

Price \$1.00

CATALOG # 2

Presenting the most **POWERFUL** software from
the most **POWERFUL** vendor. Brought to you

BY

POWERSOFT

a div. of Breeze/QSD, Inc.



Breeze/QSD, Inc.
11500 Stemmons Exp., Suite 125
Dallas, Texas 75229

"I believe Super Utility or Super Utility Plus should be present at every serious TRS-80 disk installation."

(We didn't say this; Paul Wiener did in 80 Microcomputing, Jan. '81. . .but we sure agree with him!)

Get Yourself a "Super" Utility from the most powerful software vendor.



NOW AT SPECIAL PRICES:

Super Utility*

- Mod I, single density only
- 24K machine language
- Zap
- Purge
- Format
- Special format
- Format without erase
- Disk copy
- Special disk copy
- Tape copy
- Disk repair
- Memory utility
- Protected disk
- MORE

• \$29.95
(Reduced from \$49.95)

*While they last!

Quick Fix*

- Mod I, single density only
- Zap
- Purge
- Format
- Format without erase
- Copy
- Disk repair
- Recover killed files
- Memory utility
- TRS DOS, New DOS + (2.1) only
- MORE

• \$19.95
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*While they last!

SuperUtility Plus

You heard about it! You read about it (80 Microcomputing). Now get the "coddlec" at a special price! Compatible with Mod I, and Mod III, and all the current operating systems! Copy files from any DOS to any DOS, Mod I or III, without converting!

- Zap
- Purge
- Format
- Special Format
- Format without erase
- Disk copy
- Special disk copy
- Tape copy
- Disk repair
- Memory
- File Utility Configurable System
- MUCH MORE
- Mod I & Mod III on Same Disk

• \$49.95
(Reduced from \$124.95)

Dealers! Place your orders now at this special price!

SPECIAL PRICES GOOD FOR LIMITED TIME ONLY... HURRY!

"I believe Super Utility or Super Utility Plus should be present at every serious TRS-80 disk installation."

I believe Super Utility or Super Utility Plus should be present at every serious TRS-80 disk installation. The value of the convenience and hours saved by Super Utility (or Plus) is well worth the purchase price. ■

IN HOUSE Products:

*** Utilities by Kim Watt ***



SUPER UTILITY PLUS - AVAILABLE NOW for Mod I or III !!
Works in Single or Double density
on ALL Mod I/III operating systems!
The BEST, no doubt. 48K required.
(Protected media)

See 5 page review on page 366 in the Jan. '82 80-Micro...
"A MUST HAVE program" and "WELL worth the purchase price."

New Packaging Policy! MOD I AND III versions on SAME disk!
NEW LOW PRICE! \$49.95

Both versions on disk. Boots up on EITHER machine!
80 track version available on request.

.....
New Books on Super Utility Plus:

Super Utility Plus Tech Manual - by Kim watt (New!) 14.95
Inside Super Utility Plus - by Paul Wiener (New!) 19.95
.....

SUPER UTILITY - Mod I disk ONLY ..(NEW Lower Price!)... disk 29.95
This is the one that started it all!
All the utilities you need for a
single density normal config.
environment. (Protected media)
TRSDOS/Newdos+ Single Den. ONLY!

Quick-Fix <Mod I only> - by Kim Watt (NEW Lower Price!)-disk 19.95
Most all of the features of
Super Utility, except Special Copy &
Tape Copy. Works on single density
Mod I TRSDOS/Newdos 2.1 only. Patch
for SD LDOS available. Not protected.

Make-80 <Mod I> - by Kim Watt disk 14.95
Make-80 <Mod III> - by Kim Watt (New!) disk 24.95
Make-80 is for the TRS-80 user that wants
to physically convert a 35/40 track disk
into an 80 track disk. The program boots
on either a 35, 40, 80 track disk drive.

This is ideal if you have an 80 track drive for Drive 0! You can now buy "canned software"! * Note: Does not necessarily work on "protected" media.

BRAND NEW from Kim Watt at a *special* introductory offer!

PowerDraw - by Kim Watt (New!) Mod I or III disk 39.95 => A full screen graphics editor!! <= This program was written by Kim for himself as an aid in writing machine language games and screens. It grew and grew until it really turned into a heck of a program! All assembly language. You can create screens of graphics, save to disk, merge them, run in sequence like a movie, merge text with graphics, and write your own games! Saves graphics to disk, so that they can be recalled at a later time! Cursor controlled. Writes to disk or tape in EDAS, EDTASM, BASIC data statements, BASIC program lines, or condensed tokens format! Many more features! Comes complete with PDRAW/CMD as well as three other utilities written by Kim for extending the use of PowerDraw. Also has 3 printer drivers including one that is specifically written for the Epson printer, with or without Graftrax-80(tm)! That means all the graphics you design may be printed out PERFECTLY on your printer!

UTILITY DISKS for LDOS (Mod I, III, LX-80, or Laredo Rigid)

Kim Watt has written a fantastic series of utilities to support the LDOS(tm) Operating System from LSI. (See full page description for more details).

Each UTILITY package (#2-8) contains all files mentioned, and boots up on Mod I or III. LX-80 users may read the disks as a 35 trk single density diskette. Also works with Laredo Hard Drive!

Utility Disks for LDOS #2-8 are priced at only \$29.95 per disk.

A proven winner! Hundreds of satisfied owners! -SCRIPPLUS-

SCRIPPLUS 3.0 Mod I/III disk - 39.95 Will work with ALL DOS's (Mod I or III). Has MANY new features, such as KILL a file, MERGE a file, Double Density Directories, PAUSE, alphabetized directories from SCRIPPLUS, with FREE GRANS displayed and MORE!

The BASIC/S Compiler System for Mod I & III disk 48K 89.95

PowerPrint - NEW! Totally control your EPSON printer with or without GRAFTRAX. Lets you use one character set after another with out resetting dip switches. Also lets you inter-mix graphics with your text. Saves your created "pages" to tape or disk. Also contains a data manager for storing files.
tape - 24.95
disk - 29.95

PowerTerm/CMD - a SMART Communications package for Mod I or Mod III disk. (works with ALL operating systems. Complete with BASIC/S II source code so that you may modify and re-compile to your own specifications! 29.95

The Green Window <TRS Mod I or III. Specify> 19.95

The Green Window <TRS Mod II or Leedex 100. Specify> 24.95

The BEST!! See CREATIVE COMPUTING June '81. "Overall best on the market..." George Blank

Outside Products distributed and ENDORSED by Breeze/QSD:

LDOS 5.1 - New REDUCED price on this fantastic operating system for the Mod I or III! Full blown with 200+ page manual.(Mod I or III specify) -- \$129.95

MultiDos - Brand new super-friendly operating system for Mod I or III (specify). This is a good choice to step up from TRSDOS(c), if you want a system that is FAST, EASY, and FRIENDLY! Compatible with other major operating systems. Complete with a 65+ page manual. Written by Vern Hester. Contains Vern's SUPER BASIC!

Mod I single density boot -- \$79.95
Mod I double density boot -- \$79.95
Mod III version -- \$79.95

DOSPLUS 3.4 - You've read all the ads! We've got it in stock! 200+ Pages of documentation included.

Mod I single density boot -- \$149.95
Mod I double density boot -- \$149.95
Mod III version -- \$149.95

LAZY WRITER - Take the best word processing you've seen on ANY computer and put all the best features together and the result is LAZY WRITER! Flexible! Send control codes to your printer, link together files of any length, formatted text may be sent to a disk file and more! Mod I/III disk. \$175.00

ST80 III <TRS I> The Standard! by Lance Micklus \$150.00
 ST80 III <TRS Mod III> (The Best for the Mod III!) \$150.00
 ST80 III <TRS Mod II> (The Best for Mod II!) 8" disk \$200.00

Modem-80 <TRS I/III> - by Les Mikesell
 a full communications package including a HOST
 module for unattended operation. \$ 39.95

Maxi Manager by Dale Kubler <Mod I/III disk> \$ 99.95
 one of the finest data base systems
 available for the Mod I/III.

 *** Business Packages ***

We have TWO fully coordinated business packages for the Mod III that
 WILL work with a hard drive also, if more storage is required. They
 will print invoices on plain paper or standard NEBS forms. 48K and at
 least 2 drives are necessary. 80 trackers or three 40's work real nice
 also.

MICROCASH - Contains Accounts Receivable, Inventory, Cash Register,
 and Invoicer. Fully integrated. \$200

MANUFACTURER'S ACCOUNT'S RECEIVABLE - Contains A/R, Inventory,
 Invoicing, Discounting, and the ability to create stock numbers from
 raw materials for accurate cost per unit for the finished product.
 Fully integrated. \$200

 *** Books ***

Super Utility Plus Tech Manual - by Kim Watt (New!) 14.95
 Inside Super Utility Plus-by Paul Wiener/Renato Reyes PHD 19.95

 *** Assorted Goodies ***

High Resolution Graphics Boards for Models I or III from Micro-Labs.

The Graphyx Solution (MOD III Only) \$299.95
 512 x 192 dots (256 x 192, 32 charc. mode)
 contains 12288 bytes of additional read/write
 memory that is bank selected. No conflicts!
 UNBELIEVABLE resolution! Dot graphics/programable.

The above comes complete with documentation, hardware, and
 software. Requires NO soldering!! Unmatched performance!
 Fully dot addressable. Prints out on Hi-Res printers like
 Paper Tiger and Epson with Graftrax-80(tm).

An
innovative
word
processing
system
for
TRS-80*
MOD I
&
MOD III



© 1980
by
David
Welsh

MOD I & III \$175.00
Requires 2 drives.

an innovative word processing system

Lazy Writer is a machine language word processing program for the TRS-80 Model I and Model III. Since its introduction in 1980, copies of Lazy Writer have found their way all over the world. Lazy Writer is helping engineers in Singapore, editors in Japan, lawyers in Switzerland, medical researchers in Australia, and thousands of businesspeople in the United States work more efficiently. It could be helping you too. Word processing means you enter text from your keyboard, make changes to it on the screen, store it on disk, and print it out whenever you want. To use Lazy Writer, you need 32K of memory, at least one disk drive, and a printer. You use Lazy Writer with a Disk Operating System (DOS), either TRSDOS or any of the popular DOS's sold for use with a TRS-80.

Lazy Writer is probably the easiest word processor to use of any on the market. Our users and reviewers have consistently mentioned how easy this program is to learn. Lazy Writer has two modes of operation: Text Entry and Editing. Once you have entered and edited your text, a simple command loads the printer module and you're ready for hard copy.

A Readable Manual

The Lazy Writer manual has over 100 pages and is written in plain English, like this overview. We do not assume you are an expert word processor, we help you become one. You do not need to listen to cassettes or take classes to learn to use Lazy Writer. Our users tell us Lazy Writer is much easier to learn than Scripsit or other programs on the market. The manual has a table of contents, index, and Reference Card. Here is what the July 1981 issue of Creative Computing said about the manual: "All the functions of Lazy Writer are covered well in its documentation, which ranks among the best I have seen. It is on a par with the construction manuals for Heathkits and Dynakit's." Since that article, the manual has been made even better.

You will also receive newsletters to keep you up to date on any new versions of the program, extensions for it, and tips on how to make use of the many features of Lazy Writer. Updates involving any fixes to the program will be provided at nominal cost.

Here Are Quotes From Letters From Lazy Writer Users:

- "In all the purchases I have made in a lifetime of trying something new, this is the best buy I have made."
- "The more I read the manual and the more I use the program, the more I am amazed at the things it can do."
- "I am most impressed with the program and even though I have been using Electric Pencil for 2 years, I am changing over to Lazy Writer full time."
- "I have fallen completely, madly in love with it. It is so good that I may not sell my TRS-80 . . ."
- "I feel it will meet, and possibly exceed, all my needs. I am very impressed."
- "I love the system and find something new practically every time I use it."
- "I believe your product Lazy Writer is the finest word processor for the TRS-80 available. I reviewed the others first hand and found Pencil to be lacking in features and Scripsit too difficult to use."
- " . . . you have done a fabulous job."
- "I am a constant user of your impressive word processor. It works well and adds considerably to the value of my home computer . . ."
- "Lazy Writer is an amazing word processor. The amount of things I have been able to do with it have made its versatility stand out. I do not even use Scripsit at all now."
- "I'm writing this letter to let you know how impressed I am with your Lazy Writer word processor. I have only used it a short time, but I feel it is easy to use and feature-wise compares very favorably with the editors I work with on large mini-computers."
- "I have Scripsit for the Model III and I must admit that Lazy Writer is superior and easy to use."
- "You have a very nice program."
- "I use your Lazy Writer word processor daily and am completely delighted with its product (on my Epson MX-80) and its ease of operation."
- "I have just purchased your Lazy Writer program and am very impressed. I have been attempting to use Scripsit for some time and find it very constraining. I look forward to using Lazy Writer extensively."
- "Although I have only bought Lazy Writer a few days ago, I have found it extremely easy to use."
- "Thank you for a great product and for your continued support of it. In both capability and support, it surely leaves Scripsit for dead."

Lazy Writer® Mod I or III
\$175.00

*Requires 2 Disk Drives to convert only.

**Proportional Spacing Option
Now Available!**

For:
Daisy Wheel III Printer . . . Only \$29.95
Centronics 737/739/LPIV . . . Only \$29.95
NEW Epson MX80
with Graftrax Only \$24.95

SCRIPPLUS 3.0

This is the ad you've seen over and over. We have sold literally hundreds of SCRIPPLUSes to satisfied owners all over the world. Many people want MORE information before they buy the program. They want to know HOW it patches in and HOW it send control codes to the printer. Here is that info:

How SCRIPPLUS patches in to YOUR copy of SCRIPSIT(tm):

The user BOOTS the SCRIPPLUS master disk in drive 0. He is then prompted to insert his SCRIPSIT disk and hit enter. This transfers the code to YOUR disk. Then depending if you are a Mod I, III, or using Mod I Scripsit on a III type:

```
SPLUS1 <enter>
SPLUS3 <enter> or
SPLUS123 <enter>
```

That's it! You will see, "Loading Scripsit" on the screen, and the next thing you know, OUR code and Scripsit merge in memory and a new file, SCRIPPLUS/CMD is dumped to your drive 0 disk! This file is NOT protected and may be copied as many times as necessary for protection. This is IMPORTANT to Mod III users! Also, if you just bought a Mod III, and only have Mod I Scripsit... No sweat! We have a patch for that to create a SCRIPPLUS Mod III from the Mod I version. The final CMD file is identical to the Mod III SCRIPPLUS.

How do you send control codes to the printer??

You use the Scripsit(tm) FORMAT line, as follows:

Say you want to send EXPANDED print to the printer on an Epson. Type,

```
>#14
```

That's it. That sends an LPRINT CHR\$(14) to the Epson. This is A very simple example, but ALL is possible! Superscripts, subscripts, underlining, etc. Let's you PAUSE printer output to type in someone's name, or change print wheels. This program was written specifically for the Epson printer, but will work on ANY printer that accepts CHR\$ control codes. You will have to read your printer manual to find these codes.

SCRIPPLUS 3.0 works on ALL the current versions of SCRIPSIT(tm). It also works on all the current operating systems. People have asked, "Will it work with Superscripts(tm)"? I will say, "NO", since we haven't seen it, and I'm sure a lot of code has been changed. We have it on order, however! You may order the manual for \$5, which is not refundable, if you would like full details on how the program works.

** SCRIPSIT is a registered trademark of TANDY Corp.

Scriplus is a modification to Scripsit[®] which enables you to take advantage of the special functions features, and print formats of your printer while your document is being printed. Allows you to:

change expanded print
change no. of characters per inch
or underline in mid-line!

- 1) Send commands to the printer to activate special formats!
- 2) SCRIPPLUS will NOT crash programs protected in hi-mem!
- 3) "END" returns to DOS READY instead of re-booting!
- 4) Initial line feed is changed to a carriage return to empty text buffer!
- 5) The use gets an ALPHABETIZED Directory (with FREE space shown) from within SCRIPPLUS!
- 6) Optionally select line feed after carriage return
- 7) Supports custom printer drivers (NOT included)
- 8) Modifies ALL versions of SCRIPSIT(tm) for Mod I or III. Allows you to use Mod I version on Mod III!
- 9) Printer can be STOPPED for insertion of text or forms alignment!
- 10) Inserted text can be edited prior to resumption of printing!
- 11) Files can be killed, loaded, merged, or chained from the SCRIPPLUS Directory!
- 12) Allows Mod III versions to be BACKED UP for your protection!
- 13) Works on ALL current major DOS's (Mod I or III)
- 14) Works with new 3.2 Mod III Scripsit on 1.3 DOS!
- 15) Specifically written for the MX-80, but will work with ANY printer that accepts CHR# codes for control!
- 16) Previous owners may send in their disks for upgrade (\$15)

\$39.95

BASIC DESIGN
INTRODUCES.....

POWER PRINT 80

WORD
PROCESSING
for the

MX-80

and the

MOD. III

Now you can have the kind of fun
you thought you'd have when you
purchased your MODEL III & MX-80.

FEATURES

(With/Without Graftrax 80...16-48k)

- * Model III basic & machine code
- * Printer commands inserted in text with single key
- * On screen, line length with alarm
- * Protected text memory
- * Full character editing including insert / delete
- * Block manipulations
- * Full graphics & graphic generator
- * Eight character column tab
- * Complete TAPE/DISK file management
- * Underlining & full punctuation
- * Easy to use program
- * Fast, screen oriented, keyboard input
- * THIS COVER WAS CREATED AND PRINTED USING POWER PRINT 80 ON THE MODEL III AND THE MX-80

There is nothing to figure or remember to use Power Print 80 to create forms like this page. This program is as simple to use as a typewriter and a drawing board. Graphics and text may be easily reviewed and edited prior to printing. Please specify tape or disk version. TAPE \$24.95 DISK \$29.95

NOTE: Power Print 80 requires either the original MX-80 or GRAFTRAX-80 and EPSON style cable. Graphics will not print on the new GRAFTRAX+ version of MX-80. YOU CAN INSTALL GRAFTRAX-80 IN THE NEW "+" MACHINES TO OBTAIN BLOCK GRAPHICS. ITALIC print requires GRAFTRAX-80 or GRAFTRAX+. All printer commands are written in basic and can be modified.

(c) 1981	
<h1>BASIC/S</h1>	
The BASIC/S Compiler System	by BILL STOCKWELL
Mod I or III - 48K required and 1 disk drive. (2 preferable)	Published by PowerSoft a div. of Breeze/QSD

The BASIC/S Compiler System consists of two main programs - BASIC/S and BASICSII/CMD - along with numerous supplementary files. Both BASIC/S and BASIC/S II are compilers for a large subset of TRS-80 Disk BASIC - the first one, BASIC/S, is itself a BASIC program while BASICSII/CMD is a machine language version, compiled by BASCOM (c). The difference between them is that BASIC/S supports the full BASIC/S subset, while BASIC/S II is an integer compiler - does not support floating point. Other than that, the two compilers support essentially the same BASIC subset. You get both compilers in one package; in general, one would want to use BASIC/S II (because of its speed), but when your application requires floating point, then BASIC/S is available.

Both compilers will run under virtually any Mod I/Mod III DOS. At least 48K and one disk drive are required to use BASIC/S. Two drives are certainly preferable.

Note : BASIC/S II does NOT run under Mod III TRSDOS.

It will compile up to a 260 line program - compiles directly into a /CMD file, no linking or run time module needed. No royalties are required for programs you write and compile with BASIC/S. The /CMD files created by BASIC/S are very reasonably sized - typically, they are only 1.2 - 2 times the size of your original BASIC source file. Quite often, if your source file is only 1 granule, then so is the /CMD file made by BASIC/S.

The name BASIC/S means BASIC/Subset - it doesn't compile full blown BASIC. It DOES support most of Level II Basic as well as the essential elements of sequential and random disk I/O, including LRL < 256. BASIC/S allows dimensioning arrays of all variable types, with up to two dimensions; any one program can have up to 20 arrays. Also, BASIC/S compiled programs can chain from one to another with no loss of variables.

BASIC/S syntax is in general much more restrictive than regular Disk BASIC - expressions need to be broken down to simple forms for the most part. So most programs will have to be rewritten to be compiled with BASIC/S. One area where the syntax is NOT so restrictive is in math expressions involving floating point variables (for BASIC/S, not BASIC/S II) - thus:

```
A=7*SIN(X+Y* $\cos$ (A+B/C)- $\sqrt$ (1/Z)*ARRAY(NZ))
```

would be perfectly OK (just be sure to dimension ARRAY !!)

Following is a list of the command/keywords/functions supported by BASIC/S :

DEF FN	OPEN ("R", "O", "I", "E")	LINE INPUT#	PRINT#
CLOSE	GET	PUT	FIELD
MKI	CVI	MKS	CVS
RND	RANDOM	CLS	LOF
PRINT	PRINT@	LPRINT	INPUT
CHR\$	VAL	STR\$	LEFT\$
MID\$ (both sides of =)	INSTR	INKEY\$	LEN
GOTO	GOSUB	RETURN	CINT
SET	RESET	POINT	PEEK
INP	OUT	AND	OR
NEXT	USR	DEFUSR	DATA
RESTORE	RUN (as in	RUN A\$, A\$=any dos command)	SIN
COS	TAN	ATN	EXP
ABS	SQR	INT	SET EOF
HEX\$	CMD	ON GOTO	ON ERROR
			CLEAR
			LSET
			IF
			ASC
			RIGHT\$
			CSNG
			POKE
			FOR
			READ
			LOG
			SCAN

The BASIC/S Compiler System (including BASIC/S and BASIC/S II) is available for \$89.95. The BASIC/S Compiler System Manual is available for \$25, of which \$10 is applicable toward the purchase of The BASIC/S System.

LDS (t)LSI UTILITY DISKS

from **LOWERSOFT**
a division of Breeze/QSD, Inc.

By: KIM HATT

UTILITY DISK

3 (c)1982 \$29.95

Disk #3 Includes:

- PCHECK/CMD - LDS Directory Check Utility. Checks a drive or a file, (GAT, HIT, BOOT, etc.) for integrity.
- PFIX/CMD - FIXES problem discovered by PCHECK/CMD. You may repair GAT or HIT table, repair BOOT sector, or repair FILE records. This program might fix that crashed disk that has you going nuts!

UTILITY DISK

5 (c)1982 \$29.95

Disk #5 Includes:

- PREFORM/CMD - Disk Re-Formatter Utility. Fixes CRC errors and "strengthens" the format on older disks. A FORMAT without ERASE utility! (5" floppy only)
- PVU/CMD - A Disk Verification Utility. Detects bad sectors. Fix them with PREFORM/CMD.
- PERASE/CMD - Disk Bulk Eraser (5" floppy only)

UTILITY DISK

7 (c)1982 \$29.95

Disk #7 Includes:

- PMOVE/CMD - A SUPER FAST Multiple Copy Utility!
- PDIRT/CMD - Read a Mod III TRSDOS directory from LDS!
- PASSGD/CMD - Removes passwords from A file or a WHOLE disk!
- PUN/CMD - UN-REPAIR a disk. (Mod I only)
- PEX/CMD - A disk exerciser for head cleaning kits.

UTILITY DISK

2 (c)1982 \$29.95

Disk #2 Includes:

PMOD/CMD - A Disk-File-Memory Modification Utility.

- PMOD,aaaa (display memory address)
- PMOD,filespec,aaaa (file to display, starting rel. sector)
- PMOD sb,c,d (drive,cylinder,sector to display)

UTILITY DISK

4 (c)1982 \$29.95

Disk #4 Includes:

- PFIND/CMD - FIND a string, replace a string, find a byte, find a WORD, replace a byte or word! FIND ANYTHING on the disk FAST! Replace it FAST!
- PCOMPARE/CMD - Compare a FILE or a sector to any other file or sector. Detects the minutest differences! Send the outputs from above to video or printer.

UTILITY DISK

6 (c)1982 \$29.95

Disk #6 Includes:

- PCLEAR/CMD- Erases unassigned sectors and Directory slots. Removes ALL traces of "killed" files!
- PSS/CMD - Sector Status Utility. Finds WHAT file is assigned to WHAT sector.
- PMAP/CMD - Disk-File Mapping Utility. Map a FILE or a disk! Shows exactly WHERE all files are with extents.

UTILITY DISK

8 (c)1982 \$29.95

Disk #8 Includes:

- PRIX/FLT-RIBB graphics
- PHelp/CMD - Instant HELP! Very complete. Saves time!
- PBOOT/FIX - Customize YOUR LDS Boot graphics and message!
- PFILT/FLT - A User Definable Filter. Very flexible!
- DVORAK/FLT - DVORAK/QUERTY Keyboard Filter.
- DVORAK/JCL - DVORAK Keyboard Table (used with PFILT/FLT)
- CODE/JCL - Keyboard EM-Coding TABLE (used with PFILT/FLT)
- DECODE/JCL - Keyboard DE-Coding Table (used with PFILT/FLT)

UTILITY DISKS for LDOS(tm) are now ready for delivery! These fine utility packages are written entirely by Kim Watt (auth. of SUPER UTILITY) and requires LDOS 5.1x Mod I or III. They fully support all drive configurations, including single and double density, double sided drives, and the LAREDO 5 Meg Hard Drive! Expand your use of LDOS to the MAXIMUM!

ALL of the UTILITIES are supplied on disk with full doc on heavy paper punched for your LDOS binder. **\$29⁹⁵**
Each package only.....

POWERDRAW

A SCREEN GRAPHICS UTILITY FOR MOD I or III
SAVE SCREENS IN 6 DIFFERENT FORMATS!

By: **KIM WATT**

only

3995

PowerDraw allows you to design graphic screens on your video, and save them to as many as 33 memory buffers. The buffers may be saved in 6 formats:

Compressed

BASIC Strings

EDAS

BASIC data

EDTASM

Load File

These files can be MERGED with your BASIC or assembly program very easily. You can easily design professional screen displays. You can also print the screens out on a "graphic" printer. This ad was created using an Epson MX80 (no GRAFTRAX) and PowerDraw. PowerDraw contains a built-in MENU that really makes drawing a BREEZE! If you own an EPSON printer, you WANT and NEED PowerDraw!

40 Pin BUS Extenders and Extension cables *Special*

Available with 2, 3, or 4 connectors on the cable.

Multi-Purpose! Mod I Only...

Connect 2-4 devices to your 40 pin expansion port (screen printer port) on your EI or on the back of your CPU. You can connect a mouse, a joystick, a hard disk, and an Orchestra-85 ALL AT THE SAME TIME! Any 4 devices that hook to that 40 pin port can now be connected at the same time. Check the ALPHA PRODUCTS ads. Our prices are BETTER for the SAME product!

X2 (2 connectors) 24.95

X3 (3 connectors) 34.95

X4 (4 connectors) 39.95

ALL connectors are GOLD PLATED (NO tarnishing!)

UNLEASH THE BEAST IN YOUR TRS-80

With the addition of Dosplus 3.4 disk operating system, your tranquil TRS-80 becomes a wild beast.

Dosplus 3.4 can access information 5-12 times faster than the operating system you received with your TRS-80. Also, it has the uncanny ability to read 40 track disks in 80 track drives. Using Dosplus 3.4 will make your TRS-80 faster, more efficient and easier to use. Simply put, 3.4 will improve your system and increase productivity. And though 3.4 transforms your TRS-80 into a beast of a system, it remains a pussy cat to use. Giving you a higher degree of accuracy control throughout all your operations. Dosplus 3.4 comes with an easy to use operating guide so simple your mother could use it.

So release the beast in your TRS-80, use Dosplus 3.4 disk operating system for a smoother, faster, easier and more accurate way of operating. Now Dosplus 3.4 is just **\$149.95**.

DOSPLUS DOSPLUS first in quality!
First in the industry!



Micro Systems
SOFTWARE

MULTIDOS

Model III Now Available

What Do You Use Your TRS-80® For ?

★★★ Word Processing ?

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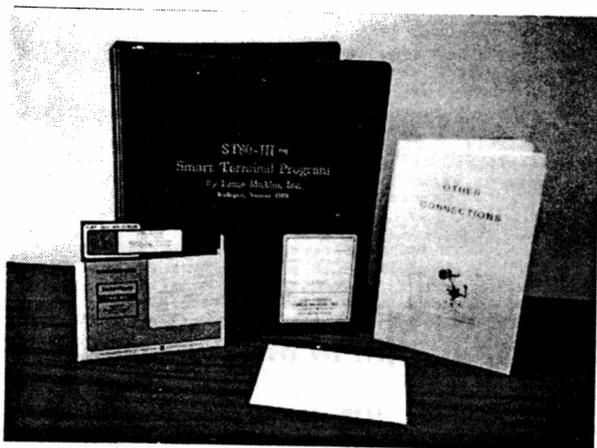
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Presenting DOSPLUS II, Series A. This monumental effort is the co-work of the Micro Systems Software people, and Kim Watt, author of Super Utility Plus and other major pieces of software. It is the sum total of all their knowledge so far in the industry. There has NEVER been a DOS like this!

We are not accepting money at this time for DOSPLUS II. We ARE interested in your name and address if you would like more information. Anticipated shipping date is 9/82.

If you use the Mod II for business, then you NEED the new DOSPLUS II. Time is MONEY, and we won't waste your time. Super-Fast BACKUPS, Super-Fast printing, outstanding dependability, ease of operation, and a complete fully explained manual (with complete technical section) will be included. Suggested price at this time is \$249.95.

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(Inquire about 10, 12, or 20 Meg drives)

SNAPP BASIC

THE ULTIMATE APPLICATION DEVELOPMENT ENVIRONMENT

Introducing the Snapp BASIC family

Snapp BASIC is an expanding family of enhancements to Microsoft BASIC designed to accelerate the application development process by providing the programmer with a twentieth century toolbox. In the early days of computing, machines were tremendously expensive, so economic necessity dictated that the needs of the programmers were subservient to the use of the machinery. As a result, programmers would spend many hours 'desk-checking' programs before ever trying them out, and wade through mounds of memory dumps looking for the elusive bugs. Hands-on debugging was just too costly, as were interpretive languages. As machinery has grown in power and plummeted in cost, while people power has remained relatively constant and the cost of good people has risen, the ratio of costs in a computer system has turned totally upside down.

The use of CRT displays and interpretive languages is a laudable first step towards solving this new problem. By unhooking the programmer from his coding sheets and flowcharting templates, and hooking him directly to the target machine, programmer productivity has risen markedly.

We at SNAPP WARE feel that this is just a start toward the solution to the application development process. While we doubt that there will ever be "THE FINAL PROGRAM", which would write programs while chatting with the end user, there are many ways in which we can increase the programmer's productivity.

Introducing the trial package

Good software is not cheap. While our products carry a high price tag, our customers agree that the value contained therein greatly exceeds the price.

Since most microcomputer software is sold by mail order, a problem is created by (appropriately) high priced items. The prospect of purchasing a \$19.95 game sight unseen would not faze most users, but spending several hundred dollars certainly will.

Our answer to this dilemma is our trial package. The purchaser of this package receives, for a very low investment, the opportunity to fully evaluate our most popular products in his own environment.

The distribution master included with the trial package may be used to apply these program products to ONLY ONE DOS diskette. Additionally, the single working copy created therefrom will last for only a limited period of time.



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SNAPP-WARE PRICES Effective 03/08/82

PRODUCT	Mod II	Mod II	Mod III	MOD I OR III
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SNAPP-II Extended BASIC	\$300	\$200	\$125	\$79
SNAPP-III Extended Builtin Functions	150	100	75	69
SNAPP-IV Extended Basic Mapping Support	150	100	75	69
SNAPP-V Extended File Mapping Support	115	75	60	59
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SNAPP-VII Reverse Compression.	75	50	40	39
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XPRINT		35		
ITOOI		30		
XSCREEN		30		
HOST/TERM		50		
BPRINT		50		
SPOOLER	\$150	100	100	
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PRELIMINARY INFORMATION ABOUT SNAPP-VII

This is the interim documentation for our newest product, SNAPP-VII. The purpose of this enhancement to the BASIC interpreter is to make BASIC programs as 'readable' as possible to facilitate understanding and/or maintenance.

It is a sad fact that the characteristics of interpretation dictate that the programs which are most easily read and understood by human beings are the least efficient from the standpoint of the machine, and vice versa. As a result, programs tend to become 'compressed' for increased execution efficiency. Several products, including one of ours are on the market to perform this compression automatically.

A very tightly compressed program becomes extremely difficult to understand and modify, even if you wrote the program yourself. If someone else wrote the program and compressed, the task becomes nearly insurmountable.

SNAPP-VII addresses this very real problem by offering a facility whereby a program may be 'cleaned up' such that reading and understanding it is facilitated. Essentially, it does everything you could imagine to improve the readability of a BASIC program EXCEPT put the REMs back in (if someone can figure out how to do that, please call collect).

SNAPP-VII will:

- A) Insert spaces into the program code wherever appropriate.
- B) Separate multiple statement lines into separate lines where possible.
- C) When a multiple statement line can not be separated, linefeeds and tabs will be inserted to improve readability.
- D) Insert missing typing characters corresponding to the defaults in effect.
- E) Indent statements contained within FOR / NEXT loops.

SNAPP-VII installs in the same manner as SNAPP-II through SNAPP-VI, and if your package includes more than one of these products, all will be installed together. Please refer to the back of any of the SNAPP BASIC manual for installation instructions.

SNAPP-VII is invoked from the BASIC Ready prompt by keying the letter 'I', possibly followed by optional parameters. The operation is performed upon the memory resident program. Optional parameters are:

'M', which if present must be the first option, and requests suppression of the information messages about the size of the program in lines and bytes before and after the operation.

'E', which requests the insertion of spaces following left parenthesis and before right parenthesis. Some people like spaces here, some hate them. No one seems to be indifferent on this topic. Try it both ways and pick your favorite.

'I', which suppresses the indentation of statements contained within FOR / NEXT loops.



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FACT SHEET ON THE SPOOLER FOR THE TRS-80:

SNAPP, INC. has announced a performance improvement package for all TRS-80 disk systems, Model I, Model II and Model III, with the promise of nearly doubled throughput in typical business applications. This fact sheet is in response to your request for further information on the product.

It is a long established fact in the computer industry that non-overlapped Input/Output operations are a significant bottleneck in getting the best possible performance from a computing system. If you will just think for a moment about a typical computer application, mailing list processing, you will quickly see what we mean.

```
10 OPEN DISK FILE
20 GET DISK RECORD
30 THINK A LITTLE
40 PRINT NAME LINE
50 PRINT ADDRESS LINE
60 PRINT CITY & STATE LINE
70 PRINT SEVERAL BLANK LINES
80 GOTO 20
```

During statement 20, the Printer is idle, and the processor is essentially idle also. During statement 30, the Disk and the Printer are idle. During statements 40 through 70, the Disk and the Processor are idle. Most of the time everybody is waiting for something else!!

In this environment, it is impossible to get the maximum potential from whatever printer you have. Typically, a 60 character per second printer will really poke along at an average of 31 or 32 characters per second. Actually, because of the software design, you are paying for hardware capabilities which you are not using.

The SPOOLER addresses this very real problem by allowing Printer operations to fully overlap processor and disk operations. Most commercial applications run nearly TWICE AS FAST with the spooler installed.

The SPOOLER is a seasoned, fully field tested product which runs on any Model I or Model III disk system with a parallel (standard) printer, or any Model II system with a either a parallel or a serial printer. All printers which Radio Shack sells are fully supported, as well as the full Centronics line of parallel printers, and such devices as the Selectra-Print from Micro Computer Devices.

The SPOOLER is remarkably easy to install, as absolutely no modifications to any of your existing programs is required. Just plug it into your system disk and run it!

Each version, Model I, Model II and Model III, sells for \$100, and quickly pays for itself in time saved. For those customers with multiple systems of differing types, a combination package consisting of any two is available for the special price of \$150.



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ITOI: A Model I to Model II Conversion Program

(c) 1980 SNAPP, INC.

ITOI assists in converting BASIC programs from the Model I to the Model II by automatically adjusting PRINT@, PRINTTAB, and PRINTUSING statements to compensate for differences in the language and the screen size. It also flags IF statements without matching THENs and Model I keywords not available in Model II BASIC.

The program is supplied in two versions: ITOI/PRT which directs the conversion report to the line printer, and ITOI/DIS which displays the conversion report on the screen. Both versions require that a minimum of two files be specified when entering BASIC (i.e. BASIC ITOI/PRT -F:2). The BASIC program to be converted must have been saved in ASCII.

The PRINT@ and PRINTTAB conversions allow placement of the smaller Model I screen (64x16) at any desired location within the larger Model II screen (80x24). This is accomplished by specifying the Model II ROW and COLUMN value for the upper left hand corner of the Model I screen. The default values used are ROW=4, COLUMN=8, which places the converted Model I screen precisely in the center of the larger Model II screen. THE program will ask you for your selected values for ROW and column. The range of values which may be specified for ROW is 0-8, and for COLUMN 0-16.

PRINTTAB values larger than 191 are flagged but not converted since the conversion process could create a value greater than the 255 maximum value allowed. Likewise, PRINT@ values larger than 1023 are flagged but not converted. Since the conversion process increases the size of the PRINT@ and PRINTTAB values, a check is made to ensure that the converted line does not exceed the maximum size of 255 bytes. When a line longer than the maximum would be created, that line is flagged and the proper conversion value is displayed on the conversion report.

Please note that stand alone PRINTs cannot be converted. Therefore, a statement such as PRINT"" may print at the lefthand margin of the Model II screen regardless of the values specified for ROW and COLUMN.



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XSCREEN: A MODEL II TRSDOS UTILITY PROGRAM

<c> 1980 SNAPP, INC.

Radio Shack, as of TRSDOS 2.0, has finally decided that a facility is required for creating on the printer a mirror image of the video display contents. Thus arrives their new SCREEN command. Unfortunately, while the program may request the screen copy at will, the OPERATOR may only demand a screen copy by BREAKING the running program and keying in "SYSTEM SCREEN", which is not only an inconvenience, but partially destroys the screens contents.

The purpose of this program is to allow the operator to make 'on demand' hard copies of the video display to the printer, without disturbing the processing program. The request may be conveniently be made from the keyboard.

The routine requires no user memory, and may be initialized from TRSDOS READY by typing in XSCREEN. This may also be done from within a DO file, or from a BASIC program (SYSTEM "LOAD XSCREEN").

Once the facility has been initialized, the system operator may request a copy of the video display to be made at any time by simply holding down the CTRL key, and simultaneously pressing the -(dash) key.

Both parallel and serial printers are fully supported, as is the SPOOLER.

Additionally, the routine includes a shorthand method for advancing the printer to the top of the form. The equivalent of LPRINT CHR\$(12); will be executed anytime CTRL-T is pressed on the keyboard. This will function whether you are in DOS or BASIC, and is also fully supported by the SPOOLER.

If the video display is in expanded (40 characters per line) mode, the routine will first send IFH {CHR\$(31)} to the printer, to switch it to expanded character mode, and send IEH {CHR\$(30)} when it has completed copying the screen.

POSSIBLE USER MODIFICATIONS:

If you wish to use some other key than CTRL dash for the screen copy function, PATCH XSCREEN A=2104 F=7F C=XX, where XX is the hex code you wish to use.

If you wish to use some other key than CTRL T for the top of forms function, PATCH XSCREEN A=2108 F=14 C=XX, where XX is the hex code you wish to use.

If your printer won't perform expanded characters, PATCH XSCREEN A=211D F=CF C=00 and PATCH XSCREEN A=212C F=CF C=00.



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HOSTII/TERMII: A Model II TRSDOS UTILITY PROGRAM

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This system was designed for remote software service on TRS-80 Model II systems. The HOSTII program becomes a part of the operating system at the customer's site, while the TERMII program is used at the support site only when a connection is required. Another practical application might be a multi-terminal data collection/inquiry system.

OPERATION:

Normal operation at the HOSTII site usually involves the SETCOM and invocation of HOSTII in the AUTO file. SETCOM must be CHANNEL=(BAUDRATE,7,N,1). Channel may be either A, or B, or both, as this version of the HOST program is capable of supporting two terminals concurrently. As long as there is no carrier from the modem(s), HOSTII will just be dormant, and the operator will never know it is on. When communications is required, the remote station must issue the same SETCOM, invoke TERMII, and the phone connection must be established. (Full duplex, Originate at one end, Answer at the other end.) Suddenly the Host station will slow down to the speed of the modem, and both keyboards and both video screens will be active. Obviously, if both operators are hammering on their keyboards, the system will get confused. The TERMII station now has TWO 'BREAK' keys: <ctrl>6, which breaks his own machine (and returns him to a local TRSDOS), and BREAK, which is transmitted as a break sequence to the HOST station.

INSTALLATION:

File DOSFIX is a DO file which applies a bunch of patches to BASIC and TRSDOS. We recommend that you install ALL of these patches, but as a minimum, both the HOSTII and the TERMII stations must have the eight patches which move the break key to CTRL-6.

TRANSMISSION RATES:

Obviously, if you are operating with modems, you cannot go any faster than the modem rated speed. With a direct connection, speeds up to 9600 baud are fully supported.

HOSTOFF:

Will permanently disable HOSTII

POSSIBLE USER MODIFICATION:

Since this HOST program is constantly polling both serial channels, the use of a serial printer concurrently on channel B is inhibited. If you wish to use a serial printer on channel B, and disable the Host/Term function on that channel, run the 'DO' file HOSTBOFF.



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CONVERT: A UTILITY PACKAGE FOR THE MODEL II

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The announcement by Radio Shack of their compiler BASIC was generally acclaimed by the Model II user community. Faster execution than the interpreter, compact object modules, and an integrated ISAM promised additional power and flexibility for an already excellent system.

Then came the bad news. The compiler was to be developed, not by Microsoft, the developer of the interpreter for the Model II, but instead by Ryan-McFarland, the developer of COBOL for the Model II. That in itself was O. K., but Ryan-McFarland uses a completely different file format than Microsoft, and existing programs written for the interpreter would have to be COMPLETELY RE-KEYED to be usable with the compiler!

This product addresses this very real problem by automating the conversion process for any 'sequential' files from Microsoft (F) format to Ryan-McFarland (V) format, and vice versa. While this system's primary usage will be the conversion of BASIC source programs, it could also be used for converting any files created with PRINT # type instructions.

OPERATION:

Microsoft programs to be processed by this system must have been saved in ASCII (SAVE "progname",A). When a Ryan-McFarland program is input to the system, the output is also an ASCII file. If you will look at a directory of diskettes containing both Microsoft and Ryan-McFarland files, you will note that under the heading FILE TYPE that the Microsoft files are marked with an "F", while the Ryan-McFarland files are marked with a "V". Two programs are provided. They are CONVERTV, which reads a Microsoft file, and produces as output a Ryan-McFarland file, and CONVERTF, which reads a Ryan-McFarland file, and produces as output a Microsoft file. Note that the last letter of the program name indicates the file type to be produced as output.

From a TRSDOS READY line, type in the name of the program you wish to run (either CONVERTF or CONVERTV). The program will ask you for the filespec of the file to be read, and for the filespec of the output file to be created. Conversion will normally take a few minutes.



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XPRINT - A MODEL II TRSDOS UTILITY
<C> 1980 SNAPP, INC.

The purpose of this program is to provide neatly formatted hardcopy listings of BASIC programs. Programs to be printed may have been saved in ASCII or in compressed format. This utility will automatically make that determination at print time, and unpack the compressed programs as they are being printed.

The 'heart' of the value of this utility is a concept we call an AMBIGUOUS FILE SPECIFICATION, referenced as AFS. An AFS is a shorthand means of describing a group of files to be processed as a single entity. An AFS consists of up to three components: An AMBIGUOUS FILE NAME (AFN), optionally an AMBIGUOUS FILE EXTENSION (AFE), and optionally an AMBIGUOUS DRIVE NUMBER (ADN).

An AFN consists of either a complete file name of 1 to 8 characters, in which case it really isn't ambiguous, or 0 to 7 leading characters of the file name, followed by an *, which is used as a 'WILD CARD' symbol. Additionally, the wild card symbol may be interspersed within the base file name, in which case it becomes a "don't care" indicator for that position.

Examples of Valid AFN's:

TESTFILE	Only process exact matches on "TESTFILE"
TEST	Same: only exact matches on "TEST "
TEST*	All files which start with "TEST"
T*	All files which start with "t"
T*A*	All files which start with "T", and have an "A" in the third position.
*	Process files without regard to name.

An AFE consists of a slash, followed by either a complete file extension of 1 to 3 characters, in which case it really isn't ambiguous, or 0 to 2 leading characters of the file extension, followed by the *, or wild card symbol.

Examples of Valid AFE's:

/BAS	Only process "/BAS" files.
/B	Only process "/B" files.
/B*	Process files with extensions that start with "B".
/*	Process files without regard to extension.

An ADN consists of a colon, followed by either an explicit drive number (0-3), in which case it really isn't ambiguous, or an *, which specifies 'all drives'.

Examples:

:2	Only process files on drive 2.
:*	Process files on all drives.

If no ADN is specified, drive 0 will be assumed.

Now let's put the pieces together, and build some complete AFS's.

B* Process all files whose names begin with "B",
 having no extension, only on drive 0.
B*:0 Same as above.
B*:* Same as above, but all drives.
A*B*C* All files with first letter "A", third
 letter "B", and fifth letter "C", no
 extensions, drive 0 only.
B*/BAS All files starting with "B", with
 extension of "/BAS", drive 0 only.
TEST/*:2 All files named TEST, with any extension,
 on drive 2 only.
/:* All files on all drives.

OPERATION:

Invoke from a TRSDOS READY line, entering your AFS with the command name. If you omit the AFS, the utility will respond with "PRINT WHAT?", and you may then enter your AFS. The utility will then search all relevant diskettes for files which match your AFS, listing on the video screen and the printer information about the files it found. Following the report on its findings, the utility will proceed to list each of the matching files one by one. The line width used is one less than that specified in the L= parameter of the FORMS command. In the event that the utility encounters something that does not look like a BASIC source program, it will produce a hex dump of the file, by invoking the TRSDOS LIST command.



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SORTDIR: A Model II TRSDOS UTILITY PROGRAM

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SORTDIR will re-arrange the directory entries on a TRSDOS operating system or data diskette such that they are in alphameric sequence, making the task of locating a particular entry much easier. The routine performs its function in a matter of seconds, so you might wish to use it daily or even more frequently when adding many new files to a diskette.

OPERATION:

From a TRSDOS READY line, enter 'SORTDIR d', where d is the drive on which the diskette whose directory you wish to be sorted is mounted. The HIT table will also be updated, to assure correct future access to the files on the diskette.

INSTALLATION:

Copy the program SORTDIR to any diskette which will be mounted when you wish to invoke the utility. Most users will put the utility on their operating system diskette.



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DOTWO: A Model II TRSDOS UTILITY PROGRAM

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The Model II DO processor is limited in that it may only process 'executable TRSDOS commands'. The answers to questions which might be asked by the programs invoked may not be stored in the DO file, nor may commands to the application programs be so stored.

This product address that very real need by intercepting 'all' keyboard input requests, and attempting to satisfy them from the contents of the 'DO' file, until the 'DO' file is exhausted, and then returns control to the keyboard.

INSTALLATION:

Copy the program DOTWO to any diskette which will be mounted when you wish to use this facility. Most users will copy the program to their TRSDOS diskette. If you intend to use DOTWO in conjunction with BASIC, you MUST apply our DOSFIX13. Without these patches, BASIC is continuously 'eating keystrokes', looking for the HOLD key.

OPERATION:

Construct your command files in the normal fashion, using the BUILD command. Invoke the command files with the TRSDOS command 'DOTWO filename'.



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THESE ARE FREE WITH ANY MOD II PACKAGE!

DOSFIX: A SET OF REPAIR JOBS FOR THE MODEL II (TRSDOS 2.0)

<c> 1981 SNAPP, INC.

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For the convenience of those users who wish to install some, but not all of our patches, we have separated the patches into individual files, named DOSFIX01, DOSFIX02, etc. In addition to the discussions in this document, each set of patches is preceded in the DO files by PAUSE statements describing their function.

All of these updates, with the exception of #3, are applicable to 2.0 and 2.0A.

DOSFIX01: This one changes FORMAT so it will not try 10 times to format a track. FORMAT time is the time to find out if your diskette surface quality is marginal. We recommend that EVERYONE apply this patch, and if you get locked out tracks, you bulk erase the media, and try ONE MORE TIME ONLY. If a second attempt to format the diskette results in locked out tracks, we recommend that you send that particular diskette to our enemies behind the iron curtain as a 'CARELESS' package.

DOSFIX02: It seemed that Tandy's efforts to password protect their software just wasn't providing the protection they desired, so on 2.0, they modified the operating system such that NO password would work. Hmmm. This patch disables the new code, and the real password, KTA2, will now work.

DOSFIX03: These are from Fort Worth, and are offered without comment, except that they are not needed for 2.0A.

DOSFIX04: In 2.0, Tandy decreed that machine language programs could not load on top of any part of TRSDOS. I don't know whether they were trying to prevent a programmer from accidentally destroying his operating system, or simply trying to give software houses a tough way to go. In any event, the ability to overlay TRSDOS is AN ABSOLUTE REQUIREMENT FOR MOST SNAPP, INC. SOFTWARE. Put this one on for sure.

DOSFIX05: Undoubtedly for the same reasons mentioned in DOSFIX04, the TRSDOS DUMP command will not support addresses which overlay TRSDOS. This patch disables that address checking, but is NOT REQUIRED for any of our software. Unless you are interested in writing machine language programs, you probably shouldn't bother with this one.

DOSFIX06: Another module which checks addresses is DEBUG. If you would like to use DEBUG to fiddle with the 'forbidden' areas in the machine, put this one on. Not necessary for anyone.

DOSFIX07: It was a very poor design to put the BREAK key right next to the BACK SPACE key. Touch typist operators are continually reaching for the BACK SPACE key with their

pinky, and accidentally hitting the BREAK key. We can't repair the poorly designed hardware, but we can fix the software so another key does the job. With these patches installed, <ctrl>6 is the BREAK key, and the BREAK key does not work. Recommended for everyone.

DOSFIX08: I am sure that you were aware of the potential destruction of a diskette's directory on 1.2 if you changed a diskette at a bad time, and did not issue an "I" command. Tandy must have been very painfully aware also. I imagine the phone calls from this problem alone must have numbered in the thousands. Well, they FIXED the potential problem on 2.0, and the fix is called VERIFY DETECT (not to be confused with VERIFY). Unfortunately, their fix slows disk I/O down so badly that many programs run TWICE AS LONG OR LONGER with VERIFY DETECT on. To make things worse, you can't even turn the facility completely off! These patches ALLOW you to turn VERIFY DETECT completely off, and make the NORMAL MODE of operation OFF. You will still be able to turn it on if you wish, but we think you probably will choose not to. Just be sure, as on 1.2, to issue "I" commands correctly.

DOSFIX09: The stepping rate, which determines how quickly the head will travel across the diskette surface, is selectable by the floppy disk controller to be 30ms, 20ms, 12ms, or 6ms. Tandy has chosen to use the 20ms rate. We have done a great deal of experimenting with this, and find that EVERY RADIO SHACK DRIVE works well at 12ms, which makes disk I/O much quicker. Please note that after you install these patches, that your drives will make a different sound than they did before. Some people say it sounds like a banshee. Don't worry about the noise. This update has been tested on about 700 Radio Shack drives, and has worked well on all but one. If it doesn't work on yours, you are probably out of luck, as the Shack won't have any sympathy for you.

DOSFIX10: This one simply eliminates the display of the Tandy Corp logo at boot-up time. If you like the pretty picture, don't put this one on.

DOSFIX11: This one will eliminate the TIME question when you boot up. ✓

DOSFIX12: This one will eliminate both the DATE and the TIME questions when you boot up.

DOSFIX13: You may have noticed that while TRSDOS 2.0 has an 80 character type-ahead keyboard, that it doesn't work with BASIC. These patches correct that, but when they are installed, the HOLD key no longer functions with BASIC. We like it with the patches installed, and don't miss the HOLD key, but you can take your choice.

DOSFIX14: In our opinion, the FORMS command harasses the computer operator with too many B.S. questions. This one eliminates all the B.S.

DOSFIX15: If BASIC LPRINTs more than 255 consecutive characters without an explicit carriage return, BASIC sends one out at that point. This is clearly in conflict with the W= function of the TRSDOS printer driver, and produces confusing output. This one fixes BASIC to mind his own business.

DOSFIX16: You are probably aware that while TRSDOS supports 65535 logical records in a file, that BASIC supports only 32767. This is because BASIC converts the record number to an integer, which is correct, but then treats it as a SIGNED integer, which is NOT the way TRSDOS looks at it. This one allow you to access all 65535 logical records, but those numbered above 32767 must be expressed as a negative number. Just use this algorithm: GET (or PUT) buffernumber, recordnumber+(65536*(recordnumber>32767))

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