TRSDOS 2.0 SPEED-UP KIT

INTRODUCTION

The TRSDOS 2.0 Speed-Up Kit is used to install a series of permanant enhancements to your TRSDOS 2.0, TRSDOS 2.0a, or TRSDOS 2.0b diskette. These enhancements will dramatically improve the booting speed, as well as execution speed of TRSDOS.

An easy to use installation procudure is provided which adds the desired features to the users diskette. These "Speed-Up" features are automatically loaded each time you <u>BOOT</u> a modified disk. If you merely BOOT on a regular disk and then insert a modified disk, you will have none of the benefits of these features.

SYSTEM PERFORMANCE IMPROVEMENTS

BOOT speed can be improved by a factor of 2-1/2 times over TRSDOS 2.0. An entire boot takes only 8-seconds if all optional features are installed.

The <u>Time</u> and <u>Date</u> needs to be entered only <u>ONCE</u> after power on. The speed of subsequent booting is dramatically improved since the Time and Date do <u>NOT</u> need to be entered again.

Data may be read up to five times faster than in the standard configuration of TRSDOS. The system runs as fast as if the verify detect feature had been turned off, but still retains the reliablity of the verify detect.

HOW TO USE SPEED-UP KIT

The 2.0 speed-up kit is distributed on a special program disk. This diskette is simply inserted in drive #0 and booted. The installation program is automatically executed which will add the Speed-Up features desired. Follow the general procedure described below:

   1. Backup the disk you want to upgrade. If ANYTHING goes wrong in the upgrade process, the resulting disk will be unusable.

   2. Boot up the distribution disk just like you would any regular disk.

   3. When 'Insert your TRSDOS disk' is displayed, insert the disk which you desire to upgrade in drive 0.

4. **Under no circumstances** remove your disk until the message 'Press RESET' is displayed.

5. Answer the prompts for each modification to be made. You may wish to refer to the description of each modification before proceeding.

6. When the message 'ALL modifications complete' is displayed, re-boot the disk and be amazed at the speed of the BOOT.

Note that all error messages in the transfer proccess are printed using the standard TRSDOS error codes. An error 24 indicates that a NON-TRSDOS disk was inserted. If you do get an error, correct the problem and go to your back up copy.

Take special care not to destroy the distribution diskette. This diskette does not contain any TRSDOS files, or even a directory. It CANNOT be backed up!!! If it is handled properly, it should never give you a problem. If the disk does somehow become damaged, you may return it to RACET computes with $15 for a replacement.

DESCRIPTION OF EACH MODIFICATION

This system peforms a series of hidden mandatory enhancements in addition to the six optional modifications offered. These hidden enhancements should not interfere with any existing systems. The optional enhancements will work on all standard TRSDOS disks. Some disks may have already been modified by the user which may conflict with some of the enhancements. The recommended procedure is to apply all the modifications you desire and check to see if the system works. If not, either use a standard TRSDOS disk or only apply the modifications which work on your system.

MANDATORY CHANGES: When you boot your new disk, the disk name will be displayed in the upper left hand corner of the screen. If the VERIFY DETECT modification has also been made, the disk name will not be immediately cleared from the screen.

NOTE: The first five of the following six optional patches are reverseable. If you upgrade the same disk twice, your new selections will take effect. Once the FAST SYSTEM LOADER is installed it will not be removed no matter what you may answer in subsequent upgrades.

DATE/TIME ENTRY CHANGE: This configures the system so that the time and date need be entered only ONCE after a power-up. The existing time and date will be used and automatically displayed on any subsequent boot.

On power-up, the normal date prompt is displayed. If you have patched out the normal date prompt using the standard Radio Shack patch, nothing will be displayed and the date will be set to 00/00/0000 on power-up and all subsequent boots. Power-up is detected by checking whether or not a year between 1900-1999 has been previously entered. Therefore if you set the date to 0000, the program will never realize that the computer has already been on. It is therefore recommended that you do not patch out the DATE/TIME prompts, just answer them the first time and you will not have to worry about them again.

VERIFY DETECT CHANGE: This is the main modification which speeds up computer operation. The other modifications only affect the BOOT. Your new disk will run at the same speed as if VERIFY DETECT had been turned OFF - except that the reliability features of VERIFY DETECT will be retained.

The features of VERIFY DETECT will always be peformed, even when a person or program has turned VERIFY DETECT OFF. This is extremely benefical when running programs like SCRIPSIT because SCRIPSIT automatically turns OFF VERIFY DETECT and NEVER TURNS IT BACK ON! While SCRIPSIT will run at the same speed with this system, it will be **more reliable** because the VERIFY DETECT will be done. (SEE NOTE ON SCRIPSIT IMPLEMENTATION)

LOGO PATCH: This eliminates the TANDY CORP logo at the end of every boot. It is recommended because one second is saved by not having to print the logo.

DIAGNOSTICS ON POWER UP ONLY: Highly recommended. This modification performs the main diagnostics only the first time in the morning. There is little need to ever do them again on subsequent boots. A small set of diagnostics is ALWAYS peformed by the boot ROM on every RESET anyway. This modification saves 7 seconds on every subsequent boot.

TOTAL ELIMINATION OF DIAGNOSTICS: This modification is not recommended for regular application environments. It is provided for development applications where power-down's and reset's are peformed continuously. Go ahead and use it if you trust your computer.

FAST SYSTEM LOAD: This modification loads TRSDOS from your disk at 5 times normal speed during the boot. Your disk MUST have been last formatted with the STANDARD TRSDOS 2.0 format program for this to work. An XFERSYS created disk may not be used.

SCRIPSIT IMPLIMENTATION: As described, nearly all programs will work with this system. Unfortunately, SCRIPSIT 2.0 is the exception because it illegally manipulates critical portions of TRSDOS. This only causes a problem if you have selected the VERIFY DETECT change. The following patches may be used to make SCRIPSIT 2.0 behave properley. While the resulting SCRIPSIT program will work on any version of TRSDOS, it will be most efficient when used after a disk with the VERIFY DETECT speed up change has been booted. There is no need to patch SCRIPSIT 1.0.

```
PATCH SCRIPSIT A=D0E2 F=E5 C=C9
PATCH SCRIPSIT A=D0EF F=E5 C=C9
```

ADDITITIONAL COMMENTS

This system only uses extra memory at boot time. In normal operation no additional memory is used. On the boot itself memory from D000-EF00 is destroyed. This is usually of no consequence, however when debugging programs it may be undesirable. If you need to have this memory protected, boot on a standard disk.

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11341-Replacement SPEED-UP **REGISTRATION**

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