07	2B	ΟE	F4
05	07	2C	D4	F4

4. YOU'RE DONE!!

EASY SCRIPT (TM)

1. THIS PROGRAM REQUIRES AN EXPANDER BOARD

- 2. LOAD"HIMON", 8, 1
- 3. INSERT ORIGINAL AND LOAD":\*",8,1
- 4. AFTER ORIGINAL LOADS, ACTIVATE THE 'EXROM' SWITCH AND PRESS THE RESET BUTTON.

\_\_\_\_\_

- 5. INSERT A FORMATTED DISK.
- 6. SYS49152 (RE-ENTER MONITOR)
- 7. USE THE 'M' COMMAND TO MAKE THE FOLLOWING CHANGES.

ADDRESS	REI	PLAC	CEN	WITH	Ŧ			
					-			
0001	36							
8000	4B							
82EA	ΕA	ΕA						
ABC9	02							
AC5A	02							
B045	Α9	23	8 D	03	02	Α9	4A	85
B04D	29	85	ЗE	60				

8. S"ES.OBJ",08,8000,C000

9. USE SUPERBOOTER TO BUILD A CARTRIDGE BOOT THAT FLIPS OUT BASIC. 10. YOU'RE DONE!!

EASY SPELL (TM)

THIS PROGRAM REQUIRES AN SWITCHABLE EXPANDER BOARD
 LOAD"EASY SPELL",8,1 (FROM EASY SCRIPT AS NORMAL).
 ACTIVATE THE 'EXROM' SWITCH, PRESS RESET, AND DEACTIVATE 'EXROM'.
 LOAD"HIMON",8,1 AND SYS49152
 S"ES.OBJ",08,08E4,3115
 BUILD A BOOT USING SUPERBOOTER WITH A SYS2276
 YOU'RE DONE!!

NOTE: EASY SPELL (TM) MUST NOW BE LOADED INDEPENDANT OF EASY SCRIPT.

HULK (TM)

MAKE A COPY OF THE ORIGINAL.
 LOAD & EXECUTE TRACK & SECTOR EDITOR.
 MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
32	03	24	 0E	 F4
32	03	25	C0	F4
32	03	2B	ΟE	F4
32	03	2C	D4	F4

4. YOU'RE DONE!!

PROTECTION

FILE CONTAIN PROTECTION: STARTING ADDRESS OF FILE \$C000

DESCRIPTION OF PROTECTION: THIS SUBROUTINE IS LOADED, EOR #\$FF,\$BC #\$21 AT LOCATION \$C000 FROM FILE 'SAGA'. THE PROTECTION ROUTINE CAN BE SEEN IF YOU HIT THE RESET WHILE THE PROGRAM IS READING THE ERROR. (ABOUT 5 SECONDS AFTER LOAD).

\_\_\_\_\_

- 1. AFTER HITTING RESET AT PROPER TIME (WHILE READING ERROR).
- 2. LOAD"LOMON", 8,1 AND SYS32768
- 3. D C000 C032
- 4. THE F4'S ABOVE ARE AN ENCODED 'NOP' (EA EOR'D WITH FF AND SUB 21) AND ARE PLACED AT C022, C023, C029, C02A.

JUST IMAGINE (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
29	08	24	ΟE	F4
29	08	25	C0	F4
29	08	31	ΟE	F4
29	08	32	D4	F4

4. YOU'RE DONE!!

PROTECTION

\_\_\_\_\_

FILE CONTAIN PROTECTION: STARTING ADDRESS OF FILE \$C000

DESCRIPTION OF PROTECTION: THIS SUBROUTINE IS LOADED, EOR #\$FF,\$BC #\$21 AT LOCATION \$C000 FROM FILE 'IMG'. THE PROTECTION ROUTINE CAN BE SEEN IF YOU HIT THE RESET WHILE THE PROGRAM IS READING THE ERROR. (ABOUT 5 SECONDS AFTER LOAD).

- 1. AFTER HITTING RESET AT PROPER TIME (WHILE READING ERROR).
- 2. LOAD"LOMON", 8, 1 AND SYS32768
- 3. D C000 C032
- 4. THE F4'S ABOVE ARE AN ENCODED 'NOP' (EA EOR'D WITH FF AND SUB 21) AND ARE PLACED AT C022, C023, C029, C02A.

KINDER KONCEPTS (TM)

SINCE THERE IS MANY EXPANSIONS WE DECIDED TO SHORTEN IT DOWN AND EXPLAIN THIS BRIEFLY :

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

- 4. NEXT LOAD IN THE DIRECTORY THIE IS 2 BYTES THAT ALLOW YOU TO FOLLOW THE FILE CHAIN AND 1 BYTE FOR FILE TYPE 'SEQ' IS 83 WHERE 'PRG' IS 82 NOW EACH 'SEQ' CONTAINS THE PROTECTION YOU FOLLOW THE FILE FOR 2 BLOCK ON THE SECOND JUMP BYTE \$45 SHOULD CONTAIN \$BB NOW PUT \$DE BYTE AT \$45 WHEN DONE GO BACK AND DO THIS WITH ALL THE 'SEQ' MAKE SURE THAT BYTE \$46 HAS \$DE TOO IF NOT THEN SOMETHING IS WRONG.
- 5. YOU'RE DONE!!

LOGO (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	11	95	00	FA
17	11	AD	E7	F2

4. YOU'RE DONE!!

# PROTECTION

FILE CONTAIN PROTECTION: LOGO.BIN STARTING ADDRESS OF FILE: \$0801

DESCRIPTION OF PROTECTION:

THIS SUBROUTINE IS LOADED FROM FILE: LOGO. THE PROTECTION CAN BE SEEN BY DISASSEMBLING \$097F-09AB. THE BREAK AT \$0900 WAS CHANGED TO A NOP AND THE BRANCH ADDRESS AT \$09A7 WAS CHANGED TO BREAK THE LOOP.

MANAGER (TM)

- 1. MAKE A CLONE COPY FROM ORIGINAL.
- 2. LOAD"UNWRITE PROTECT", 8 AN RUN (FILE ON ARCHIVER DISK THEN RUN IT ON CLONE COPY).
- 3. LOAD & EXECUTE TRACK SECTOR EDITOR.
- 4. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	00	93 93	00	 1A

MICRO COOKBOOK (TM)

1. MAKE A CLONE COPY FROM ORIGINAL.

- 2. LOAD & EXECUTE TRACK SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA	
 17	01	 F8	00	 F4	
17	01	F9	00	F4	

4. DONE!

PROTECTION

\_\_\_\_\_

FILE CONTAINING PROTECTION: COOKBOOK STARTING ADDRESS OF FILE. \$C000

DESCRIPTION OF PROTECTION:

THIS 'SEQ' FILE IS LOADED. EOR #\$FF,SBC #\$21 AT LOCATION \$COOO FROM FILE: COOKBOOK. THE PROTECTION ROUTINE CAN BE SEEN IF YOU HIT THE RESET WHILE THE PROGRAM IS READING THE ERROR. (ABOUT 5 SECONDS AFTER LOAD)

- 1. AFTER HITING RESET AT PROPER TIME (WHILE READING ERROR)
- 2. LOAD"LOMON", 8,1 AND SYS32768
- 3. D COCE COF8
- 4. THE F4'S ABOVE ARE AN ENCODED NOP (EA EOR'D WITH FF AND SUB 21) AND ARE PLACED AT COF6, COF7.

SKYTRAVEL (TM)

- 1. MAKE A CLONE COPY FROM ORIGINAL.
- 2. LOAD & EXECUTE TRACK SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
35	05	24	 0E	 F4
35	05	25	CD	F4
35	05	31	ΟE	F4
35	05	32	D4	F4

TYPING PROFESSOR (TM)

1. MAKE A CLONE COPY FROM ORIGINAL.

2. LOAD & EXECUTE TRACK SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	01	24	OE	 F4
17	01	25	CD	F4
17	01	31	OE	F4
17	01	32	D4	F4

4. DONE!

PROTECTION

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FILE CONTAINING PROTECTION: TT STARTING ADDRESS OF FILE: \$C000

DESCRIPTION OF PROTECTION:

THIS SUBROUTINE IS LOADED. EOR #\$FF, SBC #\$21 AT LOCATION \$C000 FROM FILE: TT. THE PROTECTION ROUTINE CAN BE SEEN' IF YOU HIT THE RESET WHILE THE PROGRAM IS READING THE ERROR. (ABOUT 5 SECONDS AFTER LOAD).

- 1. AFTER HITING RESET AT PROPER TIME (WHILE READING ERROR).
- 2. LOAD"LOMON", 8.1 AND SYS32768
- 3. D C000 C032
- 4. THE F4'S ABOVE ARE AN ENCODED NOP (EA EOR'D WITH FF AND SUB 21) AND ARE PLACED AT C022, C023, C029, C02A.

COMPUTER WORKSHOP INC.

NEWVIEW V2005 (TM)

1. MAKE A CLONE COPY FROM ORIGINAL.

- 2. LOAD & EXECUTE TRACK SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
18	00	 FA	00	AB

### CYBERIA INC.

\_\_\_\_\_

RIVERCHASE (TM)

-----

- 1. LOAD"HIMON", 8,1 AND SYS49152
- 2. L"TGI",08
- 3. MAKE THE FOLLOWING CHANGES WITH THE 'M' COMMAND:

# ADDRESS REPLACE WITH

4CDA	D1	DD	4C
4CEC	D1	ΕF	4C
4D19	D1	22	4D
4D70	D1	73	4D
4DC1	D1	C4	40
4E1A	D1	1D	$4\mathrm{E}$

4. S"@0:TGI",08,0801,4E1F
5. YOU'RE DONE (LOAD & RUN LIKE ANY BASIC PROGRAM)

PROTECTION

\_\_\_\_\_

THIS PROGRAM WAS COMPILED WITH PETSFEED (TM). SIX (6) GOTO (D1) WHERE USED TO BYPASS THE PROTECTION.

DATAMOST INC.

COHAN'S TOWER (TM)

LOAD ORIGINAL PROGRAM
 RESET THE COMPUTER WITH A RESET BUTTON
 LOAD"HIMON",8,1 AND SYS49152
 S"CT.OBJ",08,0800,7FFF (SUPERBOOTER FORMAT)
 USE SUPERBOOTER TO LOAD "CT.OBJ" AND SYS2316
 YOU'RE DONE!!

MR. ROBOT (TM)

THIS PROGRAM REQUIRES AN EXPANDER BOARD
 LOAD ORIGINAL PROGRAM
 ACTIVATE EXROM, PRESS RESET, DE-ACTIVATE EXROM
 LOAD"HIMON",8,1 AND 'SYS49152'
 M 0001 CHANGE 37 TO 36 (FLIP-OUT BASIC)
 S"MR.OBJ",08,1000,C000 (SAVE PROGRAM IN SUPERBOOTER FORMAT)
 USE SUPERBOOTER TO BUILD A BOOT TO FLIP-OUT BASIC AND SYS32796
 YOU'RE DONE!!

DISK

### DATASOFT

\_\_\_\_\_

POOYAN (TM) \_\_\_\_\_ 1. FORMAT A DISK : (DESTINATION DISK) 2. LOAD"HIMON", 8, 1 AND 'SYS49152' 3. F 0800 BFFF 00 (CLEAR MEMORY) 4. L"123",08 (LOAD '123' FROM ORIGINAL DISK) 5. USE THE " M' COMMAND TO MAKE THE -FOLLOWING CHANGES: ADDRESS REPLACE WITH \_\_\_\_\_ 4962 D0 05 6. S"PY.OBJ",08.30FC,7FFF (SAVE PROGRAM TO FORMATTED DISK IN SUPERBOOTER FORMAT) 7. USE SUPERBOOTER TO BUILD A BOOT TO SYS 16976 8. YOU'RE DONE!! DELL PUBLISHING INC. DELL CROSSWORDS (TM) \_\_\_\_\_ 1. MAKE A CLONE COPY FROM ORIGINAL. 2. LOAD & EXECUTE TRACK SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 1505BD171505061B 00 15 00 4. DONE! NEWYORK TIME CROSSWORD VOL. 1 (TM) \_\_\_\_\_ 1. MAKE A CLONE COPY FROM ORIGINAL. 2. LOAD & EXECUTE TRACK SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 11852E11CC2E 80 2В 08 2в 4. DONE!

### DESIGNWARE INC.

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CREATURE CREATURE (TM)

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1. MAKE A CLONE COPY FROM ORIGINAL.

2. LOAD & EXECUTE TRACK SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
18	03	19	80	08

4. DONE!

CRYPTOCUBE (TM)

-----

1. MAKE A CLONE COPY FROM ORIGINAL.

2. LOAD & EXECUTE TRACK SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
10		10		
10	0.5	19	80	08

4. DONE!

EUORPEAN NATIONS & LOCATIONS (TM)

1. MAKE A CLONE COPY FROM ORIGINAL.

2. LOAD & EXECUTE TRACK SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
18	03	19	68	08

4. DONE!

GRAMMER EXAMINER (TM)

ARCHIVER DIS.

MISSION ALGEBRA (TM) \_\_\_\_\_

1. MAKE A CLONE COPY FROM ORIGINAL.

- 2. LOAD & EXECUTE TRACK SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
18	03	19	70	08

4. DONE!

SPELLICOPTER (TM) \_\_\_\_\_

- 1. MAKE A CLONE COPY FROM ORIGINAL.
- 2. LOAD & EXECUTE TRACK SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
18	03	19	7D	08

4. DONE!

SPELLICOPTER (TM) \_\_\_\_\_

NOTE: THIS IS ALTERNATE WAY!

- 1. FORMAT A BLANK DISK
- 2. LOAD AND RUN THE ORIGINAL PROGRAM
- 3. WHEN THE MENU SCREEN APPEARS. RESET THE COMPUTER
- 4. LOAD"HIMON", 8,1 AND SYS49152
- 5. M 0001 CHANGE 37 TO 36 (FLIP-OUT BASIC)
- 6. S"SC.OBJA",08,0800,BFFF (SAVE FIRST SECTION)
- 7. RESET THE COMPUTER AND RE-LOAD THE ORIGINAL DISK
- 8. WHEN THE MENU SCREEN APPEARS, RESET THE COMPUTER
- 9. LOAD"LOMON", 8,1 AND SYS32768
- 10. S"SC.OBJB",08,C000,CFFF (SAVE SECOND SECTION)
- 11. USE SUPERBOOTER TO BUILD A BOOT FOR TWO PROGRAMS, SC.OBJA & SC.OBJB, AND SYS 2267
- 12. YOU'RE DONE!!

\_\_\_\_\_

STATES AND TRAITS (TM) ------1. MAKE A COPY OF THE ORIGINAL 2. RUN DIRECTORY REPAIR (ON ARCHIVER DISK) 3. LOAD"LOMON", 8,1 AND SYS32768 4. F C000 CFFF 00 5. ASSEMBLE THE FOLLOWING CODE AT \$1000 1000 A0 OE LDY #\$0E 1002 B9 01 C0 LDA \$C001,Y 1005 59 00 C0 EOR \$C000,Y 1008 99 01 CO STA \$C001,Y INY 100B C8 

 1006 C0
 B7
 CPY #\$B7

 100E D0 F2
 BNE \$1002

 1010 A9 00
 LDA #\$00

 1012 8D 87 CO STA \$C087 1015 4C 10 CO JMP \$C010 G FCE2 (RESET COMPUTER) 6. FORMAT A WORK DISK IF YOU HAVEN'T ALREADY 7. INSERT ORIGINAL DISK AND SYS 4096 8. AFTER COMPUTER SAYS 'READY'. SYS32768 9. INSERT FORMATTED WORK DISK 10. S"BOOT2",08,C000,C150 11. LOAD"RELOCATE BLOCKS", 8 AND RUN (ON ARCHIVER DISK) 12. RELOCATE BLOCKS 17,00 & 17,10 OF WORK DISK TO BLOCKS 18,04 & 18,05 OF CLONE DISK. 13. YOU'RE DONE!! STATES AND TRAITS (TM) V2 \_\_\_\_\_ 1. MAKE A CLONE COPY FROM ORIGINAL. 2. LOAD & EXECUTE TRACK SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: NEW DATA TRACK SECTOR BYTE OLD DATA -----03 19 66 18 08 4. DONE! TRAP-A-ZOID (TM) \_\_\_\_\_ 1. MAKE A CLONE COPY FROM ORIGINAL. 2. LOAD & EXECUTE TRACK SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA ------03 19 6B 18 08

### ELECTRONIC ARTS INC.

PROTECTION

\_\_\_\_\_

THESE PROGRAMS USE A COMBINATION OF ML AND COMPILED CODE IN THE 2ND EA FILE TO HIDE THEIR PROTECTION. THE FOLLOWING CHANGES MODIFY THE COMPILED CODE BY REMOVING CHECKS FOR THE LOADER (1ST EA FILE) AND WRITES TO RAM. THE CHECKSUMS ARE THEN CALCULATED, STORED IN THE PROGRAM AND THE PROTECTION ROUTINE IS COMPLETELY BYPASSED.

\_\_\_\_\_

ELECTRONIC ARTS (ECA) ARE DIVIDED INTO 'NEW' AND 'OLD' DEPENDING ON THE TYPE OF PROTECTION USED. 'OLD' ECA HAVE TRACK AND SECTOR CHANGES, AND 'NEW' ECA ARE "REPAIRED" USING THE 'M' COMMAND OF THE ML MONITOR.

### OLD ELECTRONIC ARTS

AXIS ASSASSIN (TM)	D-BUG (TM)
FINACIAL COOKBOOK (TM)	HARD HAT MACK (TM)
LAST GLADIATOR (TM)	M.U.L.E (TM)
MURDER ON THE ZINDERNEUF (TM)	MUSIC CONSTRUCTION SET (TM)
ONE ON ONE (TM)	PINBALL CONSTRUCTION (TM)
REALM OF IMPOSSIBILITY (TM)	WORMS (TM)

- 1. MAKE A CLONE COPY FROM ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES FROM TRACK & SECTOR EDITOR ON CLONE COPY:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	11	96	 1B	 4E
17	11	97	1B	1A

4. DONE!

### NEW ELECTRONIC ARTS

USE THE FOLLOWING PROCEDURE TO MAKE THE SPECIFIED CHANGES TO THE 'NEW' ECA DISKS.

- 1. MAKE A COPY OF THE ORIGINAL (INGNORE ERROR ON TRACK 35)
- 2. LOAD"LOMON",8,1
- 3. INSERT COPY AND LOAD"EA"+CHR\$(34)+CHR\$(157),8,1
- 4. OPEN15,8,15,"S0:EA"+CHR\$(34)+CHR\$(157):CLOSE15
- 5. OPEN15,8,15,"V0":CLOSE15
- 6. SYS32768 (ENTER ML MONITOR)
- 7. MODIFY THE SPECIFIED ADDRESSES USING THE 'M' COMMAND. THE ADDRESSES WHICH MUST BE CHANGED ARE LISTED BY PROGRAM
- 8. S"EAAA",08,C000,CA1F (SAVE THE ALTERED CODE TO THE COPY)
- 9. OPEN'15,8,15, "R0:EA"+CHR\$(34)+CHR\$(157)+"=0:EAAA":CLOSE15 (RENAME ALTERED FILE)

10. RUN ALLOCATE ALL (ON ARCHIVER DISK)

11. YOU'RE DONE!!

ADVENTURE CONSTRUCTION SET (TM) ADDRESS REPLACE WITH CO18 EA EA EA EA EA EA EA EA CO20 EA EA EA EA EA EA EA EA CO28 EA EA EA EA EA EA CO42 05 CO4A 05 CO53 05

 C0AA
 60

 C242
 A9
 ED

 C4A1
 05
 2D
 E3

 C4B8
 05
 2C
 E3
 07
 ED
 EF

 C4D3
 CE
 C4E0
 F1
 C6C0
 14
 CA00
 73
 14

ARCHON II (TM)

ADDRESS	REI	PLAC	CE V	VITH	ł			
C018	 ЕА	EA	 F.A	EA	- FA	ΕA	ΕA	ΕA
C020	EA	EA	EA	EA	EA	EA	EA	EA
C028	ΕA	ΕA						
C03B	05							
C043	05							
C04C	05							
C088	60							
C21A	FO	D2						
C444	05	D8	DC					
C45B	05	D9	DC	07	ΒB	DO		
C476	СΕ							
CA00	39	4C						

DELTA PATROL (TM) (EA TYPE 3 ERROR ON TRACK 2) ------PIRATE SLAYER CODE BREAKER!

MAKE A CLONE COPY FROM ORIGINAL.
 LOAD & EXECUTE TRACK SECTOR EDITOR.
 MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
01	14	 1E	CD	28
01	14	1F	64	6D
01	14	20	43	CO
18	17	61	06	35

\_\_\_\_\_

PROTECTION

FILE WITH PROTECTION: LOADER THIS IS PIRATE SLAYER CODE (DEPENDS ON WHAT TEXT WORDS HE USED AS TO WHERE THE PROTECTION STARTS. LOAD"LOADER",8,1 (HEXADECIMAL STARTS \$4000-\$547X DEPENDS ON TEXT TO HACKERS).

(NOW EXAMINE CODE WITH HIMON YOU SHOULD LOAD IT AND START IT WITH SYS49152)

At HEX \$4B04, \$4B05, \$4B06 (CD, 64, 43) 'CMP' COMPARE AT \$4364 (28, 6d, C0) THIS INSTALL ERROR CODE TO ASSEMULATE ERROR 21. NEXT YOU NEED TO LOOK AT \$5435. #\$06 TO #\$35 = 21 WHEN CODE IS READ.

NOW YOU CAN DEFEAT MOST PIRATE SLAYER CODE.

MAIL ORDER MONSTERS (TM)

REI	PLAC	CE V	VITH	ł			
EA	EA	EA	EA	EA	ΕA	EA	ΕA
ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA
ΕA	ΕA	ΕA	ΕA	ΕA			
05							
05							
05							
60							
Α9	ΕD						
05	2D	EЗ					
05	2C	EЗ	07	ΕD	$\mathrm{E}\mathrm{F}$		
СЕ							
F1							
14							
96	14						
	REI EA EA 05 05 05 05 05 05 05 CE F1 14 96	REPLAC EA EA EA EA EA EA 05 05 05 05 60 A9 ED 05 2D 05 2C CE F1 14 96 14	REPLACE V EA EA EA EA EA EA EA EA EA 05 05 05 60 A9 ED 05 2D E3 05 2C E3 CE F1 14 96 14	REPLACE WITH EA EA EA EA EA EA EA EA EA EA EA EA 05 05 05 05 60 A9 ED 05 2D E3 05 2C E3 07 CE F1 14 96 14	REPLACE WITH EA EA EA EA EA EA EA EA EA EA EA EA EA EA EA 05 05 05 05 60 A9 ED 05 2D E3 05 2C E3 07 ED CE F1 14 96 14	REPLACE WITH EA EA EA EA EA EA EA EA EA EA EA EA EA EA EA EA EA O5 05 05 60 A9 ED 05 2D E3 05 2C E3 07 ED EF CE F1 14 96 14	REPLACE WITH EA C5 05 05 60 A9 ED 05 2D E3 05 2C E3 07 ED EF CE F1 14 96 14

RACING DESTRUCTION SET (TM)

							-	
ADDRESS	REI	PLAC	CE V	VITH	H			
C018	EA	EA	EA	EA	EA	ΕA	ΕA	ΕA
C020	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA
C028	ΕA	ΕA	ΕA	ΕA	ΕA			
C042	05							
C04A	05							
C053	05							
COAA	60							
C242	52	ΕD						
C47F	04							
C480	6A	07	2D	C9				
C4A1	05	2D	EЗ					
C4B8	05	2C	EЗ	07	ΕD	ΕF		
C4D3	CE							
C4E0	F1							
C6C0	14							
CA00	D9	14						

REALM OF IMPOSSIBILITY (TM) ------ADDRESS REPLACE WITH \_\_\_\_\_ 

 C018
 EA
 < CO3A 05 C043 05 C09A 60 74 ED 04 C205 C47F 04ΕE C492 C49F F1 C60A 05 36 EE 07 4B E2 Α7 C67F E0 A7 CAOO SEVEN CITIES OF GOLD (TM) \_\_\_\_\_ ADDRESS REPLACE WITH ----- 

 C018
 EA
 < 05 C041 C070 60 45 OA C20F 05 41 04 05 40 04 07 7B 08 C41B C432 C44D CE

CA00 7E EF

DISK -----

SKYFOX (TM) \_\_\_\_\_

ADDRESS	REI	PLA	CE V	VITH	ł			
C018	EA	EA	EA	EA	EA	ΕA	EA	EA
C020	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA	ΕA
C028	ΕA	ΕA	ΕA	ΕA	ΕA			
C042	05							
C04A	05							
C053	05							
COAA	60							
C242	Α9	ΕD						
C26A	2F	EЗ						
C2EE	4C							
C4A1	05	2D	EЗ					
C4B8	05	2C	EЗ	07	ΕD	$\mathrm{E}\mathrm{F}$		
C4D3	СΕ							
C4E0	F1							
C6C0	14							
CA00	0 D	14	Α9	ΕA	8 D	88	5C	Α9
CA08	Α9	8 D	89	5C	Α9	06	8 D	8A
CA10	5C	Α9	01	8 D	00	Ε0	Α9	00
CA18	A2	00	A0	00	4C	00	5A	
STANDING	STO	DNES	5 (1	CM)				
ADDRESS	REI	PLA(	CE V	VITF	Ŧ			

\_\_\_\_\_ 

 C018
 EA
 < C043 05 05 60 C04C C088 

 C088
 60

 C21A
 F8
 D2

 C43C
 05
 D8
 DC

 C453
 05
 D9
 DC
 07
 83
 D0

 C46E
 CE
 CE< C47B EE C65B CB CA00 10 68

-----

DISK

WORD FLYER (TM)

ADDRESS REPLACE WITH

C018	EA	ΕA						
C020	ΕA							
C028	ΕA	ΕA	ΕA	ΕA	ΕA			
C038	05							
C041	05							
C07D	60							
C20F	45	0A						
C41B	03	41	04					
C432	05	40	04	07	7В	08		
C44D	CE							
CAOO	D2	ΕF						

EPYX INC.

9 TO 5 TYPING (TM)

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- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD"LLMON",8,1 & SYS8192
- 3. TO DECODE THE PROTECTION ROUTINE & INSERT A 'BRK' INTO ROUTINE, ASSEMBLE THE FOLLOWING CODE:

0900 LDY #\$0E 0902 LDA \$8801,Y :DECODE ROUTINE 0905 EOR \$8800,Y 0908 STA \$8801,Y 0908 INY 090C CPY #\$B8 090E BNE \$0902 0910 LDA #\$00 :INSERT 'BRK' COMMAND 0912 STA \$8888 0915 JMP \$8810 :RUN PROTECTION ROUTINE

4. G FCE2 (RESET COMPUTER)

- 5. INSERT CLONE DISK.
- 6. OPEN15,8,15,"S0:9 TO 5":CLOSE15 :ERASE PROTECTION PROGRAM FROM COPY.
- 7. INSERT ORIGINAL DISK.
- 8. LOAD"9 TO 5",8,1 :PROGRAM CONTAINS THE PROTECTION
- 9. SYS2304 :EXECUTE PROGRAM AT \$0900
- 10. PROGRAM SHOULD RETURN TO READY AFTER DECODING AND READING DATA FROM DRIVE.
- 11. INSERT CLONE DISK.
- 12. SYS8192 :RE-ENTER MONITOR
- 13. M 0001 37 TO 36 :SWITCH BASIC ROM OUT.
- 14. S"9 TO 5",08,5200,CAE0 :SAVE BROKEN PROGRAM TO DISK.
- 15. DONE!!

BALL BLAZER (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"DIRECTORY REPAIR", 8 AND RUN (ON ARCHIVE DISK) 3. LOAD & EXECUTE TRACK & SECTOR EDITOR. 4. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 19 18 ED E2 D5 5. DONE!! BREAK DANCE (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"HIMON",8,1 & SYS49152 3. TO DECODE THE PROTECTION ROUTINE & INSERT A 'BRK' INTO ROUTINE, ASSEMBLE THE FOLLOWING CODE: 0900 LDY #\$0E 0902 LDA \$26BA,Y :DECODE ROUTINE 0905 EOR \$26B9,Y 0908 STA \$26BA,Y 090B INY 090C CPY #\$BD 090E BNE \$0902 0910 LDA #\$00 :INSERT 'BRK' COMMAND 0912 STA \$2746 0915 JMP \$26C9 :RUN PROTECTION ROUTINE 4. G FCE2 (RESET COMPUTER) 5. INSERT CLONE DISK. 6. OPEN15,8,15,"S0:INTRO":CLOSE15 :ERASE PROTECTION PROGRAM FROM COPY.

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- 7. INSERT ORIGINAL DISK.
- 8. LOAD"INTRO", 8, 1 : PROGRAM CONTAINS THE PROTECTION
- 9. SYS2304 :EXECUTE PROGRAM AT \$0900
- 10. PROGRAM SHOULD RETURN TO READY AFTER DECODING AND READING DATA FROM DRIVE.
- 11. INSERT CLONE DISK.
- 12. SYS49152 :RE-ENTER MONITOR
- 13. M 0001 37 TO 36 :SWITCH BASIC ROM OUT.
- 14. S"INTRO",08,2000,2A00 :SAVE BROKEN PROGRAM TO DISK.
- 15. DONE!!

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DRAGON RAIDERS OF PERN (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
01	02	F8	D0	EA
01	02	F9	BA	EA
01	03	02	FO	EA
01	03	03	В2	EA

4. DONE!!

PROTECTION

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TO STUDY PROTECTION:

1. MAKE a COPY OF THE ORIGINAL. 2. INSERT CLONE COPY IN DRIVE. 3. LOAD"HIMON", 8, 1 SYS49152 (ADDR: \$C000-\$CFFF) 4. L"MAIN",08 (ADDR: \$8000-\$BC00) 5. M 0001 37 TO 36 (SWITCH BASIC ROM OUT) 6. D BB00 BC00 (DISASSEMBLE TO PRINTER TO STUDY CODE) CODE AT \$BB05-BB0C STORES A \$BB AT LOCATION \$FC. CODE AT \$BB0E-BB2C CHANGES ALL JSR \$65XX TO JSR \$BBXX (ALSO STA & LDA). CODE AT \$BB4C-BB7B OPEN CHANNEL & FILTER CODE AT \$BB7B READ TRACK 1, SECTOR 1, AND READ ERROR CHANNEL. CODE AT \$BB7E EXPECT NO ERROR (NOP TWO BYTES). CODE AT \$BB80-BB93 READ TRACK 1, SECTOR 2, AND READ ERROR CHANNEL CODE AT \$BB86 EXPECT ERROR (NOP TWO BYTES). 7. NOP THE FOLLOWING BYTES: BB7E = EA\$BB7F = EA

8. S"@0:MAIN",08,8000,BC00

9. DONE!

\$BB86 = EA \$BB87 = EA

\_\_\_\_\_

FAX (TM) V1

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA	
11	19	A2	D0	EA	
11	19	A3	BA	EA	
11	19	AA	FO	EA	
11	19	AB	В2	EA	

4. DONE!!

FAX (TM) V2

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
01	02	 A1	D0	EA
01	02	A2	BA	EA
01	02	A9	FO	EA
01	02	AA	В2	EA

4. DONE!!

PROTECTION

```
TO STUDY PROTECTION:
 1. MAKE a COPY OF THE ORIGINAL.
 2. INSERT CLONE COPY IN DRIVE.
 3. LOAD"HIMON", 8, 1 SYS49152 (ADDR: $C000-$CFFF)
 4. L"CODE",08
                      (ADDR: $0801-$9801)
 5. D 9700 9800 (DISASSEMBLE TO PRINTER TO STUDY CODE)
CODE AT $9705-970C STORES A $BB AT LOCATION $FC.
CODE AT $970E-972C CHANGES ALL JSR $65XX TO JSR $97XX (ALSO STA &
LDA).
CODE AT $974C-977B OPEN CHANNEL & FILTER
CODE AT $977BREAD TRACK 1, SECTOR 1, AND READ ERROR CHANNEL.CODE AT $977EEXPECT NO ERROR (NOP TWO BYTES).
CODE AT $977B
CODE AT $9780-BB93 READ TRACK 1, SECTOR 2, AND READ ERROR CHANNEL
CODE AT $9786 EXPECT ERROR (NOP TWO BYTES).
 7. NOP THE FOLLOWING BYTES:
    $977E = EA
    $977F = EA
    $9786 = EA
    $9787 = EA
 8. S"@0:CODE",08,0801,9801
 9. DONE!
```

IMPOSSIBLE MISSION (TM) -------

1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"HIMON",8,1 & SYS49152 3. TO DECODE THE PROTECTION ROUTINE & INSERT A 'BRK' INTO ROUTINE, ASSEMBLE THE FOLLOWING CODE: 0900 LDA #\$36 0902 STA \$01 :SWITCH BASIC OUT 0904 LDY #\$0E 0906 LDA \$B001,Y :DECODE ROUTINE 0909 EOR \$B000,Y 090c STA \$B001,Y 090f INY 0910 CPY #\$B7 0912 BNE \$0906 0914 LDA #\$00 :INSERT 'BRK' COMMAND 0916 STA \$B087 0919 JMP \$B010 :RUN PROTECTION ROUTINE 4. G FCE2 (RESET COMPUTER) 5. INSERT CLONE DISK. 6. OPEN15,8,15,"S0:LOADER":CLOSE15 :ERASE PROTECTION PROGRAM FROM COPY. 7. INSERT ORIGINAL DISK. 8. LOAD"LOADER", 8, 1 : PROGRAM CONTAINS THE PROTECTION 9. SYS2304 :EXECUTE PROGRAM AT \$0900 10. PROGRAM SHOULD RETURN TO READY AFTER DECODING AND READING DATA FROM DRIVE. 11. INSERT CLONE DISK. 12. SYS49152 :RE-ENTER MONITOR 13. M 0001 37 TO 36 :SWITCH BASIC ROM OUT. 14. S"LOADER",08,B000,B1A2 :SAVE BROKEN PROGRAM TO DISK. 15. DONE!! JET COMBAT (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL USING AN MSD DUAL, FAST HACK'EM 35 SEC.. OR DISK MAKER FAST TRACK (YOU MUST USE A COPY PROGRAM THAT DOESN'T TRANSLATE THE GCR CODE ON THE DISK 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 180540C5180544A218054686 0.0

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4. DONE!!

4C 04

LUNAR OUTPOST (TM)

1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"DIRECTORY REPAIR", 8 AND RUN (ON ARCHIVE DISK) 3. LOAD & EXECUTE TRACK & SECTOR EDITOR. 4. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 0919E4000919E5BA0919ECF00919EDB2 EA ΕA ΕA ΕA 5. DONE!! MONTY PLAYS SCRABBLE (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"HIMON", 8, 1 & SYS49152 3. TO DECODE THE PROTECTION ROUTINE & INSERT A 'BRK' INTO ROUTINE, ASSEMBLE THE FOLLOWING CODE: 7000 LDY #\$0E 7002 LDA \$0804,Y :DECODE ROUTINE 7005 EOR \$0803,Y 
 7008
 STA \$0804,Y

 700B
 INY

 700C
 CPY #\$BD
 700E BNE \$7002 7010 LDA #\$00 :INSERT 'BRK' COMMAND 7012 STA \$0890 7015 JMP \$0813 :RUN PROTECTION ROUTINE 4. G FCE2 (RESET COMPUTER) 5. INSERT CLONE DISK. 6. OPEN15,8,15,"S0:MON1":CLOSE15 :ERASE PROTECTION PROGRAM FROM COPY. 7. INSERT ORIGINAL DISK. 8. LOAD"MON1",8,1 : PROGRAM CONTAINS THE PROTECTION 9. SYS28672 :EXECUTE PROGRAM AT \$7000 10. PROGRAM SHOULD RETURN TO READY AFTER DECODING AND READING DATA FROM DRIVE. 11. INSERT CLONE DISK. 12. SYS49152 :RE-ENTER MONITOR 13. S"MON1",08,0801,30B0 :SAVE BROKEN PROGRAM TO DISK. 14. DONE!!

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PITSTOP II (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"HIMON", 8,1 & SYS49152 3. TO DECODE THE PROTECTION ROUTINE & INSERT A 'BRK' INTO ROUTINE, ASSEMBLE THE FOLLOWING CODE: 0900 LDY #\$0E 0902 LDA \$9404,Y :DECODE ROUTINE 0905 EOR \$9403,Y 0908 STA \$9404,Y 090B INY 090C CPY #\$BD 090E BNE \$0902 0910 LDA #\$00 :INSERT 'BRK' COMMAND 0912 STA \$9490 0915 JMP \$9413 :RUN PROTECTION ROUTINE 4. G FCE2 (RESET COMPUTER) 5. INSERT CLONE DISK. 6. OPEN15,8,15,"S0:PITS":CLOSE15 :ERASE PROTECTION PROGRAM FROM COPY. 7. INSERT ORIGINAL DISK. 8. LOAD"PITS", 8, 1 : PROGRAM CONTAINS THE PROTECTION 9. SYS2304 :EXECUTE PROGRAM AT \$0900 10. PROGRAM SHOULD RETURN TO READY AFTER DECODING AND READING DATA FROM DRIVE. 11. INSERT CLONE DISK. 12. SYS49152 :RE-ENTER MONITOR 13. M 0001 37 TO 36 :SWITCH BASIC ROM OUT. 14. S"PITS",08,1000,C000 :SAVE BROKEN PROGRAM TO DISK. 15. DONE!! STARFIRE-ONE (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 17 09 ר ת 

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1 /	09	A/	DU	ĽА
17	09	A8	BA	ΕA
17	09	AF	FO	ΕA
17	09	B0	B2	EA

SUMMER GAMES (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
15	04	C1	20	4C
15	04	C2	C6	9C
15	04	C3	FF	67

4. DONE!!

SUMMER GAMES II (TM)

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1. MAKE A COPY OF THE ORIGINAL USING AN MSD DUAL, FAST HACK'EM 35 SEC.. OR DISK MAKER FAST TRACK (YOU MUST USE A COPY PROGRAM THAT DOESN'T TRANSLATE THE GCR CODE ON THE DISK

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
18	05	40	C5	00
18	05	44	A2	4C
18	05	46	86	04

DISK

WORLDS GREATEST BASEBALL (TM) 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"HIMON", 8,1 & SYS49152 3. TO DECODE THE PROTECTION ROUTINE & INSERT A 'BRK' INTO ROUTINE, ASSEMBLE THE FOLLOWING CODE: 0900 LDY #\$0E 0902 LDA \$6001,Y :DECODE ROUTINE 0905 EOR \$6000,Y 0908 STA \$6001,Y 090B INY 090C CPY #\$A5 090E BNE \$0902 0910 LDA #\$00 :INSERT 'BRK' COMMAND 0912 STA \$6085 0915 JMP \$6010 :RUN PROTECTION ROUTINE 4. G FCE2 (RESET COMPUTER) 5. INSERT CLONE DISK. 6. OPEN15,8,15,"S0:8":CLOSE15 :ERASE PROTECTION PROGRAM FROM COPY. 7. INSERT ORIGINAL DISK. 8. LOAD"8",8,1 : PROGRAM CONTAINS THE PROTECTION 9. SYS2304 :EXECUTE PROGRAM AT \$0900 10. PROGRAM SHOULD RETURN TO READY AFTER DECODING AND READING DATA FROM DRIVE. 11. INSERT CLONE DISK. 12. SYS49152 :RE-ENTER MONITOR 13. S"8",08,1000,C000 :SAVE BROKEN PROGRAM TO DISK. 14. REPEAT STEPS 4-14 FOR FILES: SIDE A FILE "9" SIDE B FILE "3"

\_\_\_\_\_

15. DONE!!

FIRST STAR INC.

SPY VS SPY (TM) \_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"DIRECTORY REPAIR", 8 AND RUN (ON ARCHIVE DISK) 3. LOAD & EXECUTE TRACK & SECTOR EDITOR. 4. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: SECTOR BYTE OLD DATA TRACK NEW DATA ------11FAD011FB090203D0020401 17 ΕA 17 ΕA

4. DONE!!

17

17

ΕA

ΕA

DISK

FISHER PRICE

\_\_\_\_\_

FIRST MEN IN THE MOON MATH (TM) JUNGLE BOOK READING (TM) PERFECT FIT (TM) PETER RABIT READING (TM) PROKOFIER'S PETER AND THE WOLF MUSIC (TM)

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1. MAKE A COPY OF THE ORIGINAL BOTH SIDES. PROTECTION IS ON SIDE 2.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

4. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: (ONLY ON BACKUP OF SIDE 2)

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
 17	17	00	33	30
17	17	02	32	30

5. DONE!

# PROTECTION

23 READ ERROR ON SIDE 2 TRACK 18 SECTOR 17. NOW WE CHANGED 33 to 30 THIS MEANS NO ERROR 0 WHERE 33 = 23 WHEN VALUE 32 IS SUBTRACTED.

SEA SPELLER (TM)

\_\_\_\_\_

- 1. FORMAT A BLANK DISK
- 2. LOAD"HIMON",8,1 SYS49152
- 3. USE THE 'M' COMMAND TO ENTER THE FOLLOWING CODE: L"SSP",08

# ADDRESS REPLACE WITH

8000 09 80 14 80

- 4. S"SS.OBJ",08,8000,9FFF (RESAVE TO BLANK DISK)
- 5. USE SUPERBOOTER TO BUILD A BOOT AND SYS64738
- 6. YOU'RE DONE!!

### GAMESTAR

BASEBALL (TM)

1.	FORMAT	Α	BLANK	DISK
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- 2. MAKE A COPY OF THE ORIGINAL.
- 3. LOAD & EXECUTE TRACK & SECTOR.
- 4. INSERT CLONE DISK

```
5. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:
```

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
10	0.0	0.0	0.0	2 5

- 19 00 03 00 3B
- 6. LOAD"HIMON", 8, 1 AND SYS49152
- 7. L"PLAYBALL",8
- 8. INSERT FORMATED DISK
- 9. S"BB.OBJ",08,3B00,C000 (SUPERBOOTER FORMAT)
- 10. USE SUPERBOOTER TO BUILD A BOOT TO FLIP-OUT BASIC AND SYS32780
- 11. YOU'RE DONE!!

ON-COURT TENNIS (TM)

\_\_\_\_\_

1. FORMAT A BLANK DISK

- 2. COPY FILE CALLED 'FILE' TO THE BLANK DISK
- 3. INSERT THE ORIGINAL AND LOAD"\*",8,1
- 4. WHEN THE DRIVE CHECKS THE ERROR (RED LIGHT BEGINS TO BLINK) PRESS THE RESET BUTTON.
- 5. LOAD"HIMON", 8, 1 AND SYS49152
- 6. USE THE 'M' COMMAND TO M 08C6 CHANGE 32 TO 30
- 7. INSERT THE FORMATED DISK. S"OC.OBJ",08,0800,0A41
- 8. USE SUPERBOOTER TO BUILD A BOOT TO LOAD"OC.OBJ" AND SYS2312 9. YOU'RE DONE!!

HAYDEN INC.

SARGON II (TM) \_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	12	 A8	 F0	 EA
17	12	A9	2A	EA

4. DONE!

# HES INC.

TURTLE GRAPHICS 2 (TM) \_\_\_\_\_

- 1. MAKE A COPY OF THE ORIGINAL
- 2. LOAD"TURTLE.BOOT",8
- REMOVE LINE 10 AND 20
- 3. SAVE"@0:TURTLE.BOOT",8
- 4. LOAD"HIMON", 8, 1 AND SYS49152
- 5. USE THE 'M' COMMAND TO ENTER THE FOLLOWING CODE: L"TB",08

ADDRESS	OLD	NEW
7849	EA	4C
784A		A7
784B		78

6. S"@0:TB",08,4001,7900

7. YOU'RE DONE!

HOME & HOBBY

PLANTIN PAL (TM) \_\_\_\_\_

- 1. MAKE A CLONE OF THE ORIGINAL.
- 2. LOAD"HIMON",8,1
- 3. USE THE 'M' COMMAND TO ENTER THE FOLLOWING CODE: LOAD"PAL", 8 AND SYS49152

ADDRESS	OLD	NEW
1350	2E	2B
1362	2в	2E

4. X TO EXIT AND SAVE"@0:PAL",8 5. YOU'RE DONE!

HUMAN EDGE

MIND PROBER (TM) \_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	 18	 EF	 2E	2B

4. DONE!

IMAGIC INC.

CRIME AND PUNISHMENT (TM) \_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
13	05	2C	D0	F0
13	05	3B	D0	FO
13	05	4C	FO	DO

4. YOU'RE DONE!!

TOURNAMENT TENNIS (TM) \_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	04	0B	4C	A5
17	04	0C	0 0	01
17	04	0 D	C0	29

4. DONE!

ISA SOFTWARE

OMNICALC (TM) \_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL. 2. RESET THE COMPUTER, LOAD"HIMON", 8,1 AND SYS49152 3. F 0800 9FFF 00 4. L"CALC64",08 5. USE THE 'M' COMMAND TO ENTER THE FOLLOWING CHANGES:

ADDRESS REPLACE WITH \_\_\_\_\_ 1524 A9 20 EA

6. S"@0:CALC64",08,0A00,7E00 7. DONE!

KOALA TECHNOLOGIES

DANCING BEAR (TM) \_\_\_\_\_

1. MAKE COPY OF ORIGINAL. VALIDATE COPY. 2. LOAD"HIMON", 8, 1 AND SYS49152 3. L"DB4",08 4. USE THE 'M' COMMAND TO ENTER THE FOLLOWING CHANGES: ADDRESS REPLACE WITH \_\_\_\_\_ 5729A9 (OLD)572960 (NEW) 60 (NEW AND JUST BYPASSED ERROR CHECKING) 5. S"@0:DB4",08,0802,572A

KOALAPAINTER (TM)

 FORMAT A BLANK DISK
 LOAD AND RUN THE ORIGINAL DISK
 AFTER ITS RUNNING, RESET THE COMPUTER
 LOAD"LOMON", 8, 1 AND SYS32768
 S"KP.OBJA",08,C000,C800 (SUPERBOOTER FORMAT)
 L"KOALAPAINTER,08
 USE THE 'M' COMMAND AT ADDRESS 0A81. CHANGE 'AO' TO '60'
 S"KP.OBJB",08,0900,4600 (SUPERBOOTER FORMAT)
 USE SUPERBOOTER TO BUILD A BOOT TO LOAD"KP.OBJA" & "KP.OBJB" AND SYS2304
 YOU'RE DONE!

\_\_\_\_\_

\_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

SECTOR	BYTE	OLD DATA	NEW DATA
08	F9	3E	19
08	FA	BF	1C
08	FB	B8	1F
	SECTOR 08 08 08 08	SECTOR BYTE 08 F9 08 FA 08 FB	SECTOR BYTE OLD DATA 08 F9 3E 08 FA BF 08 FB B8

4. DONE!

# PROTECTION

THIS PROGRAM WAS COMPILED USING BLITZ.. (TM). A GOTO WAS INSERT AT \$1BDO IN FILE 'PP' TO BYPASS THE PROTECTION.

### KONAMI

### KYAN SOFTWARE

\_\_\_\_\_

KYAN PASCAL (TM)

\_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
15	01	 6F	20	EA
15	01	70	AC	EA
15	01	71	92	EA

4. DONE!

PROTECTION

THE ABOVE NOP'S (EA). THE PROTECTION ROUTINE. CAUSING THE PROGRAM TO BYPASS ERROR CHECKS.

### LEARNING COMPANY

MOPTOWN MOTEL (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	03	B1	20	 ЕА
17	03	В2	D0	EA
17	03	В3	08	EA
17	03	В4	FO	EA
17	03	в5	BB	EA

4. DONE!

PROTECTION

THE ABOVE TRACK & SECTOR CHANGES: CAUSED THE PROTECTION ROUTINE TO BE SKIPPED AND 'BEQ' COMMAND NOP'ED

ROCKY'S BOOTS (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"DIRECTORY REPAIR", 8 AND RUN 3. LOAD"LLMON", 8,1 AND SYS8192 4. TO DECODE THE'PROTECTION ROUTINE & INSERT A 'BRK' INTO ROUTINE, ASSEMBLE THE FOLLOWING CODE 8000 LDY #\$0E 8002 LDA \$0801,Y :DECODE ROUTINE 8005 EOR \$0800,Y 8008 STA \$0801,Y 800B INY 800C CPY #\$BD 800E BNE \$8002 :INSERT 'BRK' COMMAND 8010 LDA #\$00 8012 STA \$088D 8015 JMP \$0810 :RUN PROTECTION ROUTINE RESET VECTORS 5. INSERT CLONE DISK 6. L"RBMENU", 8, 1 : PROGRAM CONTAINS THE PROTECTION 7. G 8000 :EXECUTE DECODE ROUTINE \$8000 8. PROGRAM SHOULD RETURN TO MONITOR AFTER DECODING AND READING DATA FROM DRIVE. 9. S"@0:RBMENU",08,0800,0900 :SAVE BROKEN PROGRAM TO DISK 10. ALTER THE CODE AT \$8002-\$8008, \$8012 and \$8015 AS SHOWN BELOW AND REPEAT STEPS 4-8 FOR FILE "MENU". 8002 LDA \$C801,Y 8005 EOR \$C800,Y 8008 STA \$C801,Y 8012 STA \$C88D 8015 JMP \$C810 16. S"@0:MENU",08,C800,CD7F 17. DONE! LIMBIC SYSTEMS INC. OXFORD PASCAL (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL.

\_\_\_\_\_

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
13	 05	84	D0	 ЕА
13	05	85	13	EA
13	05	8B	D0	EA
13	05	8C	14	EA

### MEGASOFT LIMITED

\_\_\_\_\_

N-CODER (TM) \_\_\_\_\_

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD"DIRECTORY REPAIR", 8 AND RUN
- 3. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 4. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
16	18	C3	93	8 D

5. DONE!

APOLLO (TM) V1.0

\_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL.

2. LOAD"DIRECTORY REPAIR", 8 AND RUN

3. LOAD & EXECUTE TRACK & SECTOR EDITOR.

4. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
11	17	ED	52	01
11	17	ΕE	ΟF	57
11	17	ΕF	F5	29

5. DONE!

# PROTECTION

\_\_\_\_\_ PROTECTION: FILENAME BOOT2 HEXADECIMAL LOCATION \$28AA THIS PROGRAM WAS COMPILED USING PETSPEED (TM), HOWEVER IF YOU LIST IT, THE PROGRAM SAYS BLITZ (TM). A GOTO WAS PLACED IN FILE BOOT2, TO BYPASS THE PROTECTION.

### SWIFT TERM (TM)

\_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"DIRECTORY REPAIR", 8 AND RUN 3. LOAD & EXECUTE TRACK & SECTOR EDITOR. 4. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: TRACK א דיי א דיי

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
16	14 14	 64 65	BF BQ	19
16	14	66	BF	21 9E

5. DONE!

### PROTECTION:

THIS PROGRAM WAS COMPILED USING BLITZ (TM). A GOTO WAS INSERTED TO BYPASS THE PROTECTION.

TOP SECRET STUFF (TM)

1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"DIRECTORY REPAIR", 8 AND RUN 3. OPEN 15,8,15,"VO" (VALIDATE DISK) 4. LOAD AND RUN DIRECTORY REPAIR (ON ARCHIVER DISK) 5. LOAD & EXECUTE TRACK & SECTOR EDITOR. 6. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 

 19
 10
 14
 4A
 3A

 19
 10
 15
 E8
 3A

 19
 10
 16
 BC
 3A

 19
 10
 16
 BC
 3A

 19
 10
 45
 2E
 2B

 19
 09
 B5
 4A
 3A

 10
 00
 D6
 TO
 D0

 19 09 В6 E2 ЗA в7 ЗA 19 09 CF 09 EE 01 EF 11 02 11 03 11 32 2E 19 2В E± A1 2E 4A F? 16 ЗA 16 ЗA 16 3A 32 16 2В 00 15 DE ЗA F2 ЗA 15 00 DF E0 ЗA 15 00 0C 
 11
 2E

 E3
 4A

 E4
 F1

 E5
 CD

 16
 2E

 E1
 4A
 11 E3 E4 E5 15 10 2В 10 13 13 13 14 00 00 15 ЗA 15 ЗA 15 ЗA 15 2в 14 ЗA E2 14 ΕF ЗA 14 00 E3 ЗF ЗA 10 01 01 11 00 00 14 14 2E 2В FO 4A 14 ЗA F1 F1 14 ЗA F2 A5 14 ЗA 27 2E 14 2В 22 E1 4A ЗA 22 00 E2 FΟ ЗA 22 00 EЗ 39 ЗA 22 10 14 2E 2В 2E 4A EF C2 2E 4A ED BF 2E 22 07 DE ЗA 07 07 07 17 13 DF E0 15 74 22 ЗA 22 ЗA 22 2В 74 12 ЗA 75 12 13 ЗA 12 13 76 3A 12 13 A6 2E 2В 23 00 E1 4A ЗA 00 00 10 E2 EA 23 00 ЗA 23 EЗ 00 80 3A 23 15 2E 2В

\_\_\_\_\_

21	16	C6	8 D	8 F
21	07	16	9E	8 F
05	10	F3	1A	19
05	10	F4	26	21
05	10	F5	FD	E6

7. YOU'RE DONE!

## PROTECTION

\_\_\_\_\_

TOP SECRETT STUFF (TM) IS COMPRISED OF PROGRAMS WRITTEN IN BASIC AND COMPILED USING 3 DIFFERENT COMPILERS. THE MAIN MENU AND MOST OF THE INDIVIDUAL PROGRAMS WERE ALL PROTECTED.

\_\_\_\_\_

MICRO FUN INC.

BOULDER DASH (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
18	18	C6	32	30
18	18	CD	33	30

4. DONE!

THE HEIST (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD"HIMON", 8,1 AND SYS45152
- 3. L"HEIST",08
- 4. USE THE 'M' COMMAND TO MAKE THE FOLLOWING CHANGES:

5. S"@0:HEIST",08,0801,8000 (REPLACE ALTERED FILE)
6. YOU'RE DONE!!

THE TOOL (TM)

MAKE A COPY OF THE ORIGINAL
 TYPE LOAD"BOOT.TOOL",8
 TYPE POKE2485,48
 TYPE SAVE"@0:BOOT.TOOL",8
 YOU'RE DONE!!
### MICROTECHNIC SOLUTIONS

\_\_\_\_\_

SPRITE BYTER (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL 2. TYPE LOAD"SB.II",8 3. TYPE POKE2291,0 4. TYPE SAVE"@0:SB.II",8 5. YOU'RE DONE!! SMART 64 TERM +3 (TM) 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 15 9A 21 15 00 4. YOU'RE DONE! MICROPROSE AIR RESCUE 1 (TM) 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: NEW DATA TRACK SECTOR BYTE OLD DATA \_\_\_\_\_ 18 83 B2 12 14 12 18 84 15 14 12 18 85 F4 14 
 F0
 DE

 F1
 2F

 F2
 FF
 12 18 14 
 18
 F0

 18
 F1

 18
 F2
 55 12 12 В2 4. YOU'RE DONE! F-15 STRIKE EAGLE (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 16 FF B2 11 14 11 04 02 9D 14

6E DE 6F 2F

F1

FΕ

14

14 55

В2

03

70

4. YOU'RE DONE!

04

04

04 04

11

11

11

11

PROTECTION

THE PROTECTION ROUTINE IS HIDDEN IN FILE "TITLE.BA" FOLLOWING THE BASIC PROGRAM. IT USES UNDOCUMENTED OP-CODES AND DECODES THE NEXT 23 AND ENCODES THE PREVIOUS 23 BYTES AS IT RUNS. TO STUDY PROTECTION ADC #\$01 AND EOR #\$FF ADDRESS \$0E2D-\$0FF8, THEN USE PROGRAM "DC.\$C000" ON ARCHIVER DISK TO DECODE.

\_\_\_\_\_

KENNEDY APPROACH (TM)

MAKE A COPY OF THE ORIGINAL.
 LOAD & EXECUTE TRACK & SECTOR EDITOR.
 MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	01	 A2	8D	 8F
15	09	ED	89	8 F
24	06	3C	DB	FC
24	06	ЗD	2B	F8
24	06	ЗE	51	D8
24	06	ЗF	FC	5B
24	06	40	5A	D5
24	06	41	FD	35

4. DONE!!

NATO COMMANDER (TM)

\_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	01	 8F	 2E	2B
17	01	E2	2E	2B

4. DONE!

PROTECTION

\_\_\_\_\_

FILE NATO WAS WRITTEN IN BASIC AND COMPILED USING SPEEDWRITER (TM). THE "<>" (2E) IN THE "IF" STATEMENTS ABOVE IN THE PROTECTION ROUTINE WAS CHANGED TO "=" (2B).

SOLO FLIGHT (TM) \_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

		DIIGINA		V DÆ	ATA					
17	13	9D-BB	45 22 52	B2 52 4F	32 45 52	33 41 22	3A 44 3A	43 20 5A	24 45 B2	B2 52 32
17	13	C6-E5	3A 45 22 52 3A	5A B2 52 4F 5A	39 32 45 52 39	B2 37 41 22 B2	31 3A 44 3A 31	35 43 20 5A 36	3A 24 45 B2 3A	3A B2 52 33 3A
4. YOU'RI	E DONE!									
SOLO FLIGH	HT (TM) V2									
6. TYPE I 7. REM L 8. TYPE S 9. YOU'RH SPITFIRE 2	LOAD"BOOT", 8 INES 271-283 SAVE"@0:BOOS E DONE!! ACE (TM)	3 1 or remo <sup>v</sup> 5 <b>",</b> 8	VE THEM							
1. MAKE 2	A COPY OF TI S EXECUTE TI	HE ORIGINZ RACK & SE(	AL. Ctor edij	or.		7.17	- cī	200		
2. LOAD a	THE FOLLOWII	NG CHANGE:	S WITH TH	IE ]	'RA(	- K (	x DI		JRI	EDIIOR:
2. LOAD a 3. MAKE 1 TRACK	THE FOLLOWII	NG CHANGE: BYTE	S WITH TH OLD DAT?	ΗΕ ] Α 	RAC NI		)ATZ	A -	JR	EDITOR:
2. LOAD 4 3. MAKE 5 TRACK 21 21	THE FOLLOWI SECTOR 17 17	NG CHANGE: BYTE 42 56	S WITH TH OLD DATA  8B 8B 8B	ΗΕ ] Α 	RAC NI	EW I  8F 8F	)AT2	A -	JK	EDITOR:
2. LOAD & 3. MAKE ? TRACK 21 21 4. DONE!	THE FOLLOWI SECTOR 17 17	NG CHANGE: BYTE 42 56	S WITH TH OLD DAT?  8B 8B 8B	ΗΕ ] 4 	RAC NH	2K 8 EW I 8F 8F	0AT2	A -	JR I	EDIIOR:

REM (8F).

# MICROSOFT INC.

MULTIPLAN (TM)

\_\_\_\_\_

- 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"HIMON", 8, 1 AND SYS49152
- 3. L"MP.",08
- 4. MAKE THE FOLLOWING CHANGES WITH THE 'M' COMMAND:

ADDRESS	REE	PLACE	WITH
3586	ΕA	EA	

- 5. S"@0:MP.",08,0900,3600
- 6. YOU'RE DONE!

# MICROWARE DISTRIBUTORS

FONT FACTORY (TM) \_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
33	06	 ЕВ	52	 D1
33	06	EC	0 F	D8
33	06	ED	F5	38
14	11	8 D	52	D1
14	11	8 E	ΟF	40
14	11	8 F	F5	36
23	18	87	52	D1
23	18	88	ΟF	5E
23	18	87	F5	$4 \mathrm{E}$

## 4. DONE!

# PROTECTION

\_\_\_\_\_

THIS PROGRAM WAS PROTECTED IN THREE (3) FILES USING PETSPEED (TM). THREE (3) GOTO (D1) WAS INSERTED IN CODE TO BYPASS PROTECTION.

#### MINDSCAPE INC.

\_\_\_\_\_

BANK STREET MUSIC WRITER (TM) \_\_\_\_\_ 1. LOAD"ZIP", 8, 1 (ON ARCHIVER DISK) 2. INSERT AND LOAD ORIGINAL PROGRAM 3. WHEN THE MAIN MENU APPEARS, RESET THE COMPUTER. 4. LOAD"HIMON", 8,1 AND SYS49152 5. S"BS.OBJ",08,0800,95E1 USE SUPERBOOTER TO BUILD A BOOT TO LOAD"BS.OBJ" AND SYS2128 6. YOU'RE DONE! INDIANA JONES (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"HIMON",8,1 & SYS49152 3. TO DECODE THE PROTECTION ROUTINE & INSERT A 'BRK' INTO ROUTINE, ASSEMBLE THE FOLLOWING CODE: 0900 LDY #\$0E 0902 LDA \$457F,Y :DECODE ROUTINE 0905 EOR \$457E,Y 0908 STA \$457F,Y 090B INY 090C CPY #\$BD 090E BNE \$0902 0910 LDA #\$00 :INSERT 'BRK' COMMAND 0912 STA \$460B 0915 JMP \$458E :RUN PROTECTION ROUTINE 4. G FCE2 (RESET COMPUTER) 5. INSERT CLONE DISK. 6. OPEN15,8,15,"S0:F":CLOSE15 :ERASE PROTECTION PROGRAM FROM COPY. 7. INSERT ORIGINAL DISK. 8. LOAD"F",8,1 :PROGRAM CONTAINS THE PROTECTION 9. SYS2304 :EXECUTE PROGRAM AT \$0900 10. PROGRAM SHOULD RETURN TO READY AFTER DECODING AND READING DATA FROM DRIVE. 11. INSERT CLONE DISK. 12. SYS49152 :RE-ENTER MONITOR 13. S"F",08,4000,9C37 :SAVE BROKEN PROGRAM TO DISK.

14. DONE!

DISK

\_\_\_\_\_ TINK TONK (TM) TINKA'S MAZES (TM) 1. MAKE A COPY OF THE ORIGINAL BOTH SIDES. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR: OLD DATA TRACK SECTOR BYTE NEW DATA \_\_\_\_\_ 18016313191801640A01 4. DO THIS ON SIDE A AND SIDE B 5. DONE! SPROUT (TINK TONK (TM)) THUNDER MOUNTAIN (TM) DEVELOPING THINKING SKILLS ABC'S WITH TINK TONK CASTLE CLOBBER (TM) TINKA'S ADVENTURE (TM) TINKA'S MAZES (TM) ALT. COUNT & ADD WITH TINK TONK TINKA'S SUBTRACTION FAIR (TM) TONK IN THE LAND OF THE TINKA'S SUBTRACTION FAIR (TM) TONK IN THE LAND OF THE BUDDYBOTS (TM) TUK GOES TO TOWN (TM) TUK GOES TO TOWN (TM) SPELLING WITH THE TINK TONKS \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD"DIRECTORY REPAIR", 8 AND RUN 3. LOAD"ALLOCATE ALL", 8 AND RUN. 4. LOAD"HIMON", 8,1 & SYS49152 5. TO DECODE THE PROTECTION ROUTINE & INSERT A 'BRK' INTO ROUTINE, ASSEMBLE THE FOLLOWING CODE: 8000 LDY #\$0E 8002 LDA \$0840,Y :DECODE ROUTINE 8005 EOR \$083F,Y 8008 STA \$0840,Y 800B INY 800C CPY #\$BD 800E BNE \$8002 8010 LDA #\$00 :INSERT 'BRK' COMMAND 8012 STA \$08CA 8015 JMP \$084F :RUN PROTECTION ROUTINE 6. G FCE2 (RESET COMPUTER) 7. INSERT CLONE DISK. 8. OPEN15,8,15,"S0:BOOT2":CLOSE15 :ERASE PROTECTION PROGRAM FROM COPY. 9. INSERT ORIGINAL DISK. 10. LOAD"BOOT2",8,1 :PROGRAM CONTAINS THE PROTECTION 11. SYS32768 :EXECUTE PROGRAM AT \$8000 12. PROGRAM SHOULD RETURN TO READY AFTER DECODING AND READING DATA FROM DRIVE. 13. INSERT CLONE DISK. 14. SYS49152 :RE-ENTER MONITOR

- 15. S"BOOT2",08,0801,0C00 :SAVE BROKEN PROGRAM TO DISK.
- 16. REPEAT STEPS 6-14 AFTER ASSEMBLING THE CODE BELOW.

LDY	#\$0E			
LDA	\$0B93 <b>,</b> Y	: DECODE	ROUTINE	
EOR	\$0B92 <b>,</b> Y			
STA	\$0B93 <b>,</b> Y			
INY				
СРҮ	#\$B7			
BNE	\$8002			
LDA	#\$00	:INSERT	'BRK' CO	OMMAND
STA	\$0C19			
JMP	\$0BA2	:RUN PR	OTECTION	ROUTINE
	LDY LDA EOR STA INY CPY BNE LDA STA JMP	LDY #\$0E LDA \$0B93,Y EOR \$0B92,Y STA \$0B93,Y INY CPY #\$B7 BNE \$8002 LDA #\$00 STA \$0C19 JMP \$0BA2	LDY #\$0E LDA \$0B93,Y :DECODE EOR \$0B92,Y STA \$0B93,Y INY CPY #\$B7 BNE \$8002 LDA #\$00 :INSERT STA \$0C19 JMP \$0BA2 :RUN PR	LDY #\$0E LDA \$0B93,Y :DECODE ROUTINE EOR \$0B92,Y STA \$0B93,Y INY CPY #\$B7 BNE \$8002 LDA #\$00 :INSERT 'BRK' CO STA \$0C19 JMP \$0BA2 :RUN PROTECTION

17. S"L",08,0880,0F24 18. YOU'RE DONE!!

NOTE: TINKA'S MAZE HAS 2 SIDES 2ND SIDE NEEDS TO ALSO BE DONE.

MUSE

\_\_\_\_\_

BEYOND CASTLE WOLFENSTEIN (TM) \_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL

- 2. LOAD"HIMON", 8,1 AND SYS49152
- 3. L"@STANDINGS",08
- 4. USE THE 'M' COMMAND TO CHANGE THE FOLLOWING BYTES:

ADDRESS REPLACE WITH ------

0E35 A9 52 EA

5. S"@0:@STANDINGS",08,0801,9000 6. YOU'RE DONE!!

LEAPS & BOUNDS (TM) \_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
14	 19	05	A9	4C
14	19	06	29	62
14	19	07	A2	09
14	19	72	AE	A2
14	19	73	15	08
14	19	74	0A	AO
14	19	75	AC	01
14	19	76	14	EA
14	19	77	0A	EA

4. YOU'RE DONE!!

PROTECTION

\_\_\_\_\_

PROTECTION FILE: "GTITLE" LOOKS FOR ERROR 23 ON TRACK 41 IF FOUND THEN LOOKS FOR ERROR 20 ON TRACK 20. PROTECTION CODE STARTS AT \$0900.

# SPACE TAXI (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
20	05	B1	20	A9
20	05	В2	FO	02
20	05	BЗ	5D	EA
20	05	C2	20	A9
20	05	C3	FΟ	70
20	05	C4	5D	EA
20	05	D3	20	A9
20	05	D4	FΟ	02
20	05	D5	5D	EA

4. DONE!

### OPTIMUM RESOURCE INC.

PICTURE BUILDER (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
13	20	E2	4C	60

4. DONE!

STICKYBEAR ABC'S (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
19	 07	D0	F0	EA
19	07	D1	03	EA
19	07	D2	4C	EA
19	07	D3	D1	EA
19	07	D4	15	EA

STICKYBEAR MATH (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
06	04	 5F	 F0	 ЕА
06	04	60	03	EA
06	04	61	4C	EA
06	04	62	61	EA
06	04	63	5E	EA

4. DONE!

STICKYBEAR NUMBERS (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
19	07	CE	F0	EA
19	07	CF	03	EA
19	07	DO	4C	EA
19	07	D1	CF	EA
19	07	D2	5F	EA

4. DONE!

STICKYBEAR OPPOSITES (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
18	18	22	F0	 ЕА
18	18	23	03	EA
18	18	24	4C	EA
18	18	25	24	EA
18	18	26	57	EA

STICKYBEAR READING COMPREHENSION (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
01	18	24	FO	EA
01	18	25	03	EA
01	18	26	4C	EA
01	18	27	26	EA
01	18	28	5A	EA

4. DONE!

STICKYBEAR SHAPES (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
19	07	BA	F0	EA
19	07	BB	03	EA
19	07	BC	4C	EA
19	07	BD	BC	EA
19	07	BE	5F	EA

4. DONE!

STICKYBEAR TOWN BUILDER (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
08	05	06	F0	EA
08	05	07	03	EA
08	05	08	4C	EA
08	05	09	09	EA
08	05	0A	87	EA

STICKYBEAR TYPING (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES WITH THE TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
10				
19	07	BA	E.O	EA
19	07	BB	03	EA
19	07	BC	4C	EA
19	07	BD	BC	EA
19	07	BE	5F	EA
15	09	DE	FO	EA
15	09	DF	03	EA
15	09	ΕO	4C	EA
15	09	E1	E1	EA
15	09	E2	82	EA

4. DONE!

### ORIGIN

ULTIMA III (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
12	00	36	D0	EA
12	00	37	0 D	EA
12	00	ЗD	DO	EA
12	00	ЗE	06	EA

4. YOU'RE DONE!!

#### OXFORD

OXFORD PASCAL (MATTY'S PASCAL) (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
13	 05	 83	32	30
13	05	8A	33	30

#### PARKER BROTHERS

\_\_\_\_\_

MONTEZUMA'S REVENGE (TM)

------

- 1. THIS PROGRAM REQUIRES AN EXPANDER BOARD
- 2. LOAD AND RUN THE ORIGINAL PROGRAM
- 3. WHEN THE PROGRAM IS RUNNING. ACTIVATE THE EXROM SWITCH AND PRESS THE RESET BUTTON
- 4. DE-ACTIVATE THE EXROM SWITCH, AND LOAD"HIMON",8,1
- 5. SYS49152 (ENTER THE MONITOR)
- 6. M 0001 CHANGE 37 TO 36 (FLIP-OUT BASIC)
- 7. M \$8000 CHANGE 55 TO 09 (RESTORE BYTE FROM RESET)
- 8. S"MR.OBJ",08,8000,C000 (SUPERBOOTER FORMAT)
- 9. USE SUPERBOOTER TO BUILD A BOOT TO FLIP-OUT BASIC, AND SYS32777
- 10. YOU'RE DONE!

# PENGUIN

EXPEDITION AMAZON (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
05	08	A2	33	30
05	08	В3	37	30
05	08	EC	32	30
05	08	F3	37	30

4. YOU'RE DONE!

THE QUEST (TM)

\_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	03	A2	33	30
17	03	BЗ	37	30
17	03	EC	32	30
17	03	F3	37	30

4. YOU'RE DONE!

DISK

STELLER	7 (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	00	9D	33	30
17	00	AE	37	30
17	00	E4	32	30
17	00	EB	37	30

4. DONE!

SWORD OF KADASH (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	 07	 50	 6A	 50
17	07	51	BF	50

4. YOU'RE DONE!!

TRANSYLVANIA (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	00	EC	33	30
17	00	F3	37	30

4. YOU'RE DONE!!

# XYPHUS (TM)

\_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
24	07	84	A9	4C
24 24	07	85 86	AB	03

# PROFESSIONAL SOFTWARE INC.

BLUE CHIP WORD PROCESSOR (TM)

-----

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	04	16	23	00
17	04	26	20	00

4. DONE!

FLEET SYSTEM 2 (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
 17	10	4A	D0	 ЕА
17	10	4B	07	EA
17	05	17	DO	EA
17	05	18	10	EA

4. DONE!

SPELL RIGHT+ (TM) V2

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	 08	D0	 F0	D0

4. DONE!

PROTECTION

-----

PRTECTION FILE: SP1A START LOC. \$081C END LOC. \$2A00 HEXADECIMAL PROTECTION BYTE LOC. \$16D1

DISK

TRIVIA FEVER (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
15	08	 67	52	D1
15	08	68	08	78
15	08	69	F5	38

4. DONE!

WORD PRO 3 PLUS/64 (TM) V1 (NEED FINISHED)

1. MAKE A COPY OF THE ORIGINAL.

\_\_\_\_\_

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	05		CE	EA
17	05		74	EA
17	05		09	EA
17	05		С9	С9
17	05		32	30

NOTE: SORRY, WE DON'T HAVE THE SPECIFIC BYTE LOCATIONS. THE BYTES 'CE 7A 09' ARE THREE CONSECUTIVE BYTES. THEY MEAN 'DEC \$0974'. the BYTES 'C9 32' ARE ALSO CONSECUTIVE.THEY MEAN 'CMP #\$32'. BOTH SECTIONS MUST BE REPLACED. MAKE SURE YOU REPLACE THE CORRECT, CONSECUTIVE BYTES!

4. YOU'RE DONE!!

WORD PRO 3 PLUS (TM) V2

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	14	24	4B	 5F
17	05	26	CE	EA
17	05	27	74	EA
17	05	28	09	EA
17	05	29	CE	EA
17	05	2A	74	EA
17	05	2B	09	EA
17	05	6C	20	A9
17	05	6D	A5	32
17	05	6E	FF	60

### PROGRAME INC.

\_\_\_\_\_

LADY TUT (TM)

FORMAT A DISK
 LOAD"LTB",8 FROM ORIGINAL DISK
 LIST LINE 100
 CHANGE "IF 0=0" TO "IF 0<0"</li>
 SAVE"LTB" TO THE FORMATED DISK
 LOAD & RUN "LTB" LIKE ANY BASIC PROGRAM
 DONE!

PROGRESSIVE PERIPHERALS & SOFTWARE INC.

PERPLEXIAN CHALLENGE (TM)

MAKE A COPY OF THE ORIGINAL.
 LOAD & EXECUTE TRACK & SECTOR EDITOR.
 MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
 17	00	 73	00	04

4. DONE!

PROTECTION

THE JMP \$6000 IN FILE "LODR" WAS CHANGED TO JMP \$6004. THIS JUMPS THE ERROR CHECKING ROUTINE.

### DISK \_\_\_\_\_

#### PRO-LINE SOFTWARE

WORDPRO 64 (TM) \_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
20	02	E1	A9	4C
20	02	E2	ΟF	A4
20	02	EЗ	A2	03
5. ENTER	THE FOLLOW	ING CODE	I'O REPLACE	THE BOOT
10 A=A+1				
20 ON A	GOTO 30,40	,50,60,7	0,80	
30 PRINT	"[CLEAR SC	REEN]	LOADING	."
40 LOAD"	WP64",8,1			
50 LOAD"	LINK",8,1			

60 LOAD"DEFAULT MODULE",8,1 70 LOAD"ANTIPROTECTION", 8, 1

80 SYS4096

6. SAVE"WPBOOT",8 7. LOAD ORIGINAL PROGRAM 8. RESET THE COMPUTER AFTER IT IS LOADED 9. LOAD"HIMON", 8, 1 AND SYS49152 10. INSERT CLONE DISK 11. T 2666 26C9 033C 12. USE THE 'M' COMMAND TO CHANGE THE FOLLOWING CODE:

### ADDRESS REPLACE WITH

\_\_\_\_\_ 
 03A4
 A0
 64
 B9
 3C
 03
 99
 66
 26

 03AC
 88
 10
 F7
 60
 5
 5

13. S"ANTIPROTECTION", 08, 033C, 03B0 14. YOU'RE DONE!!

# PROTECTION

\_\_\_\_\_

THE PROCEDURE ABOVE BUILDS A FILE CALLED ANTIPROTECTION WHICH CONTAINS CODE LOADED FROM A EXTRA SECTOR (STEP 10). THE PROGRAM IS MODIFIED TO JMP \$03A4 (STEP 3) IN PLACE OF LOADING SECTOR.

DISK

# RANDOM HOUSE INC.

\_\_\_\_\_

PROTECTION

\_\_\_\_\_

THE FOLLOWING PROGRAMS SHARE THE SAME PROTECTION SCHEME. THE KERNAL 'CHRIN' ROUTINE \$FFCF IS REPLACE BY A 'LDA #\$01' AND A 'NOP'. THE PROGRAM CHECKS FOR A SYNC ON A TRACK ABOVE 35.

ALPINE ENCOUNTER (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
07	10	08	20	EA
03	18	09	CF	A9
03	18	0A	FF	01

4. DONE!

PEANUT'S MAZE MARATHON (TM)

------

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

SIDE 1

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
03	18	в0	20	EA
03	18	В1	CF	A9
03	18	В2	FF	01
SIDE 2				
TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
07	03	B1	20	EA
07	03	В2	CF	A9
07	03	B3	FF	01

SNOOPY READING MACHINE (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

SIDE 1 TRACK	SECTOR	BYTE	OLD DATA	NEW DATA		
34 34 34	13 F 13 F 05 0		20 CF FF	EA A9 01		
SIDE 2 TRACK	SECTOR	BYTE	OLD DATA	NEW DATA		
35 35 35 35	35 12 35 12 35 12 35 04		20 CF FF	EA A9 01		

4. DONE!

SNOOPY'S SKYWRITER SCRAMBLER (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

SIDE 1

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA	
26 26 26	06 06 06	0F 10 11	20 CF FF	EA A9 01	
SIDE 2 TRACK	SECTOR	BYTE	OLD DATA	NEW DATA	
21 21 21	02 02 02 02	0F 10 11	20 CF FF	EA A9 01	

SNOOPY TO THE RESCUE (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

SIDE 1 TRACK	SECTOR	BYTE	OLD DATA	NEW DATA	
26 26 26	6 17 6 17 6 17 6 08		20 CF FF	EA A9 01	
SIDE 2 TRACK	SECTOR	BYTE	OLD DATA	NEW DATA	
25 04 25 04 25 04 25 09		FE FF 02	20 CF FF	EA A9 01	

4. DONE!

### READER'S DIGEST

NURSERY RHYMES (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. DONE, NO PROTECTION.

### RELIABLE SOFTWARE

YAHTZEE (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
15	00	CE	02	00

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RESEARCH IN SPEECH TECHNOLOGY INC. (RIST)

EASY SPEECH - 64 (TM)

-----

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
14	05	св	0F	 FF
14	05	CC	A8	8 D
14	05	)5 CD A2		ЗE
14	05	CE	08	CO
14	05	CF	20	60

4. DONE!

## RESTON

MOVIE MAKER (TM)

MAKE A COPY OF THE ORIGINAL.
 LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA	
 16	09	4E	D0	 ЕА	
16	09	4F	2A	EA	
20	07	D7	DO	EA	
20	07	D8	2A	EA	
13	07	ЗA	DO	EA	
13	07	3B	2A	EA	
23	10	E8	DO	EA	
23	10	EB	2A	EA	

4. DONE!

PROTECTION

THE ERROR CHECKING IS DONE IN 4 FILES (MM1-MM4). THE 'BNE' COMMANDS FOLLOWING THE ERROR CHECKING ROUTINES ARE 'NOP'D'.

#### RIAHANNON SOFTWARE

\_\_\_\_\_

JENNY OF THE PRARIE (TM)

------

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
7	18	92	32	30

4. DONE!

PROTECTION FILE: "SUBS" FILE STARTS \$C300 ENDS AT \$CDE4 PROTECTION CODE STARTS \$C600 CHANGE CODE AT \$C946 \$32 to \$30

### SCARBOROUGH

NET WORTH (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	10	67	84	41
17	10	68	31	В2
17	10	69	2C	32
17	10	6A	41	33

4. DONE!

### PROTECTION

\_\_\_\_\_

LINE 8 OF BASIC FILE "NW" WAS CHANGED FROM 'INPUT#1,A\$' AREA IN RAM AS THE PROGRAM EXPECTED TO READ ERROR 23 FROM DRIVE. THE VARIABLE 'A\$' FROM RAM IS CHECKED LATER FROM ML PROGRAM. (THE VARIBLE AREA OF RAM IMIDIATELY FOLLOWS THE BASIC PROGRAM).

\_\_\_\_\_ PHI BETA FILER (TM) \_\_\_\_\_ 1. MAKE COPY OF ORIGINAL 2. LOAD"PHI", 8 AND LIST 3. EDIT LINE 0 WHERE 6 AND 8 REMOVE BOTH AND PLACE 8 WHERE 6 WAS. REMOVE LINES 6 & 7. EDIT LINE 9 OVERWRITE SYS16384 4. SAVE"@0:PHI", 8 AND PRESS 'RETURN' 5. LOAD"HIMON", 8,1 AND SYS49152 6. L"PHIPROG",08 NOW REPLACE THE CODE BELOW WITH THE 'M' COMMAND. ADDRESS REPLACE WITH \_\_\_\_\_ 500D AD 66 09 (OLD) A9 38 EA (NEW) 500D 7. S"@0:RFMPROG",08,4000,8FFF (SCRATCH AND REPLACE) 8. DONE! RUN FOR MONEY (TM) V1 \_\_\_\_\_ 1. MAKE COPY OF ORIGINAL 2. LOAD"RFM", 8 AND LIST 3. EDIT LINE 0 WHERE 7 AND 9 REMOVE BOTH AND PLACE 9 WHERE 7 WAS. REMOVE LINES 7 & 8. EDIT LINE 10 OVERWRITE SYS16384 4. SAVE"@0:RFM",8 AND PRESS 'RETURN' 5. LOAD"HIMON", 8,1 AND SYS49152 6. L"RFMPROG",08 NOW REPLACE THE CODE BELOW WITH THE 'M' COMMAND. ADDRESS REPLACE WITH \_\_\_\_\_

5BD4AD7D09(OLD)5BD4A938EA(NEW)

7. S"@0:RFMPROG",08,4000,8FFF (SCRATCH AND REPLACE)

SONGWRITER (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

	DIREC	TORY REP	PAIR		
TRACK	SECTOR	BYTE	OLD DATA	NEW DATA	
 18 18	 13 13	00 01	12 10	 00 FF	
TRACK	FILE SECTOR	: "START BYTE	2" REPAIR OLD DATA	NEW DATA	
18 18 18	01 01	42 43	00 00	82 13	
TRACK	PROT SECTOR	ECTION R BYTE	REMOVED OLD DATA	NEW DATA	
17 17 17	00 00	00 01	11 01	00 <- MAKES LOADING D9 AND NO CROSSI	G FASTER LINK ERR

ALTERNATE WAY: BYTE 8F to 9C FILL WITH EA'S.

SCHOLASTIC SOFTWARE

AGENT U.S.A. (TM)

1. LOAD"HIMON",8,1 AND SYS49152

2. INSERT ORIGINAL DISK AND LOAD":\*",8,1

3. M 02DB 00

4. EXIT MONITOR (PROGRAM WILL AUTOMATICALLY BEGIN TO LOAD)

5. WHEN THE COMPUTER RETURNS TO READY, SYS49152

6. S"US.OBJ",08,0801,751A (SAVE CODE IN SUPERBOOTERR FORMAT)

- 7. BUILD A BOOT TO SYS 2064
- 8. DONE!

POSTER (TM)

MAKE A COPY OF ORIGINAL
 LOAD"LOMON",8,1 AND SYS32768 (ON ARCHIVER DISK)
 PUT COPY IN DRIVE AND L"F",08
 F 5708 57A9 EA
 S"@0:F",08,0801,5800
 DONE!

SPELL DIVER (TM)

1. MAKE A COPY OF ORIGINAL

2. PUT ORIGINAL BACK IN DRIVE AND LOAD IT, ONCE THE SPELLDRIVER LOGO SHOWS ON SCREEN AND DRIVE LIGHT OUT YOU PRESS THE RESET BUTTON.

\_\_\_\_\_

- 3. PUT ARCHIVER DISK IN AND LOAD"HIMON",8,1 AND SYS49152
- 4. PUT COPY IN DRIVE AND M 0800 20 (THIS NOW BYPASSES PROTECTION).
- 5. S"@0:S",08,0800,C000 (SCRATCH AND REPLACE)
- 6. DONE!

SCREENPLAY

POGO JOE (TM)

1. COPY THE FOLLOWING FILES ONLY:

POGO JOE.OBJ POGO DATA.OBJ HIGH SCORES POGO JOE

2. YOU'RE DONE!!

SEGA

CONGO BONGO (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	01	E2	D0	EA
17	01	E3 03		EA
17	01 DB D0		D0	EA
17	01	DC	0A	EA

4. DONE!

PROTECTION

\_\_\_\_\_

THIS PROTECTION WASN'T TO HARD TO FIND, WE FOUND IT IN THE BOOT FILE "CHKDISK" AND NOP'ED THE (2) 'BNE' FOLLOWING CMP #\$32 AND CMP #\$31 (ERROR 21 IN PEC ASCII).

SPY HUNTER (TM)

1. COPY THE LAST FILE ON DISK IT SHOULD BE 81 BLOCKS LONG.

- 2. RENAME THE FILETO "SH.OBJ" (SUPERBOOTER FORMAT)
- 3. USE SUPERBOOTER TO BUILD A BOOT FLIP OUT BASIC AND SYS28801

SUPER ZAXXON (TM)

\_\_\_\_\_

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA		
18	01	25	00	54		
18	01	26	00	41		
18	01	27	00	58		
18	01	45	00	5A		
18	01	46	00	41		
18	01	65	00	5A		
17	11	02	91	DO		
17	11	03	D2	05		
17	00	04	00	5A		
17	00	05	00	41		
17	0.0	06	0.0	58		

4. LOAD"HIMON", 8,1 AND SYS49152

<sup>5.</sup> TO DECODE PROTECTION ROUTINE & INSERT A BRK INTO THE ROUTINE, ASSEMBLE THE FOLLOWING CODE:

7000	LDY	#\$0E					
7002	LDA	\$1A32,Y	:DECO	DE	ROUTIN	ΙE	
7005	EOR	\$1A31,Y					
7008	STA	\$1A32,Y					
700B	INY						
700C	СРҮ	#\$C1					
700E	BNE	\$7002					
7010	LDA	#\$00	:INSE	RT	'BRK'	СС	MMAND
7012	STA	\$1ABE					
7015	JMP	\$1A41	:RUN ]	PRC	TECTIC	N	ROUTINE

6. INSERT CLONE DISK.
7. LOAD"Z",8,1
8. INSERT ORIGINAL DISK
9. G 7000
10. PROGRAM SHOULD RETURN TO READY AFTER DECODING AND READING DATA FROM DRIVE.
11. INSERT CLONE DISK.
12. SYS49152 :RE-ENTER MONITOR
13. S"Z",08,0800,2D00 :SAVE BROKEN PROGRAM TO DISK.
14. DONE!

PROTECTION

\_\_\_\_\_

THE ABOVE PROCEDURE RENAMES DISK FILES TO Z,ZA,ZAX, READS EXTRA SECTOR AND REMOVES DONGLE CHECK SO AN ARCHIVAL BACKUP CAN BE MADE.

-----

UP'N DOWN (TM)

\_\_\_\_\_

MAKE A COPY OF THE ORIGINAL.
 OPEN15,8,15,"S0:AUTOLOAD":CLOSE15
 OPEN15,8,15,"R0:UD.OBJ=0:LOADER":CLOSE15
 USE SUPERBOOTER TO BUILD A BOOT TO LOAD "UD.OBJ" AND SYS18176
 DONE!

### SEQUENTIAL CIRCUITS

MODEL 964 (TM) (SEQUENCER)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	01	 EE	14	00

4. DONE!

MODEL 970 (TM) (MUSICMATE)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	 ∩1	33	 1 Л	
1 /	01	55	14	00

4. DONE!

### SIERRA-ON-LINE INC.

C64 WIZTYPE (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
20	00	04	20	 ЕА
20	00	05	В4	EA
20	00	06	7A	EA
20	00	FF	20	EA
20	10	02	12	EA
20	10	03	7D	EA

ARCI	HIVER									DISK
THE TO 'COI	FOLLO BYPASS MPARES	DWING FIVE, ( 5 THE PROTECT 5' WERE CHANG	6) PRO ION, E ES FRO	GRAMS ( ITHER 1 M A \$32	CHECK E THE 'BE 2 TO A	'OR A REZ RANCHES' \$30.	AD ERRO WERE N	R OP	AND CME 'ED, OE	? #\$32. R THE
MIC:	KEY'S	SPACE ADVENT	URE (T)	M) 						
1. 2. 3.	MAKE LOAD MAKE	A COPY OF TH & EXECUTE TR THE FOLLOWIN	E ORIG ACK & G CHAN	INAL. SECTOR GES TO	EDITOF THE CC	R. OPY WITH	TRACK	æ	SECTOR	EDITOR:
	TRACK	SECTOR	BYTE 	OLD	DATA	NEW D2	ATA 			
	18	02	1A	32	2	30				
4. 5.	COPY YOU'H	DISKS B, C, RE DONE	AND D	(THEY I	OON'T C	CONTAIN	ERRORS)			
MIS	SION A	ASTEROID (TM)								
1. 2. 3.	MAKE LOAD MAKE	A COPY OF TH & EXECUTE TR THE FOLLOWIN	E ORIG ACK & G CHAN	INAL. SECTOR GES TO	EDITOF THE CC	R. OPY WITH	TRACK	æ	SECTOR	EDITOR:
ŗ	TRACK	SECTOR	BYTE	OLD	DATA	NEW DA	ATA			
	18	02	1A	32	2	30				
4.	DONE	!								
OIL	WELL	(TM)								
1. 2. 3.	MAKE LOAD MAKE	A COPY OF TH & EXECUTE TR THE FOLLOWIN	E ORIG ACK & G CHAN	INAL. SECTOR GES TO	EDITOF THE CC	R. OPY WITH	TRACK	æ	SECTOR	EDITOR:
ŗ	TRACK	SECTOR	BYTE	OLD	DATA	NEW DA	ATA			
	18 18	02 02	1B 1C	D( 6(	 ) C	EA EA				
4.	DONE	!								
QUE	ST FOI	R TIRES (TM)								
1. 2. 3.	MAKE LOAD MAKE	A COPY OF TH & EXECUTE TR THE FOLLOWIN	E ORIG ACK & G CHAN	INAL. SECTOR GES TO	EDITOF THE CC	R. OPY WITH	TRACK	æ	SECTOR	EDITOR:
ŗ	TRACK	SECTOR	BYTE	OLD	DATA	NEW DA	ATA			
	18 18	02 02	1B 1C	D( 6(	 ) C	EA EA				

ARCHIVER DISK \_\_\_\_\_ ULYSSES (TM) -----1. MAKE A COPY OF THE ORIGINAL. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA -----17 17 1A 32 30 4. DONE! WIZARD AND THE PRINCESS (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR: NEW DATA TRACK SECTOR BYTE OLD DATA ------02 32 18 1A 30 VERSION 2 \_\_\_\_\_ 18 02 1C 32 - 30 4. DONE! SIGHT & SOUND INCREDIBLE MUSIC KEYBOARD (TM) 1. MAKE A COPY OF THE ORIGINAL 2. YOU'RE DONE (NO PROTECTION) KAWASAKI COMPOSER (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_\_\_\_\_ 12 FD 8D 25 60 4. DONE!

KAWASAKI PERFORMER (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
19	00	04	A9	60

4. YOU'RE DONE!

MUSIC PROCESSOR (TM)

-----

PROTECTION FILE FOR V1/V2: "MP BIN"

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
25	01	E2	в9	A9
25	01	E3	CC	29
25	01	E4	68	EA
25	01	E5	8 D	60

4. DONE!

MUSIC PROCESSOR (TM) V2

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
24	01	8C	C9	A9
24	01	8 E	FO	8 D
24	01	8 F	01	ΕO
24	01	90	42	68
24	01	7C	С9	A9
24	01	7E	FO	8 D
24	01	7F	01	E1
24	01	80	22	68
24	01	81	4C	EA
24	01	82	D4	EA
24	01	83	67	EA

MUSIC VIDEO KIT (TM) (NEEDS FINISHED)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
12	00		в9	A9
12	00		0 B	29
12	00		66	EA
13	16		69	60

4. DONE!

MUSIC VIDEO KIT (TM) V2

\_\_\_\_\_

\_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL

- 2. LOAD"HIMON", 8,1 AND SYS49152
- 3. L"MVK1",08
- 4. USE THE 'M' COMMAND TO CHANGE THE FOLLOWING BYTES:

ADDRESS REPLACE WITH

16AF 16AF	AD A9	09 02	17 8D	C9 08	02 17	F0 EA	04 EA	22 EA	4C EA	CF EA	15 EA	(OLD) (NEW)
16BF 16BF	AD A9	08 29	17 8D	C9 08	29 17	F0 EA	01 EA	42 EA	(01 (NE	LD) EW)		
7D72 7D72	AD A9	FE 29	7E 8D	C9 FE	29 7E	F0 EA	01 EA	22 EA	(OI (NE	LD) EW)		

- 5. S"@0:MVK1",08,0800,945E
- 6. L"MVK2",08

ADDRESS REPLACE WITH

 1717
 AD
 5B
 17
 C9
 02
 F0
 04
 22
 4C
 37
 16
 (OLD)

 1717
 A9
 02
 8D
 5B
 17
 EA
 EA

7. S"@0:MVK2",08,0800,9C90

8. YOU'RE DONE!!

DISK

ON STAGE ALBUM # 4 (TM)

PROTECTION FILE: "ALBIN"

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
13	08	С5	С9	A9
13	08	С7	FO	8 D
13	08	C8	01	1F
13	08	С9	42	66
13	08	В9	22	EA
13	08	BA	4C	EA
13	08	BB	13	EA
13	08	BC	65	EA

4. DONE!

SIGHT & SOUND (TM)

------

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
10	06	 01		 60
19	06	$\angle \perp$	AZ	60

4. DONE!

SIRIUS SOFTWARE INC.

BLADE OF BLACKPOOLE (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
16	05	53	90	EA
16	05	54	0 D	EA
16	05	5A	DO	EA
16	05	5B	06	EA

CRITICAL MASS (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK SECTO	DR BYTE	OLD DATA	. NEW DATA
17 00	6C	20	EA
17 00	6D	78	EA
17 00	6E	08	EA

4. DONE!

SKYLES ELECTRIC WORKS INC.

BLITZ (TM)

- 1. MAKE A COPY OF THE ORIGINAL
- 2. LOAD"HIMON", 8,1 AND SYS49152
- 3. L"BLITZ",08
- 4. USE THE 'M' COMMAND TO CHANGE THE FOLLOWING BYTES:

ADDRESS REPLACE WITH

432B EA EA EA

5. S"@0:BLITZ",08,0801,4E9C

6. YOU'RE DONE!!

BUSICALC III (TM)

-----

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
14	14	9C	52	D1
14	14	9D	ΟF	D9
14	14	9E	F5	4B

4. DONE!

PROTECTION

\_\_\_\_\_

FILE 'C' WAS COMPILED USING PETSPEED (TM). A GOTO (D1) WAS INSERTED IN PLACE OF THE OPEN STATEMENT TO BYPASS PROTECTION ROUTINES.

#### SOFTLAW INC.

\_\_\_\_\_

VIP TERMINAL (TM)

- 1. MAKE A COPY OF THE ORIGINAL. 2. RUN UNWRITE PROTECT (ON ARCHIVER DISK)
- 2. KON ONWRITE TROTEET (ON MICHTVER DIDR
- 3. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 4. Make the following changes to the copy with track  $\ensuremath{\&}$  sector editor:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
19	00	07	32	30
19	00	13	32	30
19	01	7B	20	4c
19	01	7C	27	EC
19	01	7D	1A	18
19	01	C4	32	30
19	01	DO	33	30
18	00	02	41	01

5. DONE

# VIP TERMINAL X/L (TM)

-----

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. RUN UNWRITE PROTECT (ON ARCHIVER DISK)
- 3. LOAD & EXECUTE TRACK & SECTOR EDITOR.

4. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	07	50	 6A	50
17	07	51	BF	50
18	00	02	41	01

5. DONE

PROTECTION

TRACK 17,7 CONTAIN THE DRIVE CODE USED IN THE PROTECTION OF THIS PROGRAM (B-E). THE PROGRAM IS ENCRYPTED (EOR #\$BA), WE CHANGED 'BNE' COMMAND (6A,BF) TO NOP (50,50) AND WRITE PROTECTED DISK (41 TO 01)

### SOFTWARE MASTERS

THE VISABLE COMPUTER (TM)

_	-	_	_	_	_	—	_	—	_	—	_	—	_	_	—	_	—	_	_	_	_	_	_		

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
 17	00	94	 89	8F

4. DONE!

DISK

INAL. ARCHIVER DISK) SECTOR EDITOR. GES TO THE COPY WITH T OLD DATA NEW DAT 6A 50 BF 50 41 01

#### SPINNAKER INC.

\_\_\_\_\_

CERTIFICATE MAKER (TM)

------

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
20	10	 EF	20	EA
20	10	FO	53	EA
20	10	F1	83	EA

4. DONE!

HOME WORK HELPER MATH (TM)

- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK SE	ECTOR E	SYTE OL	D DATA N	EW DATA
				00
05	00	FC	23	

4. DONE

KIDS ON KEYS (TM)

- 1. FORMAT A BLANK DISK
- 2. INSERT THE ORIGINAL AND LOAD IT
- 3. WHEN THE PROGRAM REACHES THE MAIN MENU, PRESS 'RUN/STOP' AND RESTORE
- 4. INSERT THE FORMATTED DISK AND SAVE"KIDS ON KEYS",8
- 5. TO RUN THE PROGRAM, LOAD"KIDS ON KEYS", 8 AND RUN
- 6. YOU'RE DONE!

WORD CHALLENGE (TM)

FORMAT A BLANK DISK
 LOAD"HIMON",8,1
 LOAD"START",8 FROM ORIGINAL AND SYS49152
 USE 'M' COMMAND AND REPLACE CODE:

4. USE 'M' COMMAND AND REPLACE COD

# ADDRESS REPLACE WITH

084A	00	С5	(OLD)
084A	85	8 0	(NEW)

5. X TO EXIT AND SAVE"START",8 TO THE BLANK DISK6. FILE COPY THE REMAINING FILES TO THAT BLANK DISK7. NOW IT SHOULD LOAD AND RUN. YOU'RE DONE!

#### SPRINGBOARD

\_\_\_\_\_

STICKERS (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	05	59	32	30
17	05	60	39	30

4. DONE!

THE FOLLOWING SEVEN (7) PROGRAMS ARE WRITTEN IN BASIC. THE BASIC TOKENS ARE CHANGED FROM GOTO TO (09), GOGUB (8D), AND ETC. TO REM (8F). (SOME PROGRAMS WE CHANGE VALUES COMPARED).

STRATEGIC SIMULATIONS INC.

BATTLE FOR NORMANDY (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. RUN DIRECTORY REPAIR (ON ARCHIVER DISK)

3. LOAD & EXECUTE TRACK & SECTOR EDITOR.

4. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
				0.5
24	$\perp$ /	DA	8 D	8 F.

5. DONE!

EAGLES (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. RUN DIRECTORY REPAIR (ON ARCHIVER DISK)

3. LOAD & EXECUTE TRACK & SECTOR EDITOR.

4. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	08	 A6	 8D	 8F
ARCHIVER DISK \_\_\_\_\_ GEOPOLITIQUE (TM) ------1. MAKE A COPY OF THE ORIGINAL. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 17 00 3C 31 30 4. DONE! GERMANY 1985 (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. YOU'RE DONE! NOTE: THE INTENEDED PROTECTION WAS IN LINE 5 OF FILE P. THE AUTHOR MADE A MISTAKE AND DIDN'T REMOVE LINE 2 WHICH WAS USED TO BYPASS THE PROTECTION. KNIGHTS OF THE DESERT (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 22 05 78 8D 8 F 4. DONE! PROFESSIONAL TOUR GOLF (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 11 71 11 71  $4 \,\mathrm{E}$ 4 F 17 17 4F4E4. DONE!

ARCHIVER DISK \_\_\_\_\_ RINGSIDE (TM) -----1. MAKE A COPY OF THE ORIGINAL. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 17 03 1B 34 36 4. DONE! SUBLOGIC FLIGHT SIMULATOR II (TM) \_\_\_\_\_ NOTE: SCENERY DISK (SCENERY NAME EMBEDDED AT TRACK 14 SECTOR 4) PROTECTIONS ON TRACK 3 SECTOR 0-20 (THIS CAN BE CLEARED (SUBZEROED) AND REMOVED FROM BAM). FLIGHT SIMULATOR II (TM) \_\_\_\_\_ 1. MAKE A COPY OF THE ORIGINAL. 2. LOAD & EXECUTE TRACK & SECTOR EDITOR. 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR: TRACK SECTOR BYTE OLD DATA NEW DATA \_\_\_\_\_ 05 3B 21 00 01 4. DONE! NIGHT MISSION PINBALL (TM) \_\_\_\_\_ 1. FORMAT A BLANK DISK 2. LOAD"ZIP", 8, 1 (ON ARCHIVER DISK) 3. INSERT ORIGINAL AND LOAD"\*",8,1 4. WHEN THE MENU APPEARS, SELECT 'REGULAR MODE'. DON'T PLAY! 5. RESET THE COMPUTER 6. LOAD"HIMON", 8,1 AND SYS49152 7. M 0001 CHANGE 37 TO 36 (FLIP-OUT BASIC) 8. S"MM.OBJ",08,0800,B098 (SUPERBOOTER FORMAT) 9. USE SUPERBOOTER TO BUILD A BOOT TO FLIP-OUT BASIC AND SYS2560 10. YOU'RE DONE!

#### SUNBURST COMUNICATIONS

MEMORY BUILDING BLOCKS (TM)

------

- 1. FORMAT A BLANK DISK
- 2. COPY THE FILES FROM ORIGINAL TO THE FORMATED DISK
- 3. LOAD"SBLSOGOB",8
- 4. LIST LINE 15051. THE LINE SHOULD LOOK LIKE THIS:

FORD=4T04000:NEXTDL:IFA\$<SB>THENSYSAA

5. THEN 'SYS' MUST BE REMOVED, BUT THE LENGTH OF THE LINE MUST REMAIN THE SAME. CHANGE THE LINE TO READ:

FORD=4T04000:NEXTDL:IFA\$<SB>THENREMAA

- 6. SAVE"@0:SBLSOGOB",8
- 7. DONE!

THE FACTORY (TM) \_\_\_\_\_

1. FORMAT A BLANK DISK

- 2. COPY THE FILES FROM ORIGINAL TO THE FORMATED DISK
- 3. LOAD"SBLHOGOS",8
- 4. LIST LINE 15055. THE LINE SHOULD LOOK LIKE THIS:

FORD=4T04000:NEXTDL:IFA\$<SB>THENSYSAA

5. THEN 'SYS' MUST BE REMOVED, BUT THE LENGTH OF THE LINE MUST REMAIN THE SAME. CHANGE THE LINE TO READ:

FORD=4T04000:NEXTDL:IFA\$<SB>THENREMAA

- 6. SAVE"@0:SBLHOGOS",8 7. DONE!

TRI MATH (TM)

\_\_\_\_\_

- 1. FORMAT A BLANK DISK
- 2. COPY THE FILES FROM ORIGINAL TO THE FORMATED DISK
- 3. LOAD"SBLHOGOS",8
- 4. LIST LINE 15055. THE LINE SHOULD LOOK LIKE THIS:

FORD=4T04000:NEXTDL:IFA\$<SB>THENSYSAA

5. THEN 'SYS' MUST BE REMOVED, BUT THE LENGTH OF THE LINE MUST REMAIN THE SAME. CHANGE THE LINE TO READ:

FORD=4T04000:NEXTDL:IFA\$<SB>THENREMAA

6. SAVE"@0:SBLHOGOS",8

7. DONE!

#### SURFER MAGAZINE

SURFER (TM)

- -----
- 1. MAKE A COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
02	02	61	В3	9F

4. DONE!

PROTECTION

\_\_\_\_\_

THIS PROGRAM HAS DECRYPTION BYTE 'B3' = 4C JMP AFTER DECRYPTION SO WE PUT '9F' = 60 RTS. THE JUMP TO THE PROTECTION ROUTINE WAS ABORTED.

SYNAPSE INC.

AIR SUPPORT (TM)

- 1. THIS PROGRAM REQUIRES A SWITCHABLE EXPANDER BOARD
- 2. TYPE THE FOLLOWING BASIC BOOT AND SAVE TO A FORMATTED DISK: 10 A=A+1:ON A GOTO20,30,40 20 LOAD"AS.OBJA",8,1
  - 30 LOAD"AS.OBJB",8,1 40 SYS2314
  - 40 5152514
- 3. INSERT ORIGINAL DISK AND LOAD":\*",8,1
- 4. WHEN PROGRAM IS LOADED, OPERATE EXROM SWITCH ON EXPANDER BOARD, HIT RESET, AND RELEASE EXROM SWITCH
- 5. LOAD"HIMON", 8,1 AND SYS49152
- 6. INSERT FORMATTED DISK AND SAVE"AS.OBJA",08,0900,9801
- 7. L"MOVEKERNAL\$1000",08 AND TYPE G 1000 (THIS TRANSFERS PROGRAM AT \$E000-\$FFFF TO \$2000)
- 8. S"AS.OBJB",08,2000,4000
- 9. F 0800 BFFF 00 AND TYPE G FCE2
- 10. LOAD"CHANGE LOADADDR",8 AND RUN CHANGE AS.OBJB LOAD ADDRESS FROM 8192 TO 57344

<sup>11.</sup> DONE!!

BREAKERS (TM)

THIS TYPE USES OFF DISK PROTECTION. WHEN THIS PARAMETER IS DONE YOU CAN WHEN IT ASK FOR PASSWORD ON THE FOURTH WRONG WORD IT WILL BEGIN. YOU DON'T NEED TO TYPE A WORD JUST PRESS THE 'RETURN' KEY 4 TIMES.

\_\_\_\_\_

MAKE A COPY OF ALL ORIGINALS
 LOAD"HIMON",8,1 AND SYS49152 (ON ARCHIVER DISK)
 TAKE SIDE ONE 'COPY' INSERT IT IN DRIVE
 L"B",08
 USE THE 'M' COMMAND TO CHANGE THE FOLLOWING BYTES:

ADDRESS REPLACE WITH

-----

0835	6C	FC	FF	(OI	LD)						
0835	4C	E2	09	(NE	EW)						
09E2	00	00	00	00	00	00	00	00	00	00	(OLD)
09E2	Α9	FC	8 D	37	08	Α9	2C	85	01	60	(NEW)

6. S"@0:B",08,0800,4FFF
7. YOU'RE DONE!!

BRIMSTONE (TM)

THIS TYPE USES OFF DISK PROTECTION. WHEN THIS PARAMETER IS DONE YOU CAN WHEN IT ASK FOR PASSWORD ON THE FOURTH WRONG WORD IT WILL BEGIN. YOU DON'T NEED TO TYPE A WORD JUST PRESS THE 'RETURN' KEY 4 TIMES.

MAKE A COPY OF ALL ORIGINALS
 LOAD"HIMON",8,1 AND SYS49152 (ON ARCHIVER DISK)
 TAKE SIDE ONE 'COPY' INSERT IT IN DRIVE
 L"B",08
 USE THE 'M' COMMAND TO CHANGE THE FOLLOWING BYTES:

ADDRESS REPLACE WITH

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 0B68
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6. S"@0:B",08,0800,4FFF
7. YOU'RE DONE!!

DOUGHBOY (TM)

1. THIS PROGRAM REQUIRES A SWITCHABLE EXPANDER BOARD 2. INSERT ORIGINAL DISK AND LOAD":\*",8,1 3. WHEN THE BLUE TEXT BEGINS TO FLASH, ACTIVATE EXROM, PRESS RESET, DE-ACTIVATE EXROM 4. LOAD"SAVEALL\*",8,1 5. INSERT ORIGINAL, POKE52713,60:POKE52714,3:SYS52480 6. INSERT DESTINATION WHEN REQUESTED AND PRESS RETURN (SAVEALL SAVES CODE FROM \$0800-\$D000 AND THEN RESETS COMPUTER) 7. REPEAT STEPS 2-6. USING FILE "MOVEKERNAL" IN STEP 4 8. LOAD"HIMON", 8,1 AND SYS49152 9. INSERT DESTINATION DISK, S"DB.OBJB",08,2000,4000 10. F 0800 BFFF 00 AND G FCE2 11. LOAD"CHANGE LOADADDR", 8 AND RUN 12. OPEN15,8,15,"R0:DB.OBJA=0:XX.OBJ" 13. USE SUPERBOOTER TO BUILD A BOOT FOR 2 PROGRAMS, FLIP-OUT BASIC AND SYS34144 14. SYS49152 AND L"DOUGHBOY",08 15. USE THE 'M' COMMAND TO MAKE THE FOLLOWING CHANGES: ADDRESS REPLACE WITH \_\_\_\_\_ 02C4 A2 F6 9A 16. S"@0:DOUGHBOY",08,02A7,0304 17. DONE! ESSEX (TM) \_\_\_\_\_ THIS TYPE USES OFF DISK PROTECTION. WHEN THIS PARAMETER IS DONE YOU CAN WHEN IT ASK FOR PASSWORD ON THE FOURTH WRONG WORD IT WILL BEGIN. YOU DON'T NEED TO TYPE A WORD JUST PRESS THE 'RETURN' KEY 4 TIMES. 1. MAKE A COPY OF ALL ORIGINALS 2. LOAD"HIMON",8,1 AND SYS49152 (ON ARCHIVER DISK) 3. TAKE SIDE ONE 'COPY' INSERT IT IN DRIVE 4. L"B",08 5. USE THE 'M' COMMAND TO CHANGE THE FOLLOWING BYTES: ADDRESS REPLACE WITH \_\_\_\_\_ 0B68 6C FC FF (OLD) 0B68 4C E2 12 (NEW) 12E2 00 00 00 00 00 00 00 00 00 00 (OLD) 12E2 A9 FC 8D 6A 0B A9 2D 85 01 60 (NEW) 6. S"@0:B",08,0800,4FFF 7. YOU'RE DONE!!

DISK

MINDWHEEL (TM) \_\_\_\_\_ THIS TYPE USES OFF DISK PROTECTION. WHEN THIS PARAMETER IS DONE YOU CAN WHEN IT ASK FOR PASSWORD ON THE FOURTH WRONG WORD IT WILL BEGIN. YOU DON'T NEED TO TYPE A WORD JUST PRESS THE 'RETURN' KEY 4 TIMES. 1. MAKE A COPY OF ALL ORIGINALS 2. LOAD"HIMON", 8, 1 AND SYS49152 (ON ARCHIVER DISK) 3. TAKE SIDE ONE 'COPY' INSERT IT IN DRIVE 4. L"B",08 5. USE THE 'M' COMMAND TO CHANGE THE FOLLOWING BYTES: ADDRESS REPLACE WITH \_\_\_\_\_ 0B68 6C FC FF (OLD) 0B68 4C E2 12 (NEW) 
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 0 6. S"@0:B",08,0800,4FFF 7. YOU'RE DONE!! NECROMANCER (TM) \_\_\_\_\_ 1. THIS PROGRAM REQUIRES A SWITCHABLE EXPANDER BOARD 2. INSERT BOARD INTO CARTRIDGE SLOT (ONLY WHEN THE COMPUTER IS OFF) 3. FORMAT A DISK 4. LOAD"HIMON", 8,1 AND SYS49152 5. F A000 BFFF 00 (CLEAR COMPUTER MEMORY) 6. G FCE2 (RESET MEMORY) 7. INSERT ORIGINAL AND LOAD":\*",8,1 8. WHEN GAME BEGINS TO LOAD & SCREEN TURNS DARK, ACTIVATE EXROM SWITCH. 9. AFTER DRIVE STOPS, DEPRESS RESET BUTTON 10. DE-ACTIVATE EXROM SWITCH 11. POKE33511,189 AND SYS34523 12. AFTER GAME IS LOADED, THE PROGRAM WILL JUMP TO THE MONITOR 13. USE THE 'M' COMMAND TO MAKE THE FOLLOWING CHANGES: ADDRESS REPLACE WITH \_\_\_\_\_ 0001 37 1000 20 31 5D 00 14. G 1000 15. ACTIVATE EXROM SWITCH, PRESS RESET BUTTON, DE-ACTIVATE EXROM 16. SYS 49152 17. USE THE 'M' COMMAND TO MAKE THE FOLLOWING CHANGE: ADDRESS REPLACE WITH ------5D31 60 A9 50 8D 01 D4 A9 FF 8D 1600 1608 03 DD A9 5A 8D 01 DD A2 1610 BD 9A 58 A9 1B 8D 11 DO 1618 4C 00 3C 18. INSERT DESTINATION DISK 19. S"NM.OBJ",08,1600,7400 20. USE SUPERBOOTER TO BUILD A BOOT TO LOAD NM.OBJ AND SYS 5632 21. YOU'RE DONE!!

NEW YORK (TM)

1. THIS PROGRAM REQUIRES A SWITCHABLE EXPANDER BOARD 2. INSERT ORIGINAL AND LOAD":\*",8,1 3. WHEN PROGRAM HAS LOADED, ACTIVATE EXROM, PRESS RESET 4. DE-ACTIVATE EXROM 5. LOAD"SAVEALL\*",8,1 AND SYS828 6. INSERT FORMATTED DISK AND HIT RETURN. (RESET IS NORMAL AFTER SAVE) 7. LOAD"MOVEKERNAL\$1000",8,1 AND SYS4096 8. LOAD"HIMON", 8,1 AND SYS49152 9. S"NY.OBJB",08,2000,4000 10. F 0800 BFFF 00 AND G FCE2 11. L"CHANGE LOADADDR", 8 AND RUN. CHANGE "NY.OBJB" LOAD ADDRESS FROM 8192 TO 57344 12. OPEN15,8,15,"R0:NY.OBJA=0:XX.OBJ":CLOSE15 13. USE SUPERBOOTER TO BUILD A BOOT FOR 2 PROGRAMS, FLIP-OUT BASIC AND SYS24653 14. DONE! PHARAOH'S CURSE (TM) \_\_\_\_\_ 1. THIS PROGRAM REQUIRES A SWITCHABLE EXPANDER BOARD 2. INSERT ORIGINAL AND LOAD":\*",8,1 3. WHEN THE SCREEN COLOR IS CYAN, ACTIVATE EXROM, PRESS RESET 4. DE-ACTIVATE EXROM 5. LOAD"HIMON", 8, 1 AND SYS49152 6. M 0001 CHANGE 37 TO 36 (FLIP-OUT BASIC) 7. S"PC.OBJ",08,0800,C000 (SUPERBOOTER FORMAT) 8. USE SUPERBOOTER TO BUILD A BOOT TO FLIP-OUT BASIC AND SYS16384 9. YOU'RE DONE! QUASIMODO (TM) \_\_\_\_\_ 1. THIS PROGRAM REQUIRES A SWITCHABLE EXPANDER BOARD 2. INSERT ORIGINAL AND LOAD":\*",8,1 3. WHEN PROGRAM HAS LOADED, ACTIVATE EXROM, PRESS RESET 4. DE-ACTIVATE EXROM 5. LOAD"SAVEALL\*",8,1 AND SYS828 6. INSERT FORMATTED DISK AND HIT RETURN. (RESET IS NORMAL AFTER SAVE) 7. LOAD"MOVEKERNAL\$1000",8,1 AND SYS4096 8. LOAD"HIMON", 8,1 AND SYS49152 9. S"QM.OBJB",08,2000,4000 10. F 0800 BFFF 00 AND G FCE2 11. L"CHANGE LOADADDR", 8 AND RUN. CHANGE "QM.OBJB" LOAD ADDRESS FROM 8192 TO 57344 12. OPEN15,8,15,"R0:QM.OBJA=0:XX.OBJ":CLOSE15 13. USE SUPERBOOTER TO BUILD A BOOT FOR 2 PROGRAMS, FLIP-OUT BASIC AND SYS2051 14. DONE!

\_\_\_\_\_ RAINBOW WALKER (TM) (NEEDS FINISHED) ------1. THIS PROGRAM REQUIRES THE USE OF A CARTRIDGE BOARD 2. FORMAT A BLANK DISK 3. LOAD"ZIP",8,1 4. LOAD"HIMON", 8, 1 (DON'T ACTIVATE MONITOR) 5. INSERT ORIGINAL AND LOAD":\*",8,1 6. WHEN SCREEN BECOMES DARK, ACTIVATE EXROM SWITCH ON BOARD 7. WHEN DRIVE STOPS, HIT RESET AND DE-ACTIVATE EXROM SWITCH 8. POKE16554,192 (CAUSE PROGRAM TO JUMP \$C000 WHEN DONE LOADING) ? 9. SYS16384 10. AFTER PROGRAM RE-ENTERS MONITOR, T 0000 0200 1000 11. USE THE 'M' COMMAND TO MAKE THE FOLLOWING CHANGE: ADDRESS REPLACE WITH \_\_\_\_\_ 78 A2 BE 9A A2 00 BD 00 0F00 10 9D 00 00 BD 00 11 9D 0F08 00 01 E8 D0 F1 58 A9 53 0F10 0F18 A2 00 A0 10 4C 00 4C 12. INSERT FORMATTED DISK S"RW.OBJ",08,0F00,9000 13. USE SUPERBOOTER TO LOAD"RW.OBJ" AND SYS3840 14. YOU'RE DONE!! WARRIOR OF ZYPAR (TM) \_\_\_\_\_ 1. THIS PROGRAM REQUIRES THE USE OF A CARTRIDGE BOARD 2. INSERT ORIGINAL DISK 3. LOAD":\*",8,1 4. AFTER PROGRAM LOADS, ACTIVATE EXROM, PRESS RESET, DE-ACTIVE EXROM 5. LOAD"LLMON", 8,1 AND SYS8192 6. USE THE 'M' COMMAND TO FLIP BASIC ROM OUT: ADDRESS REPLACE WITH -----0001 36 7. S"WZ.OBJ",08,4000,D000

- 8. CREATE A BOOT FOR "WZ.OBJ" USING SUPERBOOTER, FLIP BASIC OUT, AND SYS35840
- 9. YOU'RE DONE!!

## SYSTEMS SOFTWARE

\_\_\_\_\_

SPELLMASTER (TM)

\_\_\_\_\_

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD"HIMON", 8,1 AND SYS49152

3. F 0800 3000 00

4. L"SPLA105203PP",08

5. USE THE 'M' COMMAND TO MAKE THE FOLLOWING CHANGE:

ADDRESS REPLACE WITH

16AA 60

6. S"@0:SPLA105203PP",08,0800,2A00

7. YOU'RE DONE!!

# TRILLIUM

AMAZON (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	00	AC	F0	EA
17	00	AD	0 B	EA
17	00	D1	FO	EA
17	00	D2	18	EA

4. DONE!!

DRAGONWORLD (TM)

-----

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	01	 AA	F0	 ЕА
17	01	AB	68	EA
17	01	D6	FO	EA
17	01	D7	68	EA

4. DONE!

FAHRENHEIT 451 (TM)

1. MAKE A COPY OF THE ORIGINAL.

2. LOAD & EXECUTE TRACK & SECTOR EDITOR.

3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

\_\_\_\_\_

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
17	00	AC	FO	EA
17	00	AD	0 B	EA
17	00	D1	FO	EA
17	00	D2	18	EA

4. DONE!

RANDEZVOUS WITH RAMA (TM)

1. MAKE A COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEW DATA
26	02	 AC	 F0	 ЕА
26	02	AD	0B	EA
26	02	D1	FO	EA
26	02	D2	18	EA

4. DONE!

## TRONIX

SUICIDE STRIKE (TM)

6. S"@0:SS",08,0800,0A00

7. X (EXIT MONITOR)

- 8. OPEN15,8,15,"R0:"+CHR\$(34)+CHR\$(3)="0:SS":CLOSE15 (RENAME FILE)
- 9. YOU'RE DONE!

DISK

WINDHAN CLASSICS

BELOW THE ROOT (TH)

- 1. MAKE & COPY OF THE ORIGINAL.
- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3, MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BY7E	OLD DATA	NEN DATA
14	03	1 E	FÓ	EA
14	03	1 F	0B	PA
14	03	20	20	40

4. DONE:

SWISS PANILY ROBINSON (TN)

1. MAKE & COPY OF THE ORIGINAL.

- 2. LOAD & EXECUTE TRACK & SECTOR EDITOR.
- 3. MAKE THE FOLLOWING CHANGES TO THE COPY WITH TRACK & SECTOR EDITOR:

TRACK	SECTOR	BYTE	OLD DATA	NEN DATA
16	16	77	20	4c

4. DOMES



\_\_\_\_\_

The Commodore 64 searches for a special character sequence from \$8004 to \$8008 to determine if there is an auto-start routine present in the cartridges area. The 64 checks these five bytes every time the computer is turned-on or reset. When the computer executes its cold-start KERNAL routines it runs the code at \$FCE2. The following sections of code are executed by the 64:

FCE2	A2	FF		LDX	#\$FF	:RESET RO	UTINE
FCE4	78			SEI			
F2E5	8A			TXS			
FCE6	D8			CLD			
FCE7	20	02	FD	JSR	\$FD02	:CHECKS C	BM80
FCEA	DO	03		BNE	ŞFCEF		
FCEC	6C	00	80	JUM	(\$8000)	:AUTO-STA	RT
FCEF	8 E	16	DO	STX	\$D016		
FCF2	20	A3	FD	JSR	\$FDA3		
FCF5	20	50	FD	JSR	\$FD50		
FCF8	20	15	FD	JSR	\$FD15		
FCFB	20	5В	$\mathbf{F}\mathbf{F}$	JSR	\$FF5B		
FCFE	58			CLI	:BASIC		
FCFF	6C	00	AO	JMP	(\$A000)	:COLD-STA	RT

FD02	A2	05		LDX	#\$05	:ROM AT \$8000	
FD04	ΒD	0 F	FD	LDA,	Χ	:THIS ROUTINE	
FD07	DD	03	FD	CMP	\$8003	:CHECKS CBM80	
FDOA	D0	03		BNE	\$FDOF	:IT CHECKS FROM	ĺ
FDOC	CA			DEX		:0 BACK TO 0.	
FDOD	D0	F5		BNE	\$F304		
FDOF	60			RTS			

FD10	C3	'C'	:THE ROUTINE AT \$FD02
FD11	C2	'B'	:CHECKS THIS AND
FD12	CD	'M'	:JUMPS TO THE ADDRESS
FD13	38	<b>'</b> 8 <b>'</b>	:AT \$8000 AND \$8001
FD14	30	'0'	:IF THE VALUES MATCH

If there is a 'CBM80' at \$8004-\$8008, the computer jumps to the address contained in \$8000 and \$8001. This is called the cold-start vector. Before we continue, you. must be aware of a number of assumptions made about the individual attempting to copy cartridges. First, you must have a switchable expander board, preferably one that has L.E.D's and a reset button. Currently, there are two boards ideally suited for copying cartridges. The first is the Cartridge-Backer (CB) board which is manufactured by CYBERTECH and is distributed by CSM SOFTWARE INC. This board can be purchased with the Cartridge Backer software for \$54.95, or separately for \$24.95. The second board is the Cardco 5 Slot expander board which retails \$79.95. Either of these boards have the capability to bank-select the three cartridge configurations.

They also have cartridge ENABLE and power switches which allow cartridges to be inserted or removed while the computer is on. Finally both have a reset button and L.E.D.'s. There are two L.E.D.'s used to indicate cartridge size and type. The L.E.D.'s on the CB board are red, and the L.E.D.'s on the Cardco board are yellow. Throughout the rest of the chapter, references will be made to the use of the boards. if you have another type of board, you must determine the cartridge size and type in another manner.

\_\_\_\_\_

Next, it is assumed that you are familiar with the use of a ML monitor. Most of the time, you should be using HIMOM, but sometimes LOMON will be used because not all types of cartridges reside at \$8000. The basic operation of the ML monitors is outlined in the section covering programs on the ARCHIVER disk.

# SAVING AND ALTERING A CARTRIDGE

#### ------

There are primarily three types of cartridges available for the C-64 16k, 8k, and MAX. These cartridges differ in memory size and the locations in which they operate in the computer. The following section explains how to alter and save an 8k or 16k cartridge. MAX cartridges will be explained later.

It's not necessary to understand how to determine the size or type of cartridge you have. Every cartridge description included in ARCHIVER tells exactly what type and size cartridge you have. All you have to do is look up the cartridge you have and we tell you how to save it. HOWEVER, each cartridge explaination only contains the parameters and changes necessary to make a particular cartridge operate when it transferred to disk. Each explaination follows the general format which explained below.

# CARTRIDGE ALTERATION FORMAT

-----

CARTRIDGE NAME
 CARTRIDGE TYPE (8K, 16K, OR MAX)
 BYTES WHICH MUST BE ALTERED USING THE 'M' MONITOR COMMAND
 AUTO-BOOT TYPE AND ADDRESS

# ADDRESS RANGE TO SAVE FOR EACH SIZE

 8K
 :SAVE
 \$8000
 TO
 \$A000

 16K
 :SAVE
 \$8000
 TO
 \$C000

 MAX
 :SAVE
 \$A000
 TO
 \$C000

There is a general procedure to follow to save and alter a 8K and 16K cartridges. You must have your expander board inserted to save cartridges.

- 1. INSERT CARTRIDGE IN EXPANDER BOARD
- 2. LOAD HIMON AND TYPE: SYS49152 TO ACTIVATE
- 3. ENABLE CARTRIDGE WITH THE POWER AND ENABLE SWITCHES (POWER, EXROM, AND GAME FOR MAX CARTRIDGES)
- 4. TRANSFER THE CARTRIDGE TO RAM
- 5. TURN OFF THE SWITCHES ON THE EXPANDER BOARD
- 6. MAKE CORRECTIONS SPECIFIED FOR THE CARTRIDGE USING THE 'M' COMMAND

7. SAVE THE CARTRIDGE TO DISK WITH THE 'S' COMMAND8. BUILD AN AUTO-BOOT WITH SUPERBOOTER USING THE SPECIFIED ADDRESS

\_\_\_\_\_

Now that we have covered the basics of how to save and alter a cartridge, we will give a detailed example of saving an 8k or 16k cartridge.

Insert the cartridge into the expander board. Load HIMON and 'SYS49152' to activate the ML monitor. Activate the POWER and ENABLE switches to turn-on the cartridge. Use the 'T' command to transfer the cartridge to RAM. For example, for a 16k, T 8000 C000 8000. Once the cartridge is in RAM, the POWER and ENABLE switches can be turned OFF and the cartridge can be removed from the board. If the cartridge is 16k or a MAX, the BASIC ROM must be flipped-out using the 'M' command to change address \$0001. For example, M 0001 will display addresses \$0001 to \$0008. The first byte displayed is a '37'. This must be changed to a '36' to flip-out BASIC. After changing the byte, BE SURE TO PRESS 'RETURN' to make the change. Next, make any changes specified for the particular cartridge your copying. Make the specified changes using the 'M' command. After all the changes are made, save the cartridge with the 'S' command to save XX.OBJ format. For example, if the cartridge you were copying was called ARCHIVER, you would save the cartridge as follows S"AR.OBJ",08,8000,C000. The cartridges are saved in this format because SUPERBOOTER requires this type of name. Save the boot on the same disk as the cartridge. The preceding example introduced you to the techniques of altering and saving a cartridge. It sounds like a lot of work, but it becomes very easy with practice.

# CIA TIMERS AND AUTO-BOOTS

Some cartridges use the 64's CIA TIMERS to determine if a program is running in RAM or ROM. The 64's CIA is an I/O chip that contains 16 I/O lines, 2 linkable timers, a 24 hour clock with a programmable alarm, and an 8 bit shift register for serial I/O. CIA TIMER A is located from \$DC00-\$DC0F.

When the 64 is turned-on CIA TIMER A will be reset an the timers will be equal to zero. READ a file loaded from disk, the timers are not equal to zero because the computer has been running. Some cartridges (EPYX and Parker Brothers for example) check the timers to see if they are zero. If the computer has been running, the program "crashes". This is a extremely hard to have a way of determining whether the program is in ROM or was read into RAM. In order to defeat this type of protection you must make you a auto-boot you created with SUPERBOOTER. The boot program to put the value of \$00 at address \$DCOE which resets the timers and make the program think the computer was just turned-on. In many of these types of programs this is the only type of protection. DON'T INITIALIZE AND THINK TIMERS FOR EVERY CARTRIDGE. It actually prevents some cartridges from running. An example of a CIA INITIALIZATION that has been placed in the boot is shown in FIGURE 1.

We will cover two types of auto-boots: one which loads a single program: and one which boots up to four separate sections of code. Either of these boots can be built using the program called SUPERBOOTER on the accompanying disk. FIGURE 1 is a disassembly of a typical single program boot built by SUPERBOOTER. ARCHIVER \_\_\_\_\_

CARTRIDGES

						FIGURE 1 AUTO-BOOT
\$02A7	20	44	E5	JSR	\$E544	:CLEAR SCREEN
\$02AA	A9	01		LDA	#\$01	:COLOR
\$02AC	8 D	20	D0	STA	\$D020	:BORDER COLOR
\$02AF	8 D	21	DO	STA	\$D021	:SCREEN COLOR
\$02B2	A2	80		LDX	#\$80	
\$02B4	8 E	84	02	STX	\$0284	
\$02B7	AG	38		LDX	#\$38	
\$02B9	20	53	Е4	JSR	\$E453	:RESTORE VECTORS
\$02BC	Α9	01		LDA	#\$01	
\$02BE	A6	ΒA		LDX	\$BA	:DEVICE
\$02C0	AA			TAX		
\$02C1	20	ΒA	FΕ	JSR	\$FFBA	:CALL FROM DIVICE ABOVE
\$02C4	Α9	06		LDA	#\$06	:FILENAME LENGTH
\$02C6	A2	FA		LDX		:X LOC. OF FILENAME
\$02C8	A0	02		LDY		:Y LOC. OF FILENAME
\$02CA	20	ΒD	FF	JSR	\$FFBD	:CALL TO STORE NAME TO BE LOADED
\$02CD	Α9	00		LDA	#\$00	:TELL TO LOAD/FILE START ADDRESS
\$02CF	20	D5	FF	JSR	\$FFD5	:LOAD TO RAM FROM DEVICE
\$02D2	20	E7	$\mathrm{F}\mathrm{F}$	JSR	\$FFE7	:CLEAR CHANNEL AFTER LOAD
\$02D5	86	A2		STX	\$A2	
\$02D7	Α5	A2		LDA	\$A2	
\$02D9	DO	FC		BNE	\$02D7	
\$02DB	8 D	0E	DC	STA	\$DC0E	:RESET CIA TIMERS
\$02DE	ΕA			NOP		
\$02DF	ΕA			NOP		
\$02E0	ΕA			NOP		
\$02E1	ΕA			NOP		
\$02E2	ΕA			NOP		
\$02E3	EA			NOP		
\$02E4	EA			NOP		
\$02E5	EA			NOP		
\$U2E6	EA			NOP		
シリノビノ ぐつつ中の	EA DA			NOP		
<b>♀∪∠些8</b> ぐ○2戸○	EA Ea			NOP		
90269 \$0257	БА ГЛ			NOP		
SOZEA SOZER	БА ГЛ			NOP		
\$02ED \$02FC	ΓA			NOP		
\$02ED	EΔ			NOP		
\$02EE	EA			NOP		
\$02EF	EA			NOP		
\$02F0	EA			NOP		
\$02F1	EA			NOP		
\$02F2	EA			NOP		
\$02F3	Α9	36		LDA	#\$36 :	FLIP-OUT BASIC VALUE
\$02F5	85	01		STA	\$01 :	BASIC 37 WITH 36 BASIC IS OUT
\$02F7	6C	FC	FΕ	JMP	(\$FFFC	C) COLD-START \$FCE2
\$02FA	58			CLI		:FILENAME XX.OBJ
\$02FB	58			CLI		:FILENAME X
\$02FC	2E	4F	42	ROL	\$424F	:FILENAME .OB
\$02FF	4A			LSR		:FILENAME J
\$0300	8B			???		
\$0301	EЗ			???		
\$0302	A7			???		:CALL TO START BOOT \$02A7 LO BYTE
\$0303	02			???		CALL TO START BOOT \$02A7 HI BYTE PAGE 120

As you can see, the boot in FIGURE 1 initializes the CIA TIMERS (STA DCOE). This must be added with a ML monitor after the boot is built if the program requires it. SUPERBOOTER will build a boot for a cartridge or a SYS address. This boot will auto-start because addresses \$0302 and \$0303 (basic warm-start vector) are modified to jump to the beginning of the auto-boot at \$02a7. Normally, the vector is \$A483, but it can be modified to jump to a ML program. In order to auto-start, the boot must be loaded with 'LOAD"BOOT NAME",8,1. After the boot is activated it restores the warm-start vector by running a subroutine \$E453.

\_\_\_\_\_

In order for this boot to work properly, the main program must be saved in the XX.OBJ format, and the boot should be saved with actual program name. For example, if you had a cartridge called "ARCHIVER", the boot would be called "ARCHIVER" and the main program would-be called "AR.OBJ".

SUPERBOOTER will ask you for the name of the program, the two letters for the XX.OBJ, the number of boots, whether you want BASIC switched out, and whether the boot is for a cartridge or a SYS. If you wish to SYS a particular address it must be entered in decimal. Also, if you want to initialize the CIA TIMERS, you must load the boot with a ML monitor and add the "store" to address \$DCOE as shown in FIGURE 1. Once you have answered SUPERBOOTER's questions, it will build a boot and save it to a disk. It is assumed that you are saving the boot to the disk that contains the main program. If you are using SUPERBOOTER to build a boot for a multiple loading program, the sections of the program must be saved as XX.OBJA-XX.OBJD.

# MAX CARTRIDGES

The next type of cartridge to examine is the ULTIMAX or MAX cartridge. This cartridge was originally manufactured or the Commodore ULTIMAX computer, Which was never produced. This cartridge reconfigure the 64's memory, so it requires an additional section of code to operate

It takes a special technique to copy a MAX cartridge. Insert the cartridge into the expander board and turn ON the switches in the following order: POWER, (sw4 on CB); EXROM, (sw2 on CB); and GAME (sw1 on CB). If the switches are operated in any other order the computer will Lock and you'll have to start over. Once the switches are activated, use the 'M' command to flip-out the BASIC ROM. The MAX cartridge will appear in memory from \$A000-\$BFFF. Keep in mind that the cartridge will not run from this area, it only resides here when the computer is powered-up. In order for a MAX cartridge to properly relocate and run when loaded, a special routine must be added to the end of each MAX cartridge. A routine that will relocate and run a MAX cartridge is shown in FIGURE 2.

# FIGURE 2

\_\_\_\_\_

## MAX RELOCATE ROUTINE

C000	Α9	36		LDA	#\$36	:FL]	P-OU	JT BASIC	7		
C002	85	01		STA	\$01						
C004	A0	00		LDY	#\$00	:PRB	EP TH	IE RAM I	IN ZERO	PAGE	
C006	84	FA		STY	\$FA	:THE	E NEX	KT 6 BY:	TES FOR	. RAM SWAP	
C008	84	FC		STY	\$FC						
C00A	84	FΕ		STY	\$FE						
C00C	Α9	A0		LDA	#\$A0	:HI	BYTE	SOURCE	E START	LOCATION	
COOE	85	F5		STA	\$F5						
C010	Α9	20		LDA	#\$20	:HI	BYTE	TARGE	r start	LOCATION	SECONDARY
C012	85	FD		STA	\$FD						
C014	Α9	ΕO		LDA	#\$E0	:HI	BYTE	TARGE	r start	LOCATION	PRIMARY
C016	85	$\mathbf{F}\mathbf{F}$		STA	\$FF						
C018	В1	FA		LDA	(\$FA),Y						
C01A	91	FC		STA	(\$FC) <b>,</b> Y						
C01C	91	FΕ		STA	(\$FE) <b>,</b> Y						
C01E	C8			INY							
C01F	DO	F7		BNE	\$C018						
C021	ЕG	FΒ		INC	\$FB						
C023	ЕG	FD		INC	\$FD						
C025	ЕG	$\mathbf{F}\mathbf{F}$		INC	\$FF						
C027	DO	$\mathrm{E}\mathrm{F}$		BNE	\$C018						
C029	78			SEI							
C02A	Α9	35		LDA	#\$35	:FLIH	P-OUI	KERNAI	ī.		
C02C	85	01		STA	\$01						
C02E	6C	FC	FF	JMP	(\$FFFC)	:JUMH	P TO	ACTUAL	GAME S	TART 2 BY	TES

A MAX cartridge is copied in similar manner as an 8k or 16k, but the MAX RELOCATE routine must loaded into the computer BEFORE the cartridge is saved. Use the following procedure to save a MAX cartridge:

# CARTRIDGE ALTERATION FORMAT

- 1. INSERT CARTRIDGE INTO SLOT
- 2. LOAD"LOMON",8,1 AND ACTIVATE WITH 'SYS32768'
- 3. TYPE L"MAX RELOCATE",08 (It loads in at \$C000)
- 4. TURN ON THE POWER, EXROM, AND GAME LINES IN THAT ORDER. DO NOT TOUCH THE ENABLE LINE. IF THE SWITCHES ARE ACTIVATED IN ANY OTHER ORDER THE COMPUTER WILL LOCK UP AND YOU WILL HAVE WASTED YOUR TIME. NEXT PLACE CARTRIDGE IN THE SLOT THE SWITCHES YOU SET ON. NEXT TO GET MAX TO RAM TURN THE SWITCHES IN REVERSE ORDER. IF CORRECTLY DONE YOU SHOULD HAVE MAX IN RAM.
- 5. TRANSFER CARTRIDGE TO RAM WITH THE 'T' COMMAND T 6000 8000 A000
- 6. FLIP-OUT BASIC. M 0001 CHANGE 37 TO 36
- 7. MAKE ANY SPECIFIED ALTERATIONS WITH THE 'M' COMMAND
- 8. SAVE THE CARTRIDGE. S"XX.OBJ",08,A000,C031
- 9. BUILD A BOOT USING A SYS ADDRESS OF 49152

The procedures outlined previous sections will enable you to save, alter, and build an auto-boot for every program included in the ARCHIVER manual.

CARTRIDGES

#### 1 STEP SOFTWARE

\_\_\_\_\_

1 STEP UTILITY CARTRIDGE (TM) 8K \$8000-\$A000 ADDRESS REPLACE WITH 8009 EA EA EA EA EA EA 800F EA EA EA EA EA EA

CARTRIDGE BOOT

## ATARI SOFT

BATTLE ZONE (TM)

-----

16K ADDRESS REPLACE WITH

8457	ΕF
8470	ΕF
8486	ΕF
849C	ΕF
8617	51 8C
861E	В9

CARTRIDGE BOOT

CENTIPEDE (TM) ------8K

NO CHANGES

CARTRIDGE BOOT

DEFENDER (TM)

16K ADDRESS REPLACE WITH 800B EA EA EA EA EA

CARTRIDGE BOOT

DIG DUG (TM) ------16K ADDRESS REPLACE WITH ------8009 EA EA EA EA EA EA EA 8011 EA EA EA EA EA EA EA 8019 EA

ARCHIVER CARTRIDGES \_\_\_\_\_ DONKY KONG (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH ------A053 EA EA EA BE39 EA BE39 ΕA SYS40973 GALAXIAN (TM) \_\_\_\_\_ 16K REPLACE WITH ADDRESS \_\_\_\_\_ 8013 EA EA EA CARTRIDGE BOOT JUNGLE HUNT (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_ 8011 EA 8019

CARTRIDGE BOOT

MOON PATROL (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_ 800A EA 8012 EA EA 82BD EA EA 90CB EA EA 95D3 9FDB ΕA 9FDF ΕA A013 ΕA 20 C0 BAB2 A0 00 A5 04 05 05 D0 01 C000 60 4C 24 C0 EA C8 D0 02 C008 E6 03 A5 04 38 E9 01 85 C010 04 B0 02 C6 05 A5 05 05 C018 04 D0 E6 60 A5 03 C9 80 C020 90 07 C9 C0 B0 03 4C 1C C028 C030 B1 A5 06 91 02 4C 0D C0

NOTE: SAVE \$8000-\$C038 CARTRIDGE BOOT

ARCHIVER

\_\_\_\_\_ MS. PACMAN (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH ------8E72 EA 8E7A CARTRIDGE BOOT PACMAN (TM) \_\_\_\_\_ 16K REPLACE WITH ADDRESS \_\_\_\_\_ 8397 EA EA EA 839D EA EA EA 8431 ΕA CARTRIDGE BOOT POLE POSITION (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_ 800EEA EA EA EA EA EA EA8017EA EA EA ΕA 833C CARTRIDGE BOOT ROBOTRON (TM) \_\_\_\_\_ 16K REPLACE WITH ADDRESS \_\_\_\_\_ EA EA EA EA EA EA EA EA 801F EA EA EA EA EA EA EA 8027 EA EA 802F 8037 36 8A82 EA EA EA EA EA EA

CARTRIDGES

#### BRODERBUND

\_\_\_\_\_

CHOPLIFTER (TM)

-----

16K ADDRESS REPLACE WITH -----9593 EA EA EA EA EA EA EA EA 959B EA 990D EA EA EA BF1C EA EA EA EA EA EA BF35 FB

CARTRIDGE BOOT

LODERUNNER (TM)

-----16K ADDRESS REPLACE WITH ------8009 EA EA EA EA EA EA EA 8011 EA EA EA EA 8037 FE

CARTRIDGE BOOT

CARTRIDGE BOOT

CBS INC.

ERNIE'S MAGIC SHAPES (TM) 16K ADDRESS REPLACE WITH 8017 A9 36 85 01 EA EA EA EA 801F EA EA EA EA

CARTRIDGE BOOT

CARTRIDGES

## CARDCO INC.

\_\_\_\_\_

WRITENOW (TM)

 16K

 ADDRESS
 REPLACE WITH

 8009
 09
 80

 8829
 00

 AA19
 02

 AA61
 02

 BB03
 EA EA EA EA EA EA EA EA EA

 BB0B
 EA EA EA EA

CARTRIDGE BOOT

## CIMARRON

INSTA-WRITE (TM)

8K ADDRESS REPLACE WITH 80A4 A6

CARTRIDGE BOOT

COMMODORE BUSINESS MACHINES INC.

.....

SYS49152

BINGO MATH (TM) ------8K MAX NO CHANGES

SYS49152

CARTRIDGES

BLUEPRINT (TM) \_\_\_\_\_ 16K REPLACE WITH ADDRESS ------800BEAEAEA8013EAEAEAEA 801A 56 801F EA EA EA FA 80C0 EA EA EA EA EA EA EA EA EA 8691 89C4 8D9A EA EA EA 9033 EA EA EA 90F2 9207 EA EA EA 9512 EA EA EA 96AF EA EA EA EA EA EA 98E9 EA EA EA EA EA EA EA EA EA 9C7A A67B EA EA EA A96A CARTRIDGE BOOT CLOWNS (TM) \_\_\_\_\_ 8K MAX NO CHANGES SYS49152 DRAGON'S DEN (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH ------806F 32 36 8092 CARTRIDGE BOOT FROGMASTER (TM) \_\_\_\_\_ 8 K NO CHANGES

CARTRIDGE BOOT

CARTRIDGES

GORF (TM)

16K	
ADDRESS	REPLACE WITH
800B	36
8067	32
8094	36

CARTRIDGE BOOT

INTERNATIONAL SOCCER (TM) ------16K ADDRESS REPLACE WITH ------8027 EA EA EA EA EA EA 920C 06 9212 EA EA EA EA EA EA EA EA

CARTRIDGE BOOT

JACK ATTACK (TM) ------16K ADDRESS REPLACE WITH ------8015 EA EA EA 802C EA EA EA 802C EA EA EA 8039 EA EA EA 8048 56 9259 EA EA BF7F 24 BFFF 34

CARTRIDGE BOOT

SYS49152

KICKMAN (TM)

8K MAX

NO CHANGES

SYS49152

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_____
```

LAZARIAN (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH ------805452807756 CARTRIDGE BOOT LEMANS (TM) \_\_\_\_\_ 8K MAX NO CHANGES SYS49152 MUSIC MACHINE (TM) \_\_\_\_\_ 8K MAX NO CHANGES SYS49152 NITE DRIVER (TM) \_\_\_\_\_ 8K MAX NO CHANGES SYS49152 OMEGA RACE (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH \_\_\_\_\_ 8035 60 CARTRIDGE BOOT OMEGA RACE (TM) \_\_\_\_\_ 8K MAX NO CHANGES

SYS49152

ARCHIVER

ARCHIVER CARTRIDGES \_\_\_\_\_ PINBALL SPECTACULAR (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH ------A066 E5 NOTE: SAVE FROM \$8000 TO \$C031 SYS49152 RADAR RAT RACE (TM) \_\_\_\_\_. 8 K ADDRESS REPLACE WITH \_\_\_\_\_ A066 E5 SYS49152 SEAWOLF (TM) \_\_\_\_\_ 8K MAX NO CHANGES SIMON'S BASIC (TM) \_\_\_\_\_ 24K NOTE: TO DOWNLOAD THIS CARTRIDGE YOU MUST ACTIVATE THE POWER, EXROM AND GAME LINES INSTEAD OF THE POWER AND ENABLE LINES. AND SAVE FROM \$8000-\$CFFF ADDRESS REPLACE WITH \_\_\_\_\_ 817A A0 20 F0 CF 831E 20 F7 CF 8327 A5 01 29 FE 85 01 60 A5 CFF0 CFF8 01 09 01 85 01 60 A0

CARTRIDGE BOOT

SOLAR FOX (TM)

16K ADDRESS REPLACE WITH ------EA EA EA 800F 8017 EA EA EA EA EA EA 801E 56 839C EA EA EA EA 84A7 EA EA 84AA A510 EA EA EA

CARTRIDGES

STARPOST (TM) \_\_\_\_\_ 8 K NO CHANGES CARTRIDGE BOOT SUPERSMASH (TM) \_\_\_\_\_ 8 K NO CHANGES CARTRIDGE BOOT TOOTH INVADERS (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_ EA EA EA 56 8323 832B CARTRIDGE BOOT VISIBLE SOLAR SYSTEM (TM) \_\_\_\_\_ 8K MAX NO CHANGES SYS49152 WIZARD OF WAR (TM) -----8K MAX NO CHANGES SYS49152 WIZARD OF WAR (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_ 
 800A
 36

 9DE9
 EA
 EA

 A782
 32
 32
 36 A797

\_\_\_\_\_

CARTRIDGES \_\_\_\_\_

## CREATIVE SOFTWARE INC.

MOONDUST (TM)

\_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_ 8515 FB 852F 04

# CARTRIDGE BOOT

PIPES (TM)

\_\_\_\_\_ 8 K ADDRESS REPLACE WITH \_\_\_\_\_ 9247 EA EA EA EA EA EA EA EA 924F EA EA EA 9251

# CARTRIDGE BOOT

SAVE NEW YORK (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH \_\_\_\_\_ 800A EA EA EA EA EA EA EA EA 8012 EA EA EA EA 8026 8026 02 8069 06

CARTRIDGE BOOT

EASTERN HOUSE INC.

VICTREE (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH 

 8028
 EA EA EA

 861C
 EA EA EA

 9855
 EA EA EA EA EA EA

 67

 \_\_\_\_\_

# ARCHIVER

MAILBOX (TM)

------8KADDRESSREPLACE WITH------8011EA EA EA EA EA EA EA EA8019EA8021EA EA EA802AEA EA EA946BEA EA

CARTRIDGE BOOT

CARTRIDGE BOOT

EPYX INC.

\_\_\_\_\_

GATEWAY TO APSHAI (TM) ------16K ADDRESS REPLACE WITH ------8012 EA EA EA EA EA EA EA 801A EA EA EA EA EA

CARTRIDGE BOOT

JUMPMAN JR. (TM)

\_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_ 8175 EA EA EA 81E1 FA EA EA EA 81DD EA EA EA 8818 EA EA EA 9A1F EA EA EA 9C17 EA EA EA A6B7 EA EA EA A6C6 A9 00 85 B2 85 B3 4C E2 C000 C008 FC NOTE: SAVE FROM \$8000 TO \$C010

SYS49152

PITSTOP (TM)

16K NO CHANGES

NOTE: THIS PROGRAM REQUIRES A CIA INITIALIZATION BOOT. SEE THE CARTRIDGE INTRODUCTION SECTION ON HOW TO BUILD THE BOOT.

\_\_\_\_\_

CARTRIDGE BOOT WITH CIA INITIALIZATION

FISHER PRICE INC.

ALPHA BUILD (TM)

16K ADDRESS REPLACE WITH \_\_\_\_\_ 8015 EA EA EA EA EA EA EA FA 801D FA 863F FA 8660 FA 8681 8F8F FA CARTRIDGE BOOT DANCE FANTASY (TM) \_\_\_\_\_ 8 K NO CHANGES CARTRIDGE BOOT HOP ALONG (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH ------8010 EA EA EA EA EA EA EA 8018 EA EA EA EA CARTRIDGE BOOT NUMBER TUMBLERS (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_ EA EA EA EA EA EA EA 800E 80AF 22 80E9 26

ARCHIVER

SEA SPELLER (TM)

8KADDRESSREPLACE WITH800EEA EA EA EA EA EA EA EA8016EA9B94EA EA EA

CARTRIDGE BOOT

UP & ADD'EM (TM) -----8K NO CHANGES

CARTRIDGE BOOT

HANDIC INC.

\_\_\_\_\_

STAT-64 (TM) ------8K ADDRESS REPLACE WITH ------800A EA EA EA EA EA EA EA EA 8012 EA

CARTRIDGE BOOT

HES INC.

64 FORTH (TM) 16K ADDRESS REPLACE WITH 8021 EA EA EA 8027 A9 36 85 01 9389 F2 82

93F5 D4 86 A765 36

SYS64738

ATTACK OF THE MUTANT CAMELS (TM)
-----8K
ADDRESS REPLACE WITH
----8009 EA EA EA
9BDB EA EA EA EA EA EA EA EA
9BDB EA EA EA EA EA EA EA

ARCHIVER CARTRIDGES \_\_\_\_\_ GRIDRUNNER (TM) \_\_\_\_\_ 8 K NO CHANGES CARTRIDGE BOOT HESMON (TM) \_\_\_\_\_ 4K ADDRESS REPLACE WITH \_\_\_\_\_ EA EA EA 85AB 8D73 EA EA EA EA EA 8E07 EA EA EA EA EA EA 8E11 8FD4 NOTE: SAVE FROM \$8000 TO \$9000 CARTRIDGE BOOT HESWRITER (TM) \_\_\_\_\_ 8 K NO CHANGES SYS32768 MINNISOTA FATS POOL (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH ------8013 EA EA EA 827D FA 82C6 04 CARTRIDGE BOOT MAZE MASTER (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_ EA EA EA 8019 8031 FA

04

807E

ARCHIVER

MR. TNT (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH ------800D EA EA EA EA EA EA EA EA 8015 CARTRIDGE BOOT RETRO BALL (TM) \_\_\_\_\_ 8 K REPLACE WITH ADDRESS \_\_\_\_\_ 8019 EA EA EA 9019 EA EA EA CARTRIDGE BOOT ROOTIN TOOTIN (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_ 8009 EO EA EA EA EA EA EA EA EA 908E ΕA 9096 EA EA EA EA EA 90B8 9210 EA EA EA 922E EA EA EA 925A 9313 EA EA EA 933D EA EA EA EA EA EA 9368 EA EA EA 937F EA EA 9430 EA EA EA 946C EA EA EA 94E1 9583 EA EA EA 9603 EA EA EA AFD5 EA EA EA CARTRIDGE BOOT THE PIT (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH \_\_\_\_\_ 8010 EA EA EA EA EA EA EA EA 8018 801E EA EA EA CARTRIDGE BOOT

CARTRIDGES

#### LLAMASOFT

\_\_\_\_\_

LAZER ZONE (TM)

------8KADDRESSREPLACE WITH------8000EA EA EA EA EA EA EA EA8008EA EA

SYS32768

MICROFUN INC.

MINER 2049ER (TM)

CARTRIDGE BOOT

## PARKER BROTHERS

GYRUSS (TM)

16K NO CHANGES

NOTE: REQUIRES A CIA INITIALIZATION BOOT. SEE CARTRIDGE INTRODUCTION SECTION.

CARTRIDGE BOOT WITH CIA INITIALIZATION

JAMES BOND 007 (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_ 8569 80 4C 00 C0 EA 85C3 10 C0 A9 22 85 00 A9 02 85 01 A2 03 4C C7 85 EA EA EA 8619 C000 C008 A2 2F 86 00 A2 06 86 01 C010 4C 4C A9 C018

NOTE: SAVE FROM \$8000 TO \$C01B. REQUIRES A CIA INITIALIZATION BOOT. CARTRIDGE BOOT WITH CIA INITIALIZATION ARCHIVER \_\_\_\_\_ POPEYE (TM) \_\_\_\_\_ ADDRESS REPLACE WITH \_\_\_\_\_ 9B76 6C D4 00 (OLD) 4C F3 7F (NEW) 48 A9 2F 85 00 A9 36 85

CARTRIDGES

NOTE: REQUIRES A CIA INITIALIZATION BOOT. SEE CARTRIDGE INTRODUCTION SECTION. SAVE FROM \$7FF3 TO \$C000 CARTRIDGE BOOT WITH CIA INITIALIZATION

Q-BERT (TM)

16K

9B76

7FF3

7 F F B

\_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_

01 68 6C D4 00

A681 B681 00 00 00 00 00 00

NOTE: REQUIRES A CIA INITIALIZATION BOOT. SEE CARTRIDGE INTRODUCTION SECTION. CARTRIDGE BOOT WITH CIA INITIALIZATION

STAR WARS (TM)

\_\_\_\_\_

16K REPLACE WITH ADDRESS \_\_\_\_\_ C000 78 A9 00 A8 A2 08 86 FC C008 85 FB 91 FB C8 D0 FB E6 FC A6 FC E0 80 D0 F3 99 C010 C018 02 00 C8 D0 FA 8D 0E DC 4C 5B 9C C020

NOTE: REQUIRES A CIA INITIALIZATION BOOT. SEE CARTRIDGE INTRODUCTION SECTION. SAVE FROM \$8000 TO \$C023 SYS49152 WITH CIA INITIALIZATION

OUICK BROWN FOX INC.

QUICK BROWN FOX (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_ A105 EA EA EA A3FD EA EA EA AF9B EA EA EA EA EA EA AFA7 EA EA EA B305

SYS48938
ARCHIVER

CARTRIDGES

SCARBOROUGH INC.

\_\_\_\_\_

MASTERTYPE (TM)

CARTRIDGE BOOT

SEGA INC.

BUCK ROGERS (TM) -----16K NO CHANGES

CARTRIDGE BOOT

CONGO BONGO (TM) 16K ADDRESS REPLACE WITH 8010 EA EA EA

CARTRIDGE BOOT

STAR TREK (TM) -----16K ADDRESS REPLACE WITH -----A35A FF AC09 FF AC63 FF

CARTRIDGE BOOT

SIERRA ON LINE INC.

CARTRIDGE BOOT

CARTRIDGES

ARCHIVER

MR. COOL (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH ------83BC EA EA EA 84CD EA EA EA 8AF3 EA EA EA EA EA EA 8E18 EA EA EA 8E78 EA EA EA EA EA EA EA 9CC9 EA 9CD1 9CE0 EA EA EA EA EA

CARTRIDGE BOOT

THRESHOLD (TM)

8K ADDRESS REPLACE WITH 8E6B EA EA EA

CARTRIDGE BOOT

SPINNAKER INC.

\_\_\_\_\_

AEGEAN VOYAGE (TM)

-----16K ADDRESS REPLACE WITH ------8010 EA EA EA EA EA EA EA EA 8018 EA EA EA EA 8024 06 8FA5 EA EA EA 8FAD EA EA EA

CARTRIDGE BOOT

ALF IN THE COLOR CAVES (TM) 16K ADDRESS REPLACE WITH 8010 EA EA EA EA EA EA EA EA 8018 EA EA EA EA 802C 06 8514 FA

CARTRIDGE BOOT

CARTRIDGES

ARCHIVER \_\_\_\_\_ BUBBLE BURST (TM) \_\_\_\_\_ 16K ADDRESS REPLACE WITH \_\_\_\_\_ 

 8010
 EA EA EA EA EA EA EA

 8018
 EA EA EA EA

 8024
 06

8024 06 97A5 FA CARTRIDGE BOOT COSMIC LIFE (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH \_\_\_\_\_ 8016EA EA EA EA EA EA EA801EEA CARTRIDGE BOOT DELTA DRAWING (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH \_\_\_\_\_ 80FEEAEAEAEAEAEAEA8106EAEAEAEA807CEAEAEA CARTRIDGE BOOT FACE MAKER (TM) \_\_\_\_\_ 8 K NO CHANGES CARTRIDGE BOOT FRACTION FEVER (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH \_\_\_\_\_ EA EA EA EA EA EA EA EA 8016 801E ΕA

CARTRIDGE BOOT

CARTRIDGES

ARCHIVER \_\_\_\_\_ JUKEBOX (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH ------8010EAEAEAEAEAEAEA8018EAEAEAEA 9D02 EA EA EA CARTRIDGE BOOT KIDS ON KEYS (TM) \_\_\_\_\_ 8 K NO CHANGES CARTRIDGE BOOT KINDERCOMP (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH \_\_\_\_\_ 8016 EA EA EA EA EA EA EA EA 801E EA EA EA EA CARTRIDGE BOOT STORY MACHINE (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH \_\_\_\_\_ 8016 EA EA EA EA EA EA EA 801E ΕA 8029 36 CARTRIDGE BOOT UP FOR GRABS (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH \_\_\_\_\_ 8016 EA EA EA EA EA EA EA 801E EA CARTRIDGE BOOT

ARCHIVER

CARTRIDGES

TURBO SOFTWARE INC. LASER CYCLES (TM) \_\_\_\_\_ 8 K REPLACE WITH ADDRESS \_\_\_\_\_ 8009 EA EA EA EA EA EA EA 8013 EA EA EA EA EA EA EA 801A ΕA 8023-804A EA EA EA 806E CARTRIDGE BOOT MAZEMAN (TM) \_\_\_\_\_ 8 K ADDRESS REPLACE WITH \_\_\_\_\_ 8009 EA EA EA EA EA EA EA 8015 EA 801D 8025 EA EA EA EA EA EA EA 802D EA EA EA 8043 EA 804B 8075 EA 807D EA EA EA EA EA EA EA 80CA EA EA 80D2 80F5 EA EA EA EA EA EA EA EA EA 80FD 8167 EA EA EA EA EA EA EA EA EA 816F 8177 EA 829E ΕA 82A6 8F6D EA EA EA 8FAA-8FEF EA CARTRIDGE BOOT MISC CARTRIDGES DOT GOBBLER (TM) \_\_\_\_\_ 4K \$8000-\$9000 ADDRESS REPLACE WITH \_\_\_\_\_ 8102 20 15 FD (OLD) 8102 EA EA EA (NEW) 8EAD 20 A3 FD (OLD) 8EAD EA EA EA (NEW) 20 50 FD (OLD) 8EBO EA EA EA (NEW) 8EBO

CARTRIDGE BOOT

\_\_\_\_\_

ARCHIVER

CARTRIDGES

CARTRIDGE BOOT

AMTOR (TM)

16K ADDRESS REPLACE WITH

811C EA EA 88C3 DE

CARTRIDGE BOOT

VIDEO BYTE (TM) -----24K (ONLY PARTIAL WE RIP THE KOALAVERT PART) \$C410 SET COMMAND 8 TO RESTART CHANGE JMP \$CBD8 TO \$FCE2 SAVE FROM \$A000-CC57

\_\_\_\_\_

SYS49173