Converting Radio Shack TRSDOS Programs
to TRSDOS-II

January 1, 1983

What is TRSDOS-II?

TRSDOS-II is a greatly enhanced version of the TRSDOS that
originally was introduced with the TRS-8Ø Model II.

TRSDOS-II can be used with either floppy diskette or hard
disk drives. It stores and retrieves information much
faster, and can store more information per disk.

Can You Use Your TRSDOS Programs Under TRSDOS-II?

Usually you can; but there's more involved than simply
running your program.

> **Note:** Some applications may not fit on
> single-sided TRSDOS-II 4.2 diskettes. You may try
> to convert them, using a minimum system diskette.
> If you continue to get a Disk Space Full error,
> run them under TRSDOS 2.Øa as described in your
> application program manual(s). Thinline drive
> users should use TRSDOS 2.Øb.

TRSDOS formats floppy diskettes to 26 sectors per track.
TRSDOS-II formats floppy diskettes to 32 sectors per track.
Because of this different format, you cannot read or write
to a TRSDOS-formatted diskette directly with TRSDOS-II.

To use programs that are on TRSDOS-formatted diskettes, you
must copy the programs and data to disks formatted by
TRSDOS-II. A special command, FCOPY, lets you do this as
easily as possible.

> **Note:** You can run all single-user Model 16
> software under TRSDOS-II without FCOPYing. Use as
> instructed in your application manuals.

This addendum describes how to convert Radio Shack TRSDOS
programs to TRSDOS-II Version 4.2 and run them as TRSDOS-II
programs.

You may use the procedure to convert your own programs, as
well as Radio Shack programs. Before you do, however, you
should refer to Appendix E of your TRSDOS-II Reference
Manual. This appendix describes the differences between
TRSDOS and TRSDOS-II. Note the differences and how they may
affect your program.

If you have not done so, please stop and read your owner's
or startup manual. It covers some important information
about your computer that is not covered in this addendum.
Hard disk users should also have read the Hard Disk Owner's
Manual. Connect and initialize your hard disk according to
instructions in that manual. Initialize with TRSDOS-II
Version 4.2.

> SCRIPSIT™ (#26-4531) Users: Floppy disk SCRIPSIT
> cannot be converted to TRSDOS-II. It must be used
> with the TRSDOS supplied on the SCRIPSIT diskette.
> Use it as described in the SCRIPSIT manual.
>
> SCRIPSIT HD (#26-4831), however, can be converted
> to TRSDOS-II and then run after modification (see
> "Programs that Require Modification"). SCRIPSIT
> HD Spelling and Hyphenation Dictionary also can be
> converted. When upgrading to hard disk, see your
> Radio Shack dealer about upgrade kits.

Using FCOPY to Convert Your Programs

To convert an application program so that it runs under
TRSDOS-II, follow these steps:

1. FCOPY your application program to TRSDOS-II.

    (Accounts Receivable, Catalog #26-46Ø4, is an
    exception. Modify the program, as instructed on
    Page 1Ø, then FCOPY it.

2. FCOPY your data diskettes to TRSDOS-II.

3. Determine if your program requires modification,
    then make any necessary changes. (After
    conversion, most Radio Shack TRSDOS programs
    run directly under TRSDOS-II. A few, however,
    require slight modification.)

4. Read "Executing Your Radio Shack TRSDOS-II
    Programs" in this addendum before you run your
    converted programs.

Before FCOPYing, make backup copies of your Radio Shack
program disks and data disks. (Instructions for backup are
in the application manual that was provided with your Radio
Shack program.) Store the originals and use the backups
when FCOPYing.

Thinline Drive Users: Use your TRSDOS 2.Øb System Diskette
to back up your applications diskettes before converting.
Do this as described in your owner's or startup manual.

The FCOPY Command

The FCOPY command copies files from floppy diskette
TRSDOS 1.2, 1.2a, 2.0, 2.0a, or 2.0b to a disk formatted by
TRSDOS-II (and vice versa except to TRSDOS 1.2 or 1.2a).

The command syntax is:

    FCOPY source to destination {options}

The source is one of the following:
    filespec:drive
    wildcard:drive
    drive

The destination is one of the following:
    filespec:drive, only if the source is also a
            filespec
    drive

drive is a drive number from 0-7.

FCOPY options include:
    SYS copies language and application programs. If
        you use SYS, the destination must be the primary
        drive (Drive 0 for floppy, Drive 4 for hard). If
        you omit this option, only user files are copied.
    ALL copies all user files. If you use a drive
        number as the source, you must use ALL.

(For information on other FCOPY options, see the FCOPY
utility in your TRSDOS-II Reference Manual.)

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Step 1 / FCOPY Your Application Program to TRSDOS-II

You can use FCOPY on a multi-drive system only. If you have a single-drive system, see your Radio Shack dealer for assistance.

Floppy Diskette Users:

1.   Insert your TRSDOS-II 4.2 System Diskette into Drive Ø.

2.   Make a backup of the diskette.

      Note: You may wish to delete files from the backup, making it a minimum system diskette. If so, follow the instructions in your owner's or startup manual.

3.   Label the backup as a TRSDOS-II diskette, including the name of the application you are copying. For example:

                      General Ledger
                 TRSDOS-II Version 4.2
                       Drive Ø

4.   Insert this diskette in Drive Ø.

5.   Insert your TRSDOS application diskette in Drive 1.

6.   Enter the FCOPY command at TRSDOS-II Ready. The form that is easiest to use is:

          FCOPY 1 TO Ø {SYS,ALL} <ENTER>

      This copies all files, system and user, that are on the TRSDOS-formatted diskette in Drive 1 to the TRSDOS-II diskette in Drive Ø.

Hard Disk Users:

1.   Make sure your hard disk system is formatted and running under TRSDOS-II Version 4.2.

2.   Insert your TRSDOS application diskette in Drive Ø.

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3.   Enter the FCOPY command at TRSDOS-II Ready. The form
     that is easiest to use is:

          FCOPY Ø TO 4 {SYS,ALL} <ENTER>

     This copies all files, system and user, that are on the
     TRSDOS application diskette in Drive Ø to Drive **4**,
     which is formatted by TRSDOS-II.

Alternate Method: FCOPYing A File. If you know the
filespecs of the programs to be converted, you may want to
use a different syntax form:

          FCOPY filespec:drive TO drive

This is especially useful when you convert your own
programs.

     For example:

               FCOPY SAMPLE/DAT:Ø TO 4

     copies the file SAMPLE/DAT from the diskette in Drive Ø
     to Drive 4, which is formatted by TRSDOS-II.

Displaying the Directory. To see a directory listing of
your TRSDOS diskette while operating under TRSDOS-II, use
the following syntax form:

          FCOPY drive {DIR,SYS}

For example:

          FCOPY 1 {DIR,SYS}

displays a directory of all system and user files that are
on the TRSDOS diskette in Drive 1.

Step 2 / FCOPY Your Data Diskettes to TRSDOS-II

Floppy Diskette Users:

1. To FCOPY a TRSDOS data diskette (Drive 1, 2, or 3), you
    must first format a data diskette with TRSDOS-II.

    Make sure you have a TRSDOS-II system diskette in
    Drive Ø.

    Insert a blank diskette (single-sided for Enhanced
    Model II users, double-sided for Model 16 and Model 12
    users) in Drive 1. At TRSDOS-II Ready, type:

        FORMAT 1 <ENTER>

    This prepares the diskette for data storage under
    TRSDOS-II.

2a. If you have more than two drives, leave the TRSDOS-II
    data diskette in Drive 1. Insert the TRSDOS data
    diskette in Drive 2.

        FCOPY 2 TO 1 {SYS,ALL} <ENTER>

2b. If you have only two drives, type:

        FCOPY 1 TO 1 {SYS,ALL} <ENTER>

    FCOPY prompts you when to swap source (TRSDOS data) and
    destination (TRSDOS-II data) diskettes.

3. TRSDOS-II stores your data on the TRSDOS-II diskette.
    When it finishes the conversion, TRSDOS-II displays the
    message **FCOPY Complete**.

Hard Disk Users:

1. Insert the TRSDOS data diskette (source diskette) into
    Drive Ø.

2. At TRSDOS-II Ready, type:

        FCOPY Ø TO 4 {SYS,ALL} <ENTER>

3. TRSDOS-II stores your data on Drive 4. When it
    finishes the conversion, TRSDOS-II displays the message
    FCOPY Complete.

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Step 3 / Modify Your Program (If Necessary)

As of January 1, 1983, most Radio Shack application programs run under TRSDOS-II with no modification. Others require slight modification before they will run. (Only a few programs do not convert to TRSDOS-II.)

The charts on the following pages show:

- Programs that do not convert to TRSDOS-II

- Programs that do not require modification

- Programs that require modification (and the patches needed to make the modifications)

Programs are listed according to catalog number, so you may locate your programs easily.

For changes in program status, check with the nearest Radio Shack Computer Center or the TRS-8Ø Microcomputer Newsletter.

Note: If a program consists of more than one diskette, you must convert each diskette. Use the procedure described previously.

Programs That Do **Not** Convert to TRSDOS-II

Catalog Number	Program Name
26-45Ø2	Inventory Management System
26-451Ø	Versafile
26-4554	A/R Series I (Peachtree)
26-4531	SCRIPSIT 2.Ø
26-4534	SCRIPSIT Dictionary
26-471Ø	Program Editor
26-4714	ReformaTTer 3741
26-4715	Bisync-327Ø
26-4716	Bisync-378Ø

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Programs That Do **Not** Require Modification

```
==================================================================
Catalog No.          Program Name
------------------------------------------------------------------
   26-4104           Graphics BASIC
   26-4501           General Ledger Ver. 2.1
   26-4503           Payroll
   26-4505           Accounts Payable
   26-4507           Mailing List II
   26-4508           Medical Office System
   26-4509           Manufacturing Inventory System
   26-4513           Job Costing
   26-4515*          Profile Plus
   26-4517           Profile Upgrade
   26-4520           Time Accounting
   26-4521           VisiCalc Enhanced
   26-4525           Electronic Broker
   26-4536¢          SCRIPSIT Plotter/Driver
   26-4545           Litigation Support
   26-4555           Menu Generator
   26-4556           Profile Forms
   26-4557           Profile Archive
   26-4558           Profile Prosort
   26-4560           WESTLAW
   26-4601           General Ledger (3 Diskettes)
   26-4602**         Inventory Control System -- Multi Drive
   26-4603           Payroll (3 Diskettes)
   26-4604           Accounts Receivable (3 Diskettes)
   26-4605           Accounts Payable (3 Diskettes)
   26-4607           Order Entry/ICS (3 Diskettes)
   26-4608           Sales Analysis
   26-4621           Personnel Search
   26-4703           COBOL Development System
   26-4704           COBOL Run-time
   26-4707           COBOL Generator
   26-4712           Assembly Language Development System
   26-4713           Editor/Assembler, Series I
   26-4802           Inventory Control System HD
   26-4834           SCRIPSIT Dictionary HD
==================================================================
```

*   When using Profile Plus with Litigation Support
     (26-4545) or Personnel Search (26-4621), there is a
     filename conflict with the Module "M". See your Profile
     Plus manual for instructions on renaming the file.

¢   If DOCUMENT/CTL already exists, rename the file before
     converting the Plotter/Driver to hard disk.

**   See "Special Notes to Hard Disk Users."

Programs That Require Modification

In the chart below, "Hard Disk Only" indicates that the
modification is needed for hard disk use only. If this note
is omitted, the modification is needed for both floppy and
hard disk use.

Type the patches at TRSDOS-II Ready, unless otherwise
instructed.

Make sure you read "Executing your Radio Shack TRSDOS-II
Programs" before you run your converted programs.


```
===================================================================
Catalog #:      26-45Ø4*                        Hard Disk Only
Program Name:   Accounts Receivable (Ver. 2.1)
Comment:   If you use Accounts Receivable with General
           Ledger (26-45Ø1), changes are required before
           FCOPYing.  Insert your A/R diskette into Drive Ø.
           Reset your system and press <REPEAT> <BREAK> to
           operate under floppy control.  At TRSDOS Ready,
           type:

           PATCH ARGL  A=FØØB F=476C C=4152
           RENAME Glbatch ARbatch
           PATCH ARbatch R=1, B=1Ø F=476C, C=4152
           PATCH ARbatch R=34, B=2Ø6 F=476C, C=4152
-------------------------------------------------------------------
Catalog #:      26-4511                         Hard Disk Only
Program Name:   VisiCalc
Comment:   Does not scan for files.  To have it scan hard
           disk, specify Drive 4 as /SL:4.
-------------------------------------------------------------------
Catalog #:      26-4512                         Hard Disk Only
Program Name:   Profile
Type:           PATCH CREATE/EFC A=51AE F=34 C=38
===================================================================
*    See "Special Notes to Hard Disk Users."
```

Programs That Require Modification (Continued)

```
==================================================================
Catalog #:        26-4514                      Hard Disk Only
Program Name:     Order Entry with Inventory Control (R/S)
Comment:          Do not "DO CONVERT" if you are interfacing
                  Order Entry to Accounts Receivable on hard
                  disk.  FCOPY the A/R diskette(s) to hard
                  disk.  Then FCOPY the OE diskette(s),
                  answering Y to the "Existing File, Copy
                  Over?" prompts.
------------------------------------------------------------------
Catalog #:        26-4540                      Hard Disk Only
Program Name:     Statistical Analysis (DFILE/BAS only)
Comment:          To allow the "Directory" option to accept
                  drive numbers 4-7, change Lines 13000 and
                  13010.  Do this from BASIC.
```

Existing Line 13000:
13000 CLS:INPUT "DIRECTORY OF FILES ON WHICH DISK DRIVE
(0-3) ";J%

Change Line 13000 to:
13000 CLS:INPUT "DIRECTORY OF FILES ON WHICH DISK DRIVE
(0-7) ";J%

Note: The prompt is changed from "(0-3)" to "(0-7)."

Existing Line 13010:
13010 IF J% <0 OR J% >3 THEN 1300

Change Line 13010 to:
13010 IF J% <0 OR J% >7 THEN 13000 ELSE SYSTEM "DIR"+
STR$(J%): GOTO 13060
Note: The incorrect branch to Line 1300 is corrected to
Line 13000.

TRSDOS-II does not allow floppy diskette access for the DIR
command. If you try to read the directory of a floppy
drive, TRSDOS-II gives an Error 39 (illegal input/output
attempt).
```
==================================================================
```

Programs That Require Modification (Continued)

==

```
Catalog #:       26-4701
Program Name:    FORTRAN
Type:            PATCH EDIT A=5D53 F=CA635D C=000000
                 PATCH EDIT A=5EDA F=60 C=61
```

```
Catalog #:       26-4702
Program Name:    Editor Assembler
Type:            PATCH EDIT A=5D53 F=CA635D C=000000
                 PATCH EDIT A=5EDA F=60 C=61
```

```
Catalog #:       26-4705
Program Name:    Compiler BASIC
Type:
```

```
PATCH RSBASIC/LIO A=377D F=FD5609FD5E08 C=0147000090000
PATCH RSBASIC/LIO A=3786 F=ED53 C=0022
PATCH RSBASIC/OLF R=156 B=126 F=FD5609FD5E08 C=0147000090000
PATCH RSBASIC/OLF R=156 B=135 F=ED53 C=0022
```

```
PATCH BEDIT A=4184 F=3E30CF C=000000
```

When RUNBASIC is chaining a series of programs under the 4.2
Hard Disk operating system, it gives an Error 25 (Password
Protection) when it attempts to open the ISAM module a
second time. This patch corrects the problem:

```
PATCH RUNBASIC A=2AF2 F=11612B C=CD9D2B
PATCH RUNBASIC A=2B9D F=000000000000000000000
                     C=11612B2323233652C9
```
==

Programs That Require Modification (Continued)

```
================================================================
Catalog #:      26-4706                        Hard Disk Only
Program Name:  Compiler BASIC Run-time
Type:

PATCH RSBASIC/LIO A=377D F=FD5609FD5E08 C=0147000090000
PATCH RSBASIC/LIO A=3786 F=ED53 C=0022
----------------------------------------------------------------
Catalog #:      26-4831                        Hard Disk Only
Program Name:  SCRIPSIT HD
Comment:  Install SCRIPSIT HD on your hard disk, as
          instructed in your application manual.  Then type
          the following patches.  Do not execute FLOPPY
          OFF before running the program.

    PATCH SCRIPSIT/CMD A=9557 F=9505 C=D605
    PATCH SCRIPSIT/CMD A=955A F=B405 C=F505
    PATCH SCRIPSIT/CMD A=955D F=351A C=6A1A
    PATCH SCRIPSIT/CMD A=955F F=1703 C=4503
    PATCH SCRIPSIT A=E07C F=9505 C=D605
    PATCH SCRIPSIT A=E081 F=B405 C=F505
================================================================
```

Executing Your Radio Shack TRSDOS-II Programs

Floppy Diskette Users:

After FCOPYing and changing (if necessary) your Radio Shack programs, you can execute them as before. However, if you are reducing the number of drives used, be sure to type FLOPPY OFF (as below) before running the programs.

Always have FLOPPY ON when FCOPYing.

Hard Disk Users:

After FCOPYing and changing (if necessary) your Radio Shack programs, you must turn FLOPPY OFF before executing each program. For example, to run Job Costing (26-4513), type:

        FLOPPY OFF <ENTER>
        JB <ENTER>

Always have FLOPPY ON when FCOPYing.

Special Notes to Hard Disk Users:

===
Accounts Receivable (26-4504) Ver. 2.1

Reports - Alphabetic Account List

This listing program has an absolute capacity of 2,000 accounts for floppy or hard disk use. If your A/R system exceeds this capacity, the program processes only the first 1,000 accounts.

Inventory Control System (ICS) - Multi Drive (26-4602)

This program is not intended to operate on hard disk. If you put it on hard disk, you must set it up as if it were one disk. It will be limited to 3,000 inventory items.
===

Special Notes to Hard Disk Users:

```
==================================================================
      26-4601   General Ledger (Ver. 1.0)
      26-4604   Accounts Receivable (Ver. 1.0)
      26-4605   Accounts Payable (Ver. 1.0)
      26-4607   Order Entry/Inventory (Ver. 1.0)
      26-4608   Sales Analysis (Ver. 1.0)
```

If you are going to run two or more of the above programs, be aware that:

.   The first time you display each menu of each program, a copyright notice is displayed. The first line of the copyright notice is the name of the program (for example, GENERAL LEDGER). With multiple programs, however, the copyright notice is from the last version of the program CPYRIGHT/COB that was FCOPYed to hard disk. This has no adverse effect on the operation of your programs.

If you are going to run more than one of these programs -- G/L, A/R or A/P -- on your hard disk, note that:

.   Whenever you exit the maintenance program for Company File, you return to the last version of the menu that was FCOPYed (COMPMNT/COB). To return to your original program, press <TAB> at the menu. This returns you to TRSDOS-II Ready where you can start your program again.

     The same is true for the Valid GL Account File Maintenance when using A/R and A/P together on the same hard disk (ACCTMNT/COB).
```
==================================================================
```

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