Super Utility Plus Version 3.2
Changes from previous versions
23 September 1983

The current version of Super Utility Plus is 3.2 as of September 15, 1983. This version corrects a number of obscure bugs and incorporates some enhancements in operation. Many of the changes are internal and transparent to the user; of course, all previously issued patches have been incorporated into the program code. Note that as a result of reassembly, the symbol table in the SU+ 3.0 Technical Manual is no longer valid. See below for the procedures on obtaining updated information.

The changes in version 3.2 of Super Utility Plus are documented below.

I. Corrected Problems

1. Double sided operations now work correctly on the Model I.

2. Problems with SPECIAL FORMAT's handling of the length byte have been corrected.

3. Problems with modification while in "View Formatted Buffers" (SPECIAL BACKUP & SPECIAL FORMAT) have been corrected.

4. Problems with the operation of SPECIAL BACKUP on the Model I and Model III have been corrected.

5. JUMP TO MEMORY now works without prior patching of in-memory code.

6. The problem with incorrect DAMs being written during multiple-destination STANDARD BACKUPs have been corrected.

7. SU+ no longer crashes when attempting to write to a diskette which has a write-protect tab on it.

8. Problems with REPAIR BOOT have been corrected. Also, the new boots contain the correct DOS version number in the right places. Note that REPAIR BOOT is still for TRSDOS disks only.

9. The unused directory sectors of LDOS double-sided disks are now rewritten with correct DAMs in MOVE DIRECTORY.

10. A one-byte change has been made in REPAIR GAT for double-sided LDOS disks. Previously, REPAIR GAT caused LDOS to reject mirror-image backups of these disks. This problem no longer occurs.

11. Password encoding/decoding for the T1D DOS type has been corrected. Note also that Password Decode for the T3D and T1D algorithms follow Radio Shack standard; they will NOT decode a 0000 password hash.

II. Changes from version 3.1a

1. The moving "bugs" in the screen corners have been removed, with the exception of the upper right corner, as per numerous requests from users. Also, the prompt cursor has been made less frenetic. The moving bug can still be abolished with CLEAR-A.

2. In DISK MODIFY and MEMORY MODIFY, the command P00 (P zero-zero) is now no longer accepted. Previously, this was being interpreted as "propagate a byte for 65536 bytes" and was a sure-fire way to crash the entire system.

3. DUAL now issues carriage returns (ASCII 13) instead of linefeeds at the end of each line. This will permit the use of DUAL on wide-carriage lineprinters that can linefeed "in place."

4. DOUBLER=N is no longer valid for the Model III and MAX-80 configuration tables. This will prevent inadvertent disabling of double-density disk I/O for these machines.

5. The EOF sector incompatibility between TRSDOS and non-TRSDOS systems on the Model III is now correctly handled by COPY FILES. Corrective measures are no longer required.

6. The default SPEED code now toggles the Model 4 high speed clock. Note, however, that due to the Model 4's numerous video and memory wait states, and the fact that SU+ is very video-intensive, the perceived speed gain will be minimal (about 10%).

7. (MAX-80 ONLY) COPY FILES is now valid for LDOS double-sided and 8-inch long directories (up to 34 sectors in length). NEWDOS/80 type extended directories (DDGA greater than 2) are NOT supported.

8. CLEAR-V will now feature automatic revision number updates. The revision number changes whenever a patch is applied to the system.

9. In DISPLAY ID MARKS, pressing B while scanning a double-sided disk in extended mode (X pressed) will lock the scan onto the back side of the disk until F is pressed to restore it to the front side. Previously the scan reverted to the front side automatically.

10. FILE LOCATIONS now displays data for one file at a time on the screen. There is a short

delay after the display comes on the screen before another keystroke is accepted. This will allow you to hold down the ENTER key to scan through the files without skipping past one you want to examine more closely.

III. Advisory Information

The items below are for your information only. They do not involve any changes to the Super Utility Plus program.

1. The current MULTIDOS double-sided format, which uses a separate directory for each side of a double-sided disk, is not supported by Super Utility Plus. the new MULTIDOS version, which uses a single directory for double sided disks, is supported. Please contact Cosmopolitan Electronics for additional information on this version of MULTIDOS. Breeze/QSD has NO information regarding the release date of this system.

2. For TRSDOS 6.x (Model 4) the correct DOS specifier to use is L3D.

3. The CHANGE DISK NAME procedure cannot change the AUTO command on a TRSDOS 6.x system disk. This is because TRSDOS 6.x keeps the AUTO command string in the boot sectors instead of in the directory GAT sector where SU+ expects to find it.

4. For NEWDOS/80 Version 2, the "R" modifier can now be used for all double-density operations except Model I double-density STANDARD BACKUP. For Model I double density backups, use N1D ONLY.

5. (MAX-80 ONLY) When attempting to access a combination of 5.25" and 8" drives, remember that in Super Utility Plus, drive 0 refers to phy-

sical drive 0, not logical drive 0! You may need to change the boot switch settings in order to access the correct drive.

6. The DRIVE STATUS procedure cannot correctly detect the "no diskette" condition on certain disk drives, most notably the new microprocessor-controlled drives such as the Tandon TM-101, or 8" drives on the MAX-80. Such drives may cause SU+ to return a "DRIVE NOT IN SYSTEM" message instead. **Note that this will result in that drive being disabled in the configuration tables!.** If this occurs you will have to go to the configuration table and restore it to the system (replace the "-" with a "+").

7. Note that CLEAR-I (the INKEY switch) works only on those prompts where the maximum number of allowable reply keystrokes is ONE. If a prompt can accept more than one keystroke for a reply, then the INKEY function will not be active, as there is no a priori way of telling when the user has completed his input. Note also that CLEAR-I (as well as CLEAR-A) is subject to automatic keyboard repeat. If it does not "take" you may have held it down too long.

8. The use of * at the FORMAT "Use Configuration?" prompt is not supported. The only valid special character at this prompt is !, which forces formatting to take place even if the target disk contains data. The * special command, however, IS valid at the "Format Disks ?" prompt of STANDARD BACKUP. In this case it will cause SU+ to skip the verification cycle. The ! special command is also valid in STANDARD BACKUP.

9. On the Model III, ASCII values 0 through 31 are displayed as the corresponding Model III special characters. On the Model I, the ASCII side of a sector or memory display will show the ASCII value PLUS 40H. Thus a byte 00 will display as

"@", byte 01 will display as "A", and so on. Regardless of how they are displayed on the video, however, byte values in the range 00 through 31 will be translated to periods when sent to the lineprinter.

IV. Obtaining Updated Information

If you already own the SU+ 3.0 TECHNICAL MANUAL you may order an updated symbol table, covering the changes in version 3.2, from

PowerSOFT Products
11500 Stemmons Expressway, Suite 125
Dallas, TX 75229
214/484-2976

The symbol table will contain the address references of all symbols used in SU+ version 3.2; however, no additional documentation is available for those not already documented in the Technical Manual. The cost of the update pages is $3.00 per set, postpaid. When ordering, be sure to include your SU+ serial number and state whether or not you want the MAX-80 symbol table as well.

A new User's Manual for Super Utility Plus 3.2 (pages only, no binder) may be purchased by registered SU+ owners for $12.00 plus $1.00 shipping and handling. This manual will incorporate all information found in the preceding pages. Send all orders to the address above. Be sure to include your SU+ serial number. This offer is for registered owners only. Orders without an accompanying serial number will be returned unfilled.