

The Alternate Source

1985

Software Catalog

About The Alternate Source

The Alternate Source Information Outlet has been supplying software and information to computer users since 1979. About 95% of our business is mail order, but if you're ever in Lansing, plan to stop by. We love to meet our customers and discuss current projects (both yours and ours)!

We are officially open 9-6 Monday through Friday and 10-2 on Saturdays. We are closed the Friday and Saturday after Thanksgiving and the week between Christmas and New Year.

How to order

We now have products to support a variety of machines, including TRSDOS (all versions), PCDOS and MSDOS, CP/M, Color Computer and others. When placing your order, either by phone or mail, please clearly indicate for which machine you are ordering the product. Items marked with an asterisk in the index (on the back page) do have detailed information sheets available to provide in-depth information about the software package.

North American customers, please include \$3 shipping and handling charges on software orders. Allow about 5% additional for books and hardware. Michigan residents please add four per cent sales tax. Foreign customers should explicitly state whether orders are to be shipped air mail or surface and include appropriate postage. Estimate one pound per package and we'll refund any excess.

You can pay for your order with Visa, MasterCard, Check and COD. We do not recommend that you send cash, although some folks have sent it; we don't know how many orders didn't make it. We do not charge a surcharge for software, but all hardware prices are CASH prices and are subject to a 3% surcharge. COD orders will also reflect a COD fee that varies with the amount, normally between \$1.75 and \$2.00. We do accept Purchase Orders from certain recognized corporations and institutions. We do not accept American Express at this time.

Mail orders to The Alternate Source, 704 North Pennsylvania Avenue, Lansing, Michigan, 48906. Phone orders may be placed by calling (517) 482-8270. An order blank is included later in this catalog, and you may use a blank sheet of paper or letterhead. We recommend you include your phone number in the event we need more information to process your order. A directory assistance call costs us fifty cents these days.

Customer Service and Technical Support

Use the above address and telephone number to report customer service problems and to inquire for technical support. Any discrepancy found with your order should be reported within 30 days of the date on the invoice. We can be flexible on this, but do not wait YEARS to report a problem as a few customers have. We recommend that you examine all products immediately upon receipt, back them up unless they are copy protected (most of you probably will, anyway!), take them out for a trial run and promptly report any problem. An alphabetized list of our products with a compatibility chart is found later in the catalog.

ALE - ASSEMBLY LANGUAGE EDITOR

Version 1.5

Written by Mike Schulze

Documentation by Ron Zajac

If you program in assembly language, this full-screen editor and assembler package for the Model I and III has all the capabilities you need. ALE 1.5.1 runs on the TRS-80 Models I and III (and 4 in the Model III mode) under all of the popular Disk Operating Systems. At least one disk drive is required, but at least two drives (and a double density adapter if using a Model I) are recommended for best results.

The ALE full-screen editor alone is worth the price of the entire package, especially for folks not pleased with their current assembly language programming editor. ALE places valuable editing tools at your fingertips, tools like "the learned sequence", "column formatting", "hex-modify mode" and unique find and find/replace functions invaluable to serious assembly editing. ALE supports multiple file assembly, documentation "/LST" files, an editable, sorted symbol table and lots more.

Version 2.0 of the ALE manual has been reduced to 2/3 the number of pages of the original manual, and a special emphasis is placed on helping the new assembly language programmer. An index and table of contents assist you in finding important references quickly. New users will appreciate step by step instructions for getting your ALE "up and running", helping you customize ALE for your preferences, and demonstrating how to assemble a file in memory, from disk or from multiple files on a disk.

Byte for byte, feature for feature, ALE is the absolute best bargain on the market for a TRS-80 editor and assembler package, and you can quote us on that. ALE has been faithfully serving TRS-80 programmers for over two years. For a comparison of ALE with other popular editor/assembler packages, you may wish to refer to the September 1984 issue of 80-micro, page 58. ALE is currently available ONLY for Models I and III (and 4 in the III mode). ALE is only \$49.95. Current and prospective ALE users may wish to observe the section of this catalog dealing with EDM/ALE macro packages, for further support.

AUTOLOADER

Model I written by Jon Yarden and Paul Snively
Model III written by Jon Yarden
Documentation written by Jon Yarden and TAS

The Autoloader package is a set of programs that place machine language software (programs that use the /CMD extension) on a single diskette that will "boot" and automatically execute on the TRS-80 Models I, III, and 4 without a need for separate diskettes for each model. Autoloader determines which TRS-80 you have and boots accordingly. The Autoloader package also includes AUTOCOPY, a utility for backing up diskettes created with Autoloader's special format. Autoloader includes two public-domain, Z80 machine language source code routines. Autoloader is \$39.95. Complete assembly language source code for all of the Autoloader modules is available for an additional \$39.95. Author consultation, custom configurations and commercial licensing are available at reasonable rates.

BAS2000

Written by Dennis Allen
Documentation by Dennis Allen

This program is part of a series of program conversion utilities that allows BASIC to be interchanged between a variety of machines. BAS2000 will convert Model I, III, and 4 BASIC programs saved in ASCII format to Model 2000 BASIC format. BAS2000 properly translates PRINT USING statements, adjusts all PRINT # statements, adds all necessary spaces, converts all exponentiation symbols, and performs many other small but necessary conversions. Statements affecting video display format may be optionally adjusted to produce a similar effect after translation (with this feature, a block of text printed at the center of the TRS-80 16x64 display will be printed at the center of the Model 2000's 24x80 display after conversion). A built-in HELP file is included for easy operation. BAS2000 is only \$39.95 on disk.

BAS34 CONVERSION UTILITY

Written by Dennis Allen
Documentation by Dennis Allen

Written by Dennis Allen, the purpose of BAS34 is to convert BASIC programs from TRS-80 Model III BASIC format to Model 4 BASIC format. All necessary spaces are inserted. PRINT # and TAB statements are adjusted to handle the 80-by-24 screen. The USING parameter "%" is converted to "/", the exponentiation "[" is replaced by "^" and more. After the conversion, the file BAS34/CRF lists the BASIC reserved words incompatible with the Model 4 or that may or may not need changing, depending on programmer interpretation. We provide a detailed report of every line that even MAY need changing, in the event that further "tweaking" of the converted program is necessary. BAS34 is only \$29.95.

BASANYO

Written by Dennis Allen
Documentation by Dennis Allen

BASANYO is the Sanyo version of the BAS34/BAS2000 conversion utility. SANYO decided to start with the "el cheapo" version of Microsoft BASIC and write their own enhancements to BASIC. As a result, SANYO BASIC is the only BASIC that fully supports more than 64k at one time, but there are many small "tweaks" that must be made from other popular versions of BASIC before programs will execute properly on the SANYO 550/555. BASANYO converts TRS-80 Model I and III programs to Sanyo BASIC format. Please specify whether BASANYO3 (for Model I and III BASIC programs) or BASANYO4 (for TRSDOS 6.x, BASIC 1.x programs) is desired. BASANYO is \$39.95.

C'S BARGAIN DISK #1

Written by Charley Butler and friends
Documentation by Charley Butler

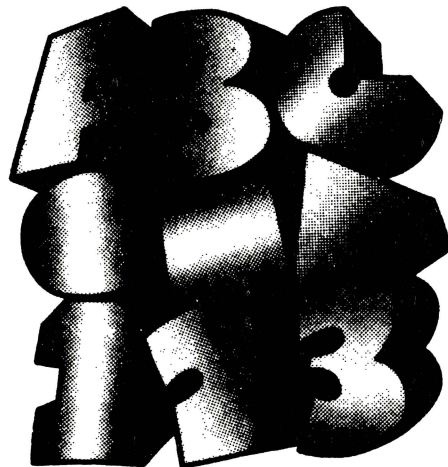
Not one, but TWO versions of each program are provided with C's Bargain Disk. One version is Microsoft Basic while the other is written with The Alternate BASIC, The Alternate Source's

structured programming language. Programs include LABELS/BAS (LABELS/ABS), PROCESS/BAS (PROCESS/ABS and PROCESS/DOC), BLACKJCK/BAS (BLACKJCK/ABS), and HELP/BAS (HELP/ABS and HELP/DOC). The labelling program will handle from one to four across with a variable label format. The PROCESS program is a macro library preprocessor and includes a library of code for all of the 104 Model 4 TRSDOS 6.x supervisor calls. Blackjack is a game of chance. The Help program is a set of Help subroutines that assist the programmer with setting up a help system for his/her own application programs. C's Bargain Disk, only \$10, each format. Specify either TRS-80 Model I/III, Model 4, Model 2000, or Sanyo format.

CHEKBOOK

Written by Jerry Latham
Documentation by Jerry Latham

Chekbook not only provides you with a convenient way to balance your checkbook every month, but also with an easy method of tracking and locating ALL banking transactions. Chekbook keeps up with your transactions primarily by category so that you may locate transactions by date(s), by check number(s), by the payee, by deposits and/or by the type of transaction. Chekbook is a real aid during audits of any type, for itemizing at income tax time, or for assistance in balancing your budget. Chekbook prints and posts and will graphically display expenses and income accounts for financial planning. Chekbook requires either DOSPLUS, LDOS, or NEWDOS/80 to pass the values of the banking transactions between BASIC programs. Chekbook retails at \$49.95.



CHILD'S PLAY

Written by Lyn Morgan
Documentation by Lyn Morgan

Child's Play is a program written for young children to teach them letters, numbers, shapes, and words. In addition, it helps children to feel at home with the computer, which may give them a head start when they encounter computers in the classroom. This program helps the child progress to higher levels of difficulty within each section and can be totally manipulated by the child. A "parent mode" permits the parent to control certain aspects of program operation. Decisions,

rewards, and recognition are all assisted by audio effects, either computer generated (through the cassette port) or speech synthesizer generated (using the Alpha Products VS-100 voice synthesizer, not included) which enhances the fun and excitement of this program's teaching capability. Child's Play is \$29.95.



CRIBBAGE

Written by Richard Vossel
Documentation by Richard Vossel

Cribbage plays a very competitive game following the rules of Hoyle. The computer plays itself in a demonstration mode or you. During the game, point values are displayed as they occur, and help is available at any time -- if you are not too far ahead. An excellent play-tested program, this highly recommended Cribbage is only \$19.95.

DATAGRAPH

Micro Software Systems-Microplot, Inc.

DataGraph is a program that will turn your VisiCalc or Multiplan files into all sorts of high-resolution custom graphs. Datagraph can plot data from VisiCalc or Multiplan spreadsheets using the DIF or SYLK formats. Data can be plotted with user composed symbol shapes. Datagraph includes a comprehensive 100 page manual.

When ordering DataGraph please specify your model of computer (I, III or 4), which spreadsheet you are using (VisiCalc or Multiplan) and which type of printer you have. DataGraph supports MX-80 Graftrax or GT+, MX-100, FX, RX 80/100, LP VIII, DMP 120-500, 2100, NEC 8023 A-C, C. ITOH 8510, IDS 460/560, 480, 80/132, OKIDATA 82/83, 92/93, 84 and Gemini 10X/15X. DataGraph requires two disk drives, and sells for \$79.95. An optional "pie chart" extension package is also available for \$34.95. A detailed information sheet is available upon request.

DDSD/CMD

Written by Al Domuret
Radio Shack Mod I Doubler Support
by Paul Snively
Documentation by Al Domuret

DDSD allows NEWDOS/80 version 2.0 users to forget about numerous and time consuming PDRIVE changes and configurations. Read from and/or write to diskettes that have been formatted in either single or double density without changing PDRIVE settings! DDSD includes source code, requires no ZAPS, does not conflict with fast CPU clock systems, and can be established as an 'AUTO' file. DDSD loads itself into the top of available memory beneath any high RAM drivers and protects itself by automatically setting the appropriate high memory value. Versions are included for both Model I and III. DDSD is now compatible with Radio Shack double density boards thanks to Paul Snively and Vern Hester. DDSD/CMD is \$19.95.

EDM - Editor with Macros

Written by Mike Schulze
Documentation by Mike Schulze and Ron Zajac

EDM is a true full-screen editor written specifically for the TRS-80 Model I and III computers. The minimum requirements are a 48K disk system with upper and lower case display. EDM serves a wide range of editing functions and could be the only editor you will ever need. This editor can be customized to act as an assembly language editor, a high level language editor, a word processing system or -- you name it. EDM is designed to provide state-of-the-art full-screen editing with capabilities similar or superior to those found on minicomputer and mainframe systems.

Some of the features of EDM include machine-code full-screen editing, variable text width from one to 255 characters, type-ahead for touch typists, "drum card" emulation, and secondary input files that insert material from other files. EDM handles BASIC ASCII files, BASIC TOKEN files, MACHINE CODE files, EDTASM files, EDIT-80 files, other standard word processing files (Electric Pencil, etc.), EDM's own word processing file format, M-ZAL SOURCE files, and unformatted raw file information. EDM interacts easily with the DOS for easy disk error recovery. All disk file I/O assumes end-of-file from the file directory entry which enables EDM to load a "messed up" program that a typical editor would not completely load. EDM can "page" a disk file larger than memory. Any character can be generated directly from the keyboard. TWENTY-SIX text registers hold text or "editor programs" at hand for quick inspection or execution at a keystroke. One of the nicest features of EDM is the "learned sequence" buffer that saves a series of 254 command keystrokes for repeated execution.

Global search and find-and-replace functions include line/column search limits, pseudo-search characters, pseudo-substitute character and a "query before substitute" option with excellent substitution select control.

EDM contains an interpreted editor language for the creation of highly intelligent editing functions. To get you started, we include many "editor programs" that will serve you daily.

However, there is no need to learn the editor language in order to do a great deal of useful editing. The user is probably ready for that information when s/he realizes how many routine edit tasks could be automated in a single editor program! More advanced features of the system can be explored and employed as needed, and the manual certainly makes for good "browsing" for EDM users, both old and new.

While EDM presents a highly complex set of powerful capabilities, there is no need to feel overwhelmed. One is invited to sit through the training session in the Getting Started section of the manual and become familiar with the most fundamental commands. Important concepts will be explained and a working knowledge of EDM should be quickly acquired. In time, one will become well acquainted with one of the finest pieces of software available for the TRS-80. We think you'll agree that EDM is a universe in itself and we hope it will unfold new ideas and applications among it's users. EDM list price is only \$99.95, reduced 33% from our last catalog.

EDM/ALE MACRO DISKS

Written by Ron Zajac
Documentation by Ron Zajac

We offer three special macro diskettes that can be used with both EDM and ALE, but only if you are using either DOSPLUS or NEWDOS/80 as your Disk operating System. Both DOSPLUS and NEWDOS/80 versions are included on the respective diskettes. Macro Disk #1 is now included when you order EDM and Macro Disk #2 is not finished in time for our catalog.

Macro Disk #3 contains a program that will assist you with organizing disk information for larger projects. 1000 files can be sorted, columnated and indexed, either as a disk file or perhaps for storing in a text register for quick reference. Directories are inserted directly into the EDM/ALE main buffer. Once the buffer contains directories from the chosen diskettes, you may sort, columnate and index the entire group of files for printing, saving to a disk file for later editing or storing in an editor buffer for reference while working on a project! Ideal for large projects. This product was developed to help TAS staffers with documentation projects.

Macro Disk #4 contains graphic development tools for use with EDM and ALE. A more extensive graphics support system will be announced Real Soon Now, but MD #4, the EDM/ALE Pixel Package is available immediately. PP allows direct manipulation of the TRS-80 graphic pixels in the EDM/ALE environment. Once the graphic screen is developed, utilities are provided that assist with converting the screen data to numeric data for processing as space compression character strings, of valuable use to BASIC programmers and a BASIC cursor motion string to assist with graphic editing. The pixels can be converted to numeric (x,y) co-ordinates that can be easily converted to BASIC data statements for fancy animation processing.

Macro Disk #5 contains DOCUMIT, a special editor (/LDR) program that will take your text file and merge it with an /ASM "driver" program to create a machine language "document" file that can be executed from DOS READY. The user can then page backward and forward through the file, request

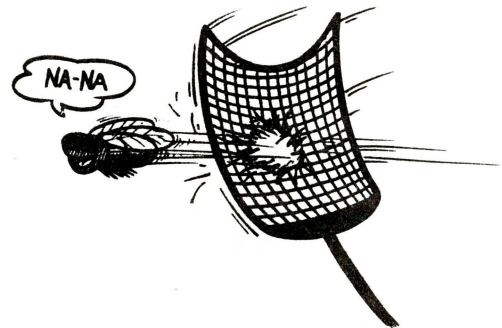
help, etc. We presume many orders will be from ALE folks, so, to demonstrate DOCUMIT, we are including an ALE quick reference card as processed by DOCUMIT. DOCUMIT is excellent for "quick and dirty" documentation.

Each of the above EDM/ALE Macro Disks is \$20.

EDX - EDITOR WITHOUT MACROS

Written by Mike Schulze
Documentation by The Alternate Source

EDX is the kernal version of our programmable editor, EDM. As EDM's "little brother", EDX provides full-screen editing previously unavailable on the TRS-80. Except for EDM, it is designed to handle ASCII text files with the power available from no other TRS-80 editor. EDX is the "smart" text editor that learns and optionally remembers your responses which helps make boring jobs easier. Like EDM, EDX contains column formatting, unsurpassed search and replace features, adjustable horizontal and vertical scrolling, 128-key rollover, page-mode editing (for LARGE files), optional right justification, various character generation modes, and several dozen other nifty commands. TELECOMMUNICATIONS is a snap with EDX because there are no hangups with our special "P" filetype. The best part of EDX is the price: \$29.95 for Model I and III. You won't find a better text editor at double the price.



FLY

Written by Larry Kingsbury
Documentation by Larry Kingsbury

FLY is a game, buzzing and swarming with action! The scenario is a "house" and you are the FLYswatter trying to rid the "houses" of flies by swatting them. Up to ten "houses" can be stored in memory or saved to disk or tape. You define each "house" by determining the number of walls; this number also reflects a skill level from one to six. Choose to battle up to twenty flies. Game time can be set from one to sixty minutes or turn the clock off for an indefinite game. The object is to kill as many flies as possible. The program will display the number of flies killed and the time remaining and will save games in progress as well as high scores. Oh, we almost forgot to mention that "flies" accumulate and sometimes block access to rooms, which can make traversing the house quite cumbersome. Warning: one guy nearly flunked calculus after becoming addicted to FLY. Fly is \$19.95.

HYPERCROSS

Written by M.J. Gingell
Distributed by Hypersoft

If you exchange programs or data with friends that use a different brand of computer, you haven't been able to just swap disks with them because your computer couldn't read their disks, and vice-versa. Not until now, anyway. HYPERCROSS is a program that resolves much of the incompatibility that has existed between disk formats. HYPERCROSS will actually format diskettes on your lowly TRS-80 that can run on almost seventy (70) machines/environments. Supported formats include all versions of PCDOS and MSDOS, and most popular versions of CP/M, including all versions of Radio Shack and Montezuma Micro CP/M and the standard 8" CP/M format. Machines supported include just about everything you can think of, including Sanyo, Osborne, Morrow, Lobo, Keypro, HP, Epson, Cromemco, Televideo, Xerox, Zenith and many others I've never even heard of. Certain formats do require double sided drives. You will not find a better tool for building your program library.

HYPERCROSS gives special consideration for various file types and whether the "Control-Z", hex 1A, is added to the end of the file. You can get a directory and kill files from both the TRS-80 disk and the foreign disk. Files can be copied both ways. HYPERCROSS eliminates the need for modems, terminal programs and a second computer. HYPERCROSS runs as a standard /CMD file from most popular TRS-80 disk operating systems. Make sure you specify whether you wish the Model I, III, 4 or MAX-80 version. LNW and Genie users should order the Model I version.

HYPERCROSS also features a built-in HELP function that details everything you need to know. Even though a 20-page manual is included, you will probably not need it after the first couple of uses.

HYPERCROSS is available three ways, CP/M only, PC-MSDOS only and both. The separate versions are \$49.95; the combined version is \$79.95.

ISAR 2.0

Written by Charley Butler
Documentation by Charley Butler

ISAR (pronounced "eye-sahr") is a "data file manager" comprised of ten different modules that enable you to create "random access" type files and store data in those files without programming. Simply answer the prompts and a file is created and ready for your manipulation. The ISAR1 module is the main menu that will run the other modules. ISAR2 will create a new file to your specifications by prompting for the number of fields (or lines) per record, what each field (or line) is named and how many characters per field. ISAR3 is the add module for adding whole new records to a file. ISAR4 changes and deletes records from a file. ISAR5 and ISORT/CMD work together to keep files sorted in order by the field (or line) of your choice. ISAR6 is the search and display module and ISAR7 actually writes the BASIC code so that you may LPRINT reports any way you specify. ISAR8 will append two like ISAR files and ISAR9 changes an old file format to create a new format for any existing file. Specify I, III or CoCo. ISAR is \$39.95.

KBE - KEYBOARD EDITOR

Written by Larry Kingsbury
Documentation by Larry Kingsbury

KBE is a multitude of utilities packed into one program. It allows you to "program" keys so that by hitting a single key combination, a number of keystrokes (or even an entire word, phrase, or paragraph) will be generated. For example, imagine "typing" your entire return address, or a frequently used DOS command line, just by hitting a couple of keys! ALL of the keys may be programmed any way you want, any time you want, and for as long as you want. Definitions are limited only by available memory, and may contain "embedded waits" that hold for more input from the keyboard, and/or "calls" so that the definition of one key may include the definitions of one or more other keys. INKEY\$ responses may be included in a key definition. You may save your key definitions to disk, and reload them anytime. With KBE, you may generate any character (including graphics characters) from a regular TRS-80 keyboard, and you may filter out certain keys (such as the BREAK key) to avoid the problems that occur when such keys are pressed while a BASIC program is in operation. Key definitions may be "toggled" on or off. KBE also includes a keyboard and video driver as well as a full-screen editor. KBE is only \$39.95. Currently, KBE runs only under Newdos/80 and TRSDOS, on both the Model I and III (and on the Model 4 in the Model III mode).

LAZY WRITER / LAZY FONT

Written by David Welsh
Distributed by AlphaBit Communications, Inc.

Lazy Writer may be the most user friendly word processing system available for the TRS-80. Lazy Writer is now only \$124.95. Also available, for use both with and without Lazy Writer (please specify) is Lazy Font. Lazy Font includes eight free fonts, plus the package is compatible with the GEAP fonts. A font creation program is included in the package for only \$49.95. When ordering Lazy Writer or Lazy Font, please specify which machine you are using.

LAZYCOMM

Written by Mark Barlow
Documentation by Theresa Welsh
Distributed by AlphaBit Communications, Inc.

This is a new, versatile terminal program from the company that brought you the Lazy Writer word processing program. LazyComm can be used with the Models I, III and 4. When using LazyComm with the 4, you must use the LazyDos included with the package, but you can easily read and write to TRSDOS 6.x diskettes. The price is right, too - all versions of LazyComm are only \$34.95!

LDOS UTILITY PAK

Written by Les Mikesell
Documentation by Les Mikesell

This DOS-specific value package is a set of programs designed to enhance the value of LDOS. Configure a fifth drive in memory and load (even your own) /SYS modules for less disk swapping in a two-drive system. No moving parts, so access is fast! Dump any block of memory to disk, from

0000H through FFFFH. Specially configure your own SYSGEN/CMD files and save files to disk. This will conserve memory and you can then run other (even large) programs from running BASIC with all variables intact! Access your special SYSGEN/CMD file at the touch of the filename. UNREPAIR from this package will allow Model I TRSDOS to read any LDOS disk by rewriting the F8H Data Address Mark used for LDOS directory sectors to the FAH Data Address Mark recognized by TRSDOS. This significantly useful package includes Z80 source code and sells for only \$49.95.

LOGICAL REASONING

Written by John R. Olsen, Jr.

Learning can be fun...especially with educational software that is designed as it should be! The purpose of this challenging and entertaining software program is to help you to improve your ability to think logically - a valuable skill for anyone, but especially helpful to students, because the ability to think logically is a key to higher test scores! This program allows you to progress at your own individual pace. When you've mastered one lesson, you'll get an entry key for the next one. A pre-test lets you determine your start level and a final test shows how much you have learned. Interactive dialogue encourages active participation between the learner and the machine and diagrams are used to reinforce and explain concepts. The topics include Conditional Statements, Hypothesis, Conclusions, Varied and Unvaried Deductions, and Definitions. Logical Reasoning is only \$19.95 on disk.

MODEM80

Written by Leslie Mikesell
Documentation by Leslie Mikesell

Modem80 is a "smart" terminal program and more - it's a telecommunications package designed to allow data transfer with a wide variety of micros, mainframes, and assorted online services. Modem80 has found very wide acceptance from TRS-80 users all over the country. One reason for this is that Modem-80 is capable of uploading and downloading files of unlimited length - you are not limited by the size of a "capture buffer", as with most of the other currently-available terminal programs! Text files to be uploaded can be prepared off-line, thus reducing costly online time and permitting you to use your word processor to create your document. Such files can be easily retransmitted as often as necessary in case poor line conditions make transmission difficult. Both transmit and receive files may be opened before communication begins, may be run simultaneously, and can be turned on or off independently. Control codes can allow the distant computer to control file operations. Single lines may be transmitted from a file, intermixed with typing from the keyboard. Lines from a text file may be transmitted one at a time if the distant computer is unable to accept full speed transmission. DOS commands and programs that reside in the lower 16K of memory may be executed while maintaining positions in the transmit and receive files, with previous screen contents restored when the DOS command is completed. Modem80 permits flexible, error-free file transfers between TRS-80s, or between a TRS-80 and any other computer that can use the protocol of the CP/M program "Modem" (available on CP/M user group disk #25). This

Model I/III DOS-compatible \$39.95 program has been favorably reviewed in many major computer magazines. Model 4 version, \$79.95.

MULTIDOS

Written by Vernon Hester

MultiDos may be just about one of the most underrated Disk Operating Systems around for the TRS-80 Models I and III (and 4 in the Model III mode). It has just about every feature the average user would want in a DOS, and one big PLUS: MultiDos has the ability to read from and write to just about every other disk format used by other popular TRS-80 disk operating systems, and it can detect the alien format AUTOMATICALLY. If you have an "unknown" disk that you know was created on a TRS-80, but you're not sure which operating system was used, just let MultiDos try and read it. Most of the time, MultiDos will be able to read from it and write to it. While other utilities may have similar capabilities, it is very convenient to not have to boot up a separate utility in order to move a file. MultiDos is invaluable when working with a variety of operating systems, including TRSDOS 6.x. Best of all, list price of MultiDos is now only \$59.95. This is not a kernel, but a full featured MultiDos with all utilities. Please specify whether you wish the Model I or Model III version.

NEWBASIC 2.1

Written by Modular Software Associates
Documentation by Modular Software Associates

If you want help editing BASIC programs, developing graphics, or for sophisticated applications, NewBASIC offers an outstanding value. This program enhances your resident BASIC by adding new BASIC commands that represent tasks that can be performed automatically. Configure your own custom "version" of NewBASIC to meet your own special needs by selecting which command(s) are to be added to your BASIC. There are fifty commands to choose from. The manual is packed with many examples that clearly demonstrate each command and a special quick reference card is included. Make several different "versions". This package, from the folks that also brought you the LNW Enhanced BASIC, is only \$39.95. The run-time module, valuable to schools, programmers and persons wanting to pass out copies of unique programs developed using the powerful NewBASIC commands is only an additional \$10.00. Be wise and buy both for \$49.95.

NEWDOS/80 "ADDITIONAL UTILITIES" PAK

Written by Software Success

This disk contains four utilities that almost every NEWDOS/80 user has wished for at one time or another. The first is DIRSORT/CMD, which alphabetizes a disk directory right on the disk itself. You will find this program invaluable if you are running 80-Track or hard drives - it makes searching large "DIR" listings a breeze!

UNKILL/CMD restores a KILLED file automatically. If the filename is still in the directory and the disk space has not been re-assigned or overwritten, you can now easily recover a KILLED file. No longer is it necessary to go through the

long, tedious and often unsuccessful procedure of manually restoring the GAT and HIT bytes and the Primary (and Extended) Directory Entries. This utility is a real lifesaver - well worth the price of the disk by itself.

DFLIST/CMD displays the list of those KILLED files whose names are still in the directory. These are the candidates for the UNKILL utility.

RAMSPOOL/CMD is a "print spooler" program that works the way it's supposed to, and is a lot easier to use than the SPOOL/CMD program supplied by Apparat. A "spooler" sets aside a block of memory for your printer output and returns control to your computer as soon as the last character has been sent to this buffer. The data is then sent from the buffer to the printer (usually without printer slowdown) as an interrupt-driven task while you CONTINUE WITH YOUR WORK on the computer. Three keyboard and six *SPOOL commands control the functioning of the spooler. It is easy to use and easy to control. This one is a real timesaver. It works only with parallel printers at this time (that includes all Radio Shack printers, and most other printers that connect to the TRS-80 without additional hardware).

These programs are supplied on a 35-track, single-density NEWDOS formatted diskette. Fully Model 1/III and Hard Disk compatible.



NORTHERN BYTES NEWSLETTER Edited by Jack Decker

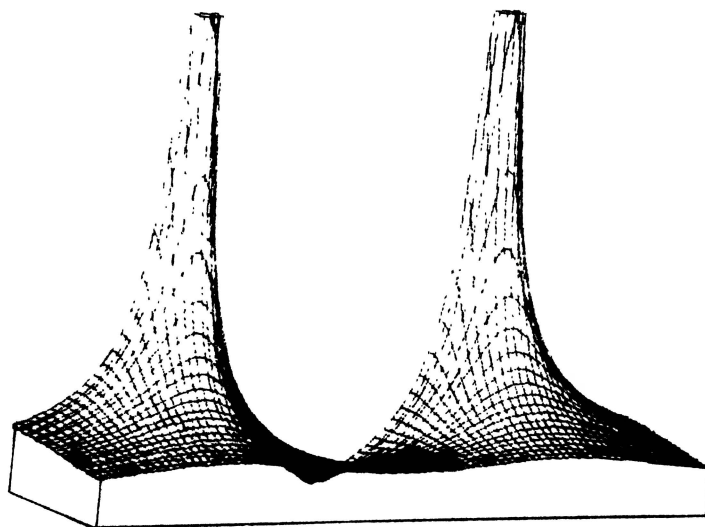
This public-domain, twelve to twenty-four page tabloid is sponsored by The Alternate Source and one issue is offered free with any order. Back issues are available for \$2.00 each. Each issue is jam-packed with information and programs, relished and preserved as a valuable reference treasure for tips, patches, opinions, and nifty programs all over the world by TAS patrons and hackers alike. Whahzat? Try one, you'll like it! Back issues from Volume 5, Number 1, \$2 each.

PLOT80

Written by Jim Resh
Documentation by Jim Resh

Need some help getting your dot matrix printer to do neat high-resolution plots and drawings? If you own a Prowriter, Epson, Radio Shack Line Printer VIII, or Legend 880 or 1200, we've got the answer: PLOT80, a "graphics line processor". To help you understand that the concept of a graphics line processor, consider the following from the Introduction in the PLOT80 manual:

Modern printers can do graphics as well as text. So why are most of them only doing text? Because a thousand words has been so much easier than one picture!



Why has text been so much easier than graphics? For the main answer to that one, just contrast what word processors can do with what graphics software has provided. Graphics has had the rudimentary ability to draw lines on paper. Analogously, a word processor can copy words to paper. Who'd pay fifty or a hundred or more dollars for a word processor if that were all it could do? The BASIC ROM's LPRINT function can do that much!

To help you evaluate the features graphics software should provide, consider the many points of similarity between Text Word Processing and what we will call "Graphics Line Processing". The following partial list of analogies should get you started:

Text Word Processing	Graphics Line Processing
Text Files	Pictures
Documents	Drawings
Words	Lines
Characters	Dots
Justifying	Windowing
Centering	Positioning
Formatting	Rotating
	Scaling

PLOT80 is a second generation graphics package that is the first TRS-80 program to merit the designation "Graphics Line Processor" in the sense suggested above. It provides for Editing, Saving, Retrieving, Merging, Windowing, Positioning, Rotating and Scaling. PLOT80 also provides convenient linkage to your application programs.

The PLOT80 package includes a comprehensive manual with lots of examples to document the process of adapting high resolution drawings for use with PLOT80. Manual alone is \$10, applicable toward the purchase. The complete PLOT80 package is \$59.95.

QUILL DRIVER

Written by Allan Moluf and Bill Brown
Documentation by Allan Moluf and Bill Brown

Quill Driver is a text formatting program that gives you the capability to process roughly formatted text files into nicely typed documents.

It performs the work of a skilled scribe, producing elegant printing from your rough draft. Two nice features of Quill Driver are the abbreviated command summary and a session showing you how to produce personalized form letters with Quill Driver. Included also are lower case patches for EDTASM on the Model I and DVR, the machine language keyboard/video driver for the Model I. Quill Driver is I/III compatible and sells for \$39.95.

SCREEN EDIT

Written by Jack Decker
Documentation by Jack Decker

An "oldie but goodie", Screen Edit gives you the ability to edit BASIC lines on the video display by LISTING the lines on the screen and then typing the command EDIT (without a line number or period following it). The EDIT still operates normally when typed with a line number or period following it. When Screen Edit is in use, a blinking cursor will be displayed and the four arrow keys move the blinking cursor wherever you wish on the screen. The shift-arrow keys are used for editing. The break key escapes from the editing process and will return to BASIC READY with no changes made to the program. The ENTER key is used to END editing by placing the cursor one space after the last character of the edited line. Screen Edit is useful for copying program lines to a new area and merging/editing existing lines. Screen Edit works with cassette or disk BASIC on the Model I or III, and sells for only \$12.95 on a single density diskette.

SOFT-TABS

Soft-Tabs are the perfect answer for helping you organize the attack of computer literature. Soft-Tabs are mylar strips that have adhesive on about half the strip. When your Northern Bytes arrives, have Soft-Tabs handy for marking the items you might want to reference later. Soft-Tabs have literally thousands of uses: proofreading, flagging, saving places and marking, just to name a few. A box of 300 Soft-Tabs is only \$4.95. Order 12 boxes and save \$1 per box!

SPECTRUM DISKETTES

These are the diskettes we use for the programs we distribute, because they have proven to be of a consistent high quality. They are certified double density, and have proven very reliable with a variety of machines, including the 80 track, double-sided, double-density drives on the Radio Shack Model 2000. We have one customer who has used several hundred with this machine. A package of ten top quality Spectrum diskettes are now only \$14.95. If you order 100, the price is only \$139.95.

SPELLBOUND

Written by Bill and Judy Premeriani
Documentation by Bill & Judy Premeriani

Spellbound is a machine language word game. The object is to find as many words as possible in a

fixed time period (three minutes!). The computer can play and uses a 12,000 plus word dictionary. There are six levels of intelligence. Letters are constructed using sharp graphics that can be read at a distance, so that more people may participate. Letter scrambling is very thorough. Up to six people may play against each other with the computer as a seventh, if desired. Scores are maintained by the computer and the winner is declared after five rounds. Time remaining is displayed on the screen by an accurate interrupt driven timer that stops the game when time is up. When the computer plays, words can be "highlighted" on the game diagram, displayed in normal letters at the bottom left side of the screen, and, if a line printer is connected, the words will be printed for hardcopy verification. The computer will keep the complete score. This is an excellent program for those searching for educational programs for their TRS-80. Spellbound is written in a combination of Fortran and machine language and the complete source code is available for an additional \$10.00. Spellbound sells for only \$19.95 on disk.

STATEMENT BALANCER Written by Bob Noonan
Documentation by Bob Noonan

Statement Balancer is a Z80 program designed to help you balance your checkbook. STATEMENT automatically boots and executes on Models I, III and 4. Simply follow the prompts and enter the requested data and STATEMENT will provide your adjusted checkbook balance. The price? Only \$10 on disk.



STOPPER

Written by Roxton Baker
Documentation by Roxton Baker

Stopper is our finest BASIC programming monitor that allows interactive debugging of BASIC programs. This program will allow tracing to screen or printer, will single step BASIC statements or lines, and will permit the alteration and inspection of variable values.

Stopper has THIRTY-TWO direct commands that can be entered at BASIC's READY prompt. In addition, there are several special key combinations active during the execution of your program. We believe this to be a great debugging utility and a great value at \$20.00 on tape or disk.

TAS PROGRAMMER'S JOURNAL SPECIAL EDITION
ISSUE #19 (Vol.4, No. 1)
Edited by Charley Butler

This special edition of The Alternate Source Programmer's Journal contains many valuable items for TRS-80 owners. Model I folks will find valuable disk I/O routines that will handle single and double density, single and double sided. All programmers will benefit from Mike Schulze's research on how various disk operating systems handle "end of file". Much more. This volume includes a single-density data disk with all routines. Single drive owners should make arrangements for transferring files to an operating system disk. #19 is only \$19.95.

TAS PUBLIC DOMAIN DISK LIBRARY
Prepared by Jack Decker

NOW, you can acquire a single-density, double-sided "floppy" diskette full of public domain software for only \$10.00. These diskettes will work on single or double-sided drives, and each contains as many as forty good quality public domain programs. We've tried to pick the best of the available public domain programs for our library. You may judge for yourself. Receive a table of contents for each currently available library disk by sending a legal-size, self-addressed, stamped envelope (Canadians may send a self-addressed envelope and a Canadian quarter, others outside the United States please send international reply coupons) to The Alternate Source. The programs on these disks are truly in the public domain. This means you may share with your friends, put them on your BBS download section, or add to your computer club's library. It's all quite legal! Contributions to the TAS Public Domain Software Library are always welcome (please write for a PD Library Information sheet for details). Save a lot of your valuable time trying to weed out the JUNK software and a small fortune in long distance charges trying to download from a distant bulletin board by collecting YOUR TAS public domain library disks, NOW! Four diskettes (maybe more) currently available, \$10 each.



TASMANIA
Created by users of The Adventure System
Compiled by The Alternate Source

We've searched the four corners of the globe to gather the fine adventure programs collectively

called TASMANIA. This treasure chest of exciting episodes is a double-sided, single-density diskette packed with exciting adventures produced by TRS-80 owners from around the world. TASMANIA was created by users of The Adventure System, a TAS program that helps aspiring authors develop adventure "data bases". These data bases are then used by the machine language driver that "runs" the adventures, similar to, but many times faster than the way BASIC programs run. TASMANIA includes the machine language driver and nine full-length adventure data bases (all that we could pack on a double-sided "floppy" diskette) that will provide weeks of enjoyment for the entire family. With TASMANIA you get, Amnesia Adventure by Karl Maurer, Golden Idol by Bill Spivey and Jeff Bachloch, Espionage Adventure by Ruble A. Huff, Arabian Adventure by D. D. Dawson and G. D. Niland, Shipwrecked by Mike Nuzzi, The Maltese Falcon by Mike Nuzzi, The Time Machine by Mark Strauss, Toyland Adventure by John Scantlin, and Adventure at Kiss'um Creek by Les Krenning. Best of all, TASMANIA is only \$29.95 complete! If you've never tried an adventure before, you won't find a better entertainment value on the market! If you have tried adventures before, get ready for lots of new surprises! Available immediately for TRS-80 Models I and III and CoCo. CoCo version includes only eight adventures instead of nine. Sorry, available only on disk.

TASMON - THE ALTERNATE SOURCE MONITOR

Written by Bruce G. Hansen
Documentation by Bruce G. Hansen
Model 4 Version by Paul F. Snively
Enhancements by Mark Barlow and Jack Decker

TASMON is a Z80-machine-language-monitor utility that is very useful for debugging machine language programs, disassembling Z80 object code into source code (which can then be loaded into an Editor/Assembler for modification, etc.), loading from and/or saving to tape and disk, inspecting the Z80 register set, and much more. With TASMON, memory may be examined and/or modified, and blocks of memory may be compared. Machine language programs may be executed in real time, single stepped (one instruction at a time), or traced in slow motion. A "running disassembly" of the last few instructions executed is displayed during single-step or trace operations. The current contents of the Z80 registers are continuously displayed for examination or modification in the upper right part of the screen. Three different types of memory dumps can be displayed on the left side of the screen, while executing any TASMON command on the right side of the screen. Memory can be disassembled and routed to disk or tape as an Editor/Assembler source file with labels generated for pertinent addresses. So-called "undocumented" Z80 opcodes are correctly handled (and displayed) by TASMON. SYSTEM tapes and machine language disk files can be read in and written out. TASMON is relocatable to any part of memory, file oriented, and excellently implemented. The manual is complete with sample sessions and a command reference card. At least 32K of memory is required. TASMON is normally supplied on disk but can be transferred to cassette. The Model I and III versions of TASMON are both included on a single density disk for \$39.95 list. The special Model 4 version retains all the features of the Model I and III versions (except for tape I/O) and runs in the native mode. The Model 4 version is sold separately at \$39.95.

SPECIAL NOTE: REGISTERED OWNERS ONLY of earlier versions of TASMON may upgrade for \$10.00, but only for the same Model version (Model 1/III version owners may NOT "upgrade" to the Model 4 version, because it was written by a different author). Registered owners of TASMON may also purchase TASMON source code on disk (\$15 for either the Model 1 or Model III version, \$29.95 for the Model 4 version).

TEXTPRESS

Written by Bill Brown and Jim Resh
Documentation by Susan Farace, Bill Brown, and Vince Farace

People who do a lot of word processing on their computers use a lot of disk space to store their text files. TEXTPRESS is a program that will reduce the amount of storage needed to do the job by 30-40% or more! The use of TEXTPRESS makes it more likely that you will archive older files that you might otherwise discard because of the number of diskettes they occupy.

TEXTPRESS compresses ASCII text files for long term storage, thus substantially reducing the number of diskettes required. Should you later need to use the text file, TEXTPRESS will quickly decompress the file to its original form. TEXTPRESS can handle one to twenty-five files in a single program run.

TEXTPRESS compresses text files of any length by taking advantage of the repetitiveness in the English language. Multiple-byte words and letter combinations are replaced by a single byte "token". TEXTPRESS comes "preprogrammed" with 127 of the most frequently occurring letter combinations, plus you can tailor the compression procedure to work more effectively on your own text.

After you have compressed one or more files, you will probably not want to keep the decompressed files stored on disk. TEXTPRESS also provides you an easy way to erase the files on the source filename list.

TEXTPRESS enhances the DOS "LIST" command so that the display stops after one screen of text, and control and graphic characters are displayed in a manner that prevents unpredictable displays, such as those which occur when LISTING machine language and compressed BASIC programs.

TEXTPRESS operates on the TRS80 Models 1, III and 4 (in the Model III mode) and requires at least 48K memory and one disk drive. TEXTPRESS has been tested with TRSDOS, NEWDOS, LDOS and DOSPLUS operating systems. TEXTPRESS includes a comprehensive, easy to read, well-indexed, 60-page manual that completely details user and technical information you may need to know. TEXTPRESS is available immediately for only \$49.95.

THE ADVENTURE PACKAGE I

Created by Gary Robinson and Gary Helmburger
Arranged by The Alternate Source

Here are two adventures at the price many others charge for one! Both adventures were written using The Alternate Source's "Adventure System" program written by Bruce Hansen and Alan Moluf. The Lost City of Gold is about an expedition into

Incan ruins in Peru. Isles of Doom takes place on an island in the South Pacific and features a scenario left from WWII. Adventures are available on cassette (limited) for \$15.95 or disk for \$19.95. Tape users specify 500 or 1500 baud.



THE ADVENTURE SYSTEM

Written by Bruce G. Hansen
Documentation by Bruce G. Hansen

The Adventure System (TAS) contains programs for creating, editing, and playing adventure data bases. The manual is intended to instruct the user on everything he or she needs to know to write and edit adventures easily. You simply supply the ideas. With TAS you are required to learn a new, unique "adventure language". Its sixty-plus commands and subtle rules are not as numerous as BASIC, but more powerful when used to write adventures, or lessons, or simulations. After a few evenings with the "adventure" language, programming can be fairly comfortable and entertaining.

The Adventure System has been "growing" for about three years. The current version of The Adventure System includes three complete adventures, the adventure "driver" program, the adventure editor and over 100 pages of excellent documentation that direct you, step by step, in creating adventures. The Adventure System itself sells for \$39.95. Currently available only for TRS-80 Model 1, III and 4 in the III mode, although other versions will be available soon.

THE ALTERNATE BASIC

Written by Dennis Allen
Documentation by Dennis Allen

Now you can write programs in a single version of BASIC and then use The Alternate BASIC to translate your programs so that they will run under the version of BASIC used on the Model 1/III, the Model 4, or the Model 2000. The Alternate BASIC also gives you the ability to program in BASIC without using line numbers! The ability to omit line numbers gives the programmer the ability to create libraries of relocatable code that can be used and reused by many different

programs. Alternate BASIC code is, essentially, an enhanced version of Microsoft BASIC. The ABASIC program actually converts Alternate BASIC code written with any word processor to Microsoft BASIC by adding structured constructs (IF/ENDIF, DO/END DO, CASE) and label variables to all Microsoft BASIC code. ABASIC is a BASIC text translator designed to give the BASIC programmer a facility to build and maintain structured code. ABASIC also offers a COPY function that can insert code from library files.

That is not all. To get you started, we include a library of utility and command subroutines written in ABASIC code that facilitate the development of command-oriented programs. The Alternate BASIC includes five utility packages including HELP that "helps" you create your own "help" files. CREF lists a cross-reference of all variables found in a Microsoft BASIC file. LVAR is a utility that lists variables found in an ABASIC program two ways, either by variable or by label reference. XVAR is a variable translator that will translate Model 4 variables to Model III variables or XVAR can be used to save memory. XLATE is a general purpose translator. All of these utilities are written in ABASIC and can be processed into Microsoft code! The Alternate BASIC includes an extensive spiral-bound manual, available separately for \$10.00. The complete Alternate BASIC program is \$69.95. Please specify Model I, III, 4, Model 2000, or CP/M (40-track, single-sided)! Other versions available by special request.

THE ALTERNATE FORTH

Written by Craig Lindley
Documentation by Craig Lindley

This is a superior implementation of the FORTH programming language for the TRS-80 and includes a very complete package. Some of the features of this implementation of FORTH are a Z80 assembler, decompiler, backup utilities, FORTHMATH, and complete source code. Also included is FORTHDOS, a FORTH disk operating environment with commands like COPY, DIR, FREE, and others popular with other disk operating systems. Random and sequential files are supported and real time clock support is standard. This version of FORTH handles single and double precision integers and floating point numbers. The Alternate FORTH Support Package #1, details following, is included FREE. The Alternate FORTH has the ability to support any combination of disk drives from 1-255 tracks, single or double sided, single or double density. TASFORTH sells for \$79.95 for either the Model I or III versions and \$89.95 for both. This package supports the FIG and FORTH-79 standards.

THE ALTERNATE FORTH SUPPORT PACKAGE #1

Written by Craig Lindley
Documentation by Craig Lindley

This FORTH utility package includes BLOCK.COPY which transfers blocks of FORTH code. Package #1 also adds full single precision floating point numbers along with trig capabilities. There is a Floating Point Word Glossary and a trig angle chart example program. This support package is included with The Alternate FORTH.

THE ALTERNATE MAILER

The Alternate Mailer a special 6" x 8" cardboard mailing package for diskettes or photos. Get ten for \$4.95, or 100 for \$24.95 and stop worrying about obscene messages from the postal reps that are tickled whether the post office is going to fold, spindle or mutilate your disks!

THE ALTERNATE SORT

Written by Zachariah Zimmerman
Documentation by Vince Farace and Jack Decker
Enhancements by Jack Decker

TASORT is a high-speed sorting program designed for easy use in BASIC programs that need powerful sort capabilities. TASORT is particularly useful where different combinations of variables are frequently used, as in data base management programs. TASORT is general enough to meet almost any sorting need! Versions are now ready for Z80 and 6809. CoCo version available only on disk at this time.

TASORT can rearrange up to 65 arrays of data in ascending or descending order. It will sort all types of variables: integer, single or double precision, or string. TASORT is an "in-memory" sorting program that sorts data present in the computer's memory. TASORT will not sort data sets that are larger than memory unless additional program statements are added by the user to the BASIC program.

TASORT sorts several single-dimensioned arrays. A 500-element array of any variable type sorts in 5-6 seconds. Arrays of 1,000 elements sort in 12-14 seconds, and 1,500 elements in 23-25 seconds. Four arrays of 1,000 elements each, sorted at one time but with two arrays in ascending order and two in descending order, take only a few seconds longer to sort than a single array. TASORT is fully relocatable and respects reserved memory. TASORT is \$19.95 on disk or tape. A limited number of tape versions are available.

THE ALTERNATE TREK

Written by Dennis Allen
Documentation by Dennis Allen

This is a demonstration disk for The Alternate BASIC. There are two versions of the same BASIC program, one written in The Alternate BASIC, the other is a translation into Microsoft BASIC that can be used immediately. This program was selected as the demonstration program because:

1. It is large enough to present plenty of examples demonstrating The Alternate BASIC'S powerful and unique structures. Some initial purchasers are using The Alternate BASIC as an intermediate language to teach BASIC programmers how to use PASCAL and other high-level languages. The move from Microsoft BASIC to The Alternate BASIC is a logical step for the millions of BASIC programmers using Microsoft BASIC.

2. Several versions are in the public domain, but none are as logically structured as this one. This means that should you decide to enhance the program (and we'd like that), it will be easy to do. Bugs, heaven forbid, should be easy to fix.

Currently, The Alternate Trek is ten dollars. The Alternate BASIC and related programs like The Alternate Trek are offered for TRSDOS 2.3 single-density format, TRSDOS 6.x double-density format, MSDOS 80-track double-sided format, MSDOS 40-track single-sided format, and CP/M 40-track single-sided format.

THE ANALYST

Written by Modular Software Associates
Documentation by Modular Software Associates

The Analyst can help you speed up almost any BASIC program from 15-50%, and it's remarkably easy to use. After activating The Analyst, you just run your programs and The Analyst "analyzes" them while they run. The Analyst tells you which variables your program uses most often. With this information, you then add one or two simple DIM statements to your program. These changes enable BASIC to access the most frequently-used variables first, speeding up your program! Use The Analyst to speed up commercial software, as well as your own. The Analyst also tells you what lines your program executes most often and the manual shows you how to alter your program to make them more efficient. Why settle for slow? Get The Analyst and SPEED IT UP! Only \$24.95 on disk.

THE BRIDGE ACADEMY Written by George Gratzner
Distributed by the Fort Richmond Software Company

The Bridge Academy is a series of instructional programs that teach the card game Bridge. The programs are divided into "books" and we currently have three books that cover nearly 90% of all opening bids.

Bridge is played by four people. This puts the beginner in an awkward position. It may be embarrassing to play with three seasoned players when one makes so many elementary mistakes. When a novice makes a mistake, s/he is corrected and taught a new rule. Unfortunately, a similar situation may not occur for weeks, and the rule is forgotten.

BRIDGE ACADEMY overcomes these problems. Every rule comes with many exercises. You practice the new rule until you feel you have mastered it. BRIDGE ACADEMY was designed for the beginner who wants to learn the elements of the game and for the seasoned player who wants to brush up on some rules.

BOOK I of the BRIDGE ACADEMY teaches you the fundamental rules of bridge, and the one notrump bidding and playing. BOOK II introduces the bidding and playing of one of a suit. Two responses to such an opening bid (the two-over-one and the jump shift) are practiced in BOOK III, along with some more pointers on playing. Each book of the BRIDGE ACADEMY contains a CUE CARD summarizing the rules of that book. Use them when you do the exercises and when playing bridge! These three books available for both the Model I and III (and 4 in the III mode), please specify. Books I, II and III of BRIDGE ACADEMY are available for only \$19.95 each, or all three for \$49.95.

THE COLLECTOR

Written by Modular Software Associates
Documentation by Modular Software Associates

What's "garbage collection"? "Garbage collection" is a software term describing what happens when strings no longer in use are removed, making room for new strings. If you've ever used a BASIC program with a lot of strings, you've probably noticed the mysterious "keyboard lockup" that occurs when ROM does its garbage collection. If you have, The Collector is for you! The Collector practically eliminates garbage collection delays. It is very easy to use and uses only 498 bytes for itself, plus 2 bytes per string (during collection). Use it with almost any BASIC program without changing a thing! The Collector works with most other machine language programs, too, including NEWBASIC and The Analyst and sells for only \$24.95 on disk.

THE SURVEY ANALYST

Written by Jim Resh
Documentation by Vince Farace

The Survey Analyst processes and analyzes the responses to a survey, questionnaire, or poll. It is designed for use in school districts, businesses, government agencies, church groups, trade organizations, private consultants, etc. -- wherever information is collected by survey.

The Survey Analyst supports the three most common data formats used for survey questions: Single-choice questions (e.g., typical "Agree/Disagree" items), multiple-choice questions (e.g., "Choose ALL that apply"), and questions that require large continuous numbers (e.g., total yearly sales). No restrictions are placed on the original format of the survey. In the Data Entry module, data is carefully screened for accuracy when entered, and can be edited, saved to diskette, and displayed on the video screen or printer. File names are managed by the program to ensure that the correct files are used as needed, and to guard against accidental loss of information. Profiled output is presented in table format and can be easily edited into a report and transported for further analysis on a large computer, or other program.

The Survey Analyst is limited to 510 questions per survey, depending on their response format. The number of respondents per study is based on the total available disk space; one 40-track Model III diskette will hold the data from 400 respondents asked 500 single-choice questions. Studies of up to 2,000 respondents have been conducted using The Survey Analyst.

The overall results of a survey are important, but often it is important to know how key subgroups of respondents differ -- men vs. women, registered voters with children, etc. The Survey Analyst can profile selected respondent groups on the survey questions and show you these differences in detail. The Survey Analyst actually generates the new BASIC code it requires for each profile analysis!

The Survey Analyst requires a TRS-80 Model I, III or 4 with 48K memory, at least two disk drives and LDOS, NEWDOS/80, DOSPLUS or TRSDOS. A 100+ page manual contains an overview of survey research and a detailed presentation of the program's features,

an index, annotated appendices on survey research texts, and sample surveys and codebooks. The program and the manual have been field tested in over 50 studies during the past three years.

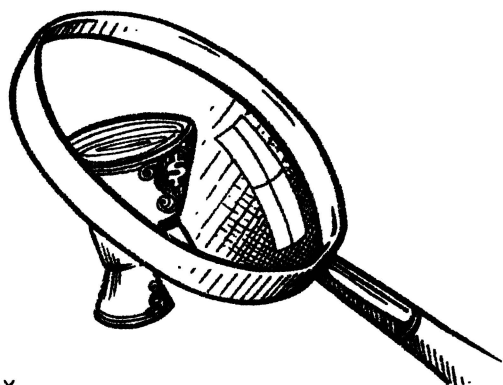
Price is \$195, plus shipping and handling. Manual is \$30 (applicable toward purchase). A supplemental discourse detailing some of the many features of The Survey Analyst is available for a SASE with thirty-seven cents postage affixed (Canadians may send a self addressed envelope and two Canadian quarters).



THRESHOLD ZERO

Written by Bruce G. Hansen
Documentation by Bruce G. Hansen

This game is written in fast Z80 code and designed to really keep you moving! There are nine levels of play, each getting progressively tougher. Just when you thought the universe was safe from conquering aliens! This may be your last chance to save the world. FREE: Threshold Zero posters. If you request when you order. Threshold Zero is \$19.95 on disk.



TINYPAY

Written by Charley Butler
Documentation by Charley Butler

TINYPAY is a petite payroll system for the small company with twenty or less employees. TINYPAY will output a detailed hard-copy report for the payroll period and maintain totals for your specific accounting period. Hard-copy reports can be generated whenever you choose. TINYPAY will add new employees, edit employee data, and process the payroll period. TINYPAY is written in Microsoft BASIC and The Alternate BASIC version is included at no extra charge. TINYPAY is currently available under all TRSDOS and TRSDOS-like operating systems and MSDOS. The petite price for our petite payroll system is only \$20.00.

TRAKCESS

Written by Roxton Baker
Documentation by Roxton Baker

TRAKCESS is the most powerful TRS-80 disk access utility yet written. It was written (with as much software assistance as is practical) to bring every capability of the TRS-80's 179X Floppy Disk Controller (FDC) under direct user control. Roxton has combined these capabilities into powerful, "intelligent" functions whose only limitations are those of the machine in general, or of the FDC in particular. TRAKCESS is powerful precisely because it works on the most elementary levels. It has been padded around with lots of interactive software and utility functions for efficient use.

TRAKCESS will help you make up your own tracks and format a blank disk with them. Disk Identification features such as (S)canning track sectors and (L)ocating disk sectors are at your fingertips. (C)opy track and (D)uplicate disk commands are capable of analyzing many widely different disk formats and duplicating them, far removed from the primitive FDC functions. There are numerous, "fun", and powerful commands included with TRAKCESS, so ALWAYS be careful when working with master diskettes. The Model I allows you to access the 1771 floppy disk controller commands and Model III accesses the 1791 floppy disk controller commands. The Model III version allows you to toggle between single and double density and analyze diskettes in both modes. The 179x Western Digital specification sheets are included (reprinted with permission). TRAKCESS for the Model I is \$24.95 and Model III is \$29.95.

VIDEO4

Written by Jack Decker
Documentation by Jack Decker

If you have a TRS-80 Model 4 or 4P but use the "Model III mode" so that you can keep using your Model III programs or DOS, BUT you would also like to be able to use the 24 line by 80 column video display mode at the same time, then you need Video4. Video4 is the TRS-80 Model 4 screen driver that works in the "Model III mode" and lets you use the the 80 by 24 video display. Video4 is self-relocating, and protects itself by setting high memory. Video4 also patches the Model III BASIC to correct several "bugs" that have crept in during translations. Complete support is provided for PRINT #, scrolling, tabs and other BASIC functions. There is a FREE keyboard filter that gives your Model 4 DOS command editing capabilities similar to those found on other machines. As with some with 6502-based computers, you can insert/delete characters, change characters, or reflect the "special character codes". Patches are included for LDOS 5.1, NEWDOS/80, and TRSDOS 1.3. Video4 sells for \$24.95.

VISCALC FORMULA PRINTER

Written by John Campbell and Ken Edwards
Documentation by John Campbell

The VC Formula Printer was designed to provide you with everything needed to produce printouts of the formula content of your VC applications. With VCFP, you can see the whole picture by reading

the application file, reorganizing it and sending it to a printer. This process creates the application's structure (on disk or paper) ordered in the same column and row format that VisiCalc uses. Thus, it presents the complete picture of the structure for analysis and review. Now, EASILY document an application for future reference, demonstrate and answer questions about the application, reconstruct and justify application logic and assumptions, or make major changes to an application developed earlier. You can improve the appearance of report printouts or improve the application itself for more efficient use of space and memory. You can even transfer an application to another spreadsheet program where incompatible file structure or hardware differences may require manual re-entry of the data. VCFP sells for \$39.95. Specify Model 1/III or Model 4 version. Registered Model 1/III version owners may upgrade to the Model 4 version for only \$10.

VIVACE!

Written by Lou Witt
Distributed by WittSoft

VIVACE! is the newest BASIC compiler by WittSoft, a leader in compilers for the TRS-80. In layman's terms, a compiler is a program that converts programs written in BASIC to machine language. This not only makes them run faster, but offers a degree of protection, because the compiled program cannot be LISTed in the normal manner. Most compilers dictate that you rewrite your BASIC program (sometimes extensively) before you compile it. Not VIVACE! It will take any BASIC program that will run under regular BASIC and make it run faster. The advantage of VIVACE! is that you usually do not have to change so much as a single line of your BASIC program before you compile it. Programs compiled with VIVACE! may be freely distributed without further payment of royalties provided that certain conditions are met (these are explained in the documentation). VIVACE! currently comes in two versions: One works with TRSDOS 6.x and Model 4 BASIC, while the other works with TRSDOS 1.3 and Model III BASIC. Both versions sell for \$49.95. Consideration for supporting other TRS-80 operating systems will depend entirely on profitability of supporting the current two systems.

WIBASIC

Written by Lou Witt
Distributed by WittSoft

Another fine BASIC compiler from WittSoft. As with VIVACE!, programs compiled using WIBASIC may be freely distributed without royalty payments provided that the conditions given in the program documentation are observed. WIBASIC is an integer compiler, which means it cannot handle floating-point numbers (numbers with a fractional part, such as 123.45). However, unlike the code created by VIVACE!, the compiled code created by WIBASIC will run under ANY Model I or III compatible operating system (it will run on the 4 or 4P in the Model III mode). If you are trying to compile an existing BASIC program, you will most likely have to make some changes to it before it can be correctly compiled by WIBASIC. However, creating and editing programs under WIBASIC is made easy by a special "memory compile" feature that compiles the program in memory (WITHOUT

destroying the source code, as most other compilers do), then (if there were no compilation errors) executes the program and returns to WIBASIC at the end. Creating or debugging a program under WIBASIC is as easy as under regular interpretive BASIC, and programs compiled with WIBASIC will (in most cases) execute considerably faster than similar programs compiled with VIVACE! Once the program is fully debugged, it may be compiled to disk or tape. Several enhancements to the regular TRS-80 BASIC are included with the package, along with a demo program. WIBASIC includes an excellent 15 chapter users manual that includes documentation for the "library" and useful routines that you can use to enhance your own programming. Support is also provided for designing "overlays", program modules that can help tiny Z80s perform like the 16 bit machines. "Hybrid" programming, that is, programs that are a combination of Z80 and BASIC code, is also supported. You get all of this for the low, low price of only \$49.95.

WIZARD'S CASTLE

Written by Joseph R. Powers
Documentation by Joseph R. Powers

Many cycles ago, in the kingdom of N'dic, the gnomish wizard Zot forged his great orb of power. Soon after this he vanished, leaving behind his vast subterranean castle filled with esurient monsters, fabulous treasures, and the incredible orb of Zot. From that time hence, many a bold youth has ventured into the Wizard's Castle. As of yet, none has ever emerged victorious.

At the start of each game you will create a character and equip it with armor, weapons, lamps, flares and/or gold pieces. You then enter the castle featuring 512 different rooms on eight different levels. You will encounter warps, vendors, monsters, treasures, curses, and more. The object of the adventure is to find the Orb of Zot and leave the castle with it. Each game is entirely different and separate from previous games, so you'll find Wizard's Castle a challenge even after you win. Wizard's Castle is \$14.95 on disk.

ZEN

Written by John Hawthorne
Adapted and Improved by Laurie Shields

Our TRS-80 version of Zen is a complete package for the creation of Z80 machine code programs and combines a text editor, fast Z80 assembler, machine code monitor and debugger. This is the fourth major upgrade of the disk ZEN since its first release in 1981. ZEN will customize itself with the necessary patches to accommodate the minor differences in the various TRS-80 systems. ZEN supports assembling directly to memory and includes an interactive debugger. ZEN also has a BASIC macro preprocessor and a source file containing sample macros and library routines. There is a special Model 4 version specifically written for TRSDOS 6.0. ZEN includes several utility programs. Complete support for the Models 1, III and 4, ZEN sells for only \$39.95.

ZMAIL

Written by Jon Lamrouex
Documentation by Jon Lamrouex

ZMAIL is a data management tool for mail list and address book applications. ZMAIL is written in fast Z80 machine language to allow the most economical use of memory and achieve the greatest speed in time-dependent operations such as sorting, searching and disk I/O. ZMAIL supports various line sizes, easy merging of files, and prints labels and lists. You can access 500 individual records in a 48K Model III and 750 in a 64K Model 4. ZMAIL includes complete source code and is \$29.95.

BOOKS

BASIC DISK INPUT/OUTPUT FASTER AND BETTER

Written by Lewis Rosenfelder

This book is from IJG and is Volume II (originally intended to be two separate volumes!) from Lewis Rosenfelder, author of BASIC FASTER and BETTER. This 400-page volume includes over important information for both beginning and professional programmers like file searching, indexing and accessing. Random file techniques have never been made simpler. Many sample demonstration programs are included. This disk I/O information value is only \$29.95.

THE ALTERNATE SOURCE PROGRAMMER'S JOURNAL BOUND VOLUME II

BOUND VOLUME II is a compilation of issues #7 through #12 of The Alternate Source's Programmer's Journal, the magazine of advanced applications and software for the TRS-80. BOUND VOLUME II sells for \$19.95. Included is an index for both Bound Volumes. Bound Volume I not available.

FORECASTING ON YOUR MICROCOMPUTER

Written by Daniel B. Nickell

Here's an opportunity to expand your definition of "forecasting" and to expand your ability to handle it with minimum effort. This is a 374-page book/2-disk combination (for Model III only) that contains almost 100 programs that help you with forecasting. Fundamentally, this book teaches you how to select and determine the reliability of a forecasting method. Then, it offers the techniques involved like correlation and regression analysis, time series analysis, modelling, simulation, and numerical manipulation. The applications cover a broad range of human interest including opinion and survey research, economic forecasting, astronomical forecasting, population estimates, educational testing, and forecasting random events. A complete chapter is devoted to decision-making based on forecasts. If you think this book/software combination would be a valuable asset to your library, you're right. Also, this would make an invaluable reference/textbook. At 40.95, it is an exceptional software bargain.

HOW TO CREATE YOUR OWN COMPUTER BULLETIN BOARD

Written by Lary L. Myers

This is a 224-page book filled with information and a floppy diskette filled with programs that will assist you in implementing a computer bulletin board all the way from getting started and planning to putting it all together on your Model I, III, or 4 TRS-80. There is a Model I version and a Model III/4 version and each sells for \$34.95.

HOW TO DO IT ON THE TRS-80

Written by Bill Barden

This is a great book from IJG and Bill Barden (the author that was providing us valuable information when hardly anyone knew anything!). It is the ideal reference guide for miscellaneous TRS-80 information. It has a 32-page index and cross-references to that index printed as thumb-tabs on appropriate pages. This system allows you to find the information you need. Some of the hundreds of subjects are:

/JCL, what is it?

ASCII files, what are they? BASIC, error trapping control codes delimiters, sequential disk files

There is even information for the part-time hardware hacker such as how to remove IC chips and how to solder. Special information is also included for the COCO and the Model 100. How To Do It on the TRS-80 should be on every reference book shelf. It is only \$29.95.

INTRODUCTION TO WORDSTAR

Written by Arthur Naiman

There has long been a need for a well-organized, clearly written introduction to WordStar, MicroPro's popular word processing program. If you've just bought WordStar, this book will quickly and easily teach you how it works, so you can use the program's own manuals to look things up in, rather than as primers. If you're considering buying WordStar, you'll get an excellent sense of the program's capabilities, and whether or not it can do what you need. Introduction to WordStar is only \$11.95.

MACHINE LANGUAGE DISK INPUT/OUTPUT A.O.M.

Written by Michael J. Wagner

The purpose of this book is to inform anyone familiar with Z80 assembly-language programming how to control the TRS-80 Model I and III disk drive interrupt systems. Driver routines for every function are described with abundant examples in this book. It also covers utilization of TRSDOS assembly-language file I/O calls and techniques. It costs only \$29.95.

PRACTICAL WORDSTAR USES

Written by Julie Anne Arca

This book will show beginners how simple it is to use WordStar, and experienced users will learn new and more efficient ways of using the special features of WordStar. In no time, you will be

able to use MailMerge with WordStar to automatically generate form letters and envelopes, create data files, and bunches of other word processing tasks. Practical WordStar Uses sells for \$16.95 complete with a colorful poster that graphically display WordStar commands.

THE RS-232 SOLUTION

Written by Joe Campbell

If you own a microcomputer, sooner or later you will need to connect "RS-232 compatible" equipment. Here, at last, is the book to show you how. You'll learn to connect your system to printers, modems, terminals, plotters or any other RS-232 peripheral, using a simple fool-proof method that requires no expensive tools and only minimal knowledge of electronics. The most important aim of this book is to actually build a functioning cable for any two "RS-232-C compatible" devices. So, this is a "how it works" and a "how to work it" book and sells for only \$16.95.

TRS-80 ROM ROUTINES DOCUMENTED

Written by Jack Decker

Jack Decker has spent years collecting and studying various versions of the TRS-80 ROMs that have appeared in various machines, including the TRZ-80, the System 80, the PMC-80, and most of the known versions of the Radio Shack ROM. This book is not a disassembly. Jack goes beyond one-line comments and gives you the "big picture". He shows you the background and the whys and the wherefores of the ROM subroutines. He offers tips and suggestions, and he warns you of the pitfalls that can drive you bonkers when you use a subroutine knowing only enough to be dangerous. He has saved you a lot of time and trouble by doing the "figuring out" for you and also by organizing his book by sections that you will need as you work. Arithmetic routines, string handling routines, input and output routines, and PEEK and POKE locations are all discussed. Model I and III BASICs are compared. Eight appendices and a hexadecimal address cross-reference chart is included. AND (!), Jack's style is human! It is like having your own private tutor right at your computer. TRS-80 ROM Routines Documented sells for only \$19.95.

TRSDOS 2.3 DECODED AND OTHER MYSTERIES

Written by James Lee Farvour

This book is intended to guide the beginning and experienced system programmer through the internal operations of the TRSDOS operating system used on the Radio Shack Model I computer. Significant features of computer architecture and assembly programming are presented. TRSDOS source code is reproduced here. It is only \$29.95.

UNDERSTANDING dBASE II

Written by Alan Simpson

This book is written with the computer novice in mind, but certainly more experienced users can learn from the examples, too. The approach for teaching you to use dBASE II focuses on the

practical. Rather than just tell you what dBASE does, Alan shows you real-life everyday examples. He'll not only tell you what the dBASE commands mean, he'll also teach you the concepts behind using the commands correctly. He'll also give you some good techniques for using dBASE II to its fullest potential. Understanding dBASE II sells for only \$22.95.

HARDWARE

LEGEND PRINTERS

We are now stocking the Legend 880, a very capable Epson-compatible printer at a very reasonable price. Features include bi-directional printing, 80 cps, 8 X 9 matrix characters, normal dot graphic density of 640 dots (7.5") horizontal and 1280 dots compressed. Paper can be fed both with friction and an adjustable tractor feed. Like the ProWriter, the Legend 880 tractors are "behind" the paper so that a sheet is not wasted every time you need to remove a page. Ask for a free spec sheet. Parallel models available from stock, serial available on special order. At the time this catalog was prepared we sold this printer for \$279, but hardware prices change so rapidly these days that you'd be wise to call and get our current price before ordering. We can also special order the Legend 1200 (an improved version of the 880, that prints at 120 characters per second) and the Legend CP-VII Color Printer. Call for details.

MODEL 4P UPGRADES

Designed by Martin Standish

We offer two hardware modifications for the Model 4P. One is an expansion bus so that you can add two extra drives, if desired. The other is a video plug that makes it possible to plug in an additional monitor. This feature makes it possible for more than one person (even an entire class) to watch the screen. The price for these modifications is \$80 each, or both for \$150. If you wish to add an additional 64K of memory at the same time (to convert a 64K machine to 128K), we'll perform all three modifications for \$200. We also offer two extra slim-line double-sided eighties (1 1/2 megabytes of storage) with case and deluxe power supply for \$429. An extra two-drive cable is \$29.95. Be sure to package your system very securely. UPS is very good about servicing claims, but neither of us need the hassle. USPS is not so good about claims. They have never paid off in about 1/2 dozen cases. In all cases, you should ship insured and authorize us to return the system insured. Local users should call for an appointment.

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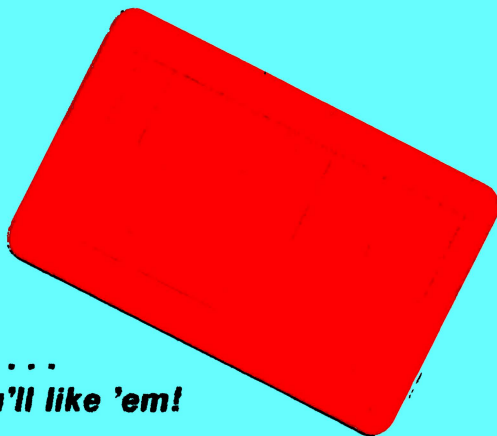
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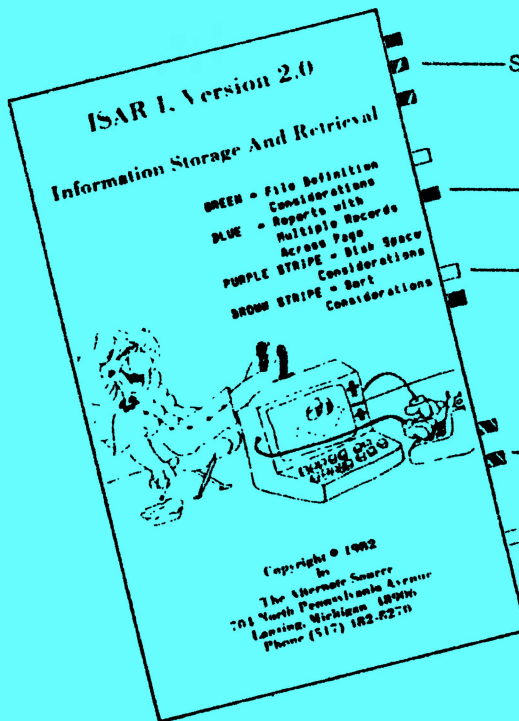
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Compatibility Chart
 Programs Preceded with an asterisk (*) have
 detailed information sheets available upon request
 (Programs with a code of 8 can run
 on Model 4 with a Model III DOS.)

TRS-80: 1=Model I, 3=Model III, 4=Model 4, 8=I and III
 9=I, III and 4, 2=2000, C=Coco
 Other: P=CP/M, M=MSDOS and PC DOS

*ALE (8).....1	SCREEN EDIT (8).....8
AUTOLOADER (8).....1	*SPECTRUM DISKETTES (29CMP)...8
BAS2000 (2).....2	SPELLBOUND (8).....8
BAS34 (4).....2	STATEMENT BALANCER (8).....8
BASANYO (M).....2	STOPPER (8).....8
C'S DISK #1 (9M).....2	TAS PJ #19 (8).....9
CHEKBOOK (8).....2	TAS PD LIB (9).....9
CHILD'S PLAY (8).....2	TASMANIA (8C).....9
CRIBBAGE (8).....3	TASMON (9).....9
DATAGRAPH (9).....3	TEXTPRESS (8).....10
DDSD (8).....3	THE ADVENTURE PACK I (8).....10
*EDM (8).....3	THE ADVENTURE SYSTEM (8).....10
EDM/ALE MACROS (8).....4	THE ALTERNATE BASIC (9M).....10
EDX (9).....4	THE ALTERNATE FORTH (8).....11
FLY (8).....4	THE ALTERNATE SORT (9C).....11
*HYPERCROSS (9).....5	THE ALTERNATE TREK (9M).....11
ISAR 2.0 (8).....5	THE ANALYST (8).....12
KBE (8).....5	THE BRIDGE ACADEMY (8).....12
*LAZY WRITER (9).....5	THE COLLECTOR (8).....12
LAZYCOMM (9).....5	*THE SURVEY ANALYST (8).....12
LDOS UTILITIES (8).....5	TINYPAY (9CMP).....13
LOGICAL REASONING (8).....6	TRAKCESS (8).....13
*MODEM80 (9).....6	VIDEO4 (4).....13
*MULTIDOS (8).....6	*VIVACE! (34).....13
NEWBASIC 2.1 (8).....6	VCFP (9).....13
NEWDOS/80 PACK #1 (8).....6	WIBASIC (8).....14
*PLOT80 (8).....7	WIZARD'S CASTLE (8).....14
QUILL DRIVER (8).....7	ZEN (9P).....14
	ZMAIL (8).....14

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