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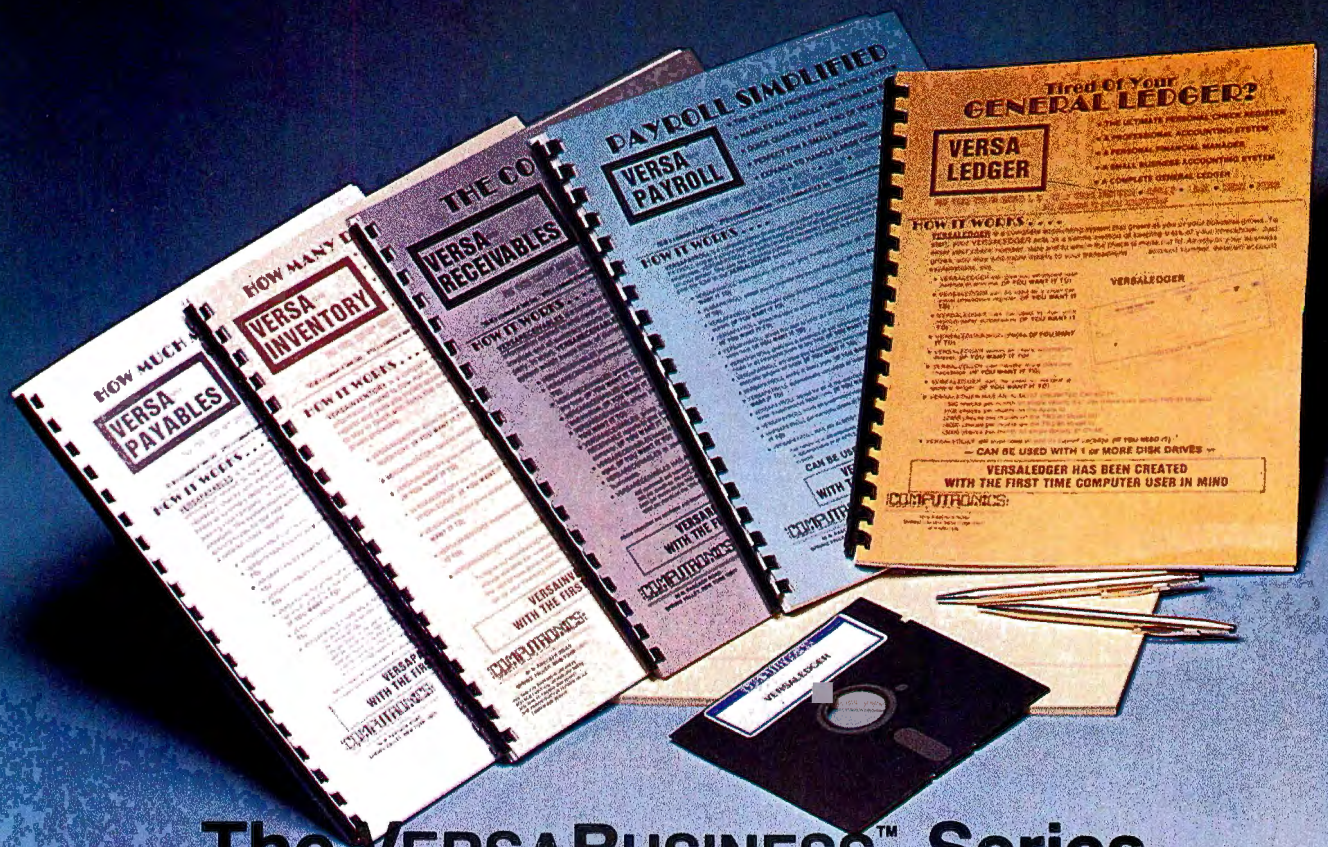

The VERSABUSINESS™ Series

Each VERSABUSINESS module can be purchased and used independently, or can be linked in any combination to form a complete, coordinated business system.

VERSARECEIVABLES™ $99.95

VERSARECEIVABLES™ is a complete menu-driven accounts receivable, invoicing, and monthly statement-generating system. It keeps track of all information related to who owes you or your company money, and can provide automatic billing for past due accounts. VERSARECEIVABLES™ prints all necessary statements, invoices, and summary reports and can be linked with VERSALEDGER II™ and VERSAINVENTORY™.

VERSAPAYABLES™ $99.95

VERSAPAYABLES™ is designed to keep track of current and aged payables, keeping you in touch with all information regarding how much money your company owes, and to whom. VERSAPAYABLES™ maintains a complete record on each vendor, prints checks, check registers, vouchers, transaction reports, aged payables reports, vendor reports, and more. With VERSAPAYABLES™, you can even let your computer automatically select which vouchers are to be paid.

VERSAPAYROLL™ $99.95

VERSAPAYROLL™ is a powerful and sophisticated, but easy to use payroll system that keeps track of all government-required payroll information. Complete employee records are maintained, and all necessary payroll calculations are performed automatically, with totals displayed on screen for operator approval. A payroll can be run totally, automatically, or the operator can intervene to prevent a check from being printed, or to alter information on it. If desired, totals may be posted to the VERSALEDGER II™ system.

VERSAINVENTORY™ $99.95

VERSAINVENTORY™ is a complete inventory control system that gives you instant access to data on any item. VERSAINVENTORY™ keeps track of all information related to what items are in stock, out of stock, on backorder, etc., stores sales and pricing data, alerts you when an item falls below a preset reorder point, and allows you to enter and print invoices directly or to link with the VERSARECEIVABLES™ system. VERSAINVENTORY™ prints all needed inventory listings, reports of items below reorder point, inventory value reports, period and year-to-date sales reports, price lists, inventory checklists, etc.

VERSALEDGER II™ $149.95

VERSALEDGER II™ is a complete accounting system that grows as your business grows. VERSALEDGER II™ can be used as a simple personal checkbook register, expanded to a small business bookkeeping system or developed into a large corporate general ledger system **without any additional software.**

- VERSALEDGER II™ gives you almost unlimited storage capacity (300 to 10,000 entries per month, depending on the system),
- stores all check and general ledger information forever,
- prints tractor-feed checks,
- handles multiple checkbooks and general ledgers,
- prints 17 customized accounting reports including check registers, balance sheets, income statements, transaction reports, account listings, etc.

VERSALEDGER II™ comes with a professionally-written 160 page manual designed for first-time users. The VERSALEDGER II™ manual will help you become quickly familiar with VERSALEDGER II™, using complete sample data files supplied on diskette and more than 50 pages of sample printouts.

SATISFACTION GUARANTEED!

Every **VERSABUSINESS™** module is guaranteed to outperform all other competitive systems, and at a fraction of their cost. If you are not satisfied with any **VERSABUSINESS™** module, you may return it within 30 days for a refund. Manuals for any **VERSABUSINESS™** module may be purchased for $25 each, credited toward a later purchase of that module.
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*The VersaBusiness Series is available for TRS-80 IBM APPLE KAYPRO COMMODORE 64 OSBORNE XEROX TELEVIDEO SANYO ZENITH NEC DEC TI EPSON MORROW MICRO DECISION NORTHSTAR MSDOS and CP/M computers with 8" disk drives (Computer names are tradenames and/or trademarks of their respective manufacturers).

VERSALEDGER II™

The Most Versatile Accounting System Available for Your Microcomputer

The Ultimate Check Register System • A Personal Financial Manager • A Professional Business Accounting System • A Complete, Coordinated General Ledger

Only **VERSALEDGER II™** gives you the versatility you need to set up your system the way you want it. With **VERSALEDGER II™** you can:

- Maintain a check register alone, totally independent from the system's general ledger features.
- Run a general ledger alone, without setting up a check register.
- Run one or more checking accounts *and* a general ledger as a complete, integrated accounting system.
- Get an instant cash balance at any time.
- Distribute a single check to more than one account (*unlimited* multiple disbursements).
- Print checks, check registers, lists of outstanding checks, journal transaction registers, detailed and summary account listings, detailed and summary trial balances, check register posting reports, balance sheets and income statements.
- Design and store *your own formats* for balance sheets and income statements!
- Coordinate your system with any of the other four independent modules of the **VERSABUSINESS™ Series** to handle Accounts Receivable, Accounts Payable, Payroll, and Inventory.

VERSALEDGER II™ can take full advantage of your system's capacity. It can store up to:

- 615 accounts and 300 transactions per month on single density 5.25-inch drives (TRS-80 Model I)
- 615 accounts and 2400 transactions per month on the TRS-80 Model III or IBM PC
- 1000 accounts and 6000 transactions per month on the TRS-80 Model II
- 615 accounts and 500 transactions per month on the APPLE II
- 1000 accounts and 3000 transactions per month on single density 8-inch CP/M
- Virtually unlimited capacity on hard disk systems

(The above figures are estimates—storage capacity depends on the configuration of your systems.)

VERSALEDGER II™ is easy to learn and easy to use. The comprehensive 156-page user's manual provides first-time users with a complete overview of the system, and clear, well-organized descriptions of every function of the system. After gaining some experience, you will still find the manual to be very useful as an excellent quick-reference guide to the system. The manual acts as a step-by-step instructional text that makes use of *complete sample data files supplied on diskette* and refers to 51 *pages of sample reports.* Even if you've never used a computer before, you'll be running **VERSALEDGER II™** like a pro in just one afternoon!

VERSARECEIVABLES™

VERSARECEIVABLES™ is the complete accounts receivable system that will handle your invoicing and billing operations and provide you with a clear picture of the flow of money owed to your company. **VERSARECEIVABLES™** will store a complete history for each of your customers and show you *who* owes your company money, *how much,* and which customers are delinquent in their payments.

VERSARECEIVABLES™ will:

- Keep a complete history on each account, both current and aged
- Print invoices and statements on preprinted forms (available from New England Business Service).
- Allow you to enter invoices manually, or take product and pricing data from **VERSAINVENTORY™** files
- Generate periodic statements at any time
- Bill your customers automatically (if desired).
- Allow partial payments on open invoices.
- Print all needed accounts receivable reports, including complete transaction reports, customer data sheets, and detailed aging reports
- Print customer mailing labels.
- Integrate with **VERSALEDGER II™**

VERSARECEIVABLES™ maximizes the storage capacity of your system. It will store

- 400 customers and transactions per month on single density 5 25-inch drives (TRS-80 Model I)
- 2400 per month on the TRS-80 Model III or IBM PC
- 6000 per month on the TRS-80 Model II
- 600 per month on the Apple II
- 3000 per month on single density 8-inch CP M
- Virtually unlimited storage on hard disk systems

(The above figures are estimates—storage capacity depends on the customer-transaction mix and the amount of disk space available.)

The **VERSARECEIVABLES™** user's manual (which includes complete sample report printouts) will help you get the system up and running quickly, even if you're a beginner. **VERSARECEIVABLES™** is ideal for doctors, lawyers and other professionals, small business or large corporations. If your receivables system is giving you headaches, **VERSARECEIVABLES™** is the cure!

VERSAINVENTORY™

VERSAINVENTORY™ is a complete, comprehensive inventory control system that keeps track of descriptions, pricing, and vendor information for every item in stock, what is being sold (and removed from stock), what stock has been depleted to a user-defined reorder point, and what items are actually out of stock. **VERSAINVENTORY™** also provides you with essential sales reports that tell you how well any particular product has been selling.

VERSAINVENTORY™ will

- Allow you to instantly add to or deduct from inventory levels.
- Notify you when an item's stock level falls to reorder point (which you have previously defined)
- Store comprehensive data for every item in stock, including item I.D. number, description, vendor I.D., vendor's item number, stock location, department, unit of sale, weight of unit, number of items in stock, number on backorder, reorder level and quantity, items sold period-to-date and year-to-date, latest cost, average cost, last P O number and date, expected delivery date, standard and alternate selling prices, and sales period-to-date and year-to-date.
- Print all needed inventory and sales reports, including master inventory listings, items below reorder point, inventory value report, period and year-to-date sales reports, price lists, and physical inventory checklists.
- Allow you to enter and print invoices, automatically depleting stock levels.
- Integrate with **VERSARECEIVABLES™** (when using the **VERSARECEIVABLES™** invoicing system, **VERSAINVENTORY™** files are automatically updated).

VERSAINVENTORY™ makes the most of your available disk capacity, to figure out the storage limitations of your system, multiply the number of kilobytes of disk storage available by 8; for example, a TRS-80 Model II disk will hold 500K, and will thus allow 4000 inventory items on record. (This method provides an estimate only; actual capacity depends on the configuration of your system).

The **VERSAINVENTORY™** manual provides first time users with everything they needed to know to run the system. Whether you're running a retail store of a large warehouse, **VERSAINVENTORY™** is perfect for controlling any inventory operation.

VERSAPAYABLES™

VERSAPAYABLES™ is the complete accounts payable system that will help you stay in touch with exactly how much your company owes, to whom, and when payments become due. **VERSAPAYABLES™** stores a complete file of vendors and transactions, helps you select vouchers for payment, and can even print checks.

VERSAPAYABLES™ will:

- Keep complete information on each vendor
- Keep track of current and aged payables.
- Let you quickly select vouchers for payment, or *automatically* suggest which vouchers should be paid.
- Allow partial payments of vouchers.
- Print checks and a check register.
- Print all needed summary reports, including vendor data and transaction reports, aged payable reports, open voucher reports, and automatic voucher selection reports.
- Print vendor mailing labels.
- Integrate with **VERSALEDGER II™**.

VERSAPAYABLES™ maximizes the storage capacity of your system. It will store

- 400 vendors and transactions per month on single density 5 25-inch drives (TRS-80 Model I)
- 2400 per month on the TRS-80 Model III or IBM PC
- 6000 per month on the TRS-80 Model II
- 3000 per month on single density 8-inch CP/M
- 600 per month on the APPLE II
- Virtually unlimited storage on hard disk systems

(The above figures are estimates—storage capacity depends on the vendor-transaction mix and the amount of disk space available.)

With its complete set of sample report printouts, the **VERSAPAYABLES™** manual provides clear and simple instructions to get your system set up and running. **VERSAPAYABLES™** is the accounts payable system designed for any business, large or small.

VERSAPAYROLL™

VERSAPAYROLL™ simplifies your payroll operation by storing all of your employee records, automatically making all payroll calculations, and printing out paychecks and all government-required payroll reports. The user is in control at all times, with the power to verify, and if necessary intervene and alter data on any employee's check before printing it, or to *prevent* a single check from being printed (which allows you to write out on employee's check by hand in advance). With **VERSAPAYROLL™** you can say goodbye to those tedius, time-consuming withholding calculations, and process your payroll in minutes instead of hours.

VERSAPAYROLL™ will:

- Print paychecks one at a time, or print an entire payroll at once
- All you to intervene and alter any figure on any paycheck.
- Give you an instant summary of any employee's year-to-date totals, or totals for all employees.
- Calculate all Federal, State and Local taxes
- Allow for all standard deductions, plus three miscellaneous deductions
- Take amounts from different departments to form one paycheck
- Print all government-required reports.
- Permanently store all payroll transactions.
- Integrate with **VERSALEDGER II™**.

VERSAPAYROLL™ maximizes your system's storage capacity. It will store data for.

- up to 300 employees on single density 5.25-inch drives (TRS-80 Model I)
- 600 employees on a TRS-80 Model III or IBM PC
- 1200 employees on a TRS-80 Model II
- 500 employees on an APPLE II
- 600 employees on any single density 8-inch CP/M system
- Virtually unlimited capacity on hard disk systems

(The above figures are estimates—storage capacity depends on the configuration of your system.)

VERSAPAYROLL™ comprehensive user's manual is designed to guide even the most inexperienced user and includes complete sample printouts. Whether you have hundreds of employees, or just a dozen, automate your system with **VERSAPAYROLL™**.

Every **VERSABUSINESS™** module is guaranteed to outperform all other competitive systems and at a fraction of their cost. If you are not satisfied with any **VERSABUSINESS™** module, you may return it within 30 days for a refund. Manuals for any **VERSABUSINESS™** module may be purchased for $25 each, credited toward a later purchase of that module.

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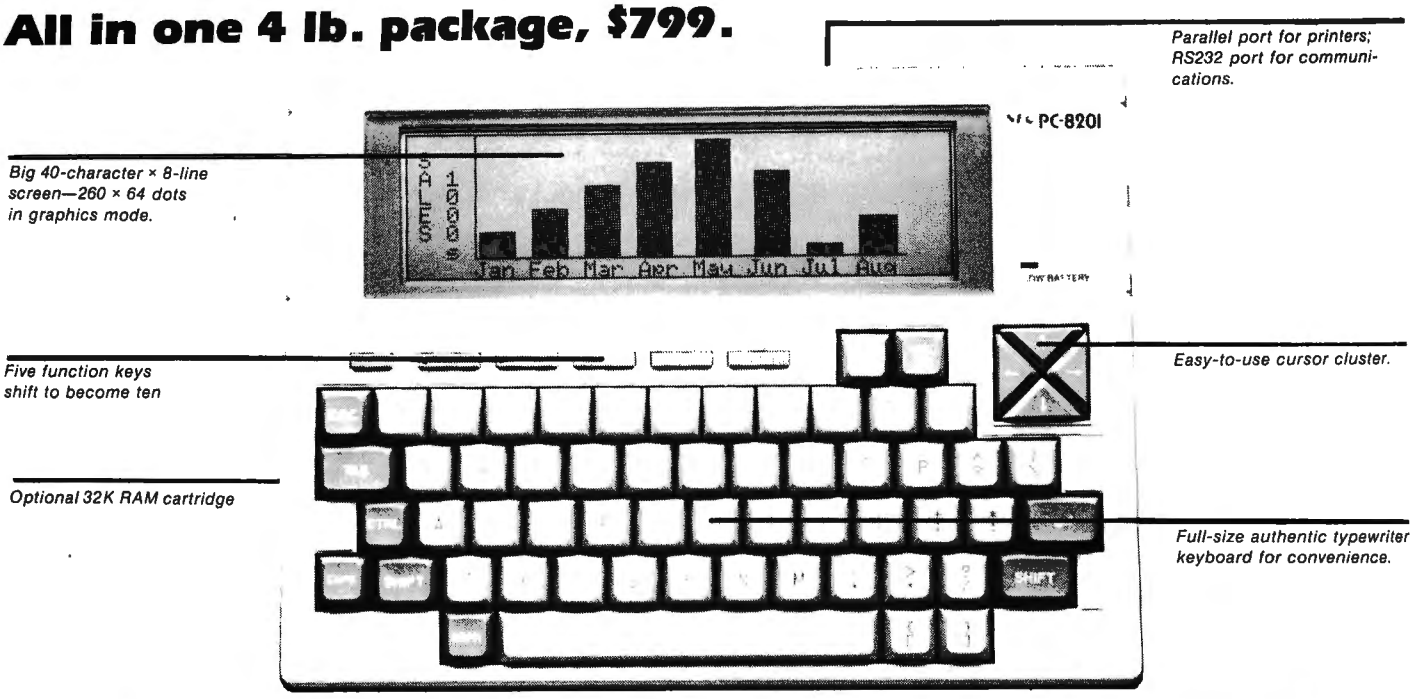

The *NEC* PC-8200 Portable Computer

At last, a full-powered microcomputer that really does go anywhere you do. The PC-8200 weighs only 3.8 pounds and is no bigger than a three-ring binder. Yet it gives you the same power and features as other so-called "portables" that can weigh up to 18 pounds. On the top of that, the PC-8200 can run on batteries as well as AC power. That means you can use it wherever you go — on a plane, at the beach, in the car — without having to plug it in. A special "protect" feature saves all data for up to 26 days, even if the batteries fail or the computer is accidentally turned off.

Eight reasons why you'll choose NEC over the other leading portables.

	NEC	Radio Shack	Hewlett-Packard
Price	$799*	$799	$995
RAM/ROM	16K/32K	8K/32K	16K/48K
RAM Expandability (Internal/External)	To 96K (64K/32K)	To 32K (32K/none)	To 24K (24K/none)
Free bundled software	Yes	No	No
Function keys	10	8	0
RAM cartridges	Yes	No	No
Bar Code Reader, RS232, Parallel Port, Cassette Port	Yes	Yes	Not Standard
Floppy Disk and SIO Port, Cursor Cluster	Yes	No	Not Standard

*Includes perpetual clock calendar. NiCad battery pack, AC adapter charger optional. The PC-8200 is a battery-operated CMOS-based system.

PC-8200 Main Unit with 16K RAM	$799.00
Nickel-Cadmium Battery Pack	$ 17.98
AC Adapter for Main Unit	$ 20.00
RAM Cartridge (32K)	$395.00
RAM Chip (8K)	$120.00
Portable Data Recorder (battery powered)	$115.00
Portable 40-Column Printer (battery powered)	$170.00
AC Adapter for Data Recorder & Printer	$ 15.95
Parallel Printer Cable	$ 39.50
RS-232C Communications Cable	$ 29.90
6-Pin SIO Cable	$ 8.00

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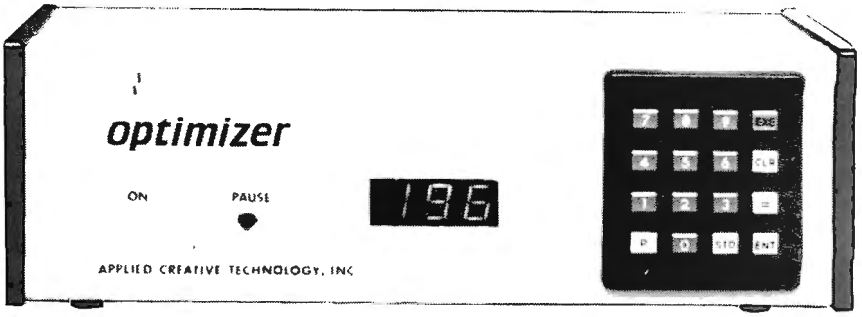

The Printer Optimizer

From Applied Creative Technologies, Inc.

DON'T WAIT FOR YOUR PRINTER!

How long does it take your computer to print a 15-page letter? 10 minutes? 30 minutes? More than an hour? The **PRINTER OPTIMIZER** does it in 20 seconds! Heres how it works: your computer sends the text to the **PRINTER OPTIMIZER**, where it is stored in memory. Your computer is immediately free to continue with other programs – while the **PRINTER OPTIMIZER** keeps printing your letter at a rate the printer can handle.

And there's more! The **PRINTER OPTIMIZER** is not just an ordinary printer buffer. It can do a lot of things no other printer buffer can do:

- The **PRINTER OPTIMIZER** comes equipped with 64K of memory, and up to 256K may be added with optional OPTIMEM cards.
- The memory can be divided into 4 separate "storage areas." The buffer can be used to store text for printing *all day long*, with letters going into one storage area, invoices in the second, statements in the third, and shipping labels in the fourth. At the end of the day, you can put stationery in the printer and print out all of your form letters, invoices, statements, and labels. See why it's called **THE PRINTER OPTIMIZER?**
- Connect any printer to any computer, serial or parallel, any protocol. You can even reconfigure your RS232 cable connections without cutting a single wire!
- You can connect one computer to three printers *at the same time* -- which would allow you to print letters, invoices and labels all from the same program, *without ever changing forms!* (And your letters can be printed on a letter-quality printer, while other reports are being printed on a high-speed dot-matrix printer.)
- It can also connect *two computers* simultaneously to one or two printers, allowing both workstations to send text into the same four buffer storage areas.
- Use *any word processing program* to access *any printer's special print features*, including boldface, italics, underlining, super- and subscripts, paging, reverse feed, graphics, proportional printing, pitch and size changes...anything your printer can do!
- You can program it to automatically convert any type of code character (or group of characters) into any other character (or group of characters). This means that it functions as a very sophisticated translator (or filter) for transmitted text -- so you can even program it to interface your computer to a typesetter, plotter, or other advanced output device.

Not convinced? We'll send you a 16-page book about The **PRINTER OPTIMIZER** for $5, refundable or credited toward purchase.

SPECIFICATIONS & OPTIONS:

PRINTER OPTIMIZER - basic unit connects parallel computer to parallel printer, with 64K buffer (roughly equivalent to 15 single spaced pages (80 col by 56 lines). Extra memory, extra outputs and serial connections are options.
Includes:
Slots for up to four 64K OPTIMEM cards (see below) provide capacity of from 65,536 to 262,144 characters.
Z80 Microprocessor. Z80 CTC, 8K ROM control firmware.
2K CMOS RAM with Lithium battery for reserve power retains all special instructions when AC is off.
Memory saving Space Compression - switch selectable
Parallel input provides BUSY & ACK handshaking
Parallel output detects BUSY, Paper Empty and Fault from printer, or just BUSY (switch selectable).
Internal switches enable/disable 7/8 bit word length and DC1/DC3 printer control used by some minicomputers.
Allows all characters (ASCII 0 thru 255)
Size - 10.25W X 3.25H X 7D Weight - 3.5 pounds
External Transformer power pack Metal case
Power requirements. 120 VAC 0.2 AMPS

FRONT PANEL -
16 key keypad for storing and accessing:
Character and string conversions
Control characters for remote control of printer
Automatic or manual insertion of pause between pages
Number of copies and selective reprinting
Automatic or manual selection of multiple printers
Automatic or manual selection of print job
Programming and operation is very similar to using a telephone auto-dialer
3 digit 1/2" H bright red LED display shows
Buffer space available
Data entered from keypad
Error messages
"P" when transmission paused
PAUSE transmission pushbutton starts and stops output
Power ON indicator

REAR PANEL -
Memory erase pushbutton. Power ON/OFF switch
2 female 36 cond (AMP 552742-1) connectors (aka "Centronics type" parallel)
Space for optional extra inputs and outputs

OPTIMEM - memory expansion cards (1 provided with unit)
64K dynamic RAM with on-board power regulation
Gold plated edge contacts
User installable (static safe, simply plug in)

OPTICOM - Asynchronous Serial RS232C adaptor option
Z80 DART for **fully independent** input and output
2 DB25 female 25 conductor connectors
Baud rates. 110 to 9600 (switch selectable)
Even/Odd/No parity. 7/8 Bit word length. 1/2 Stop Bits
Protocols: XON/XOFF, ETX,ACK, DTR (busy), RTS/CTS
Internal jumpers provide easy "no soldering" signal routing, saves cost of custom cables or modem eliminator
Enables user to connect, control and switch between two printers (one serial and one parallel). Also allows parallel and/or serial input
User installable, may be added at any time

OPTICOM + - Same as Opticom but provides **two** serial outputs
OPTI3PO - Provides two additional parallel outputs with automatic or manual switching between total of **three** outputs.

POSSIBLE CONNECTIONS WITH THE PRINTER OPTIMIZER	
Printer Optimizer (basic unit-includes 64K)	1 parallel computer 1 parallel printer
Printer Optimizer with OPTICOM	1 parallel computer 1 serial computer 1 parallel printer 1 serial printer
Printer Optimizer with OPTICOM+	1 parallel computer 1 serial computer 1 parallel printer 2 serial printers
Printer Optimizer with OPTI3PO	1 parallel computer 3 parallel printers

THE PRINTER OPTIMIZER (basic 64K unit) $499
OPTIMEM 64K EXPANSION CARD $139
OPTICOM SERIAL ADAPTOR OPTION .....$ 99
OPTICOM + ...$149
OPTI3PO .....$ 79
OPTI-UPGRADE .....$ 55

NOTE: If you own an older model of the Printer Optimizer, then OPTI-UPGRADE can be used to add the necessary expansion slots for these new options.

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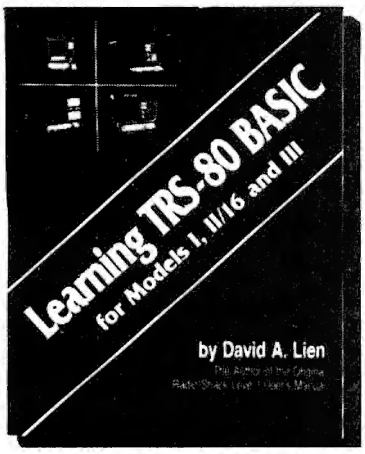
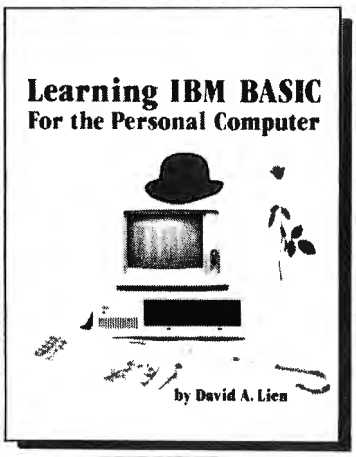
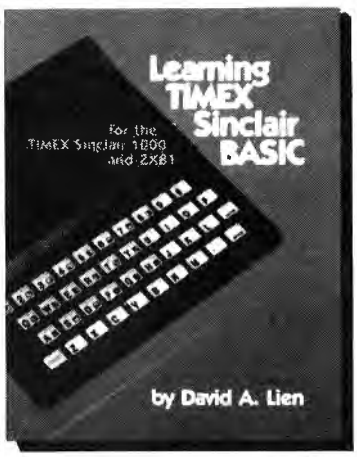
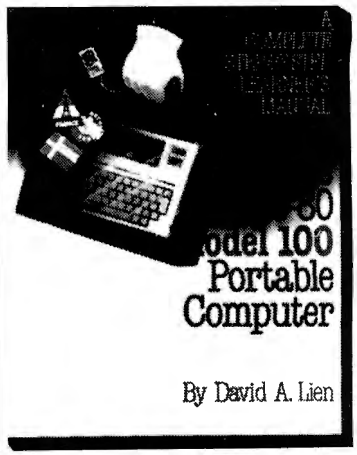
Learning BASIC









Learning TRS-80 BASIC - The Ultimate TRS-80 BASIC Book

Whatever TRS-80 Model you use -- I, II, III, 4, 12, or 16 -- *Learning TRS-80 BASIC* is a must. Its easy-to-understand tutorial format makes learning simple, whether you're studying at home or in school. It picks up where the Radio Shack "getting started" manuals end, instructing you in a complete course of elementary and intermediate level programming techniques for your TRS-80.

Dr. David A. Lien is uniquely qualified to instruct TRS-80 users, having written the original *Level I TRS-80 Learner's Manual* furnished with all Model I computers and translated into five languages. His *Learning Level II* is recognized around the world as a TRS-80 classic.

Learning TRS-80 BASIC features simple, step-by-step instructions, including programs you can use in business or home finance, for entertainment, or in the classroom. You'll even learn to write your own custom software.

Also included are short Question and Answer sections which check you on the most important ideas before moving on. Dr. Lien anticipates your questions and problems, and never leaves you wondering what to do next. Simplify your programming and have fun doing it with *Learning TRS-80 BASIC*, the only book no TRS-80 owner should be without.

Learning TRS-80 BASIC, 528 Pages.....$19.95

Learning IBM BASIC - The Most Comprehensive How-To Book on IBM BASIC

The IBM PC is fast becoming one of the most popular personal computers on the market, and this new release from Dr. David A. Lien is a comprehensive how-to book that helps you get the most from your PC. This complete BASIC tutorial, first in the CompuSoft Learning Series for the IBM Personal Computer, puts your PC to work while you learn BASIC from a proven master of the language. Learning is a relaxed and enjoyable experience as you follow easy, step-by-step instructions. Even if you're completely new to computers, you'll soon be writing custom software using Dr. Lien's easy-to-follow techniques.

Dr. Lien's reputation as a leader among technical authors is your assurance of success on the IBM PC. His BASIC books have guided hundreds of thousands of people to computer competency. His unique approach, which anticipates readers' questions and problems, is aimed at computer beginners, making *Learning IBM PC BASIC* an ideal classroom tool.

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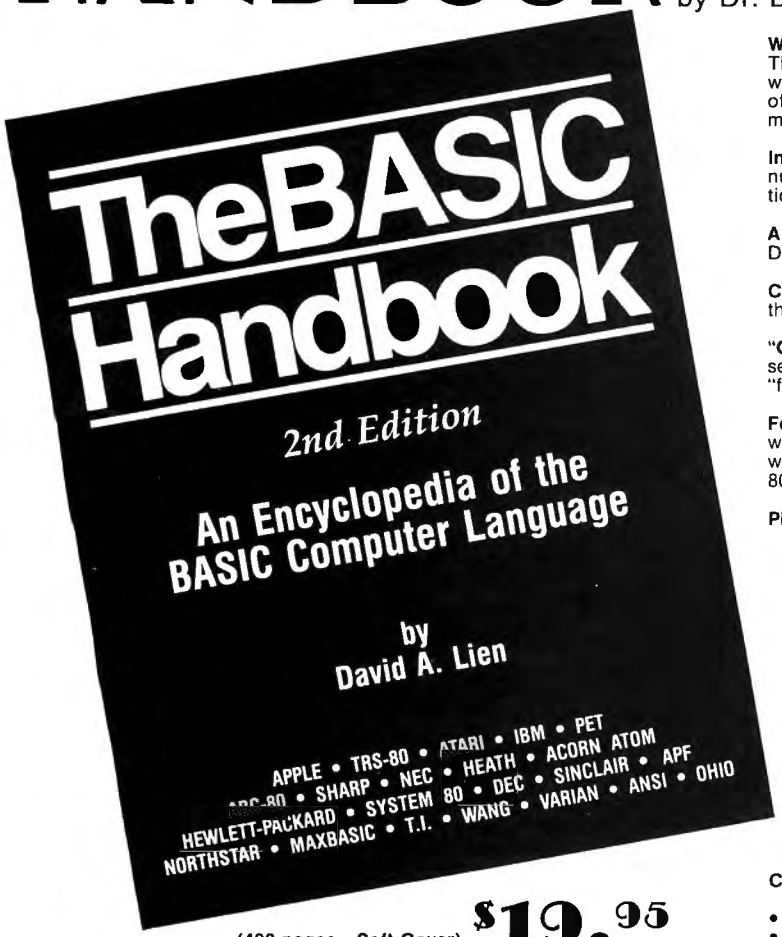

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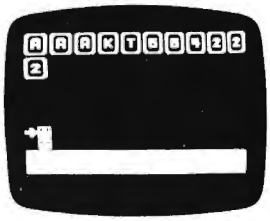

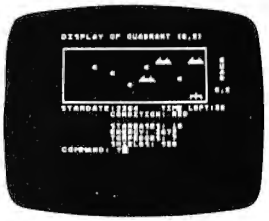

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This program tests your backgammon skills and will also improve your game. You can choose to compete against the computer or against another person, and the computer can even play itself! Either the computer or human can double or generate dice rolls. Board positions can be created or saved for replay. BACKGAMMON 2.0 is played in accordance with the official rules of backgammon, and is sure to provide many fascinating sessions of backgammon play. Requires 16K (Atari requires 24K). **Price: $19.95** (cassette), **$23.95** (5¼" diskette), **$26.45** (8" diskette).

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MONARCH is a brain teaser! You have just been elected the Ultimate Ruler of your own country. It is your job to decide the country's budget. Your country's income comes from farm produce and tourism. Half your land is farmland, which also has excellent mineral content. It is up to you to decide how to manage the country's economy and to redistribute the wealth to your countrymen. Can you keep your countrymen happy enough to last in office for eight years? **Price: $14.95** (cassette), **$18.95** (5¼" diskette).

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PFS is available on diskette only. The Atari version includes DOS 2.0 on the diskette and utilizes that computer's sound, color, and graphics capabilities. The Atari version requires only 24K of memory, all others require 32K and disk drive. **Price: $39.95** (diskette), **$42.45** (8" CP/M disk).

THE FAMILY BUDGET
Welcome to the age of electronic record-keeping. The Family Budget Program is designed as a two-part electronic home data record-keeping program. Part One, Budget, is used to record expenditures, both cash and credit, and income on a daily basis for the period of one calendar year. Three categories are used to record tax deductible items, namely Interest and Taxes, Medical Expenses, and Charitable Donations. Part Two, Charge Accounts, provides a continuous record of all credit transactions. Each program provides options for hardcopy printout of various data (in the Apple version it is assumed that a printer is connected to port #1).

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MICROCOMPUTER BOND PROGRAM (MBP) is designed to help you evaluate bonds. It provides complete bond data entry, editing, listing and storage capabilities; a flexible analysis environment, including market interest levels and tax rates; bond yields before maturity, showing estimated price, total dividends, and gross yield, bond prices estimated over time, at various market interest rates evaluated to either maturity or early call; bond valuations, showing current yield, and before and after tax yield to maturity. Cassette version reequires 16K, diskette version requires 32K and one disk drive. **Price: $55.95** (cassette), **$59.95** (5¼" diskette), **$62.45** (8" diskette).

TAX OPTIMIZER

TAX OPTIMIZER will evaluate various tax alternatives and to select the most advantageous method for the preparation of an individual Federal Income Tax return. Using this program you can easily determine the advantages of your projected financial decisions and actions. Requires 16K (24K on Atari) and one disk drive **Price: $59.95** (5¼" diskette), **$62.45** (8" diskette).

MULTILINEAR REGRESSION (MLR)

This is the third program in the DynaComp Statistics Series. Whereas Regression I and II are designed for analyzing bivariate data, MLR is capable of treating multivariate situations with no limit (other than available computer memory) on the number of dimensions. Requires 16K (24K on Atari). **Price: $24.95** (cassette), **$28.95** (5¼" diskette), **$31.45** (8" diskette).

Minimum System Configurations (unless stated otherwise)

IBM PC with PCDOS or MSDOS and PCBASIC
Kaypro with CP/M and MBASIC)
TRS-80 I/III/4 with 16K Level II BASIC*
Apple II, IIe with 16K, Applesoft BASIC, DOS 3.2 or 3.3 (state which)
Atari 400/800 with Atari BASIC cartridge, 16K/24K **
Osborne with CP/M and MBASIC
8" CP/M with IBM standard 3740 single density format compatibility and MBASIC
Commodore/PET with 16K, Commodore BASIC ***
Xerox 820/820 II with CP/M and MBASIC (8" disk version only)
NorthStar with 16K free memory and NorthStar DOS and BASIC, OR · CP/M and MBASIC.
NEC PC 8000 with NBASIC or MBASIC (state which)
Morrow Designs I, II or III with CP/M and MBASIC
ALTOS with CP/M and MBASIC (8" disk version only)
Heath/Zenith Z-89 with CP/M and MBASIC (8" disk version only)
Heath/Zenith Z-100 with ZDOS and ZBASIC
SuperBrain/Compustar with CP/M and MBASIC
Cromemco with CDOS and BASIC (8" disk version only)
Canon AS-100 with MSDOS and MBASIC

* TRS-80 diskettes do not come with TRSDOS or BASIC on them.
** Atari programs require 24K.
*** Commodore/PET diskettes come in 4040 (2040) and C-64 format. They cannot be loaded on 8050 disk drives.

STATTEST

This program performs statistical tests of hypothesis and includes t-tests, chi-square tests, and F-tests as well as simple regression. Data can be entered under program control or directly from tape or disk. Any external file which already contains data in the simple format required may also be used. Tape version runs on 16K TRS-80 Model I or III/4. **Price: $29.95** (cassette), **$33.95** (5¼" diskette), **$36.45** (8" diskette).

REGRESSION II (PARAFIT)

PARAFIT is a parametric least squares regression program designed specifically for the determination of the non-linear coefficients in complicated mathematical expressions. This is in contrast to the linear polynomial coefficients calculated by Regression I. Requires 16K (24K on Atari). **Price: $29.95** (cassette), **$33.95** (5¼" diskette), **$36.45** (8" diskette).

REGRESSION I

This is a complete and coordinated regression curve fitting package for the analysis of linear and non-linear, one-dimensional data. The user is given considerable freedom in experimenting with fitting functions and orders of approximation. Requires 16K (24K on Atari). **Price: $19.95** (cassette), **$23.95** (5¼" diskette), **$26.45** (8" diskette).

BASIC STATISTICAL SUBROUTINES (Vol. I.

This is a collection of statistics routines. The routines are written in BASIC and can be called from an easy-to-use menu. Full facilities for data storage, retrieval and editing are provided. Includes 29 statistical tests and a 100 page manual. Requires 32K, one disk drive. **Price: $99.95** (diskette).

BASIC SCIENTIFIC SUBROUTINES (Vol. I)

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BASIC SCIENTIFIC SUBROUTINES (Vol. II)

This second volume of scientific subroutines includes routines for: least squares approximation, series approximation techniques, functional approximations by iteration and recursion, CORDIC approximation techniques and alternatives, table interpolation, differentiation and integration, finding the real roots of functions, finding the complex roots of functions and optimization by steepest descent. **Price: $119.95** (cassette), **$149.95** (5¼" diskette), **$169.95** (8" diskette).

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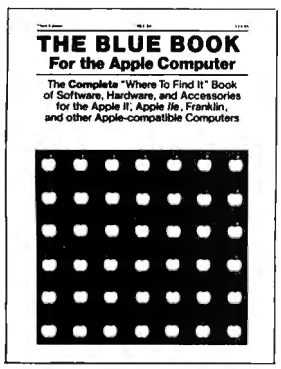

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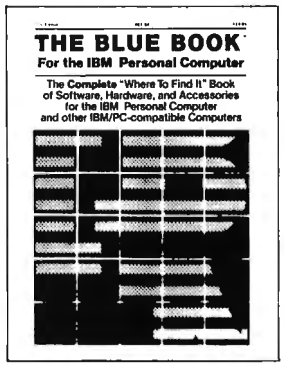

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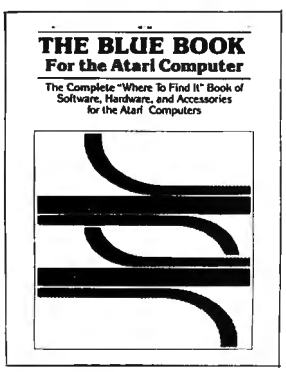

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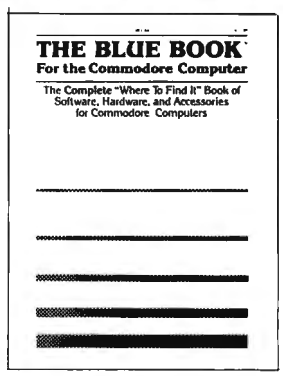

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- Dilution Analysis
- Arbitrage Computations
- Future Price Estimation with Inflation
- Seasonal Quantity Indices
- Financial Ratios
- Merger Analysis
- Value of a Right
- Depreciation vs. Cash Flow
- Time Needed for Money to Double, Triple, etc.
- Time Series Analysis — Linear Trend
- Time Series Analysis — Moving Average Trend
- Brokerage Commissions
- Margin Account Computations
- Advanced Option Strategies
- Money Market Computations
- Forecasting Cash Flows
- Leverage Analysis

For TRS-80* Models I, II & III, IBM PC*, Apple* II & III, & CP/M* Computers

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-- activate the inventory feature, so that you can "ring up" an item by entering just a product code, calling up the price and product description automatically.
-- add the product descriptions to the customer receipts.
-- activate the automatic tax-computation feature.
-- store names and addresses for credit customers.
-- try out all of the other features you're interested in.

Finally, you set up your system with exactly the features *you* want to use, and you're in business! Even though CASH REGISTER CONTROL has so many features, you are always completely in control -- and you can teach new employees to use the system in less than five minutes.

FEATURES:

- Completely Menu-driven -- *very* easy to learn and use.
- Can be used either in conjunction with your present cash register, or to replace it completely.
- Allows a variety of different receipt styles -- receipt may be a simple list of prices with total, cash received and change, or may include the date of sale, full product descriptions, customer names and addresses, and an automatic duplicate copy.
- Displays the customer's receipt on screen before printing it on paper, and allows error correction at any time -- even *after* the transaction has been completed.
- Can keep track of up to four independent cash drawers.
- Operators can be required to enter a security code before each transaction.
- Can track the activities of up to 25 salespeople.
- Can operate as a simple cash register -- you enter prices manually, and the computer totals them, then displays and prints a receipt and computes change.
- Can define items as taxable or non-taxable and automatically compute tax.
- Keeps track of cash, check, credit card and open account sales.
- Can store names, addresses, credit limits and balances for open account customers, and print statements.
- Includes an integrated inventory control system that keeps track of stock levels of all items in and out of stock, and automatically notifies you of low stock levels. Prints inventory reports and pricing labels with product descriptions and codes.
- If you use the inventory features, you can "ring up" sale by entering only product codes, and the computer will retrieve all prices and product descriptions from the inventory file (and automatically deduct from inventory levels), then automatically subtract from inventory levels when the sale is complete.
- Prints sales reports that provide an organized picture of your daily sales activity. Reports include transaction audit trail, daily sales by item, and daily sales by salesperson.

MINIMUM SYSTEM REQUIREMENTS:
48K RAM, and 1 disk drive (2 drives if single-density)

CASH REGISTER CONTROL $250

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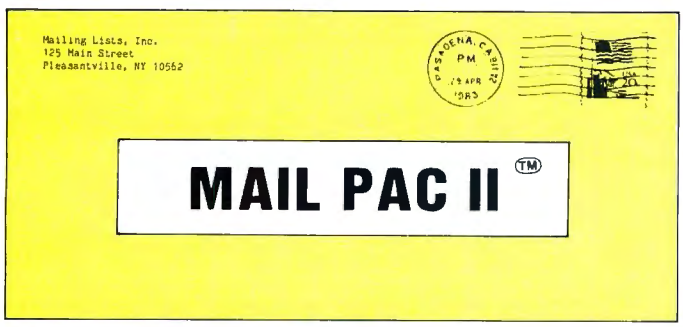
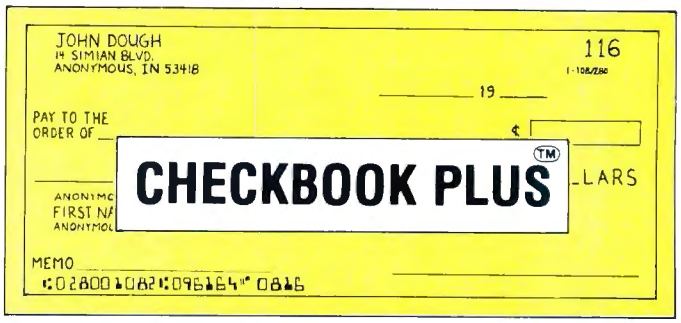
ANYONE CAN USE OUR SOFTWARE!

MAIL PAC II and CHECKBOOK PLUS represent a new generation of computer software. *Our* software doesn't even need a manual! Anyone can quickly learn to use either package by following simple, explicit on-screen instructions. But, for those of you who insist -- we've included a complete user's manual as well.





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Stores from one to one million names in Zip Code, Numerical or Alphabetical order. The only limitation is your disk storage space.

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Prints your mailing list on 1, 2, 3, or 4-across labels (with up to 5 user-defined lines on each label) or as a compact, user-designed directory. The record length is completely user-defined, and each field within each of your records is completely variable (allowing storage of any number of characters for any particular address entry). Devote fields to telephone numbers, codes, or even special messages related to each particular name on file.

Powerful --

A built-in word processor allows you to create personalized form letters for each address on your list (or just a particular group of addresses).

Ease of Use --

Create new mailing lists, review existing lists, handle changes of address, delete cancelled names, sort lists, and purge duplicate names from your files. Complete on-screen instructions tell you in plain english exactly how to accomplish all of these tasks.

MAIL PAC II $99.95

CHECKBOOK PLUS FEATURES:

Complete Check Register --

Checkbook Plus stores your entire check register in a disk file, and then uses the data to balance your account, track your expenses, and help you make budget projections. Review the entire checkbook, enter checks, deposits, fees and adjustments, mark outstanding checks when paid, and get an instant cash balance at any time. All data can be viewed onscreen or printed out in report form.

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Handles the Details --

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2	ANNU1	Annuity computation program
3	DATE	Time between dates
4	DAYYEAR	Day of year a particular date falls on
5	LEASEINT	Interest rate on lease
6	BREAKEVN	Breakeven analysis
7	DEPRSL	Straightline depreciation
8	DEPRSY	Sum of the digits depreciation
9	DEPRDB	Declining balance depreciation
10	DEPRDDB	Double declining balance depreciation
11	TAXDEP	Cash flow vs. depreciation tables
12	CHECK2	Prints NEBS checks along with daily register
13	CHECKBK1	Checkbook maintenance program
14	MORTGAGE/A	Mortgage amortization table
15	MULTMON	Computes time needed for money to double, triple, etc.
16	SALVAGE	Determines salvage value of an investment
17	RRVARIN	Rate of return on investment with variable inflows
18	RRCONST	Rate of return on investment with constant inflows
19	EFFECT	Effective interest rate of a loan
20	FVAL	Future value of an investment (compound interest)
21	PVAL	Present value of a future amount
22	LOANPAY	Amount of payment on a loan
23	REGWITH	Equal withdrawals from investment to leave 0 over
24	SIMPDISK	Simple discount analysis
25	DATEVAL	Equivalent & nonequivalent dated values for oblig.
26	ANNUDEF	Present value of deferred annuities
27	MARKUP	% Markup analysis for items
28	SINKFUND	Sinking fund amortization program
29	BONDVAL	Value of a bond
30	DEPLETE	Depletion analysis
31	BLACKSH	Black Scholes options analysis
32	STOCVAL1	Expected return on stock via discounts dividends
33	WARVAL	Value of a warrant
34	BONDVAL2	Value of a bond
35	EPSEST	Estimate of future earnings per share for company
36	BETAALPH	Computes alpha and beta variables for stock
37	SHARPE1	Portfolio selection model-i.e. what stocks to hold
38	OPTWRITE	Option writing computations
39	RTVAL	Value of a right
40	EXPVAL	Expected value analysis
41	BAYES	Bayesian decisions
42	VALPRINF	Value of perfect information
43	VALADINF	Value of additional information
44	UTILITY	Derives utility function
45	SIMPLEX	Linear programming solution by simplex method
46	TRANS	Transportation method for linear programming
47	EOQ	Economic order quantity inventory model
48	QUEUE1	Single server queueing (waiting line) model
49	CVP	Cost-volume-profit analysis
50	CONDPROF	Conditional profit tables
51	OPTLOSS	Opportunity loss tables
52	FQUOQ	Fixed quantity economic order quantity model
53	FQEOWSH	As above but with shortages permitted
54	FQEOQPB	As above but with quantity price breaks
55	QUEUECB	Cost-benefit waiting line analysis
56	NCFANAL	Net cash-flow analysis for simple investment
57	PROFIND	Profitability index of a project
58	CAPI	Cap. Asset Pr. Model analysis of project
59	WACC	Weighted average cost of capital
60	COMPBAL	True rate on loan with compensating bal. required
61	DISCBAL	True rate on discounted loan
62	MERGANAL	Merger analysis computations
63	FINRAT	Financial ratios for a firm
64	NPV	Net present value of project
65	PRINDLAS	Laspeyres price index
66	PRINDPA	Paasche price index
67	SEASIND	Constructs seasonal quantity indices for company
68	TIMETR	Time series analysis linear trend
69	TIMEMOV	Time series analysis moving average trend
70	FUPRINF	Future price estimation with inflation
71	MAILPAC	Mailing list system
72	LETWRT	Letter writing system-links with MAILPAC
73	SORT3	Sorts list of names
74	LABEL1	Shipping label maker
75	LABEL2	Name label maker
76	BUSBUD	DOME business bookkeeping system
77	TIMECLCK	Computes weeks total hours from timeclock info.
78	ACCTPAY	In memory accounts payable system-storage permitted
79	INVOICE	Generate invoice on screen and print on printer
80	INVENT2	In memory inventory control system
81	TELDIR	Computerized telephone directory
82	TIMUSAN	Time use analysis
83	ASSIGN	Use of assignment algorithm for optimal job assign.
84	ACCTREC	In memory accounts receivable system-storage ok
85	TERMSPAY	Compares 3 methods of repayment of loans
86	PAYNET	Computes gross pay required for given net
87	SELLPR	Computes selling price for given after tax amount
88	ARBCOMP	Arbitrage computations
89	DEPRSF	Sinking fund depreciation
90	UPSZONE	Finds UPS zones from zip code
91	ENVELOPE	Types envelope including return address
92	AUTOEXP	Automobile expense analysis
93	INSFILE	Insurance policy file
94	PAYROLL2	In memory payroll system
95	DILANAL	Dilution analysis
96	LOANAFFD	Loan amount a borrower can afford
97	RENTPRCH	Purchase price for rental property
98	SALELEAS	Sale-leaseback analysis
99	RRCONVBD	Investor's rate of return on convertable bond
100	PORTVAL9	Stock market portfolio storage-valuation program

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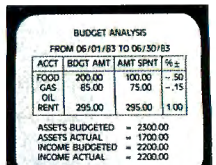
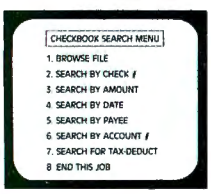


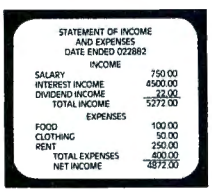
Let your microcomputer pay for itself

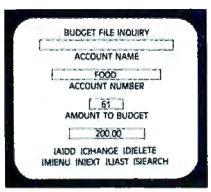
Our COLOR ACCOUNTANT software will automatically manage your money, providing you with the financial information you need.

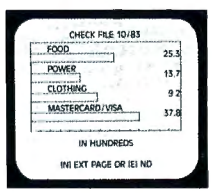
Standard features include complete checkbook maintenance and flexible chart of accounts, detailed and summary budget analysis, automatic net worth and income/expense calculations, check search, and graphical analysis.

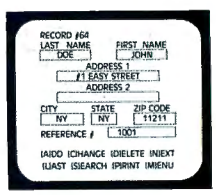
What's more, the COLOR ACCOUNTANT also includes a payments/appointment calendar, mailing list, and the ability to print personalized checks!











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This program manages your checks, charges, deposits, and interest quickly and accurately. Includes:

* Full-screen editing — allows access to all fields.[1] * Automatic transaction recall — removes any uncertainty from checkbook reconciliation. * Continuous balance — each entry automatically balances your checkbook. * Supports multiple entry and tax deductible items, credit cards, and automatic transactions.

CHART OF ACCOUNTS

This program provides the user with the utmost in flexibility. Assets, liabilities, equity, income, and expenses are all covered.

* Up to 99 accounts and 9 sub-categories/account may be defined.[2] *Program comes equipped with 66 standard categories. * Store/retrieve personalized chart of accounts. * Generate hard-copy report.

CHECK SEARCH

An end to shuffling shoeboxes . . .

This convenient record-retrieval system can locate any transaction through 6 fields. Combined with its automatic sort/search capability is the capacity to generate hard copy reports. Whether it's for the IRS, or the local department store, CHECK SEARCH will find that missing check.

NET WORTH/INCOME-EXPENSE

Know Where You Stand . . .

This program accounts for all transactions that do not flow through your checkbook.

* Interfaces Smoothly With Existing Checkbook Records

* Automatically updates each month's changes in assets, liabilities, and net worth. * Print individual lists of income and expenses. * Generate hard copy financial reports monthly, quarterly, annually.

DETAILED BUDGET ANALYSIS

This program enables you to build your budget records on an account by account basis. Features include:

* Full-screen editing with add/change/delete * Automatic check sort and dump * Account-by-account analysis of expenditures.

This menu-driven wonder is accompanied by a comprehensive user-manual complete with system flow-charts and indexing.

Available for ATARI 400/800, Commodore 64/VIC-20, TRS-80 COLOR. TRS-80 COLOR requires Ext. Basic and 16K cassette, 32K diskette. ATARI 400/800 requires 32K (48K version available - please specify) VIC-20 requires 16K memory expansion.

[1] Available on ATARI and COMMODORE formats only.

[2] Subject to memory constraints.

futurehouse

SUMMARY BUDGET ANALYSIS

This program lets you print a summary of your budget so that you can quickly see how closely to budget you are spending at any given time from all of your checking accounts.

PAYMENTS CALENDAR

Schedule Bills In Advance

The payments calendar will keep track of up to 250 separate payments with 32K easily and efficiently, whether they are paid only once, or once a month.

* Includes full add/change/delete function. * Generates hard copy report of all bills.

APPOINTMENTS CALENDAR

Your Own Personal Secretary

The Appointments Calendar will allow you to schedule up to 200 appointments/month with 32K.

* Full add/change/delete function * Ideal Memory-Aid, anniversaries, birthdays, meetings. * Generates hard-copy report.

COLOR GRAPH DESIGN PACKAGE

This program displays graphs of any of your financial record files on the screen.

The following relationships are automatically generated.

* Income accounts to total income. * Expense accounts to total expenses. * Asset accounts to total assets. * Liabilities to total liabilities. * Budgeted items to actual amounts spent.

MAILING LIST

This powerful program is ideal for both personal use and small business. Features include:

* Up to 600 mailing records/diskette. * Global sort and search capacity on all fields. * Prints individual records or complete files to screen or printer.

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WORDSTAR IS USED BY MORE PEOPLE, MORE OFTEN, TO DO MORE THINGS THAN ANY OTHER WORD PROCESSING SOFTWARE

For TRS-80 Model I/III/4 (includes LDOS 5.1), Apple, IBM PC, Xerox, Sanyo, Televideo, NEC, DEC, NorthStar, Superbrain, Heath/Zenith, Hewlett-Packard, TI Professional, Dynabyte, Vector Graphic, CP/M-80 (8" SD), CP/M-86 (IBM PC, DEC Rainbow, or 8" formats), MSDOS (8" SD)

All MicroPro programs are designed to work with each other as well as they work for *you.* They're designed for the non-technical user. Training guides, on-screen menus, Help screens, and easy-to-understand User Manuals help you feel comfortable and in control right from the start. Although they're easy to learn and use, each STAR program has the most advanced features available -- for word processing, spreadsheet calculations, and advanced financial planning.

WordStar

Wordstar is used by more people, more often, to do more things than any other word processing software. And you'll find it'll do more for you.

Ask Arthur C. Clarke. He used WordStar to write his best selling novel, **2010: Odyssey Two.** Or ask Osborne-McGraw Hill, where the editors use it to produce all of their books. Or, for that matter, ask any of over 400,000 others who swear by WordStar's reliability when it comes to making fast work of the written page.

And no wonder. WordStar has more work-saving features to take the time and drudgery out of revising and retyping than any other word processing software. For instance, there are production typing features to let you move columns around and merge paragraphs from different documents at the touch of a key, and print features like boldfacing, underlining, centering, superscripts and subscripts, automatic pagination and justification, and a built-in print spooler that lets you print one document and edit a different document at the same time. Finished pages are displayed onscreen, complete with page breaks and justified text, just as they will appear on paper.

WordStar guides you through every step with complete menus displayed onscreen. As you become more proficient with WordStar, you may choose to eliminate some or all of the onscreen instructions. When your needs grow, WordStar is ready to grow right along with you, with options like SpellStar, StarIndex and MailMerge. You can even insert business data and financial projections and graphs from CalcStar, InfoStar and PlanStar into your WordStar documents, to create professional-looking reports in a fraction of the time it would take to do the job manually.

WordStar **$495**

WordStar Options:

SpellStar

This WordStar option is your "proofreader on a disk." It rapidly compares every word in your document against a list of the 20,000 most commonly used English words. When it reaches a misspelled word, SpellStar flags the mistake. You can change the word, leave it as it is, or add it to the dictionary if it is some special term that you don't want flagged again. If error-free documents are important for you, then SpellStar is a WordStar option that's a must!

SpellStar (requires WordStar) **$250**
WordStar with SpellStar (special combined price) **$695**

StarIndex

This newest addition to the list of WordStar options allows you to create complex professional **indexes,** with all entries and subentries formatted automatically according to your specifications. As you type or edit your document (using WordStar), you "mark" the items to be included in the index. When the document is complete, StarIndex will produce a complete alphabetized index, with page numbers of all references.

StarIndex will let you store formats to be used automatically for headings and subheadings, and automatically generate a table of contents and lists of tables and figures, keeping track of chapters, sections, appendices and tables, and renumbering everything automatically whenever you insert or delete copy.

StarIndex (requires WordStar) **$195**
WordStar with StarIndex (special combined price) **$595**

MailMerge

This WordStar option is a multi-purpose file merging program which helps you produce customized form letters for mass mailings. It will print names and addresses on each letter, and insert anything you want into the body of each letter to create customized versions for each recipient. MailMerge can also merge sections of different documents into one, or create mailing labels and invoices from DataStar files. When a mass mailing involves several steps, you can give MailMerge the instructions in advance, and MailMerge will complete the task while you get on with other business. Data can be inserted from a separate file or from the terminal while you are printing. MailMerge will automatically reformat the inserted item to fit the rest of your document.

MailMerge (requires WordStar) **$250**
WordStar with MailMerge (special combined price) **$645**
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WordStar, SpellStar, StarIndex and MailMerge **$895**

InfoStar

Finally there's a Database Management system that speaks your language. English! And naturally, it's another member of the growing family of integrated MicroPro software programs. What WordStar did for word processing, InfoStar will do for your business information. And it will do it quickly, accurately and easily. (The InfoStar system is a set of fully integrated programs based on the DataStar, ReportStar and SuperSort packages.)

InfoStar allows you to enter any kind of data into electronic files, and then retrieve, change, sort, and manipulate the data in any way you wish before printing out finished reports in a format of your own design. With InfoStar, you don't need to learn a programming language or write actual programs. Onscreen menus give you options in plain English and prompt you for input and the next step to take. Help screens indexed to the User Manual are just a keystroke away.

Even though InfoStar is easy to learn and use, it has the most powerful features available in a database system, including: a screen editor for creating data entry forms, the fastest sort in any microcomputer database system (will sort on 32 fields simultaneously), transactional updating (which revises multiple files automatically), and 200 editing mask combinations for accuracy. InfoStar can also exchange data with the WordStar, CalcStar and PlanStar programs.

InfoStar **$495**

CalcStar

CalcStar is MicroPro's powerful electronic spreadsheet -- a sophisticated yet easy to use calculating and business planning program, designed to work with other members of MicroPro's family of programs. CalcStar turns your screen into a "window" on a giant ledger sheet. It helps you make budget plans and sales forecasts with speed and accuracy that will amaze you.

Of course, CalcStar is easy to learn and use. Condensed Help menus can be displayed onscreen and complete Help menus are just a keystroke away. A handy reference card and a step-by-step User's Manual take you smoothly through the basics and into CalcStar's advanced functions.

You get power and flexibility with CalcStar. Column widths can vary from 3 to 63 characters. The four traditional four math functions are provide, plus advanced capabilities, including logarithms, exponents and linear regression. And edit line can be used for "scratchpad" calculations, which are not entered in the spreadsheet.

The Automatic Form mode moves the cursor from one location to another automatically, requiring the user to input data at each location. This feature can be preformatted, so that your support staff can do routine updates to your spreadsheet without accidentally changing your model.

Naturally, CalcStar is compatible with WordStar, so you can put your spreadsheet into a finished report, complete with boldfacing, underlining, and other special print features.

CalcStar **$195**

PlanStar

MicroPro has taken financial planning one step beyond even the most advanced electronic spreadsheet program. With PlanStar, plain English is all you need from data input and manipulation to production of finished reports.

Consolidation of many spreadsheets takes just a single command. Virtual memory allows over 32,000 cells per spreadsheet and 1,000 sheets per project. Since formulas and data are stored separately, temporary worksheets can be used to ask "what if?" questions over and over again, leaving your original data intact.

PlanStar is sophisticated, yet so easy to use that you can construct models that lead your clerical staff through routine data entry and report generation. PlanStar's editor uses familiar WordStar commands. The PlanStar window lets you view and modify data as you would with CalcStar. Move data directly form an InfoStar, CalcStar, or DataStar file straight into a PlanStar model. Merge PlanStar graphs and reports with WordStar files, to give your final reports a truly professional appearance.

PlanStar's Sensitivity Analysis command can automatically vary any of your input data to see what the net effect is on your bottom line. Goal Seeking lets you specify the desired bottom line and PlanStar works backwards to find starting conditions and assumptions to meet the desired goal. Advanced financial functions include leads and lags, positive and negative values, inflation, discounting, net present value, rate of return, amortization, depreciation, moving average, regression, and more. PlanStar can even be used to produce line plots and bar charts to illustrate important areas of your reports.

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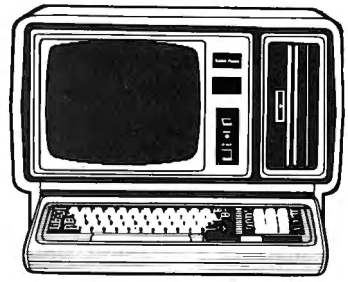

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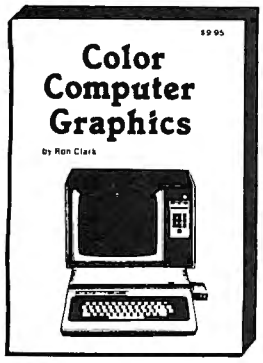

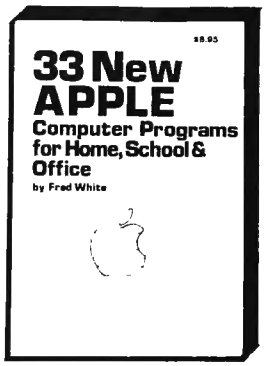

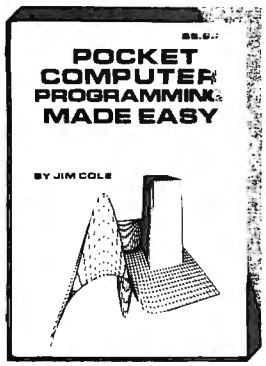

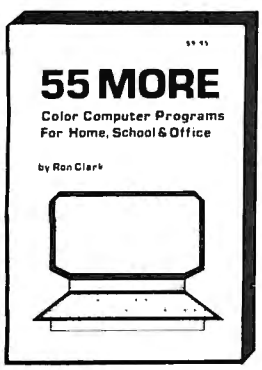

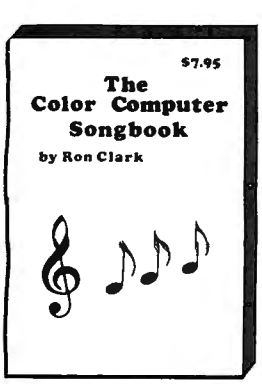

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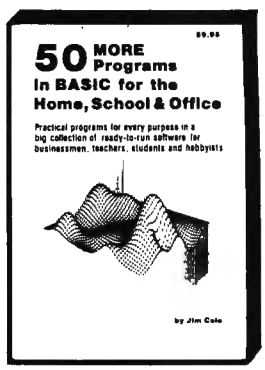

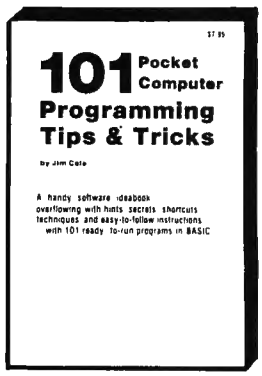

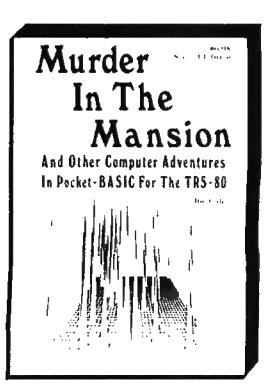

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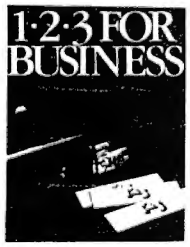

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If you write letters, organize reference materials, produce articles, reports, contracts or any other written materials, a word processor will help you save time and improve accuracy and efficiency. This book explains in plain language what a word processor can do, how to use one, how it improves productivity, and how to buy one wisely. No technical knowledge or previous experience is required.
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The BASIC/S Compiler System consists of two main programs - BASIC/S and BASIC S II/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 BASICS II/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 complete 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.

$49.95 *(Includes BASIC/S and BASIC/S II)*
BASIC/S Compiler System Manual is available for $25.00 of which $10.00 is applicable toward the purchase of the BASIC/S System.

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Form **1040** Department of the Treasury—Internal Revenue Service **U.S. Individual Income Tax Return** **1983** (0) OMB No. 1545-0085

Use IRS label. Otherwise, please print or type.	Your first name and initial (if joint return, also give spouse's name and initial)	Last name	Your social security number
	Present home address (Number and street, including apartment number, or rural route)		Spouse's social security no.
	City, town or post office, State and ZIP code	Your occupation ▶ / Spouse's occupation ▶	

Presidential Election Campaign ▶ Do you want $1 to go to this fund? . . . . . ___ Yes ___ No
If joint return, does your spouse want $1 to go to this fund? . . . ___ Yes ___ No
Note: *Checking "Yes" will not increase your tax or reduce your refund.*

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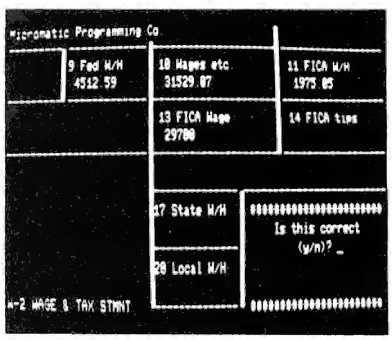

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The manual includes information on special tax areas, lists of possible deductions and a tax glossary.

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TAX/SAVER II™

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- Interest & Dividends - Schedule B
- Tax Calculation - Tables, Rates
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- Business Income - Schedules C & SE
- Capital Gains - Schedule D
- Allows you the privacy of your own home
- Lets you help friends and relatives with their taxes
- Has built-in aids. Answers specific questions like "Is my father my dependent?" and "Are my deductions reasonable?"
- Manual includes 1983 tax forms, information on special tax areas, lists of possible deductions, and glossary of tax terms
- Completes long and short forms including itemized deductions, excess FICA, earned income credit, community property, tax calculation (comparing all possible filing statuses in one run)
- Tax regulations are programmed in by our team of accountants. Just type in your figures & you've done your own tax return
- Helps you find the lowest tax
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System Requirements:
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System Requirements:
A 48K system with at least one disk drive and a standard 80-column printer.

Property Listing System
TRS-80 or APPLE **$325.00**
IBM or CP/M **$425.00**

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These modules form an analysis systems for real estate and can be ordered individually or in any combination on one diskette. They are also available on cassette. A 48K system with cassette or disk drive is required, and all reports can be printed on an 80-column printer.

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An invaluable aid to making knowledgeable decisions when buying, selling or comparing properties.

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This tool for comparing loans will calculate the annual percentage rate of a loan based on the base interest rate of the loan, loan fees, prepaid interest and the term of the loan.

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This module shows the total financial impact of a tax-deferred or partially deferred property exchange, allowing investors to make informed decisions when trading properties.

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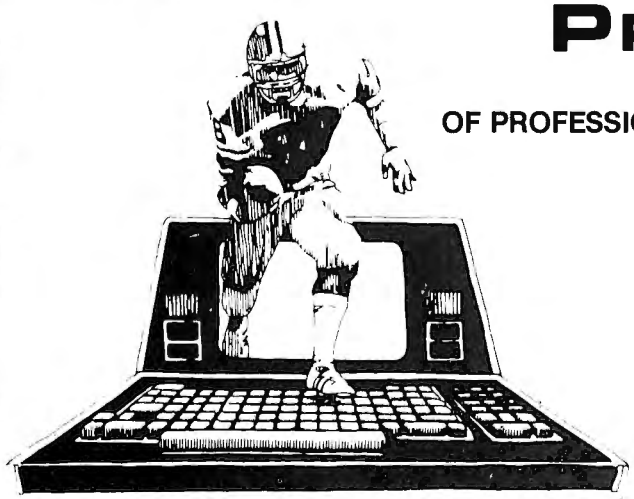

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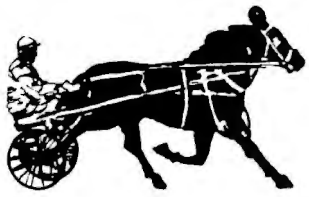
Meet the computer with horse-sense!

Computer Picks Winner 70% Of The Time*

THE TROT COMPUTER



THE THOROUGHBRED COMPUTER

The *Kel-Co Trot Computer* is a scientifically engineered special purpose computer designed to provide an accurate and rapid means for obtaining the Kel-Co ratings for harness race horses. These ratings, together with a few basic rules, provide a statistically proven handicapping method.

The unit has two modes of operation: the "computer mode" and a "calculator mode." The computer mode contains the programmed formulas for the Kel-Co Trot ratings using a special Texas Instrument microprocessor chip (TMS 1100/MP3490N-1). In the calculator mode the unit operates as a standard calculator.

The novice will find his lack of experience no problem. He need only know how to read the track program, and this information is found within each program. The instruction manual is complete, it tells what races to avoid, what horses to eliminate, how to rate the horses, and how to play the various types of wagers.

This computer is an outgrowth of the original Kel-Co Trot Calculator (Slide Rule) first marketed in 1969. Although based on the same general principles, it has undergone extensive refinements in theory. In addition, by its very nature, the electronic computer is much easier to use, more accurate, and much faster than the slide rule calculator.

- **TROT COMPUTER (pictured above) .. $154.95**
- **ADVANCED COMPUTER PROGRAM VERSION (For TRS-80 I/III/4, II/12/16 and APPLE Computers (requires 1 disk drive) $300.00**
- ★ **New TRS-80 Model 100 Version..... $300.00**

You'll Come Out A Winner™

* Cannella Corp. claims that strict adherents to the system will find themselves in the money about 70% of the time. **Money** magazine put it and a competitor through their paces and concluded, "There is no question that either Kel-Co or Racetrack II can help a lout like me (or even an experienced bettor) to invest more scientifically at the expense of poor suckers...."

H & E Computronics offers its full 30-day Money-back Guarantee on the Thoroughbred and Trot Computer

Cannella Corp. provides a full six-month warranty, from date of purchase, and will repair defects in material and workmanship, free of charge.

Now there's a space-age computer that helps you narrow the odds, for it has been specially designed to give you a **class** rating on every thoroughbred race horse on every track in North America. No, this isn't a toy or merely an ordinary calculator. It's a sophisticated state-of-the-art computer that contains a special Texas instruments microprocessor computer chip (TMS 1100/MP3452NL) specifically programmed with our unique handicapping system of **Established Class Ratings.** These ratings, together with an easy-to-follow system for qualifying selections, provide you with the most probable winner. And, there's no prior handicapping experience necessary! They even show you when you should consider combination races — Daily Doubles and Exactas (Perfectas) — and how to play them.

The rating developed by the computer is based on the premise that thoroughbred class is best measured by the size of the purses that the horse has **successfully** completed for in the recent past. This rating is determined mathematically by the computer as a function of the horse's earnings and finish positions from past performance charts. In very basic terms, this would probably mean that a horse with only one win and $5,000 in earnings would be likely to beat a horse with three wins and only $8,000 earned.

The rating also indicates the purse size of the race in which the horse is likely to win if fit and ready. This means that a horse running in a race with a lower purse value than his rating represents a real "drop down" and a potentially strong bet. A horse with a lower rating than the purse value, however, is moving up in class and will seldom be a serious contender.

- **THOROUGHBRED COMPUTER $124.95**
- **ADVANCED COMPUTER PROGRAM VERSION For TRS-80 I/III/4, II/12/16 and APPLE Computers (requires 1 disk drive) $300.00**
- ★ **New TRS-80 Model 100 Version..... $300.00**

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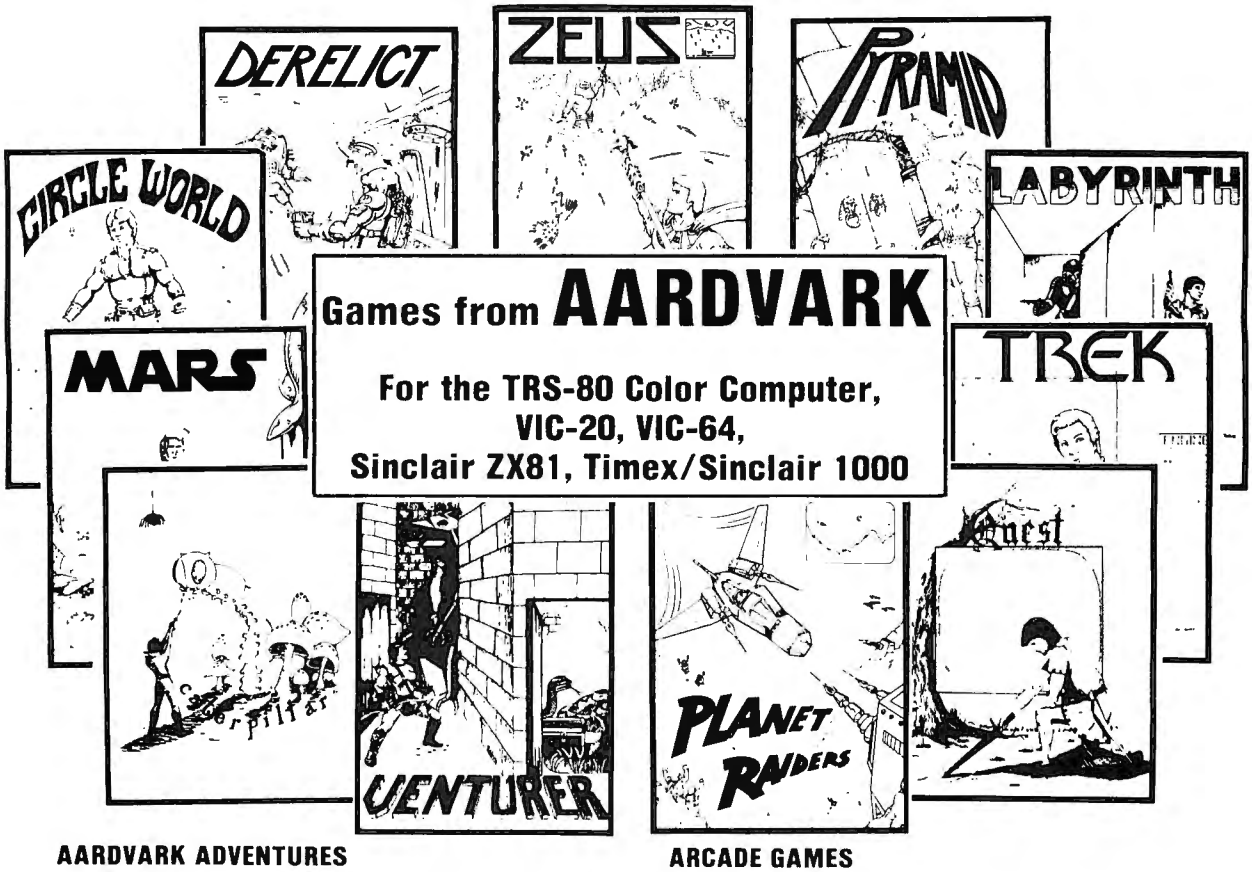

AARDVARK ADVENTURES

All Adventures are written in BASIC and are available for the TRS-80 Color Computer (with 16K), the VIC-20 (with 13K), the VIC-64 and the Timex/Sinclair 1000 or ZX81 (with 16K).

QUEST
This game is different from all other games of adventures--it's played on a computer-generated map of Alesia. You lead a small band of adventurers on a mission to conquer the Citadel of Moorlock. You have to build an army and then arm and feed them by combat, bargaining, exploration of ruins and temples, and outright banditry. The game takes 2 to 5 hours to play and is different each time. (Extended BASIC required on the TRS-80 Color Computer).

PYRAMID
This is one of the toughest adventures. Average time through the Pyramid is 50 to 70 hours. The old boys who built this pyramid did not mean for it to be ransacked by people like you.

ESCAPE FROM MARS
Your ship has crashed on the Red Planet and you have to get home. You will have to explore a Martian City, repair your ship, and deal with possibly hostile aliens to get home again.

CIRCLE WORLD
This alien culture has built a huge artificial world in the shape of a ring circling their sun. They left behind some strange creatures and a lot of advanced technology. Unfortunately, the world is headed for destruction and it is your job to save it before it plunges into the sun. (Extended BASIC required on the TRS-80 Color Computer).

DERELICT
This adventure takes place on an alien ship that has been deserted for a thousand years. You can explore and ransack the ship, but you'll have to learn to speak the alien language and to operate the machinery they left behind. The hardest problem of all is to live through it. (Extended BASIC required on the TRS-80 Color Computer).

TREK
This one takes place aboard a familiar starship and is a must for trekkies. The problem is a familiar one: the ship is in a decaying orbit and the engines are out. Your options are to start the engines, save the ship, get off the ship, or die. Good luck.

ARCADE GAMES

ZEUS
It's fast and furious as you become the WIZARD fighting off the Thunderbolts of an angry ZEUS. Cone of Cold will destroy a thunderbolt and your shield will protect you - for a while. This is a High Speed Action game with difficulty increasing wave after wave, providing hours of challenging fun and a game that you may never completely master. (Available for TRS-80 Color Computer, Commodore 64 and VIC-20).

CATERPILLAR
OK, the Caterpillar does look a lot like a Centipede. The TRS-80 Color version also has spiders, falling fleas, monsters raipsing across the screen, poison mushrooms, and a lot of other familiar stuff. For the TRS-80 Color Computer ONLY, REQUIRES 16K and JOYSTICKS.

VENTURER
A fast action arcade game that feels like an Adventure. Go berserk as you sneak past the dreaded Hall of Monsters to gather treasure in room after room, killing off the nasties as you go. Great color hi-res graphics and sounds. Cassette tape for TRS-80 Color Computer ONLY, REQUIRES 16K and JOYSTICKS.

PLANET RAIDERS
Not just another copy of Defender, this is an original program, good in its own right! You pilot a one-man ship across a planetary surface, dogfighting with invader ships, dodging and blasting ground-based installations and rescuing stranded troopers. Rescue all the troopers and be transported to another more difficult battle. For TRS-80 Color Computer ONLY, 32K disk or 16K cassette.

LABYRINTH
The action takes place in a realistic maze seen from ground level. This is a real time monster hunt as you track down and shoot the mobile monsters. For TRS-80 Color Computer ONLY. Requires Extended BASIC.

Aardvark Adventures	**(tape)**	**$19.95**
	(disk)	**$24.95**
Arcade Games	**(tape)**	**$24.95**
	(disk)	**$29.95**

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• EVERYTHING FOR YOUR TRS-80™ • APPLE™ • ATARI™ • COMMODORE 64™ • TI 99/4A™ •

PDI TURN YOUR COMPUTER INTO A TEACHING MACHINE

A COMPUTER PROGRAMMING COURSE FOR BEGINNERS

STEP BY STEP Ages Junior High to Adult
32 Programs and a 64-page workbook teach programming in BASIC for the beginner. Introduces all important BASIC commands and programming logic, including simple string logic and one-dimensional arrays. Lessons are interactive, presented in a question-and-answer format on the computer screen.

TRS-80 (tape), COMMODORE 64 or PET (tape or disk), $59.95
APPLE (disk), $99.95

STEP BY STEP 2
The second in the PDI series for BASIC programming, Step-by-Step Two introduces more advanced techniques like the use of PEEK and POKE, CHR$ and ASC functions, hexidecimal numbers, control characters, the machine monitor, string logic, string arrays, high resolution graphics, screen memory, and much more. All instruction is in the interactive style that made Step-by-Step number one a bestseller.

APPLE (disk), $99.95

PREPARING FOR THE SAT
Teaches more than subject matter: teaches how to take the SAT and other aptitude tests. The package includes the following PDI Hi-Tester courses: ANALOGIES, VOCABULARY BUILDERS I and 2, NUMBER SERIES, and QUANTITATIVE COMPARISONS. Also includes a unit on time strategy that helps students evaluate how well they allocate their time. The introductory unit evaluates a student's test-taking strategies. The total package consists of 6 cassettes (or 6 disks and 1 cassette), a user's manual, and a copy of the booklet *Making the Grade*, all contained in a convenient storage container.

APPLE or ATARI (disk), $119.95, ATARI (tape), $99.95

EDUCATIONAL GAMES

MEMORY BUILDER: CONCENTRATION Ages 6 Up
A series of educational games to improve memory, attention span and concentration. Letter and 3-letter words are used. Player has three options: play against the computer, play against him or herself, play against another player. Especially good for parent and child to play together.

TRS-80, APPLE, ATARI, C-64, $19.95

STORY BUILDER/WORD MASTER Ages 9 Up
Series of partially completed verses that the child completes. Teaches grammar skills in an enjoyable way. Word Master is a logic game where the child tries to guess a 3-letter word generated by the computer. Teaches reasoning and vocabulary.

TRS-80, APPLE, ATARI, C—64, TI 99/4A, $19.95

GRAPH BUILDER Ages 10 Up
11 teaching programs and games teach students to read graphs. Covers x and y coordinates, and representation of numerical data on graphs. Starts with simplest concepts and works up to complicated grid game.

TRS-80, $19.95

CODE BREAKER Ages 10 to adult
3 scrambled message games of increasing difficulty that build basic word handling skills needed for good writing. First game scrambles letters within the words in the message: next 2 games scramble letters and also word order. The last game gives the hardest messages. Messages are made up by the computer from an extensive word list.

APPLE, ATARI, C-64, TI 99/4A, $19.95

MINICROSSWORD All Ages
4 programs that consist of 2 minicrosswords and 2 codeword games. Crossword programs invent their own crossword puzzles - hundreds of completely different puzzles are possible - and score how well you do each puzzle. When used in conjunction with the codeword programs, which are word-guessing games, the course provides a vocabulary and spelling development system.

TRS-80, APPLE, ATARI, $19.95

ASTRO WORD SEARCH: FRENCH High School to Adult
Like Astro Search: Spanish, except this time, it's French vocabulary words.

TRS-80, $19.95

ASTRO QUOTES: High School to Adult
Fascinating game in which you guess vocabulary words from clues and the computer takes each letter from the words and puts it where it belongs in a famous quotation. As soon as you can, you guess the quotation. If it takes you too many tries to guess the quote, you lose the game. 3 versions: easy, medium hard.

APPLE, ATARI, TRS-80, $19.95

STUDY SKILLS

IQ BUILDER Junior High Up
A group of 4 courses that prepare a high school student for the College Boards or adult for aptitude tests.

VOCABULARY BUILDER 1: BEGINNING 11 programs include a set of graded vocabulary questions on synonyms and antonyms (the most common type of vocabulary question on an IQ test). The last lesson is a test on vocabulary. Total of 400 questions, 2000 words in course.

APPLE, ATARI, C-64, $19.95

VOCABULARY BUILDER 2: ADVANCED 11 programs like those in Vocabulary 1, but using a more advanced word list.

APPLE, ATARI, C-64, $19.95

NUMBER SERIES Contains 8 programs that provide practice in a common math problem type. The first lesson teaches how to approach number series and how to analyze their patterns. Later lessons provide practice with increasingly difficult problems, giving clues if you have difficulty with the problem. Final lesson is a test of abilities.

APPLE, ATARI, C-64, (disk only) $19.95

ANALOGIES Contains 6 programs that teach what an analogy is and what the common types are, provide a method for analyzing analogies and provide practice in handling all types of analogies. Final lesson is an analogies test.

APPLE, ATARI, TI 99/4A, C-64, $19.95

LANGUAGE ARTS

READING COMPREHENSION: WHAT'S DIFFERENT? Ages 8 Up
5 reading comprehension programs which present logical problems where the student picks the one word in four which doesn't belong with the rest. Builds analytical skills essential for understanding what you read.

APPLE, ATARI, C-64, $19.95

PRESCHOOL IQ BUILDER Ages 3-6
Teaches vital cognitive skills that children must learn in order to do well in school. In Part 1, Same and Different, the child discriminates between two forms. In Part 2, Letter Builder, the child matches a letter on the TV monitor to one on the keyboard. Accompanying Parent's Guide gives instruction.

TRS-80, APPLE, ATARI, C-64, TI 99/4A, $19.95

SPELLING BUILDER Junior High Up
8 programs plus an audio cassette teach important spelling rules and skills. Helps students and adults overcome spelling difficulties. Not just spelling drill, this course teaches a method for approaching difficult words. Ideal for the student or adult who has mastered basic spelling but has trouble deciding if it's "supersede" or "supercede", "combustable" or "combustible". Final test of 25, ten-word lists.

APPLE, ATARI, $20.95

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- All programs for TRS-80 are ONLY available on tape.
- ATARI and COMMODORE 64 programs are available on tape or disk (add $5 for disk version)
- All APPLE programs are ONLY available on disk (add $5)

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- Input/Output time GREATLY reduced -- all disk accesses are FAST!
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For The TRS-80™ Model II

Now Model II owners can get the power of DOSPLUS. DOSPLUS II replaces TRSDOS with an ultra-sophisticated operating system that is 5 or more times faster, more reliable, and is totally compatible with all standard business-oriented software for the Model II

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DOSPLUS IV is the first operating system to take full advantage of your Model 4's capabilities. You've never seen a DOS as user-friendly as DOSPLUS IV

It features completely *MENU-DRIVEN DOS utilities* that make tasks like device rerouting and installation of the system incredibly easy!

DOSPLUS IV is the only operating system good enough for your Mod 4, and it's available for the same low price as DOSPLUS 3.5!

- Double Density disk drives supported on the Model I
- Single Density supported on the Model III/4
- Drives with 18-80 tracks supported, mix and match any 5¼" or 8" drives
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- Dynamically merge in BASIC
- Selective variable clearing
- Auto-repeating keys without keybounce
- Routing for device handling
- Disassembler output to disk
- Chaining enhancements
- SUPERZAP
- Fast machine language sort routine for BASIC programs
- Merging of non-ASCII BASIC programs
- BASIC single stepping
- Enhanced RENUMBER allows moving of routines from one location to another
- Variable-length files with records up to 4095 bytes long

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- AUTOMATIC density recognition and support -- 35 to 80 track drives
- Hard Drive support -- can be handled as a SINGLE DRIVE or up to SIX
- Intermix 5¼", 8" and Hard drives freely, to a total of 8 drives
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- CONVert utility moves files from Model III TRSDOS
- CMDFILE for movement of disk and/or tape system (CMD) files
- Full LINKing, ROUTEing, FILTERing, and SETting are supported
- RS-232 driver for serial communications
- Wildcard characters and partial filespecs supported
- Built-in printer SPOOLER and formatter
- Joblog to record all system operations with "time stamps"
- Assign strings to keys with Key Stroke Multiply (KSM)
- SUPER FAST operation with the SYSRES feature

LDOS $129.00

EDAS Editor/Assembler (requires LDOS) ***$99.00***

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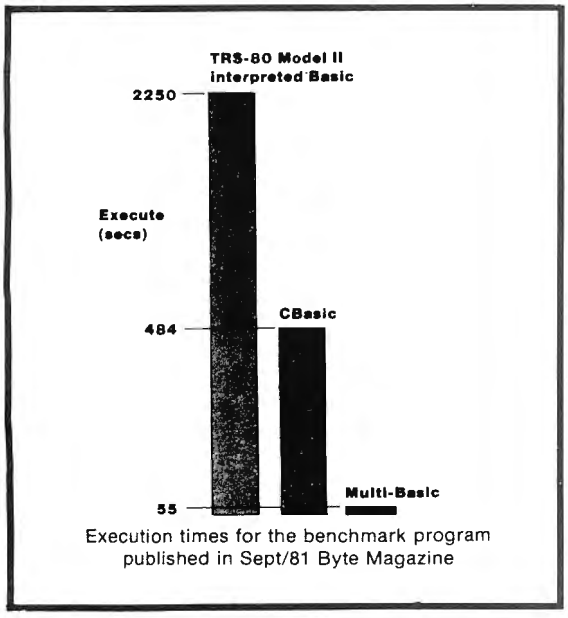
Alcor Multi-Basic is the first Basic language system that provides the advantages of both interpreted and commercial Basic. The Multi-Basic compiler is a compatible superset of the Basic which comes with your microcomputer. Slight variations of the interpreted Basics used on these computers are common to a wide range of other computers. In addition, the Multi-Basic compiler is compatible with the commercial Basic compilers, CBasic and CB-80.

IDEAL FOR THE BEGINNER

The interactive environment of interpreted BASIC makes learning to program easier. With Multi-Basic, you can obtain the speed and power of a compiled language without giving up the advantages of interactive debugging.

- Multi-Basic can compile the programs written for interpreted Basic with few or no changes. Existing Basic programs run 10 to 50 times faster after being compiled by Multi-Basic.
- You may continue to use interpreted Basic to debug programs and then use Multi-Basic to obtain a big improvement in performance.
- Multi-Basic adds advanced features to the Basic language. Once you have learned the fundamentals of programming, you can go on to the more powerful features that Multi-Basic provides.



Execution times for the benchmark program published in Sept/81 Byte Magazine

- When you move up to a new computer, your programs will move with you. The availability of Multi-Basic on a wide range of computers means that you won't be spending valuable time rewriting programs.

EXTENDED BASIC FEATURES

Multi-Basic provides the extra features which transform Basic into a professional development language.

- Multi-line functions
- Local variables (variable names used within a function do not conflict with names used elsewhere in the program)
- Structured statements
- Statement labels (descriptive labels may be used in place of line numbers)
- Long variable names (up to 255 characters)
- Dynamically dimensioned arrays
- Nested functions
- Recursion (a function can call itself)
- Complete function library

EXTENSIVE DOCUMENTATION

Beginners Guide
Introduces you to the Multi-Basic program system.

System Implementation Manual
Explains the processor and operating system dependent features of the system.

Editor Manual
A detailed description of the full screen text editor.

Multi-Basic Tutorial
An introduction to programming with the Multi-Basic language.

Multi-Basic Reference Manual
A detailed description of the Alcor Multi-Basic language.

Cross Reference Index
A master index to the complete documentation set.

Available for TRS-80 I, II, III, 4, 12 and 16, plus most CP/M and Z-80 based computers, including Apple II and Osborne-1.

ALCOR MULTI-BASIC $250.00

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3. ***H & E* Computronics, Inc., will not accept any package at H & E Computronics, Inc., that does not bear a return address.**
4. A copy of your original invoice must be included within the package. **WE WILL RETURN ANY PACKAGE THAT DOES NOT CONTAIN THE ORIGINAL INVOICE (OR MACHINE COPY) WITHIN THE PACKAGE.**
5. Please include brief instructions so that we know what to do with your returned package. For example, do you want credit towards another program? PLEASE do not send a lengthly description. PLEASE do be short and to the point. We wish to process your return as soon as possible...please do **NOT** complicate the process by referring to previous phone calls or letters.
6. Merchandise must be returned in NEW condition. Although we do expect that sealed packages will undergo some damage, please keep it to a minimum. In any case, we reserve the right to refuse any package we feel has been overly abused.

POSTAGE RATES:

1. Add $3.00 for postage and handling for any order shipped within the United States by U.P.S.
2. Add $4.00 for orders shipped C.O.D. or by U.S. Mail within the U.S.
3. Add $5.00 for postage and handling for any order shipped to Canada and Mexico.
4. Add exact postage outside of U.S., Canada and Mexico.
5. Overnight delivery is available through **EMERY AIR FREIGHT** and other air services. If you require overnight delivery, the appropriate charges will be added to your order.

METHOD OF PAYMENT:

1. We accept **VISA, MASTERCARD** or **AMERICAN EXPRESS.**
2. Your **PERSONAL CHECK** is welcomed. All checks must be payable in U.S. Funds.
3. **C.O.D.** on request, (C.O.D. orders in excess of $100 require cash or certified check).
4. **N.Y. STATE RESIDENTS MUST ADD LOCAL SALES TAX.**

DEALER INQUIRES WELCOME

ORDER FORM

PLEASE SEND ME:

_____	$ _____
_____	$ _____
_____	$ _____
_____	$ _____
_____	$ _____
_____	$ _____
N.Y. RESIDENTS ADD TAX	$ _____
POSTAGE	$ _____
TOTAL	$ _____

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H & E COMPUTRONICS INC.

SUPERCHARGE YOUR TRS-80*

WITH ADVANCED UTILITY PROGRAMS

FROM RACET COMPUTES LTD.

TRS-80™ is a trademark of Tandy Corp.

Facts About RACET COMPUTES Utility Programs:

- ***ALL PROGRAMS ARE WRITTEN IN MACHINE LANGUAGE
- ***ABSOLUTELY NO KNOWLEDGE OF MACHINE LANGUAGE IS NECESSARY TO USE ANY OF THE UTILITY PROGRAMS
- ***EACH UTILITY PROGRAM IS CALLED UP FROM **BASIC** USING THE SIMPLE BASIC COMMANDS PROVIDED
- ***EACH UTILITY PROGRAM COMES WITH A **RACET COMPUTES** INSTRUCTION MANUAL
- ***EACH INSTRUCTION MANUAL INCLUDES SEVERAL EXAMPLES OF UTILITY USAGE
- ***EACH UTILITY ALLOWS THE USER TO PERFORM CERTAIN BASIC OPERATIONS TEN, TWENTY OR MORE TIMES FASTER THAN THE EQUIVALENT BASIC ROUTINE (FOR EXAMPLE, **GSF** CAN SORT AN ARRAY OF 1000 RANDOM NAMES INTO ALPHABETICAL ORDER IN UNDER 9 SECONDS!!)

30 DAY MONEY-BACK GUARANTEE FROM H & E COMPUTRONICS, INC.

GSF (GENERALIZED SUBROUTINE FACILITY

- SORTS 1000-ELEMENT ARRAYS IN 9 SECONDS
- SORTS UP TO 15 ARRAYS SIMULTANEOUSLY (MIXED STRING, FLOATING POINT AND INTEGER)
- SORTS SINGLE OR MULTIPLE SUBSTRINGS AS ASCENDING OR DESCENDING SORT KEYS
- READ AND WRITE ARRAYS TO CASSETTE
- COMPRESS AND UNCOMPRESS DATA IN MEMORY
- MOVE ARRAYS IN MEMORY
- DUPLICATE MEMORY
- FAST HORIZONTAL AND VERTICAL LINES
- SCREEN CONTROLS FOR SCROLLING THE SCREEN UP, DOWN LEFT RIGHT AND FOR GENERATING INVERSE GRAPHIC DISPLAYS
- ADDS PEEKS AND POKES (MOD-II VERSION ONLY)

MODEL-I VERSION $25.00
MODEL-II/12/16 VERSION $50.00
MODEL-III/4 VERSION $30.00

DSM (DISK SORT MERGE)

- SORT AN 85K DISKETTE IN LESS THAN THREE MINUTES!
- SORTS LARGE MULTIPLE DISKETTE FILES ON A MINIMUM ONE DRIVE SYSTEM
- ALL RECORDS ARE PHYSICALLY REARRANGED-NO KEY FILES ARE REQUIRED
- SORTS RANDOM FILES CREATED BY **BASIC**, INCLUDING FILES CONTAINING SUB-RECORDS SPANNING SECTORS
- SORTS ON ONE OR MORE FIELDS IN ASCENDING OR DESCENDING ORDER
- FIELDS MAY BE STRINGS, INTEGER, BINARY INTEGER OR FLOATING POINT
- THE SORTED OUTPUT FILE MAY OPTIONALLY HAVE FIELDS DELETED, RE-ARRANGED OR PADDED
- SORT COMMANDS CAN BE SAVED FOR REUSE
- SINGLE SORT, MERGE, OR MIXED SORT/MERGE OPERATIONS MAY BE PERFORMED
- SORTED OUTPUT MAY BE WRITTEN TO A NEW FILE, OR REPLACE THE ORIGINAL INPUT FILE

MODEL-I VERSION $75.00
MODEL-II/12/16 VERSION $150.00
MODEL-III/4 VERSION $90.00

KFS-80 (KEYED FILE SYSTEM)

- CREATE ISAM FILES (INDEX SEQUENTIAL METHOD)
- ALLOWS INSTANT ACCESS TO ANY RECORD ON YOUR DISKETTE
- INSTANTLY RETRIEVE RECORDS FROM MAILING LISTS, INVENTORY, ACCOUNTS RECEIVABLE OR VIRTUALLY ANY APPLICATION WHERE RAPID ACCESS IS REQUIRED TO NAMED RECORDS
- PROVIDES THE BASIC PROGRAMMERS THE ABILITY TO RAPIDLY INSERT OR ACCESS KEYED RECORDS IN ONE OR MORE DATA FILES
- RECORDS ARE MAINTAINED IN SORTED ORDER BY A SPECIFIED KEY
- RECORDS MAY BE INSERTED OR RETRIEVED BY SUPPLYING THE KEY
- RECORDS MAY BE RETRIEVED SEQUENTIALLY IN SORTED ORDER
- RAPID ACCESS TO ANY FILE REGARDLESS OF THE NUMBER OF RECORDS
- MULTIPLE INDEX FILES CAN BE EASILY CREATED WHICH ALLOWS ACCESS OF A SINGLE DATABASE BY MULTIPLE KEYS (FOR EXAMPLE, BY BOTH NAME AND ZIP CODE)

MODEL-I VERSION $100.00
MODEL-II/12/16 VERSION $175.00
MODEL-III/4 VERSION $100.00

INFINITE BASIC

- ADDS OVER 80 COMMANDS TO BASIC
- SORTING...STRING CENTERING/ROTATION/TRUNCATION...JUSTIFICATION, DATA COMPRESSION...STRING TRANSLATION/COPYING ,SCREEN DISPLAY ... SCROLLING ..MATRIX OPERATIONS, SIMULTANEOUS EQUATIONS (THROUGH MATRIX INVERSION)...DYNAMIC ARRAY RESHAPING

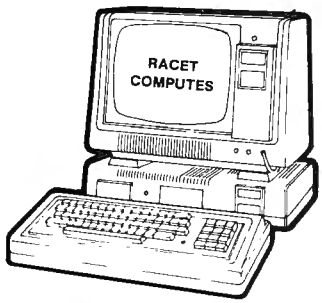
MODEL-I VERSION $50.00
MODEL-III/4 VERSION $60.00
NOT AVAILABLE ON MODEL-II

INFINITE BUSINESS

- ADD ON PACKAGE TO **INFINITE BASIC** (REQUIRES INFINITE BASIC)
- ADDS PACKED DECIMAL ARITHMETIC WITH 127 DIGIT ACCURACY (+,0,*,/)
- COMPLETE PRINTER PAGINATION CONTROLS
- BINARY SEARCH OF SORTED AND UNSORTED ARRAYS
- HASH CODES

MODEL-I VERSION $30.00
MODEL-III/4 VERSION $30.00
NOT AVAILABLE ON MODEL-II

UNLEASH THE HIDDEN POWERS OF YOUR TRS-80*. SUPER FAST, HIGH POWERED AND ULTRA-SOPHISTICATED UTILITY SOFTWARE CREATED BY RACET COMPUTES



NOW AVAILABLE!

SUPERZAP FOR HARD DISK

NEW

SUPERZAP GIVES YOU THE ABILITY TO EXAMINE AND ALTER EVERY BYTE STORED ON YOUR ENTIRE HARD DISK. AN INDISPENSABLE TOOL FOR REPARING DAMAGED FILES.

MODEL-II TRSDOS 4.1 or 4.2 ..... $100
MODEL-II CP/M VERSION $100

MODEL II FASTBACK—FULL DISK BACKUP IN 55 SECONDS

IN BUSINESS TIME IS MONEY, & ONE BACKUP IS WORTH A THOUSAND TEARS.

- WORKS ON SYSTEMS WITH 2 OR MORE DRIVES
- CAN REPLACE YOUR EXISTING TRSDOS 1.2 or 2.0 BACKUP UTILITY

MODEL-II ONLY $75.00

COMPROC (COMMAND PROCESSOR)

- AUTO YOUR DISK TO PERFORM ANY SEQUENCE OF INSTRUCTIONS THAT YOU NORMALLY GIVE FROM THE KEYBOARD (FOR EXAMPLE, INSERT THE DISKETTE, PRESS THE RESET BUTTON. YOUR COMMAND FILE COULD AUTOMATICALLY SHOW YOU THE DIRECTORY, SHOW THE FREE SPACE ON THE DISKETTE, LOAD A MACHINE LANGUAGE SUBROUTINE, LOAD BASIC, LOAD AND RUN A BASIC PROGRAM, AND SELECT A GIVEN ITEM ON YOUR MENU...ALL WITHOUT TOUCHING THE KEYBOARD!)

MODEL-I VERSION $20.00
MODEL-III/4 VERSION $30.00
NOT AVAILABLE FOR MODEL-II

DISCAT (DISKETTE CATALOG SYSTEM)

- THIS COMPREHENSIVE DISKETTE CATALOGUING/INDEXING UTILITY ALLOWS THE USER TO KEEP TRACK OF THOUSANDS OF PROGRAMS IN A CATEGORIZED LIBRARY...FILE INCLUDES PROGRAM NAMES AND EXTENSIONS PROGRAM LENGTH, DISKETTE NUMBERS AND FREE SPACE ON EACH DISKETTE...KEEP A COMPLETE CATALOG OF THE DIRECTORIES ON ALL YOUR DISKETTES IN ALPHABETICAL ORDER (SORTED ON EACH DISKETTE...OR COMPLETE ALPHABETICAL LIST OF PROGRAMS ON ALL YOUR DISKETTES)

MODEL-I VERSION $50.00
MODEL-III/4 VERSION $50.00
MODEL-II/12/16 (SEE MODEL II UTILITY PACKAGE)

BLINK (BASIC LINK FACILITY)

- LINK FROM **BASIC** PROGRAM TO ANOTHER SAVING ALL VARIABLES
- THE CHAINED PROGRAM MAY EITHER REPLACE THE ORIGINAL PROGRAM OR CAN BE MERGED BY STATEMENT NUMBER

MODEL-I VERSION $25.00
MODEL-III/4 VERSION $30.00
MODEL-II/12/16 VERSION $40.00

REMODEL-PROLOAD

- THE ULTIMATE RENUMBERING PROGRAM...RENUMBERS ALL OR PART OF A PROGRAM (ALLOWS PARTIAL RENUMBERING IN MIDDLE OF PROGRAMS)
- PARTIAL OR COMPLETE MERGE OF TWO CASSETTE PROGRAMS

MODEL-I VERSION $35.00
MODEL-III/4 VERSION $35.00
NOT AVAILABLE ON MODEL-II

COPSYS

- COPY AND VERIFY ALL MACHINE LANGUAGE (SYSTEM) TAPES WRITTEN IN STANDARD FORMAT...IF YOU BUY A MACHINE LANGUAGE PROGRAM, **COPSYS** ALLOWS YOU TO EASILY COPY THE PROGRAM ONTO ANOTHER CASSETTE AS A BACKUP

MODEL-I VERSION $15.00
MODEL-III/4 VERSION $20.00
NOT AVAILABLE ON MODEL-II

ENHANCED BASIC FOR MODEL II/12/16

THE MOST POWERFUL BASIC YOU'VE EVER SEEN .....
ENHANCED BASIC features:

NEW

- LABELLED LINE REFERENCES
- LOAD/RUN PROGRAMS WITHOUT CLOSING FILES OR LOSING VARIABLES
- IMPROVED RENUMBERING — YOU CAN EVEN MOVE PROGRAM LINES TO A DIFFERENT POINT IN THE PROGRAM
- EDIT PROGRAM LINES WITHOUT CLEARING VARIABLES
- SCREEN SCROLL PROTECT, REVERSE SCROLL, AND MUCH MORE!

MODEL II/12/16 ONLY $99.95

HSDS HARD DISK DRIVE SOFTWARE

- MAKES TRSDOS COMPATIBLE WITH MOST HARD DISK DRIVES
- ADDS MANY EXTRA FEATURES TO TRSDOS

STANDARD VERSION $400
VERSION FOR RADIO SHACK HARD DISK $500

MODEL II SPEEDUP—FAST DISK I/O

THIS IS AN ENHANCEMENT FOR TRSDOS 2.0 THAT WILL RADICALLY DECREASE DISK ACCESS TIME.

- DISKS BOOT FASTER TO DOS
- IMPROVE DISK I/O UNDER BASIC

MODEL-II/12/16 ONLY $99.95

MODEL-II UTILITY PACKAGE

- ESSENTIAL FOR EVERY MOD-II OWNER
- RECOVER AND REPAIR FILES AND DIRECTIONS (BY JUST ENTERING A SINGLE COMMAND)
- XCOPY...SIMILAR TO COPY BUT CAN COPY ANY NUMBER OF FILES AT ONE TIME FASTER AND MORE ACCURATE THAN COPY SINCE RECORDS ARE COPIED IN GROUPS RATHER THAN ONE RECORDS AT A TIME...USING XCOPY YOU CAN COPY FILES THAT CAN NOT BE COPIED USING THE COPY COMMAND
- SZAP ..PROVIDES THE CAPABILITY TO READ AND MODIFY ANY SECTOR ON A DISKETTE
- XHIT...CAN BE USED TO REPAIR A DISKETTE DIRECTORY
- DCS...DIRECTOR CATALOG SYSTEM IS A UTILTIY FOR THE MANAGEMENT OF USER DISKETTES...SETS OF A MULTIPLE DISKETTE DIRECTORY FILE (WITH UP to 1200 INDIVIDUAL FILE NAMES)...ALLOWS SELECTIVELY LISTED OR PRINTED LISTS OF DIRECTORY FILES IN COMBINED SORTED ORDER (FOR EXAMPLE, LISTED ALPHABETICALLY BY DISKETTE...OR A COMPOSITE ALPHABETICAL LIST OF ALL YOUR DISKETTES!)
- DEBUG II...ADDS SEVERAL FEATURES TO THE PRESENT TRSDOS DEBUG UTILITY INCLUDING SINGLE INSTRUCTION CYCLE, AUTO (LOOP) BREAKPOINTS, SUBROUTINE CALLING, BREAK-KEY DETECTION AND MANY OTHERS

MODEL-II/12/16 ONLY $150.00

MODEL-II DEVELOPMENT SYSTEM

- THIS PACKAGE IS A MUST FOR ASSEMBLY LANGUAGE PROGRAMMERS
- A COMPLETE DISASSEMBLER
- SUPERZAP FOR READING AND MODIFYING ANY SECTOR ON A DISKETTE

MODEL-II/12/16 ONLY $125.00

MOD-II BASIC CROSS REFERENCE UTILITY

- LIST OR PRINT A SORTED CROSS REFERENCE TO ALL NUMBERS OR VARIABLES WITHIN A PROGRAM
- LIST OF PRINT ALL LINE NUMBERS CONTAINING A SPECIFIED STRING OF CHARACTERS

MODEL-II/12/16 ONLY $50.00

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HOWE SOFTWARE PRODUCT GUIDE

TYPITALL

The SCRIPSIT™ Compatible Word Processor

TYPITALL is a word processing program which is upward compatible with SCRIPSIT™ for the Model 1, 3, and 4 TRS-80™ computers. If you already know how to use SCRIPSIT, you will be able to start using TYPITALL immediately. Even if you don't know SCRIPSIT™, you can start using TYPITALL immediately by using the HELP commands to learn it as you go.

Following is a partial list of the features available in TYPITALL. Compare these features to those of your current word processor, and see why users have called it the *best* word processor program for the TRS-80™:

- Assign any sequence of keystrokes to a single control key.
- Print the formatted text on the screen, either as graphic blocks or as plain text, before going to the line printer.
- Send the formatted text to a disk file for later printing.
- Merge data from a disk file during printing. Names, addresses, and other text can be inserted into the text being printed.
- Stop printing and enter data from the keyboard.
- Send **any** control or graphic character to the printer.
- Call up HELP screens at any time.
- Flexible cursor motion keys: move cursor by character, word, line, section or page.
- Make your own special version of TYPITALL with the supplied customization program.
- Get audible feedback from the keyboard through the cassette recorder.
- Use the same version on the Models 1, 3, or 4.
- Reenter the program with all text intact if you accidentally exit without saving the text.
- Enter hard spaces to make a sequence of words indivisible.
- Use copy markers to print selected portions of text.
- Change words from upper to lower case, or vice versa, without retyping.
- Change key repeat speed.
- Display cursor position, line length, document length, and free space constantly on bottom line of screen.
- Optionally ignore case of letters in string search.
- Use TYPITALL for editing BASIC programs.

Disk version only — specify Model 1, 3, or 4.

TYPITALL (on diskette) $129.95

SMART TERMINAL

The *intelligent* communications program. Allows you to use your computer as a terminal to information systems, time-sharing computers, or for data transmission and reception.

- Memory buffer holds data to be transmitted or received
- Automatic transmission of data from buffer
- Automatic storage of incoming data in buffer
- Character translations
- Data files compatible with Electric Pencil™ and SCRIPSIT™
- True BREAK key
- Create "personalized" back-up copies
- Same program supports both cassette and disk systems

Model 1, 3 or 4 version $74.95
Model 2/12/16 (CP/M) version $79.95

SMALL BUSINESS MANAGEMENT SYSTEM

An integrated package allowing you to use your computer to manage a small business.

- **Order Entry:** enter orders, print invoices, and recall and change invoices from past orders. Use preprinted forms or plain paper.
- **Bookkeeping:** complete general ledger by user-defined categories.
- **Accounts Receivable:** interacts with order entry by invoice number.
- **Inventory:** complete summary of products sold by part number and price invoiced.
- **Installation:** Complete customization package tailors the programs to your business.

Requires 2 floppy disk drives or hard disk, 80-column printer. Available for: TRS-80™ Models 1/3/4, 2/12/16, IBM/PC or Model 2000, Kaypro II, and many other CP/M computers.

All versions $250.00

HOME BUDGET & CHECKBOOK ANALYST

This program maintains your checkbook while it analyzes your income and expenses. On data entry, constantly displays running checkbook balance. Check numbers automatically updated, but non-checkbook expenses can also be handled. Multiple-item expenses allowed. Complete budget categories and amounts can be maintained, and your present expenses compared with the budgeted amounts. The program maintains a heirarchical category list, with 12 general budget categories, each of which can be divided into up to 12 subcategories. Monthly and year-to-date summaries and projections can be computed from the data.

The cassette program is a reduced version of the disk program, which maintains the broad outlines of the program but handles much less data, in order to accommodate 16K users. Separate cassettes necessary for each month, and for year-to-date totals.

Model 1/3/4 disk version $59.95
Model 1/3/4 cassette version $29.95
Model 2/12/16, IBM/PC or CPM version $69.95

MAILING LIST

Maintains mailing lists of up to 1328 names per disk file. Add, change, delete, or find names. Sorting, which is done by machine language in the TRS-80™ Model 1/3/4 version, can be done according to the data in **any** field. Labels printed in 1, 2, 3, or 4 columns, with tabs adjustable to fit any size labels. (Disk versions only.)

TRS-80™ Model 1/3/4 version $69.95
Model 2/12/16, IBM/PC or CPM version $79.95

H&E COMPUTRONICS INC.

HOWE SOFTWARE PRODUCT GUIDE

MACHINE LANGUAGE MONITOR PROGRAMS

Monitor Programs #3, #4 and #5 are powerful utility programs enabling you to interact directly with the TRS-80 in machine language. They are useful both for beginners and for advanced programmers.

- **Beginners** can learn to use machine language.
- **Complete** instruction manual.
- **Simple** commands, easy to use.

Monitor #3, Monitor #4 & Monitor #5 have the following features:

- **Display** memory in ASCII and hexadecimal form.
- **Disassemble** memory to see machine language commands.
- **Move** and **compare** blocks.
- **Search** through memory to find specific values.
- **Modify** memory in different ways.
- **Relocate** object programs.
- **Read and write** object tapes in SYSTEM format.
- **Unload** programs in low RAM on disk.
- **Create symbolic cassettes** of disassembled output for use as input to EDTASM program (Monitor #3 only).
- **Print** output optionally on video display or line printer.

Monitors #4 and #5 add the following features:

- **Save and load** disk files.
- **Input and output** disk sectors, bypassing disk operating system.
- **RS-232-C commands** for terminal mode, send and receive data.

Monitor #5 adds the following:

- **Complete debugging package** including setting and displaying registers, single stepping, setting breakpoints, and executing machine instructions.

Available for the TRS-80™ Model 1, 3, and 4 Level II computers only (16K, 32K, or 48K). Specify Model number when ordering.

Monitor #3 (cassette) $19.95
Monitor #4 (disk) $24.95
Monitor #5 (disk) $29.95

SMALL BUSINESS ACCOUNTING

Based on Dome Bookkeeping Record #612, this program keeps track of income, expenses, and payroll for a small business. Income and expenses can be entered on a daily, weekly, or monthly basis. The program computes monthly, through last month, and year to date summaries. Year-to-date profit and loss statement also included.

The payroll section (not included in cassette version) keeps records of individual employees and their paychecks with up to six payroll deductions. Employee payroll records and year-to-date payroll summaries can be computed.

The program comes with a complete installation package that customizes it to your business.

The cassette version keeps track of the income and expense data, and requires seperate cassettes for each month.

Model 1/3/4 disk version $59.95
Modei 1/3/4 cassette version $29.95
Model 2/12/16, IBM/PC or CPM version $69.95

SYSTEM DIAGNOSTIC

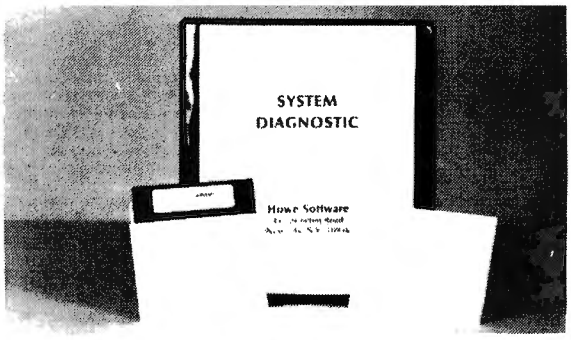
Is your computer working correctly? *Are you sure?* Find out for certain with System Diagnostic, which has complete diagnostic tests for every component of your TRS-80™ Model 1, 3 or 4. Separate tests for:

- ROM: checksum tests
- RAM: three separate tests including every location and data value.
- Video Display: character generator, video RAM, and video signal.
- Keyboard: every key contact tested.
- Line Printer: repeating or diagonal character tests, adjustable platen length.
- Cassette Recorder: read, write, verify data.
- Disk Drives:, disk controller, drive select, track seek, read sectors, formatting, read/write/verify data with or without erasing, disk drive timer, disk head cleaner. Single or double density, 1-99 tracks.
- RS-232-C Interface: connector fault, data transmission, framing, data loop, baud rate generator.

Individual tests or continuous testing mode, reports optionally written to line printer.

TRS-80™ Models 1, 3, 4 only — Specify Model

System Diagnostic $99.95



IN-MEMORY DATABASE MANAGEMENT

Define files of various descriptions and maintain data on disk (or cassette with the TRS-80™ Model 1/3/4 version). Program is an "in RAM" system allowing files to contain up to 50 fields, with the number of records available determined by your free RAM space. Commands allow you to add, change, or delete records; find a specific item (search any field); sort according to the data in any field; total items in a single field, with or without comparison to another field; print file on video display or line printer; and save file on cassette or disk. Reports generated can be formatted in extensive ways.

TRS-80™ Model 1/3/4 version $29.95
Model 2/12/16, IBM/PC or CPM version $39.95

TRS-80 and SCRIPSIT are trademarks of Tandy Corp

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SMALL BUSINESS SYSTEMS GROUP

RELIABILITY!

SBSG HAS INSTALLED MORE THAN 20,000 SYSTEMS

SMALL BUSINESS SYSTEMS GROUP

THE FINEST ACCOUNTING SYSTEM AVAILABLE

The S.B.S.G. System allows you the maximum efficient use of available disk space. Each module will run on a standard 1 disk drive system (except for Model I systems, which require 2 drives). As you add more disk drives to your system, the amount of on-line data storage increases. Now here's an important fact...the S.B.S.G. General Accounting System "spans" your disk drives - that means that you can instantly access your data on any of **up to 8 disk drives** at any time! Since your S.B.S.G. Accounting System is user-configurable, it will work with 1, 2, 3, 4 or more disk drive systems—and it is full compatible with most hard disk drive systems (at additional cost).

GENERAL LEDGER

The General Ledger module consolidates all financial data from other accounting sources within your organization. Within minutes you can get a complete overview of your business operation and performance. The most significant feature of SBSG GL is the tremendous flexibility you are allowed in the configuration of the chart of accounts. You can select your own account numbers, account descriptions, and report formats based on your own unique needs. Accounts Receivable, Invoicing, Accounts Payable, and Payroll modules will directly post to the GL module. Additional modules can be added at any time with minimal disruption. Supports up to 9 divisions.

ACCOUNTS RECEIVABLE

The Accounts Receivable module will be a tremendous asset in maximizing cash flow. SBSG AR will help you increase credit sales to your best customers while allowing you to reduce your bad debt write-offs. Credit decisions can be made based upon current and accurate information. The AR module provides 4 important management reports including open and closed items, invoices not billed, and aging. Of course, SBSG AR also produces your customer's statements. When coordinated with SBSG GL, the AR module will perform applicable posting activities. Since the product is user-configurable, you can implement its use to meet your business requirements.

ORDER ENTRY

The SBSG Invoicing module was designed to print details of customer purchases on invoice forms and update totals into Accounts Receivable as either open or closed AR invoices. Each line item can be declared taxable or not taxable. Each invoice can be disbursed to as many as 5 General Ledger expense accounts, as well as to AR and cash. This module supplements Accounts Receivable and cannot be run independently. You may coordinate it with inventory, in which case you input the inventory number and the computer displays description and retail cost. Cost can be overridden via discounting by percent or by directly changing the price on the particular invoice—not in the inventory.

ACCOUNTS PAYABLE

The Accounts Payable module is a valuable management tool, designed to store data regarding purchases from your suppliers, and to help manage your important cash resources. The AP module incorporates 5 management reports based on data from your suppliers' invoices. The system is invoice-oriented and accurately tracks open and closed items, aging, historical vendor activity, and all associated expenses. Additionally, the system can print checks for vendor payment based on a variety of arguments. The AP module can be used as an independent system or in conjunction with other SBSG modules. When utilized with the GL module, data needs to be entered only one time.

PAYROLL

The Payroll system is one of the most complete payroll packages available on the market for small business microcomputer use. The system will promptly and accurately pay your employees, produce documents required by federal and state agencies, and create reports for management use. Since the system is user-configurable, SBSG Payroll will allow you to run your system your way. When coordinated with the GL module, the Payroll will perform applicable postings to up to 12 different GL liability and expense accounts as well as posting to cash. File maintenance of Federal and State Tax tables may be accomplished by the user when changes occur. Up to nine state tax tables may be stored on-line and utilized simultaneously. Flexible reporting features also support multiple state tax payrolls. Works in every state.

INVENTORY

The Inventory module was designed to meet the specific needs of retail and wholesale operations. All information is easily accessible and reportable, with status reports and minimum reorder reports to help you reduce the potential hazard of overstocking which results in cash flow problems. Salespeople always have current price lists at their fingertips. The compatibility of these business oriented packages offers flexible data manipulation for informed decision making that was previously affordable only by large companies.

Complete detailed sample reports with specifications are available for $10, refundable or credited toward purchase of program module.
Due to licensing agreements, SBSG Accounting Software may not be returned after the sealed diskette envelope has been opened.

TRS-80 Model I (48K and 2 disk drives).....$250 Per Module
TRS-80 Model III/4.....$250 Per Module
TRS-80 Model II/12/16.....$350 Per Module
Add $200 for TRS-80 Hard Disk Version
IBM PC (Fast Compiled Version).....$495 Per Module
CP/M 8" Disk (requires MBASIC).....$450 Per Module
MP/M 8" Disk (requires MBASIC).....$750 Per Module
CP/M-86 8" Disk (Fast Compiled Version).....$550 Per Module
MP/M-86" Disk (Fast Compiled Version).....$950 Per Module
Also available for all ALTOS Computers

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CAPABILITY

FEATURES AND CAPACITIES OF SBSG ACCOUNTING SYSTEMS

(Capacities are based on a typical system with two 8" single-sided double-density disk drives)

Complete detailed sample reports with specifications are available for $10, refundable or credited toward purchase of program module. Due to licensing agreements, SBSG Accounting Software may not be returned after the sealed diskette envelope has been opened.

GENERAL LEDGER

- Completely menu-driven with full-screen operator prompting for ease of use
- User can configure: Account number, Account name/Description, System size, most management reports
- Items can be direct posted or posted by an external source
- All items entered are validated before acceptance
- Reports include: Trial Balance, Balance Sheet, Income Statement, User-defined reports, Update reports
- Eight levels of totals—user designed
- Data collected/stored by: Month, Quarter, Year, Previous Quarters
- User formatted reports with the following designed as you wish: Titles, Headings, Account numbers, Descriptions, Subtotals, Totals, Skip lines, Skip page
- 1500 Account capability
- 1500 direct posting transactions per month
- 1500 external posting transactions per month

ACCOUNTS PAYABLE

- Completely menu-driven with full-screen operator prompting
- Aids in analysis of purchases, costs, and cash flow needs
- Invoice-oriented to simplify cost or vendor identification
- Provides history of transactions by vendor
- Cash management tasks become more accurate and well controlled
- Prints checks by: Particular invoice(s), Particular vendor, Group of vendors
- Invoice types include: New invoice, Credit memo, Debit memo
- Invoice detail recorded: Invoice number, Description, Buyer code, Invoice date, Age date, Discount ($ or %), Check register number, Freight charges, Taxes, Totals
- Reports include: Open items, Closed items, Aging, Debit memos, Credit memos, Check register, Vendor listing, Vendor activity, Update reports
- Coordinated system posts to: Up to five General Ledger expense accounts, GL cash account, GL Accounts Payable account
- 750 Vendors on file
- 1500 Invoices
- 500 Transactions
- 750 Checks

ACCOUNTS RECEIVABLE

- Completely menu-driven with full-screen operator prompting
- Management reports detail account activity, allowing for maximization of sales opportunities while reducing credit risks
- Improvement of cash forecasting and flow
- Invoice orientation
- Invoices can be entered before billing, at time of billing, after billing or when paid
- Invoice types include: New invoice, Credit memo, Debit memo, Progress payment
- Invoice file includes: Transaction type, Invoice amount, Bill date, PO number and Description, Tax calculation, Drayage, Partial payment information
- Statements can be generated at any time
- Reports include: Open items, Closed items, Unbilled items list, Aging, Update reports
- 1500 Customer records (1000 if used in conjunction with Inventory Module)
- 1500 Invoices (1000 if used in conjunction with Inventory Module)
- 1000 Transactions (500 if used with Invoicing Module, 250 if used with both Invoicing and Inventory Modules)

PAYROLL

- Completely menu-driven with full-screen operator prompting
- Will handle salaried and hourly employees
- All earnings and deductions are calculated and displayed/printed; all data is accumulated and recorded for permanent records
- Provisions are made for recurrent or one-time deductions of special categories
- Complete control of file sizes and pay period
- Pay types include: Salary or hourly, Vacation pay, Holiday pay, Overtime pay, Bonus (taxable or non-taxable), Piecework pay
- Reports include: Pay history, Insurance report, Absentee report, W-2, 941A, State, SDI, SUI
- Payroll Journal: Current, this month, this quarter, this year, by employee, by total payroll
- Paychecks printed with: Gross pay, Deductions, Net pay, YTD summaries
- Taxes for up to 9 different states supported at the same time
- End user can easily update tax tables
- 450 Employee records
- 1350 Transactions
- 1350 History records
- 1350 Deductions

ORDER ENTRY

- Completely menu-driven with full-screen operator prompting
- If used in conjunction with Inventory Module, prices and descriptions are pulled from Inventory files and Inventory is depleted immediately
- Prints selected number of shipping labels, with or without your own name and address "Bill to"/"Ship to" capability
- Computer generates invoice number
- Allows item detail not available with the Accounts Receivable Module alone
- Prints ten lines of detail noting: Part number, Description, Price, Quantity, Extension, Invoice subtotal, Taxes, Shipping/Handling, Payment, Total due
- Each line can receive: Tax or no tax, Discount in %
- Open or closed invoice file is fed to Accounts Receivable Module
- Prints transaction report detailing invoices
- Generates summary report totals on update to Accounts Receivable
- Stores 100 invoices for posting to Accounts Receivable

INVENTORY

- Completely menu-driven with full screen operator prompting
- ISAM (Indexed Sequential Access Method) file structure allows fast, efficient disk storage and retrieval
- Store data for inventory located in up to 5 separate sites
- Code for up to 9 salespeople
- Data entry may be done manually or automatically through invoicing updates
- System handles: Customer sales, Customer returns, Vendor orders, Vendor receipts, Vendor returns, In-company transfers
- Reports include: Inventory master list, Retail price list, Retail & cost price list, Transaction report
- The system will calculate: Gross margin ($ and %), Return on investment (ROI), Average inventory--retail ($) and cost ($), Turnover (%)
- 4750 Items (1000 if used with Accounts Receivable/Invoicing Modules)
- 650 Classes (200 if used with Accounts Receivable/Invoicing Modules)
- 3000 Transactions (500 of used with Accounts Receivable/Invoicing Modules)

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Announcing . . . . .

THE FINEST DATA BASE SYSTEM FOR YOUR TRS-80™ MODEL I or III/4

Maxi Manager

JUST CHECK SOME OF THESE FEATURES

- Supports six different relational search techniques.
- Comes with programmer's interface.
- Over 93 pages of documentation.
- Supports up to 20 user defined fields of 40 characters each.
- Record length up to 800 characters.
- Files can be up to four disks in length.
- Compatable 35, 40, 77 & 80 track drives.
- Has calculated equation fields.
- Complete report generator.
- Data can be merged into letters.

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MAXI MANAGER for TRS-80 Models 1 & 3
Requires 48K of RAM and 1 Disk Drive Minimum.

New Features Include:

- **30%** INCREASE IN SORT SPEED
- RE-WRITTEN USER'S MANUAL
- NOW COMPATIBLE WITH NEWSCRIPT™ WORD PROCESSING SYSTEM
- **MAXI UTILITY,** WHICH ALLOWS YOU TO RESCUE FILES ON DISKETTES DAMAGED BY WEAR OR MISUSE AND LETS YOU ADD, DELETE OR EXPAND FIELDS IN AN EXISTING DATA BASE.

$99.95

NOTE 1: File size is dependant on memory size.
NOTE 2: Sequential files only.
NOTE 3: User must apply own driver routine.
NOTE 4: Hard copy print out only
NOTE 5: Four functions (+ - * /) only
NOTE 6: Same as note #5 with a maximum of two calculated fields.
NOTE 7: Available as a separate program for $99.95.
NOTE 8: 120 character maximum.
NOTE 9: Data structures defined in manual.
NOTE 10: 132 characters maximum.
NOTE 11: User option (files can be read from ascending or descending order).

NOW AVAILABLE:

MAXI MANAGER II

Adds many powerful new features, including:

- Hard Drive support
- Much faster machine code sort routines
- Maximum Field Length 60
- Allows up to 50 fields per record

For TRS-80 I/III/4 ..... $199

DATA MANAGEMENT PROGRAM COMPARISON CHART

	CCA DATA MANAGER	AIDS III with CALS	MAXI MANAGER	RADEX 10	PROFILE
FILE CAPACITY & FORMAT					
Maximum # of disks per file	1	1	4	31	4
Maximum # of records per file	2450	Note 1	32,767	10,199	65,535
Maximum record length	249	254	800	255	255
Maximum # of characters per field	249	254	40	254	255
Maximum # of fields	24	20	20	127	153
Maximum # of characters per field label	15	10	19	12	765
Variable length records (pack sectors)	No	Note 2	Yes	No	No
FIELD TYPES					
Alphanumeric	Yes	Yes	Yes	Yes	Yes
Numeric	Yes	Yes	Yes	Yes	No
Fixed decimal numeric	Note 4	Yes	Yes	No	No
Date (MM/DD/YY)	Yes	No	Yes	No	No
Extended date (MM DD YYYY)	No	No	Yes	No	No
Calculated equation	Note 5	Note 6	Yes	No	No
Permanent fields	Yes	No	No	No	No
SORTING					
Machine language assisted	No	Yes	Yes	Note 7	Yes
Sort by any field	Yes	Yes	Yes		Yes
Number of Sort Key files	1	1	5		1
Numeric sort	Yes	Yes	Yes		No
Ascending sort	Yes	Yes	Yes		Yes
Descending sort	Yes	Yes	Note 11		Yes
Sort within a selected range	No	No	Yes		No
Sort multiple fields simultaneously	Yes	Yes	No		No
FILE MAINTENANCE					
Fixed length input fields	Yes	Yes	Yes	Yes	Yes
Single key entry of common data	No	No	Yes	No	No
Single field EDIT selection	Yes	Yes	Yes	Yes	Yes
Skip record (next or previous)	Yes	Yes	Yes	No	Yes
Search & EDIT record	No	Yes	Yes	No	Yes
Search & DELETE record	No	Yes	Yes	No	No
Auto rejection of alphanumeric data in numeric field	Yes	No	Yes	No	No
RECORD SELECTION TECHNIQUES					
Record number	Yes	Yes	Yes	Yes	No
Binary search (high speed)	No	No	Yes	No	No
Maximum # of simultaneous keys	1	4	10	31	1
RELATIONAL COMPARISONS					
Equal	No	Yes	Yes	Yes	Yes
Not equal	No	Yes	Yes	No	Yes
Greater than	No	Yes	Yes	Yes	Yes
Less than	No	Yes	Yes	Yes	Yes
Instring	Yes	No	Yes	Yes	No
AND / OR	No	No	Yes	Yes	No
Wild card masking	No	No	Yes	No	No
PRINTING					
User specified page title	Note 8	Yes	Yes	No	Note 10
User specified column headings	No	No	Yes	No	Yes
Automatic page numbering	Yes	Yes	Yes	Yes	Yes
Right justification	No	Yes	Yes	No	No
User defined column widths	Yes	No	Yes	Yes	Yes
User defined column separators	No	No	Yes	No	No
Keyboard entered columnar values	No	No	Yes	No	No
Merge data into form letters	No	No	Yes	No	No
Form filling applications	No	No	Yes	No	No
Columnar totals	Yes	Yes	Yes	No	No
Columnar subtotals generated upon change in a specific field	Yes	Yes	Yes	No	No
Built in screen print	No	No	Yes	No	No
MISCELLANEOUS					
Cost	$75.00	$94.90	$99.95	$99.00	$79.95
Punctuation allowed within data fields	Yes	?	Yes	Yes	Yes
Upper / Lower case	Note 3	Note 3	Yes	Note 3	Note 3
Built in RS-232-C driver	Note 3	Note 3	Yes	Note 3	Note 3
Built-in TRS-232 driver	Note 3	Note 3	Yes	Note 3	Note 3
Programmer's interface	Note 9	Note 9	Yes	No	Note 9
Sample DATA disk	No	No	Yes	No	No
Documentation (# of pages)	?	?	93	38	29

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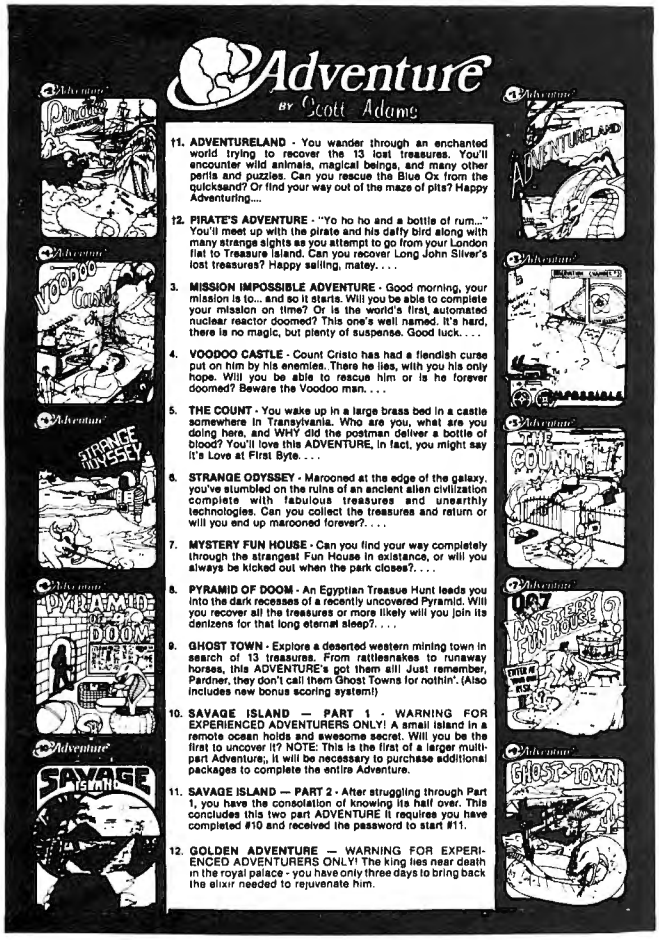

† Recommended for the novice Adventurer, with many built in HELPS!

ADVENTURES FOR TRS-80 AND ATARI 16K CASSETTE SYSTEMS

ANY SINGLE ADVENTURE (1-12) ..... each $19.95

ADVENTURE 3-PACKS FOR TRS-80 I/III/4 AND ATARI 32K DISK SYSTEMS

ADVENTURES 1, 2 and 3 ..... $39.95
ADVENTURES 4, 5 and 6 ..... $39.95
ADVENTURES 7, 8 and 9 ..... $39.95
ADVENTURES 10, 11 and 12 ..... $39.95

S.A.G.A. GRAPHIC ADVENTURES FOR APPLE AND ATARI 48K DISK SYSTEMS

ANY SINGLE ADVENTURE (1-6) ..... each $39.95

TRS-80 MODEL II/12/16 and CP/M ADVENTURES

All Twelve Adventures on one 8-inch diskette
(Specify TRSDOS or CP/M Version) $129.95

OTHER POPULAR ADVENTURE SOFTWARE:

	TRS-80	APPLE	ATARI
Nightwalker	/$24.95	--	--
Labyrinth of Crete	--	/$29.95	--
S.A.G.E. Graphics Editor	--	--	/$49.95
Galactic Empire - Tape/Disk	$14.95/$19.95	--	/$19.95
Stratos - Tape/Disk	/$24.95	--	/$34.95
Stone of Sisyphus - Disk	/$29.95	/$29.95	/$39.95
Eliminator - Tape/Disk	/$24.95	/$29.95	/$24.95
Armor Patrol	/$24.95	--	--
Sea Dragon	/$24.95	/$34.95	/$34.95
Rear Guard	/$24.95	/$29.95	$19.95/$24.95
War	--	/$24.95	/$24.95
Prepple	--	--	/$29.95
Prepple II	--	--	/$34.95
Saigon: The Final Days	/$24.95	/$34.95	/$24.95
Escape From TRAAM	/$24.95	/$34.95	/$24.95

AND FOR YOUR COLOR COMPUTER:

DEATH PLANET: THE DOG STAR ADVENTURE $19.95
SEA DRAGON $34.95
FIRE COPTER $24.95
AIRLINE $24.95
AREX $34.95
SAIGON: THE FINAL DAYS $24.95

MAXI CRAS Check Register Accounting System

MAXI CRAS is a TRS-80™ computerized check writing and recording system for personal or small business use. With **MAXI CRAS,** you can print a month's worth of checks in minutes (singly or on continuous forms), or you can write checks by hand and enter them into the register at your convenience. **MAXI CRAS** also eases the burden of reconciling your bank statement by providing the information you need to know quickly and efficently. And **MAXI CRAS never** places a limit on your financial activity like some systems — **write as many checks per month as you need!**

But **MAXI CRAS** does much more than balance a checking account; it's an indispensable tool for managing money most effectively. You create up to 223 income and expense accounts in the system, and at any time, you can print a detailed statement that shows all activity in one or more of your accounts over a specified period of time. You always know exactly where your money is coming from and where it's going.

There's more! You can print complete check registers, income and expense sub-totals, and an account distribution statement that tells how each transaction was distributed over the individual accounts.

If you're weary of the messy, inefficient ledger method of bookkeeping, if you've been disappointed with other financial managing systems that don't deliver what they promise, then you're ready for best. We mean it when we say — **MAXI CRAS MEANS BUSINESS.**

TRS-80 Model I/III/4 (48K), IBM PC or 8-Inch CP/M Disk $99.95

MAXI MAIL Mailing List Management System

The **ultimate** in low-cost mail list management is now here — **MAXI MAIL,** the latest entry in the highly acclaimed **MAXI** series. **MAXI MAIL** is a powerful mail list management system that's easy to use and has **totally unlimited storage capacity.** Completely menu-driven and loaded with error trapping routines and safeguards, each **MAXI MAIL** data disk will hold approximately 1000 names and addresses; you can add as many extra data disks as you like! **MAXI MAIL** prints address labels, too — up to four across and in any configuration you want. An alignment test ensures that everything is just right before your data printing begins. **MAXI MAIL** also merges data, supports three numeric codes (of up to four characters each), and offers all of the features necessary for professional mail list management.

So, if you need a dependable, easy-to-use mail list management system at an affordable price, your search is at an end. **MAXI MAIL** means business!

TRS-80 Model III/4 (48K) or COMMODORE 64 (requires 2 disk drives) $99.95

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COMMUNICATIONS SYSTEMS

SMALL BUSINESS SYSTEMS GROUP

Small Business Systems Group markets a complete line of software which interfaces the TRS-80™ with ANY computer that communicates in ASCII. This family of products offers both terminal and host capabilities to users with even the most minimal hardware configurations. There has been wide interest in these products from "comm buffs," the educational community, and **businesses and individuals who need to communicate on a regular basis.** Our systems are among the most versatile and comprehensive on the market today for TRS-80™ microcomputers.

ST80-III™ -- The Ultimate Communications System

The "state of the art" in communications processors, designed for complex commercial applications. Included in this package is a set of programs that allow your TRS-80™ to talk to a timesharing computer, transfer files to and from your central business computer, and customize your ST80-III to your specific application.

Features include: Selectable RS232 Setting • Help Display • Echo Feedback • Job Log (LDOS Mod I, Mod III) • 2-User Translation Tables • Auto Logon • 10 Function Keys (Definable) • RUBOUT Key (Definable) • Warm Restart • Automatic I.D. • True Break • Direct Cursor Addressing • DOS Command Support • Transmit Line Feed • Printer Support • Video Display Modes: SCROLL, FORMAT, PAGE, REVERSE VIDEO (Mod II), CURSOR ON/OFF • Auto-answer • Autodial (certain modems) • Append to memory buffer • Big buffer for printer • Off hook / on hook • 10 predefined ASCII strings in translation tables, • Registered users include NASA, USN, UPS, Westinghouse, and many colleges, universities and major banks.

Minimum Requirements: One disk drive, RS232-C, 32K Model I or III, 64K Model II.

Model I or III/4 ..... **$150.00**

Model II/12/16 ..... **$250.00**

FORUM-80™ -- Communications Network

With Bill Abney's hot new communications product, you and your TRS-80™ can become part of one of the fastest growing communications networks in the country; your computer becomes an on-line bulletin board system: users can leave messages, get messages, swap information; exchange VisiCalc™ reports, charts, graphs or other correspondence with other computers.

Features Include: Security System • Constantly displayed time-in-use figure • User Friendly • User Configurable or can be modified for custom application • Future updates and upgrades available to register owners • Multiple command strings • Non-technical user and operator manuals.

Minimum Requirements: TRS-80™ (3-drive Mod I, 2-drive Mod III), 48K, RS232-C, Auto-answer modem.

Model I or III/4 ..... **$350.00**

ST-80-PBB™ -- Personal Bulletin Board

A small yet powerful bulletin board for the individual to gather and leave electronic mail. Messages reside in data base in memory, eliminating the problem of scanning magnetic media.

Features Include: Password Security System • Four levels of Access--Guest, Member, Owner, Operator • User Log • Four message types • Smart reverse scan to view messages from most recent to oldest.

Minimum Requirements: TRS-80™ (Mod I or III), 16K, Level II, Auto-answer modem, ST80-X10 Host Program ($50), RS232-C.

Model I or III/4 ..... **$50.00**

ST-80-CC™ -- Communications Center

More than a personal bulletin board, this is a complete communications system for low to moderate traffic. Like ST80-PBB™ it supports four levels of users and four levels of messages with text editing and reverse scan of messages.

Additional Features Include: Transmit same message to many individuals • Auto logon and multiple command scanning • Print messages on line printer, save messages in memory buffer, maintain database without user intervention.

Minimum Requirements: TRS-80™ (Mod I or III), Level II, 48K, one disk, Auto-answer modem, ST80-X10 Host Program ($50), RS232-C.

Model I or III/4 ..... **$100.00**

MouseNet™ -- Advanced Bulletin Board System

Designed to accommodate high volume traffic, to operate simply enough for novice users, yet is fast and powerful enough for experienced callers.

Features Include: Messages stored on disk in keyed file • Uses machine language subroutines for speed • Supports text editing commands • Help commands guide user • System bulletins display each time a user logs on • All messages are dated.

Minimum Requirements: TRS-80™ (Mod I or III), 48K, RS232-C, 3 Disks, Auto-answer modem, text editor (such as Scripsit).

Model I or III/4 ..... **$295.00**

DELUXE PERSONAL FINANCE For TRS-80™

This is a sophisticated and unique financial analysis package which can be readily customized to suit your personal financial situation. It will:

- Accept and apply transactions to user-formatted budget categories.
- Separate cash and check disbursements.
- Allows up to ten category disbursements per check.
- Credit income/deposits according to source.
- Search, correct or void checks.
- Maintain an accurate checking account balance.
- Cancel returned checks.
- Provide monthly summaries of income vs. expenses.
- Calculate profit/loss.
- Summarize data by categories.
- Provides up to ten savings account summaries.

Model II/12/16 ..... **$75.00**

Model I Version **$35.00**

SBSG will provide all customers with software support and their free SBSG Newsletter

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- STOCKVUE tracks performance of 5000 stocks on New York, Amex and over-the-counter exchanges.
- UNISTOX gives UPI's reports on over 168 stocks, bonds, commodities, money markets, treasury bills, etc.
- Access UPI's business wire for business stories and UPI's general news, sports, national and international news, syndicated columnists, etc.
- The New York Times business service offers the day's major financial and business developments.
- The New York Times consumer database provides abstracts on more than 120 subjects.
- LEGI-SLATE tracks progress of bills moving through the House and Senate. Energy series provides a dozen reports on energy-saving tips for homes and Businesses.
- Nationwide directory of toll-free telephone numbers.
- INFORMATION ON DEMAND gives you access to electronic or hard-copy text of virtually any document or article you want. IOD is available to produce research papers on any topic in every major language
- A veritable encyclopedia of consumer information is accessible on a long list of subjects including recipes, food and nutrition, choosing wines, home repair and decorating, health care and medicine, movie reviews and much, much more

Communications

- Electronic Mail puts you in touch with all other subscribers, allowing you to send and receive instant electronic messages
- Converse "live" with anyone else who is "on-line" at the same time
- Live "conference calls" with two or more other subscribers simultaneously
- Bulletin board service lets you post messages or "classified ads" for anyone to see and respond to
- Send MAILGRAMS directly from your computer's keyboard

Electronic Shopping Services

- COMPU-STAR provides a giant electronic store when you can comparison-shop for more than 50,000 items, and make purchases directly from your computer -- often at prices you can't match elsewhere
- BARTER WORLDWIDE, INC., lets you trade goods and services with other individuals or businesses through their worldwide barter network
- Review complete domestic and international airline schedules, shop for the best rates, and then place your reservation on-line
- Read Hotel and Restaurant reviews, and even regional weather reports for your destination
- Make your Hotel and Car reservations on-line

Electronic Job Hunting

- Access to network of more than 500 employment services nationwide
- Employers can read your resume right from THE SOURCE

Education

- EDUCAT is a large library of educational drills in many subjects, including grammar, reading, mathematics, foreign languages and sciences, designed for several different grade levels
- Access to current information on scholarships, student loans, and federal aid programs.

Mainframe Computing Power

- Perform calculations beyond the abilities of home or business systems.
- This service provides financial planning, simulation and analysis. You can calculate your taxes, project cash flows, compare equipment leases vs. purchase, calculate loan amortizations, and more.
- Use the programming power of languages such as BASIC, FORTRAN and Pascal, available through the SOURCE.
- INFOX lets you program financial routines on The SOURCE to streamline your accounting and inventory control.
- Store unlimited amounts of data in the source, "download" data to your computer, or "upload" data from your computer to storage on The SOURCE.

Entertainment

- More than 75 Puzzles, Educational Games, Adventure and Arcade-style games are now available to give you some fun and excitement along with all the other powerful features of the SOURCE.

Lifetime membership fee plus $7.75 per hour minimum charge for access time from The SOURCE (minimum monthly charge $10).

Lifetime Membership to The SOURCE $100

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Bulletin Boards

- A public system where members can place messages for other members. Bulletin boards are available for owners of specific computers, general news and uses of Delphi, software and hardware reviews, and special interest groups.

Conference

- Gives two or more members who are "on-line" at the same time the ability to "talk" to each other through their keyboards.

Delphi Mail

- A comprehensive private message-delivery system allows you to exchange personal messages with other members, put your mail into files for later retrieval by topic and get a directory of all your mail messages.

Delphi Banking

- Allows you to pay your bills directly from your keyboard, without the hassle of checks, stamps and envelopes. You don't have to keep a balanced check register — Delphi even reconciles your statement.

The Delphi Library

- A tremendous on-line reference library includes a cross-referenced encyclopedia with information on more than 20,000 topics, a library of financial and statistical programs, and the Research Library — a vast collection of data from over 200 different databases, which, if produced in printed form, would fill more than a mile of bookshelf space.

News

- An on-line news service that uses the searching and indexing power of the computer to retrieve the stories you want. Accesses all of the major wire services and schedules of events in Washington. When you provide a profile of the topics that interest you, the News service will list all related stories for you

Online Markets

- The BAZAAR is a Marketplace where items of all sorts may be offered for bid, sale, lease, etc
- The CATALOG is like mail or phone order, only quicker. Merchants of everything from computer software to radios may use it for gathering orders without the use of expensive WATS line
- COMP-U-STORE is a complete shop-at-home service. With it you can comparison shop and then order delivery direct from the manufacturer or distributor at substantial savings (this is a premium service which requires an annual membership fee)

Travel

- This is a collection of services which enables you to review current airline schedules, check on the availability and price of hotel accomodations worldwide and on rental cars through the U.S. That's not all -- you can also use Delphi to place your airline, hotel and car reservations!

Scheduler

- Keeps track of all your appointments, and gives you a list of today's appointments when you sign on

Programming Languages

- BASIC-Plus-2, COBOL, FORTRAN-77, and Pascal are all available for your use through Delphi, providing mainframe power and massive on-line storage

Infomania

- This is a collection of publications and services which come from members of Delphi -- an open forum for exchange of information

Writer's Corner

- A "toolkit" for your use in writing, editing and publishing, from programs to books. Normally, publications submitted by members appear in Infomania "Best Sellers" from Infomania may find their way to other parts of Delphi, and their authors may be eligible for royalties.

Online Typesetting

- This feature allows you to prepare a text file for typesetting on a high-speed digital phototypesetter in any of 200 different typestyles and sizes. Foreign language symbols, rulings, kerning and expansion can all be accomodated. Finished copy can be returned to you by Federal Express

Storage

- You will be charged for information stored in files under your control, and for information in mailings sent to more than one member. The first 50,000 characters stored (month's average) is free, with a $0.05 charge for each additional 1,000 characters.

Lifetime membership fee plus $5 per hour minimum charge for access time from DELPHI (No monthly minimum).

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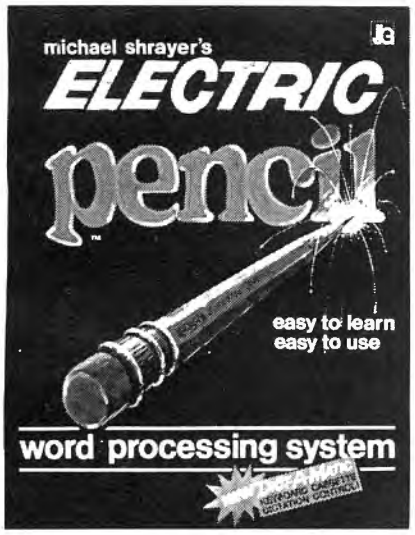

ELECTRIC pencil

T.M.

VERSION 2.0

The New Enhanced Version Of The World's Greatest Word Processor Is Here.

The new ELECTRIC PENCIL 2.0 for TRS-80 Models I and III Available for Disk, Cassette and Stringy Floppy Systems

The ELECTRIC PENCIL System is easy to learn and easy to use -- its simple command structure will make you a word processing expert in minutes. The ELECTRIC PENCIL Manual serves both as a quick reference guide and as a self-teaching manual, including pictures and examples.

The ELECTRIC PENCIL 2.0 has more features than any other word processor for the TRS-80, including:

- ☐ Easy to learn-easy to use-menu driven
- ☐ All settings are displayed in menus
- ☐ Extensive 'HOW-TO' documentation with examples
- ☐ Disk version supports tape and Stringy Floppy
- ☐ Compatible with all ASCII files (including BASIC's)
- ☐ Configure program to your own format
- ☐ All print format settings saved with file
- ☐ Runs on Model I and Model III
- ☐ Runs under all versions of TRSDOS and NEWDOS
- ☐ Fast buffer shift and type-ahead in 'INSERT' mode
- ☐ Underlining
- ☐ No keyboard modifications required
- ☐ Compatible with all lower case modifications
- ☐ Three print drivers, (parallel, serial and TRS232)
- ☐ Recognizes high memory
- ☐ Uses printer DCB - you can use any print driver
- ☐ Commands to load and save special print-drivers
- ☐ Special print drivers may be loaded at any time
- ☐ Set RS232c and TRS232 options from SYSTEM menu
- ☐ Supports serial baud rates from 110 to 9600 baud
- ☐ Supports 1500 and 500 baud tape operations
- ☐ Cursor speed command
- ☐ Incomplete/'bad' loads saved for your inspection
- ☐ 'Printer hangs' eliminated
- ☐ All file commands use standard TRS-80 mnemonics
- ☐ ALL versions runs with 16K, 32K or 48K
- ☐ Automatic print formatting
- ☐ Automatic repeating keyboard
- ☐ Automatic 'whole word' wrap-around
- ☐ Cursor control - up - down - right - left
- ☐ Cursor to end of file
- ☐ Cursor to beginning of file
- ☐ Tabbing
- ☐ Scrolling - 5 speeds forward and reverse
- ☐ Freeze and continue scrolling
- ☐ Cursor to top of screen
- ☐ Cursor to beginning of line
- ☐ Delete and insert characters
- ☐ Delete and insert lines
- ☐ Erase line from cursor position to end
- ☐ Insert and delete blocks of text
- ☐ Backspace and erase characters
- ☐ Search from 1 to 38 characters at one time
- ☐ Replace from 1 to 38 characters at one time
- ☐ Search without replace
- ☐ 'Conditional' search and replace
- ☐ Cursor positions over 'search' character
- ☐ Selective (wild card) search and replace
- ☐ Selective (wild card) search without replace
- ☐ Search and replace carriage return and form feed
- ☐ Repeat command
- ☐ Hard Space character
- ☐ Concatenation of long lines
- ☐ Upper and lower case shift key lock
- ☐ Exit any command with a single keystroke
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- ☐ Automatically displays words in file
- ☐ Selection of cursor speeds
- ☐ Selective clearing of memory
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- ☐ Warm start command
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- ☐ Optional automatic page numbering
- ☐ Right justification
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- ☐ Line length may be set from 1 to 255 characters
- ☐ Line spacing may be set from 1 to 255 lines
- ☐ Page length may be set from 1 to 255 lines
- ☐ Page spacing may be set from 0 to 255 lines
- ☐ Starting page number may be from 1 to 65535
- ☐ Optional print length may be set to print partial files
- ☐ Multiple printing of text files
- ☐ Single page printing
- ☐ Printer configuration control:
  - carriage return on/off
  - line feed on/off
- ☐ All options may be changed at any time
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- ☐ Compatible with all files created by previous releases
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- ☐ Fast disk I/O - loads 36K in under 8 seconds
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The ELECTRIC PENCIL 2.0 for TRS-80 Models I and III

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Editing Utilities for the ELECTRIC PENCIL 2.0!

BLUE PENCIL - A text proofing addition to THE ELECTRIC PENCIL. BLUE PENCIL reads the text file and notes any spelling errors on the video or printer. It recognizes prefixes, suffixes, hyphenation and comments. The word dictionary is infinitely expandable - by you! You can add or delete your own vocabulary of words to BLUE PENCIL's dictionary.

BLUE PENCIL comes with a 50,000 word dictionary (equivalent to a Webster's Pocket Dictionary.) Typical proofing time for a 60,000 word text file is under two minutes. Requires 32K minimum, 1 disk drive. **$89.95**

RED PENCIL - A text correction addition to THE ELECTRIC PENCIL. RED PENCIL automatically CORRECTS errors detected by BLUE PENCIL. RED PENCIL displays each misspelling and typo separately and offers you a choice of options which include: retyping the misspelled word, leaving it as is, adding it to the dictionary or displaying the word in context. If you choose to display the word in context, then you are again offered the first three choices. The text is instantly corrected and you may then proceed with your word processing chores. Typical correcting time for a 6000 word file is under two minutes. (Note: time may vary depending on the number of spelling errors.) Requires 32K Minimum, 1 disk drive and BLUE PENCIL. **$59.95**

THE ELECTRIC PENCIL FOR THE IBM Personal Computer

NEW! IBM VERSION

This is the fastest, most powerful word processing system ever created for the IBM PC. The IBM Electric Pencil has all of the advanced capabilities described above, plus more than 100 additional features. Program words or sentences (up to 255 characters each) for recall with a single keystroke, view your text with actual boldface and underlined text displayed on screen, and much, much more.

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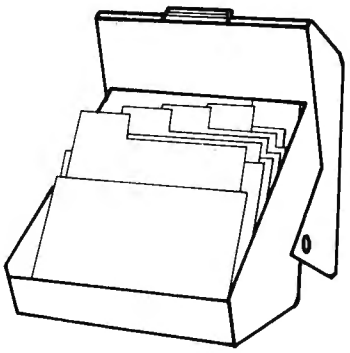

Stores 50 to 60 Diskettes.
This durable smoke-colored acrylic unit provides easy access through the use of index dividers and adjustable tabs. Unique lid design provides dust-free protection and doubles as a carrying handle.

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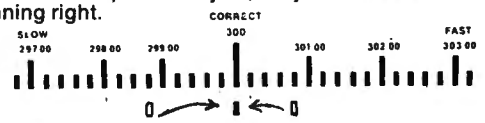
Get Disco-Tech's Disk Drive Timer
For TRS-80 Models I, II and III or Apple

Get the bugs out of your disk drives with DDT, Disco-Tech's disk drive timer and analysis program, which lets you analyze disk drive motor speed within a tenth of an RPM (out of 300) with a real-time graphic "speedometer." DDT analysis is faster and more accurate than strobe timing and doesn't require costly equipment. Everything you need is in this package. Incorrect motor speed causes lost data and program incompatibility. DDT lets you check disk drive motor speed **routinely** with a detailed motor speed analysis, so your drives are always running right.



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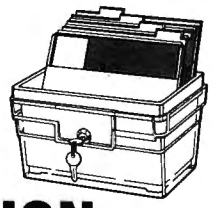

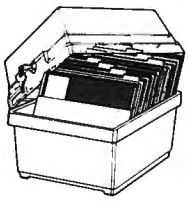

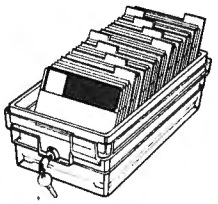

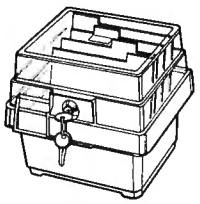

The data stored on your diskettes is always important, and often confidential as well. Now, with The Disk Filing Solution, you can keep all of your important diskettes completely organized and protected from environmental hazards, and also prevent unauthorized access to your data.

A Locking Disk Box provides security and protection for up to 90 diskettes. Unlocked, the lid can be removed and nested under the base to consume a minimum of space. Disk File Trays (without lids) help you organize up to 150 diskettes for fingertip access. Dividers may be removed or snapped into different positions in boxes or trays, and pressure-sensitive divider labels are provided. All locking boxes are provided with two keys.

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For 8" Disks
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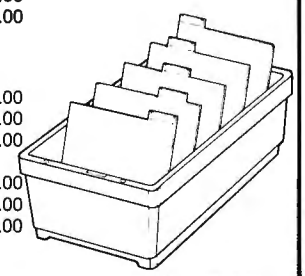

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*For better performance, we recommend double-density diskettes for single-density drives

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A simple payroll system that stores all government required payroll information. Based on user input, the computer will organize and store these figures for all government reports (federal, state and local). Reports can be made at any time. Prints on standard low cost rapidform checks. Automatically calculates payroll deductions.

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Identical to small business receivables (rapidforms version) except that customer statements are printed on tractor fed index cards. Small business receivables prints the statement and the mailing address. Place a stamp on the statement and mail it (no envelope is required). A duplicate statement is printed for the user's records.

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SMALL BUSINESS INVOICING (RAPIDFORMS)

Every one of your customers should get a receipt for every purchase. Our small business invoicing software will allow you to instantly give your customers a professional looking invoice. These low cost invoices are available through rapidforms. Small business invoicing can be used in conjunction with small business receivables.

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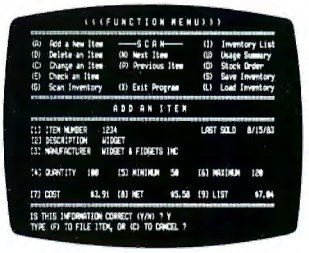
SMALL BUSINESS INVENTORY



Small business inventory allows the user to instantly access any inventory item. Find out how many items you have left of a particular item. What's the selling price? What's your cost. Keeps track of reorder points so you know when to reorder an item. Prints out summaries of all items of just those items that you must reorder.

Cassette or Diskette **$49.95**

SMALL BUSINESS PAYABLES

Keeps track of all information related to how much money you (personally) or your company owes. The system maintains a complete record of each vendor, helps determine which transactions to pay by due date within certain cash requirements. Can print your checks on low cost tractor feed checks available from rapidforms.

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All programs require a minimum 16K memory and cassette or diskette drive (parallel or serial printer optional).

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One of the most useful microcomputer software packages available. The income tax assistant helps the user prepare end-of-year income tax returns. It stores all sources of income and expenses either by check number or alternative reference point. At year's end, the user has instant access to all the information necessary for income tax preparation.

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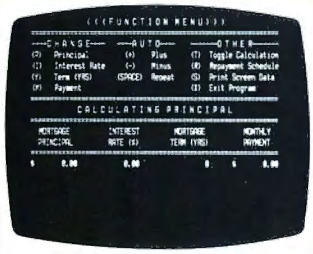
THE MORTGAGE CALCULATOR



For Personal use or use by a real estate agent. Enter the loan amount, interest rate and time period. The mortgage calculator instantly calculates your payments Any variable can be changed. Even more, the mortgage calculator can give you a month-by-monthly summary of your loan (from beginning to end). Check out your outstanding loan balance at any time.

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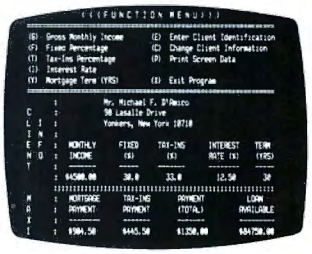
THE REAL ESTATE ANALYST



How much money can you spend on a home purchase? This program is specifically directed at real estate agents but is great for personal use. Enter your client's name, address, current income information, and amount of money currently used for apartment rental. The real estate analyst determines how much money can be spent on a home purchase.

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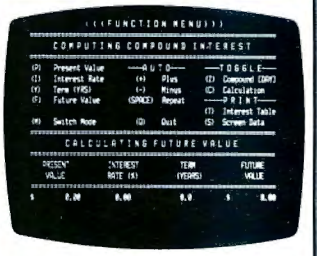
THE FINANCIAL CALCULATOR



A comprehensive menu-driven financial calculator that calculates any financial function consisting of present value, interest, future value, payments and number of periods. Prepare complete schedules (such as amortization and loan reports) on screen or on your printer. Any variable can be changed at any time to give alternative solutions.

Cassette or Diskette **$99.95**

MAIL PAC I

This is an in-memory mailing list program that stores up to a four line address. You can change, delete from or add to your file at any time. Prints names and addresses in either list form or on 1-across mailing labels. Can be used independently or with our index card writer or transograms writer to mail out form letters.

Cassette or Diskette **$29.95**

INDEX CARD WRITER

(Compatible with Mail Pac I)

Can be used in conjunction with Mail Pac 1. Use this program to write form letters which are printed on tractor-feed index cards. Place a stamp on the index card and you can quickly send a message to your entire mailing list. Use the index card writer to print your message on the front of each index card, and use Mail Pac 1 to address the reverse side.

Cassette or Diskette **$29.95**

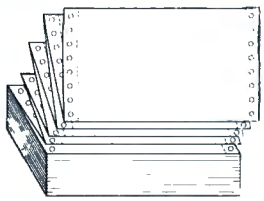
TRANSOGRAM WRITER

(Compatible with Mail Pac I)

What is a Transogram? You've seen them before.....important-looking sealed envelopes containing urgent messages on the inside (overdue bill, recall notice, doctor's appointment change, etc.). Transogram writer prints your important messages on outside of special sealed transogram envelopes (available through rapidforms).....carbon prints copy on inside.

Cassette or Diskette **$29.95**

TRACTOR-FEED INDEX CARDS



No, this is not a software program, but a great method of storing hard copy. These 4" × 6" plain white tractor-feed index cards are available in lots of 1,000 and can be used with a variety of software programs. Also available: index card file box, $3.95; alphabetical index card dividers, $2.95; numerical index card dividers, $2.95.

1,000 Cards **$19.95**

For TRS-80 Models I, II, III, 4, 12, 16, 100 and Color Computer, Apple II/III, Timex/Sinclair, Epson HX-20 and QX-10, all Commodore Computers, Osborne-1 and Executive, IBM PC, Atari 400/800, Xerox, KayPro, Televideo, Sanyo, NEC (including their portable computer), DEC, TI, SuperBrain, NorthStar, and just about every CP/M computer equipped with Microsoft BASIC.

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TELEPHONE DIRECTORY

Stores and instantly recalls all of your important telephone numbers. Also stores complete address information along with any user-created messages related to each entry. Instantly access any record, change, delete or add information. Duplicate records may be printed out on tractor-feed paper (in list format) or on tractor-feed index cards.

Cassette or Diskette **$49.95**

THE PERSONAL CHECK REGISTER

Tired of manual keeping track of your check register? The personal check register will keep track of all deposits and outstanding checks. Simple to use (even if you don't like your computer!). Enter information from your own handwritten checks or use low cost tractor-feed checks available from rapidforms.

Cassette or Diskette **$29.95**

HOME BUDGET MANAGER

Includes all the functions available in the personal check register. But home budget performs additional financial functions such as budgeting available money on a monthly and yearly basis. Keeps track of all income and expenses. You may use program-defined income and expense categories or customize the software by defining your own categories.

Cassette or Diskette **$49.95**

MULTIPLE AND LINEAR REGRESSION

Multiple and linear regression are important tools used in predicting future trends (sales, business, interest, etc.). Most software programs of this type only use linear regression. This program is capable of both linear and multiple regression and calculates the correlation coefficient.

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ARITHMETIC TEACHER

Teaches the basic number facts (addition, subtraction, multiplication and division). A built-in timer helps the child compete against his own best time. Once a child has mastered a certain task he is told that the skill has been mastered, and that no further study is necessary. Mastering these skills is essential to future mathematical success.

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MULTIPLE CHOICE QUIZ WRITER

Outstanding software for teachers, parents, or students. Allows the user to easily create multiple choice or true-false tests. User selects number of questions and number of alternative solutions. The multiple choice quiz writer stores your test forever. Can be used with or without a printer. User can opt for random questions.

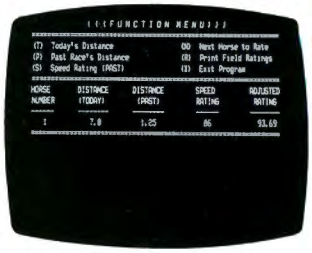
Cassette or Diskette **$29.95**

THE HORSE COMPUTER

We don't recommend betting on horses, but this program really works. Its purpose is to give a class rating for each horse entered in a race (either trots or throughbred). The user instantly determines which horses are running out of their proper class and eliminates these horses from contention. This easy-to-use system is based on pure science.

Cassette or Diskette **$29.95**

THOROUGHBRED DISTANCE ANALYZER



This program is based on scientific fact and is not a horse racing system. This software is used to adjust the past speed of every horse in a given race due to a change in distance. This speed factor is one of the most important factors affecting the results of a thoroughbred race. Can be used in conjunction with the horse computer.

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THE GRIZZLY is no ordinary power line filter — it's an UNINTERRUPTBLE power supply that will keep your computer up and running even during a complete power blackout! If your power fails, THE GRIZZLY takes over instantly, providing full power for up to 20 minutes — more than enough time to safely close your files and shut down the system without losing data.

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The Grizzly (200 watt) ..... $ 895
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The Problem:

Transient voltage spikes are one of the principal causes of computer data loss and damage resulting in malfunctioning equipment, erratic output, increased down time and service costs.

The Solution:

The PANAMAX Voltage Surge Suppressor protects your computer and data from these transient voltage spikes and surges while filtering out electrical line noise to improve component and system reliability.

PANAMAX Unit with six outlets, 6-foot line cord, illuminated on/off switch & overload reset button ... $119.00

MAKE ALL THE RIGHT CONNECTIONS WITH THE HAYES SMARTMODEM 1200

The Smartmodem 1200 is the state-of-the-art in high speed, direct connect modems -- it connects to any computer with an RS-232 port. The Smartmodem 1200 sends and receives data four times faster than the most popular modem on the market today, so it can save you as much as **50%** on telephone charges.

Easy to use features include automatic answering, auto dialing and redialing. You control the Smartmodem 1200 by simple commands from the keyboard, and a built-in control program makes it "intelligent" -- which means it analyzes your commands and responds with result codes (in English, if you wish).

The HAYES SMARTMODEM 1200 (pictured above) $699.95
The HAYES SMARTMODEM 300 (not pictured) $279.95

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Learn to Program Like a Professional!

THE COMPLETE BOOK OF RANDOM ACCESS & DATA FILE PROGRAMMING

From D.S.C. Publishing — Distributed exclusively by H & E Computronics, Inc.

VOLUME I

VOLUME II

Written for TRS-80™ I, II, & III - IBM™/PC - APPLE™ M/S - OSBORNE™ - HEATH™ - DEC™ - SUPERBRAIN™ - and all Computers using CP/M with Microsoft BASIC™

The last word on disk random access and file handling techniques, this series is intended for everyone — beginning programmers, businessmen and professionals will learn how to create custom programs to handle inventories, mailing lists, work scheduling, record keeping, and many other tasks, while more experienced programmers will learn advanced, professional programming techniques for faster, more efficient data storage and retrieval.

Although random access file handling is a matter of some complexity, the subject has been treated in a simple and down-to-earth fashion, so that anyone with some small familiarity with programming in Microsoft BASIC will be able to cope with the material. Each stage of learning uses a sample program as a starting point. The programs grow in capability and complexity as the books progress into all of the various aspects of file handling and record manipulation. An extensive effort has been made to keep the material coherent and every program line is explained in detail.

Volume I
BASIC FILE HANDLING

- The writing of a Menu to summarize program functions
- Screen format for data entry
- The creation of a basic record
- The FIELD and LSET routines for buffer preparation
- Disk storage of random access records
- Changing or editing stored records
- The LPRINT capability from disk using three different formats
- Sorting the random file
- Searching by name or key field
- Search in "next" or "prior" fashion
- Purging deleted records
- Using disk file data for calculations
- Future expansion of data fields
- Using flags to prevent program crashes
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- Relational database programming
- Comprehensive self-balancing accounting system with printouts
- Hashcoded data file manipulation -- (probably the fastest method of data retrieval). Hashing the input key and recovery method explained
- Span-blocking techniques allow creation of records longer than 256 bytes without wasted space
- Blocking & Deblocking
- Shell-Metzner sort
- In-place screen editing
- Recovery of deleted record space
- Alpha-index record retrieval
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Maintain multiple checking accounts, complete with full checkbook reconciliation and budget catagories. Change or delete any check, check or deposit amount, or deduction and CheckEase will automatically update all balance figures. Print by check number, category or if item is tax deductable. VIC-20 users can even save months worth of check data in a format compatible with Commodore's Personal Finance package for later analyzation.

BRODERBUND SOFTWARE

BANK STREET WRITER
Word Processor (disk) **$69.95**

Almost anything you would ordinarily use a typewriter for the Bank Street Writer will help you do better. Powerful, yet simple, the system has no complex codes to memorize. The screen guides you every step of the way as you prepare error-free reports, compose and revise letters, and much more. Also included are tutorial and utility programs, a comprehensive reference manual and a free back up disk. Requires BASIC cartridge and 810 Disk Drive.

CHOPLIFTER
Arcade (48K cartridge) **$39.95**

Your mission is to rescue hostages from behind enemy lines. You must maneuver your helicopter through a sky full of enemy jet fighters and air mines. Once you've landed, hostages will run toward you through a barrage of tank fire and air-to-ground missiles while you try to hold off the enemy. Each flight back to safety is particularly nerve-wracking, since a full load of hostages will perish if you go down!

SERPENTINE
Arcade (cartridge) **$39.95**

An a-maze-ing game about hunger and survival. You control a multipede who must pursue other multipedes through a dense maze. (Of course, they are also pursuing you!) Sneak up behind them and they're your lunch. Eat 'em quick before they split into smaller sections. Meet them head-to-head and it's all over for you. Frogs and spiders appear from time to time just to keep the game interesting. Features hi-res screen and smooth animation.

SIERRA ON-LINE, INC.

JAWBREAKER
Arcade (cartridge or disk) **$29.95**

This arcade game takes you to the candy store for a wild game of tag with some of the rowdiest playmates you'll find anywhere. If you can eat all the sweets, the bratty kids will stop bothering you. After a quick stop and a brushing of the teeth, its off to the store for another day of sweets and tag.

FROGGER
Arcade (cassette or disk) **$34.95**

Move five frogs in a limited amount of time across four lanes of traffic, then jump on the backs of diving turtles and moving logs as you cross the pond to reach the safety of home. Once they are all home, the game advances to a level that threatens you with tightly spaced cars in the one fast lane, deadly snakes that patrol the bank, and logs, hungry alligators and otters that move with the current. Logs become faster and fewer and the diving turtles usually disappear just when you need them. Gobble insects and escort a female frog home for some extra points. Includes sound effects and graphics.

O'RILEY'S MINE
Adventure (cassette or disk) **$29.95**

You're an Irishman with a short temper for adventure—unless of course, it pays off. You have just got a tip that leads you to an abandoned mine full of mind boggling treasures—gold, rubies, diamonds, coal and oil. You have to make it down mysterious depths to get the treasure while avoiding a weird assortment of creatures. You'll need the luck of the Irish to survive this one, but with so much at stake, it's a chance you're willing to take.

HESWARE

GRIDRUNNER
Arcade (cartridge) **$29.95**

Sixty-four owners can now defend the Earth's orbiting solar power station, "The Grid" from enemy Droids. Incredibly fast action, arcade quality game with multi-levels and options. Joystick definitely required.

HESMON 64
Music Synthesizer (cartridge) **$39.95**

Hesmon 64 is an adaption of the Hesmon cartridge for the Commodore 64. Hesmon is a 6502/6510 machine language monitor with a mini-assembler that is for all assembly language programmers.

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Adventure (cassette or disk) **$40.00**

A role-playing game that catapults you into a world of magic and monsters—doomed cities and damsels in distress. It's also an alter-ego experience. Complex factors that make up a human being are abstracted into a few basic characteristics: strength, constitution, dexterity, intelligence and ego. Via your role-playing character, you'll venture into an unknown labyrinth and be at home with the like of skeletons, zombies, spiders and wraiths. Discover for yourself the fantasy world of Apshai!

JUMPMAN
Arcade (cassette) **$40.00**

With quick wit, unparalleled speed and seven lives, Jumpman must scale ladders, girders and ropes, and fight off Alienators to diffuse a bomb that could destroy Jupiter.

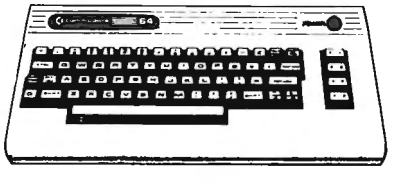
DATASOFT

POO YAN
Arcade (cassette or disk) **$29.95**

Poo Yan requires quick reflexes and fast thinking as you battle a pack of vicious, hungry wolves in order to protect helpless piglets roaming the forest. Clinging to air-filled balloons, the wolves travel up and down the forest valley as you glide up and down in a tram car. As the wolves hurl objects, you try to lure them out of battle by tossing chunks of meat at them. You also have a weapon on hand—a bow-and-arrow. For one or two players. Poo Yan includes two scenerios and colorful graphics. Joystick required.

GENESIS
Arcade (cassette or disk) **$29.95**

In the beginning insects inhabited the earth and only the strong survived. As the deadly scorpion in Genesis, your domain is patrolling the brick wall above a pit of insects. Your tail packs a powerful sting and you'll have to use it often to keep the bugs away. As bugs scale the wall and attack, you can paralyze them with a direct hit. If you miss, one of your three lives dies. As the battle intensifies, a red brick cuts off your path. Step on it and you're closer to death. However, when it flashes green, you have a chance to double your score.



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SNOOPER TROOPS #1
Reasoning Game (disk) **$39.95**

As a Snooper Trooper, your job is to find out who is trying to scare the Kim family out of their new home. But, it will take some daring detective work. You will have to question witnesses, uncover background information and even search dark houses to find the facts. Your equipment includes, a SnoopMobile, a wrist radio, the SnoopNet computer, a camera for taking Snoopshots and a notebook for keeping track of the information you uncover. Snooper Troops helps children learn to take notes, draw maps, classify and organize information, and develop vocabulary and reasoning skills. Features full color graphics and sound. For ages 10 to adult.

SIRIUS SOFTWARE

CRITICAL MASS
Mystery (disk) **$39.95**

Five of the world's largest cities will be destroyed in five days unless you, Steve Stone-Private Detective, can save it! Time is running out so you must search the five cities and the world's darkest caves in order to locate some clues. You will have to travel by any means available, from automobiles to water-skiing to uncover this mysterious threat.

REPTON
Strategy (disk) **$39.95**

Buckle-up. You're on your way to save the world of Repton with your advanced model Armageddon spacecraft. Your armory includes five nuclear bombs, a shield, and an unlimited supply of missile fire. Enemies will be attacking you from all directions. While flying through the air, the enemy will be building its base and stealing power from your city. This base is actually the Armageddon bomb that will destroy everything on the ground, sending it to a lower level. Your mission is to destroy them before they complete the bomb. Points are earned through the destruction of the enemy craft, both above and below ground.

INFOCOM

SUSPENDED
Strategy (disk) **$49.95**

In Suspended, you will strategically manipulate six robots. Each has a distinct perception of the world and offers you specific abilities. For instance, one specializes in sight, a second in hearing and a third in accessing information from computer memory banks. Through them, you will solve an intertwined myriad of realistic and original problems. Suspended continually challenges you to hone your strategies and develop new ones, to explore new areas and interactions, and in so doing, to improve your score each time you play. The game is also designed so that you can alter conditions at will before starting, effectively allowing you to customize the game whenever you desire.

WITNESS
Mystery (disk) **$49.95**

The Witness is the second game in the Infocom mystery series. From writing to personalities to settings to packaging, The Witness reflects the classic whodunits of the 1930's in incredible detail. Mystery enthusiasts will love the packaging, which includes a user's manual that looks just like a 1930's detective magazine. The rest of the packaging is also full of clues.

ZORK I
Adventure (disk) **$39.95**

The great underground empire confronts you with perils and predicaments ranging from the mystical to the macabre as you strive to discover the Twenty Treasures of Zork and escape with them and your life. First in the Zork Trilogy.

ZORK II
Adventure (disk) **$39.95**

In Part Two of the Great Underground Empire you are placed at the entrance to a long-hidden region of the empire, a region under the control of the Wizard of Frobozz. Many strange tales have been told of fabulous treasures, exotic creatures, and diabolical puzzles to be found here. The aspiring adventurer had best equip himself with light (for the caverns are dark and gloomy) and weapons (for some of the inhabitants are unfriendly).

ZORK III
Adventure (disk) **$39.95**

The Dungeon Master is the final test of your courage and wisdom in the Zork Trilogy. Your odyssey culminates in an encounter with the Dungeon Master himself and your destiny hangs in the balance.

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SOFTSEL TI PROFESSIONAL BUSINESS AND RECREATION HOT LIST™

LOTUS DEVELOPMENT CORP.

1-2-3
Spreadsheet/Graphics/Database **$495.00**

The first software package that combines spreadsheet, graphics and information management functions into a single software program. Allows you to move information from data files to spreadsheet analysis to graphic display in a matter of seconds, all without changing disks or re-entering data. Easy to use formulas can be entered in English and the program makes maximum use of the computer's function keys, including HELP! Features include 256 columns and 2048 rows (twice the memory of other software), functions such as present, net present and future values, variance, standard deviation and internal rate of return. 1-2-3 can produce a bar chart, stacked bar chart, line or symbol graph, XY graph or pie chart. With 1-2-3 you can sort and extract a sales report that's compiled alphabetically and rearrange it numerically by salary, commission, territory – any way you want it, in less than a second. Requires two double-sided disk drives.

SOFTWARE PUBLISHING CORPORATION

PFS: FILE
Database **$140.00**

The PFS Software Series is designed to solve personal information management needs. PFS FILE, the first program in the series, lets you create a data file by simply painting a form on the screen. No field formats, record sizes, or complex syntax strings are required. Key PFS·FILE features include "free form" screen design, entry, searching, and editing. Fast primary item form access. Multiple (up to 32) page forms allowed. Multiple line data items (up to a page each). Can print selected items from information in forms (such as mailing labels or phone lists). Up to 1000 one page forms can be stored on a single diskette.

PFS: REPORT
Report Generator **$125.00**

The PFS: Software Series is designed to solve personal information management needs. PFS REPORT sorts, calculates, totals formats, and prints the information in your PFS files. Up to nine columns can be printed, with the first two automatically sorted either numerically or alphabetically. Up to three columns can be derived from data in other columns. PFS REPORT even automatically formats and is used without any programming! Features include: calculating subtotals, totals, subaverages, averages, subcounts and counts on any column; up to nine columns per page; automatically formats the print out by searching for the longest item in each column and setting the width accordingly (up to 160 columns); pre-defined report specifications can be saved to disk and used repeatedly; user definable report title and column headings; 100% compatible with PFS FILE.

INFORMATION UNLIMITED SOFTWARE

EASY FILER
Database
(Requires 96K, MSDOS) **$400.00**

This advanced database manager and report generator lets the user store, sort, manipulate and retrieve company records, and produce timely, effective reports. Easy to use and simple to learn, Easy Filer allows you to custom-design an electronic file cabinet, as well as quickly enter, change and sort the information you want.

EASY PLANNER
Finance **$250.00**

Easy Planner gives the user programmability and interactive worksheet capability. "What-if" analysis is easy, flexible and productive. It works with Easy Writer II for customized financial presentations. If you perform repetitive tasks such as price quotations or updates to budget forecasts, you can easily program a sequence of standard worksteps. Programs can be created to consolidate multiple worksheets, or perform calculations conditionally. Program steps can be used to compare values and branch to another section of the program, load another workstep program from disk, and load a block of values from another sheet. Practical applications include reports for Break-Even Analysis, Revenue and Profit Projections and Price Projections.

ASHTON-TATE

THE FINANCIAL PLANNER
Finance
(Available in MSDOS or CP/M-86 format) **$700.00**

A system for the construction of spreadsheet applications and financial planning language. Since it is a development system, users can develop their own reporting applications that involve multiple models and reports. The Planner is flexible, allowing you complete control over the order of processing. A separate report writer formats any number of reports. In addition, it allows you to perform complex consolidations supporting any number of levels in a hierarchy and performs goal-seeking. Key applications include: profit and loss forecasts, budget planning, cash flow management, real estate development analysis, capital investment analysis, and many others.

MICRO PRO

WORDSTAR
Word Processor
(Available in MSDOS or CP/M-86 format) **$495.00**

Easy powerful incredibly versatile! With WordStar what you see is what you get. The screen shows you exactly what will be printed. And WordStar's numerous on-screen instructions make it simple to use its many capabilities. WordStar now comes with a completely rewritten easier-to-understand manual. Also available are a Training Guide for beginners, a Reference Card listing WordStar commands and a set of adhesive labels that show WordStar functions on your keyboard.

MAILMERGE
WordStar Utility
(Available in MSDOS or CP/M-86 format) **$250.00**

MailMerge is a powerful, multi-purpose file-merging program used with WordStar. One of its most popular applications is producing personalized form letters. MailMerge lets you combine a file of names and addresses with a WordStar file containing a form letter. You can even insert special words and phrases – unique to each addressee – into the body of each letter. Other uses for MailMerge include: creating invoices, printing mailing labels and producing "boilerplate" legal documents out of many different standard paragraphs.

SPELLSTAR
WordStar Utility
(Available in MSDOS or CP/M-86 format) **$250.00**

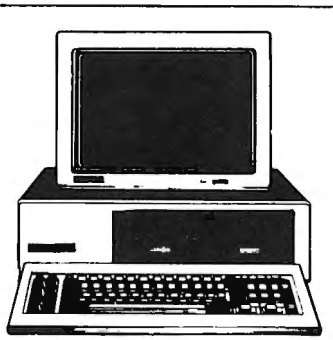
SpellStar is a spelling checker program that works with WordStar, saving you countless hours of proofreading. SpellStar checks your text against its 20,000 word dictionary-on-a-disk. You can add your own words to SpellStar's dictionary or create any number of supplemental dictionaries. Because SpellStar operates within the WordStar program, you get to see your mistakes highlighted in context. And you're always only one keystroke from full word processing.

DATASTAR
Database Utility
(Available in MSDOS or CP/M-86 format) **$295.00**

DataStar is a high-powered data entry and retrieval program comprehensive, versatile and fast. DataStar features power and facilities usually found only on large key-to-disk systems. And it gives you remarkable flexibility in designing your own data forms to match your exact needs before entering data. The program includes sample forms to guide you.

CALCSTAR
Spreadsheet
(Available in MSDOS or CP/M-86 format) **$195.00**

Use CalcStar to answer those "what if" questions you face daily in business. Designed as an electronic spread sheet and financial modeling program, CalcStar calculates solutions to complex numerical problems in business and finance. It helps you make budget plans and sales forecasts with greater speed and accuracy. And it projects figures into the future so you can see how the decisions you make today will affect your profits in the future. CalcStar also joins with WordStar to combine spread sheet and word processing capabilities. For example, you'll gain printing options like boldface and underlining and the ability to insert sections of CalcStar spread sheets into your word processing. Extremely handy for such things as budget reports.



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INFOCOM

ZORK I
Adventure **$49.95**

The great underground empire confronts you with perils and predicaments ranging from the mystical to the macabre as you strive to discover the Twenty Treasures of Zork and escape with them and your life. First in the Zork Trilogy.

ZORK II
Adventure **$49.95**

In Part Two of the Great Underground Empire you are placed at the entrance to a long-hidden region of the empire, a region under the control of the Wizard of Frobozz. Many strange tales have been told of fabulous treasures, exotic creatures, and diabolical puzzles to be found here. The aspiring adventurer had best equip himself with light (for the caverns are dark and gloomy) and weapons (for some of the inhabitants are unfriendly).

ZORK III
Adventure **$49.95**

The Dungeon Master is the final test of your courage and wisdom in the Zork Trilogy. Your odyssey culminates in an encounter with the Dungeon Master himself and your destiny hangs in the balance.

DEADLINE
Mystery **$59.95**

You are about to investigate one of the deadliest plots in the annals of crime. A locked door. A dead man. And 12 hours to solve the murder. Ahead of you, a treacherous web of motives and suspicion. Only by bringing into play your utmost skills of logic and intuition can you successfully solve the case.

WITNESS
Mystery **$59.95**

The Witness is the second game in the Infocom mystery series. From writing to personalities to settings to packaging, The Witness reflects the classic whodunits of the 1930's in incredible detail. Mystery enthusiasts will love the packaging, which includes a user's manual that looks just like a 1930's detective magazine. The rest of the packaging is also full of clues.

SUSPENDED
Strategy **$59.95**

In Suspended you will strategically manipulate six robots. Each has a distinct perception of the world and offers you specific abilities. For instance, one specializes in sight, a second in hearing and a third in accessing information from computer memory banks. Through them you will solve an intertwined myriad of realistic and original problems. Suspended continually challenges you to hone your strategies and develop new ones, to explore new areas and interactions, and in so doing, to improve your score each time you play. The game is also designed so that you can alter conditions at will before starting, effectively allowing you to customize the game whenever you desire.

STARCROSS
Adventure **$49.95**

The year is 2186. You are destined to rendezvous with a gargantuan starship from the outer fringes of your galaxy. But first you must succeed in gaining entry to its mysterious interior. Once you enter, you will face other-worldly beings both helpful and harmful. Only you can meet the challenge that was issued eons ago, from light years away.

BLUECHIP SOFTWARE

MILLIONAIRE
Strategy **$59.95**

Millionaire is a fun, complex game and a real education in the art of playing the stock market. The object is to become a millionaire in the stock market. At first this is done solely through investments, but as the player's fortune builds, options expand. A game takes about two hours and is played a "week" at a time over the course of 77 weeks. The same kind of information used by real-life investors is provided to help the player make informed decisions: charts of overall market activity over an extended period of time, charts of the performance of select industry segments, tables showing highs, lows and the most recent price for each stock in the news. It keeps complete records of performance and holdings for up to 14 players.

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Easy, powerful and incredibly versatile The screen shows you exactly what will be printed Numerous on-screen instructions make it simple to use its many capabilities The IBM Personal Computer version also includes a variety of editing functions pre-assigned to the PC's programmable function keys, highlighted menus and status lines, and full use of the PC's cursor keys Comes with a complete, easy-to-understand manual, a Training Guide for beginners, and a Reference Card listing WordStar commands

MAILMERGE
WordStar Form Letter Utility **$250.00**

A powerful multi-purpose file merging program, used with WordStar One of its most popular applications is producing personalized form letters at a fraction of the time and expense of individually typed letters Lets you combine a file of names and addresses with a WordStar file containing a form letter You can even insert special words and phrases, unique to each addressee, into the body of each letter Other uses include creating invoices, printing mailing labels, and producing "boilerplate" legal documents out of many different standard paragraphs

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ASHTON-TATE
D BASE II
Database **$700.00**

dBase II is an assembly lanaguage relational data management system It's an information handler, not a file handler You don t have to get involved with set, lists, pointer and other complexities Data entry is easy, and it can be programmed so that even untrained personnel can run applications It has a full English-like language of its own Changing, extending or modifying of databases takes only a few simple commands Creating a new database is simply a matter of naming it, then deciding how big to make the fields and what kind of data to keep in them Entire databases can be moved, copied, or otherwise manipulated without having to re-enter data dBase II doesn't make you change the way you do business and lets you use your existing forms With dBase II you can extend the power of your microcomputer to jobs that were previously reserved for larger mainframes, such as General Ledger, Journal of Accounts, Payroll, Check Management and Writing, Document Cross Referencing, Accounts Receivable, and Accounts Payable

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PFS: GRAPH
Business Graphics **$140.00**

PFS Graph gives you presentation quality bar charts line graphs and pie charts in color or black and white Graph is the software package for the professional who needs graphs or charts in a hurry but doesn't want to become a computer programmer Just specify the kind of graph or chart you want and enter your information Graph does the rest Requires MS/DOS and IBM Color Graphics card

PBL CORPORATION
THE PERSONAL INVESTOR
Stock Portfolio (128K required) **$195.00**

The Personal Investor is a portfolio management, news terminal and quotation system designed to allow the private investor to take control of his securities investments. Connect your computer with the Dow Jones News/Retrieval service to update the value of your portfolio, retrieve business news and information and collect quotations. This service gives you instant access to the Wall Street Journal, Barrons, Dow Jones/News Service, stock/option/bond quotations, sports, weather and the Acadmic American Encyclopedia. The Portfolio Manger records and reports on stock purchases, commissions, dividend yields and sales transactions. It automatically calculates splits, gains and losses, and each purchase is accounted for individually. Quotations on a pre-assigned list of stocks can be automatically collected and saved from the Dow Jones, then viewed or printed Requires DC Hayes Micromodem or an Apple Com Card and an acoustic modem

HOWARD SOFTWARE SERVICES
TAX PREPARER 1983
Finance **$250.00**

The 1983 edition of the Tax Preparer makes the preparation of tax returns easier than ever New features for the novice include a built-in road map for error-free preparation, fool-proof recovery from operator error expanded manual with step-by-step tutorials, fully automatic computations based on IRS regulations and built-in calculator for easier data entry New features for the professional include instant access to any section of any form rapid movement up, down, in, and out of any form, a new disk library system for managing hundreds of clients, a summary letter for client billing two-printer option and manual override for unusual tax situations

MICRO LAB
THE TAX MANAGER
Personal Tax Management **$250.00**

Use the Tax Manager to help you prepare your taxes You can include the cost of this program and part of the cost of your computer as a deduction You don t have to be an accountant to understand it Enter your tax information and it will compute and print most of your federal income tax schedules When tax laws change, you can get an update if you also buy Micro Lab's Extended Warranty Plan

CONTINENTAL SOFTWARE
HOME ACCOUNTANT PLUS
Personal Finance **$150.00**

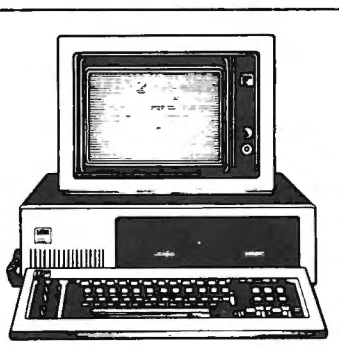
A complete home financial management program Program includes checkbook balancing, budgeting, printing of checks, a personal general ledger and a net worth statement Full high resolution graphing of all assets and liabilities Maintains a history of all transactions

MICROSOFT
MULTIPLAN
Financial Planning **$250.00**

MultiPlan is a software program that turns your microcomputer into an answer machine It starts as an open worksheet of rows and columns You build your worksheet on this grid by entering titles, names, numbers or formulas, building a worksheet for a particular problem You establish the logic Multiplan assigns the time-consuming calculations to the computer A completely interactive electronic worksheet Multiplan is written in English There are no confusing codes The worksheet is 63 columns wide by 255 rows deep You can open multiple windows to other areas of the worksheet Use it for business analysis, forecasting technical and engineering projections and for your household and personal finances

FLIGHT SIMULATOR
3-D Simulation **$49.95**

A real-time, 3-D program that simulates a pilot's sense of flying using the television monitor as the pilot's windshield for a visual field The flight instruments are displayed on the lower half of the screen The player actually flies by using keyboard or paddle controls to interact with a 3-D data set at a frame rate of between three and five frames per second



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ZORK II
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In Part Two of the Great Underground Empire, you're placed at the entrance to a long-hidden region of the empire, a region under the control of the Wizard of Frobozz Many strange tales have been told of fabulous trasures, exotic creatures and diabolical puzzles to be found here The aspiring adventurer had best equip himself with light (for the tunnels are dark and gloomy) and weapons (for some of the inhabitants are unfriendly)

ZORK III
Adventure **$39.95**

The Dungeon Master is the final test of your courage and wisdom in the Zork Trilogy Your odyssey culminates in the Treasure Room with all the treasures of Zork at your disposal, including a controlling interest in Frobozzco International You will speak with, or perhaps even see the omniscient Dungeon Master himself Wonderfully detailed and puzzling Zork III is separate and complete unto itself, however it is best played as part three of the Zork Trilogy

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BRODERBUND SOFTWARE
SERPENTINE
Arcade **$34.95**

An a-maze-ing game about hunger and survival You control a multipede who must pursue other multipedes through a dense maze (Of course they are also pursuing you!) Sneak up behind them and they re your lunch* Eat em quick before they split into smaller sections Meet them head-to-head and it s all over for you Frogs and spiders appear from time to time just to keep the game interesting Features hi-res screen and smooth animation

EPYX/AUTOMATED SIMULATIONS
TEMPLE OF APSHAI
Adventure **$40.00**

A role-playing game that catapults you into a world of magic and monsters—doomed cities and damsels in distress It is also an alter-ego experience Complex factors that make up a human being are abstracted into a few basic characteristics strength constitution dexterity, intelligence and ego Via your role-playing character, you ll venture into an unknown labyrinth and be at home with the like of skeletons, zombies spiders and wraiths Discover for yourself the fantasy world of Apshai! Requires IBM Color Graphics Card

CONTINENTAL SOFTWARE

THE HOME ACCOUNTANT
Personal Finance
(Atari 400/800, 48K disk) **$74.95**

A complete home financial management program. Program includes checkbook balancing, budgeting, printing of checks, a personal general ledger and a net worth statement. Full high resolution graphing of all assets and liabilities. Maintains a history of all transactions.

TAX ADVANTAGE
Tax Accounting
(Atari 400/800, 48K disk) **$59.95**

The Tax Advantage is a fast and easy-to-use program that takes you line-by-line through Form 1040 and the other most common tax forms. It asks for information in plain English and you type in the numbers. The Tax Advantage does complex operations like income averaging with a few, simple commands. And, as tax laws change, you can easily update the tax tables. In addition, it automatically computes your taxes with each entry you make.

ATARI, INC.

THE BOOKKEEPER
Accounting
(Atari 400/800, 48K disk) **$149.95**

A powerful professional accounting system tailored specifically for the needs of the home office. The Bookeeper generates financial reports automatically, including Profit and Loss Statements, Balance Sheets, Accounts Receivable, Accounts Payable, and General Ledger. Self-guiding entry 'prompts' and color-coded screens get you through your books quickly and easily. BASIC cartridge and 810 Disk Drive Required.

THORN EMI

HOME FINANCIAL MANAGEMENT
Personal Finance
(Atari 400/800, 16K cassette) **$29.95**

Set up budgets for the various catagories of income and expenditure for each month throughout the year: mortgage, car, holidays, etc. The computer will tell you your budget balance for each month and at the end of the year. All you do is enter your actual income and your exact financial position will come up either in figures or as a bar chart. All the details can be stored on cassette for you to call up at any time.

VISICORP

VISICALC
Spreadsheet
(Atari 800, 32K disk) **$250.00**

VisiCalc displays a huge 'electronic worksheet' that replaces paper, pencil and calculator to automatically solve nearly any number problem. The wallsized worksheet can contain more than six typewritten pages of information. Just type in labels, numbers and mathematical formulas and VisiCalc instantly calculates the results. Then play "What if ?"— change one variable and VisiCalc automatically recalculates the entire problem so you can see the effect.

Features include: Forecasting and Projecting: Cash flow, sales, inventory, production and purchasing levels, product/market growth, income statements, balance sheets; Analyzing: stock fluctuations, P&L statements, structural designs, real estate investments, personal expenditures, buy vs. lease, agricultural crop returns, etc.; Computing: trust fund reports, seller's and buyer's closing costs, pricing, taxes, proposals, job cost and material estimates, engineering and scientific data, classroom grades, baseball team statistics, etc.; Planning: new business ventures, budgets, workloads, advertising media schedules, office space expansion, five-year plan, pricing—in fact, nearly any business plan and financial model;

Powerful Recalculation feature lets you change any number or formula and immediately all numbers affected by that change are recalculated and displayed. Replicate feature duplicates any entry—label, number or formula—anywhere else on the worksheet without you having to retype it over and over; "Window" feature splits the display into two parts or "windows," either horizontally or vertically, to view separate portions of the worksheet. Variable Format sets any or every number to integer, general, dollars and cents, left or right justified, or histogram (simple graph) with just three keystrokes. Automatically Calculates simple math functions (+, -, x, /) and built in formulas (Sum, Average, Net Present Value, Counting, Minimum, Maximum).

SYNAPSE SOFTWARE

FILE MANAGER 800+
Database
(Atari 400/800, 40K, 810 disk drive) **$99.95**

A powerful personal and professional tool that is extremely easy-to-use. Filemanager+ provides user-defined formats, index and sort on any field at any time, ultra fast sort and wild card search. In addition, Filemanager+ offers twenty fields per record, full screen input and edit and search on any combination of fields. Also available are lists and mailing labels, full mathematical capability, computed, constant, and dollar fields and much more. Use Filemanager+ to create mailing lists, inventory and business records, and customer lists all customized to your own needs. Requires 810 disk drive.

DATASOFT

MONEY WIZARD
Personal Finance
(Atari 400/800, 48K disk) **$69.95**

Money Wizard is a home financial management package with simple screens and easy-to-follow directions. It allows the user to define, set up a budget and monitor up to 80 accounts, enter current dollar values and organize and maintain current account values. It can update and change budgets, reconcile your checkbook and list outstanding checks, monitor up to 35 creditors, calculate net worth and liquidity rations and flag tax-sensitive accounts to be totaled at year end.

ZAXXON
Arcade Game
(Atari 16K disk) **$39.95**

The official home computer version of the highly popular arcade game. Unique color graphics surround you as you pilot your aircraft through a 3-dimension-like battlefield complete with enemy aircraft, anti-aircraft tanks, and nerve-shattering sound effects. For one or two players.

POO YAN
Arcade Game
(Atari 400/800, 32K cassette or disk) **$29.95**

Poo Yan requires quick reflexes and fast thinking as you battle a pack of vicious hungry wolves in order to protect helpless piglets roaming the forest. Clinging to air-filled balloons, the wolves travel up and down the forest valley as you glide up and down in a tram car. As the wolves hurl objects, you try to lure them out of battle by tossing chunks of meat at them. You also have a weapon on hand—a bow-and-arrow. For one or two players. Poo Yan includes two scenerios and colorful graphics. Joystick required.

SPINNAKER SOFTWARE

THE MOST AMAZING THING
Adventure
(Atari 400/800, 48K disk) **$39.95**

As pilot of the B-Liner (a cross between a hot air balloon and a dune buggy), players must use strategy and learning skills in order to discover the location and identify The Most Amazing Thing. In their search, players learn how to fly the B-Liner; use their jetpack, trade with Metallican robots; and communicate with the Darksome Mire cultures for clues to locate The Most Amazing Thing.

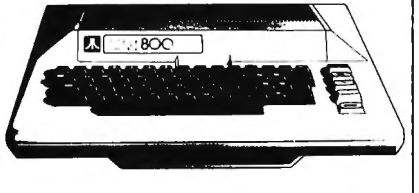
SNOOPER TROOPS #1
Educational Game
(Atari 400/800, 48K disk) **$44.95**

As a Snooper Trooper, your job is to find out who is trying to scare the Kim family out of their new home. But, it will take some daring detective work. You will have to question witnesses, uncover background information and even search dark houses to find the facts. Your equipment includes, a SnoopMobile, a wrist radio, the SnoopNet computer, a camera for taking Snoopshots and a notebook for keeping track of the information you uncover. Snooper Troops helps children learn to take notes, draw maps, classify and organize information, and develop vocabulary and reasoning skills. Features full color graphics and sound. For ages 10 to adult.

CBS ELECTRONICS

K-RAZY SHOOT OUT
Arcade
(Atari 400/800, 8K cartridge) **$39.95**

Advance your Space Commander into the Alien Control Sectors, eliminate the Alien forces and escape from the sector. There are seven sectors—each level representing a greater degree of difficulty—each more challenging to your Space Commander. For example, enter Sector 1 and you have three Space Commanders to eliminate the Alien Droids using laser weaponry. The greater your mental and physical skill, the further your advancement into the sectors. Go from an inexperienced Goon to a qualified Marksman. These Alien Control Sectors are created at random with millions of combinations of barriers and escape routes. Therefore, no two games or game levels are identical.



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Strategy
(Atari 400/800, 32K disk) **$49.95**

In Suspended, you will strategically manipulate six robots. Each has a distinct perception of the world and offers you specific abilities. For instance, one specializes in sight, a second in hearing and a third in accessing information from computer memory banks. Through them, you will solve an intertwined myriad of realistic and original problems. Suspended continually challenges you to hone your strategies and develop new ones, to explore new areas and interactions, and in so doing, to improve your score each time you play. The game is also designed so that you can alter conditions at will before starting, effectively allowing you to customize the game whenever you desire.

WITNESS
Mystery
(Atari 400/800, 32K disk) **$49.95**

The Witness is the second game in the Infocom mystery series. From writing to personalities to settings to packaging, The Witness reflects the classic whodunits of the 1930's in incredible detail. Mystery enthusiasts will love the packaging, which includes a user's manual that looks just like a 1930's detective magazine. The rest of the packaging is also full of clues.

SIRIUS SOFTWARE

TYPE ATTACK
Typing Game
(Atari 400/800, 48K disk) **$39.95**

Learn to type quickly and accurately and have fun, too. In this fast action educational game, the alphabet attacks from the sky. A typewriter keyboard armed skyward will repel the plummeting letters. For example if the letters A, Z, V and E began to fall, their attack could be halted by typing out A, Z, V and E on the typewriter keyboard. Features dozens of pre-programmed lessons and a real-time words per minute bar.

CRITICAL MASS
Strategy
(Atari 400/800, 48K disk) **$39.95**

On June 1 at 10 a.m., the United Nations received the following message: "Good morning. Just thought I'd drop a line to let you know that in exactly nine days, I'll be destroying the world's five largest cities with thermalnuclear weapons. It ought to be a real blast! Sorry, but that's all I can tell you. Thanks for your time, and have a nice day!" At 10:03 a.m., you received the following assignment: Stop This Lunatic! Critical Mass is an adventure game that combines an innovative plot with colorful graphics, clever music and challenging arcade-action sequences. A clock adds a whole new dimension to riddle solving. You'll have to think about plane schedules, business hours and international time. You'll travel all over the world via plane, subway and taxi. Try and prevent this heinous crime and save 50 million lives.

BRODERBUND SOFTWARE

BANK STREET WRITER
Word Processor
(Atari 400/800, 48K disk) **$69.95**

Bank Street Writer provides general word processing capabilities in a simple, uncomplicated program that anyone can have up and running in less than ten minutes. It has global search and replace, moves sections of text around according to your will and it puts them back if you change your mind. It indents and centers, though it doesn't justify, uses lower and upper case and highlights text.

CHOPLIFTER
Arcade Game
(Atari 400/800 cartridge or disk) **$34.95**

Your mission is to rescue hostages from behind enemy lines. You must maneuver your helicopter through a sky full of enemy jet fighters and air mines. Once you've landed, hostages will run toward you through a barrage of tank fire and air-to-ground missiles while you try to hold off the enemy. Each flight back to safety is particularly nerve-wracking, since a full load of hostages will perish if you go down!

EPYX/AUTOMATED SIMULATIONS

TEMPLE OF APSHAI
Strategy
(Atari 400/800, 32K cassette or disk) **$40.00**

The first in the Dunjonquest series, Temple is a roleplaying game that catapults you into a world of magic and monsters, doomed cities and damsels in distress. Complex factors that make up a human being are abstracted into a few basic characteristics: strength, constitution, dexterity, intelligence, and ego. You'll be a character within and a reader of the epic you're actually helping to create. In this labyrinth, the choice is always yours. Fight or flee, parry or thrust, slay the monsters or see if they'll listen to reason.

PHAROH'S CURSE
Adventure
(Atari 400/800, 32K cassette or disk) **$34.95**

A graphic adventure worthy of the most intrepid adventurer. For three thousand years the tomb has been a mystery and deathtrap. Untold treasure awaits guarded by all manner of danger including the pharaoh and the guardian mummy.

CONTINENTAL SOFTWARE

THE HOME ACCOUNTANT
Personal Finance
(Apple II, 48K, Applesoft in ROM) **$74.95**

A complete home financial management program. Program includes checkbook balancing, budgeting, printing of checks, a personal general ledger and a net worth statement. Full high resolution graphing of all assets and liabilities. Maintains a history of all transactions.

MICROPRO

WORDSTAR
Word Processor
(req. Z-80 card & 80-column board) **$395.00**

Easy, powerful, incredibly versatile! With WordStar, what you see is what you get. The screen shows you exactly what will be printed. And WordStar's numerous 'on-screen' instructions make it simple to use its many capabilities. WordStar now comes with a completely rewritten, easier-to-understand manual. Also available are a Training Guide for beginners, a Reference Card listing WordStar commands and a set of adhesive labels that show WordStar functions on your keyboard.

MICROSOFT

MULTIPLAN
Financial Planning
(Apple II, 64K) **$250.00**

A software program that turns your microcomputer into an answer machine. It starts as an open worksheet of rows and columns. You build your worksheet on this grid by entering titles, names, numbers or formulas, building a worksheet for a particular problem. You establish the logic. Multiplan assigns the time-consuming calculations to the computer. A completely interactive electronic worksheet, Multiplan is written in English. There are no confusing codes. The worksheet is 63 columns wide by 255 rows deep. You can open multiple windows to other areas of the worksheet. Use it for business analysis, forecasting, technical and engineering projections and for your household and personal finances. Requires a Z-80 card.

SORCIM

SUPERCALC II
Spreadsheet
(Z-80 card & 80-column board req.) **$295.00**

SuperCalc makes it possible for decision makers to manipulate data quickly, setting up exactly what's necessary for in-depth analysis and modeling. It all takes place on the SuperCalc spreadsheet simulator screen. You can examine and alter numbers and text within a grid that can cover up to 63 columns and 254 rows of data. It's valuable for "what if" and "now what" questions. It only takes a moment to enter the new figure in the appropriate column and SuperCalc automatically calculates the rest of the spreadsheet. It's been designed to use the minimum number of commands to get the maximum power, and it's self explanatory: just press the "?" key if you need assistance.

ASHTON-TATE

D BASE II
Database
(req. Z-80 card & 80-column board) **$700.00**

dBase II is an assembly language relational database management system which is an information handler, not a file handler. You don't have to get involved with sets, lists, pointers, and other complexities. Data entry is easy, and it can be programmed so that even untrained personnel can run applications. It has a full English-like language of its own. Changing, extending, or modifying of databases takes only a few simple commands. Creating a new database is simply a matter of naming it, then deciding how big to make the fields and what kind of data to keep in them. Entire databases can be moved, copied, or otherwise manipulated without having to re-enter data. dBase II doesn't make you change the way you do business and lets you use your existing forms. With dBase II you can extend the power of your microcomputer to jobs that were previously reserved for larger mainframes such as General Ledger, Journal of Accounts, Payroll, Check Management and Writing, Document Cross Referencing, Accounts Receivable, Accounts Payable, etc.

HAYDEN BOOK COMPANY

PIE WRITER 2.2
Word Processor
(Apple II, 48K) **$149.95**

Pie Writer is a reworking of Apple Pie. Several new commands and functions have been added, and status information is now provided to indicate the name of the file being used, the length of that file and the amount of memory remaining on that disk. Pie Writer has two display modes. The first, without the use of an 80-column card, allows a display of 38 columns across the screen; the second, with a card installed, displays 78 columns of text. Both allow up to 21 lines of text on the screen at one time. A manual is offered, supplying sample lesson plans in a clear and concise tutorial, and a reference manual is provided that allows the user to find the specific command or series of commands needed to perform a function.

APPLIED SOFTWARE TECHNOLOGY

VERSAFORM
Form Processor
(Apple II, II+, 64K) **$389.00**

A powerful system specifically designed for total forms processing on a personal computer. It requires no computer background to use—if you can design a rough form with a pen and ruler, you can instruct VersaForm to automate your business records. This system operates within the familiar structure and work flow of existing pre-printed forms, making it possible to use your computer with only minimal changes in the way you now do things. VersaForm can even be instructed to catch mistakes people often make with both forms and computers. Purchase orders, invoices, statements, sales orders, personnel index forms—the documents that all businesses require—can now be processed by VersaForm. It also performs many functions usually assigned to data base managers and file management systems such as directories, name lists, inventory management, and shop floor reports. Once the information has been entered and processed, it can be sent back to a pre-printed form or blank paper that becomes its own form. Management reports can be produced summarizing information from the completed forms.

MICRO LAB

TAX MANAGER
Personal Tax Management
(Apple II, 48K, Applesoft in ROM) **$180.00**

Use the Tax-Manager to help you prepare your taxes. You can include the cost of this program and part of the cost of your computer as a deduction. You don't have to be an accountant to understand it. Enter your tax information and it will compute and print most of your federal income tax schedules. When tax laws change, you can get an update if you also buy Micro Lab's Extended Warranty Plan.

HOWARD SOFTWARE

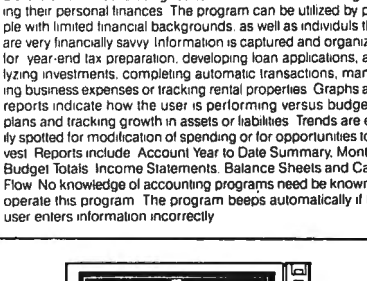
TAX PREPARER
Finance
(Apple II, 48K) **$225.00**

The 1983 edition of the Tax Preparer makes the preparation of tax returns easier than ever. New features for the novice include a built-in road map for error-free preparation, fool-proof recovery from operator error, expanded manual with step-by-step tutorials, fully automatic computations based on IRS regulations and built-in calculator for easier data entry. New features for the professional include instant access to any section of any form, rapid movement up, down, in, and out of any form, a new disk library system for managing hundreds of clients, a summary letter for client billing, two-printer option and manual override for unusual tax situations. The old features are still there, including on-screen facsimiles, low-cost updates, tax bookkeeping, printing on official 1040s, printing of IRS facsimiles, auto-linking, state supplements and interactive or batch printing.

MONOGRAM

DOLLARS AND SENSE
Personal Finance
(Apple II, 48K) **$100.00**

Dollars and Sense is designed to assist consumers in organizing their personal finances. The program can be utilized by people with limited financial backgrounds, as well as individuals that are very financially savvy. Information is captured and organized for year-end tax preparation, developing loan applications, analyzing investments, completing automatic transactions, managing business expenses or tracking rental properties. Graphs and reports indicate how the user is performing versus budgets/plans and tracking growth in assets or liabilities. Trends are easily spotted for modification of spending or for opportunities to invest. Reports include: Account Year to Date Summary, Monthly Budget Totals, Income Statements, Balance Sheets and Cash Flow. No knowledge of accounting programs need be known to operate this program. The program beeps automatically if the user enters information incorrectly.



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SILICON VALLEY SYSTEMS

WORD HANDLER
Word Processor
(Apple II, 48K) **$59.95**

The Word Handler is a single-key command word processing program that runs without hardware modifications. It gives you full line capability on the screen, unlimited tabs, incremental spacing, vertical spacing and a two character format. Includes lower and upper case, underlining, superscript, bold and even and normal justification.

VISICORP

VISICALC 3.3
Spreadsheet
(for Apple IIe) **$250.00**

VisiCalc displays a huge 'electronic worksheet' that replaces paper, pencil and calculator to automatically solve nearly any number problem. The wall-sized worksheet can contain more than six typewritten pages of information. Just type in labels, numbers and mathematical formulas and VisiCalc instantly calculates the results. Then play "What if ?"—change one variable and VisiCalc automatically recalculates the entire problem so you can see the effect.

PBL CORPORATION

THE PERSONAL INVESTOR
Stock Portfolio
(Apple II, 48K) **$145.00**

The Personal Investor is a portfolio management, news terminal and quotation system designed to allow the private investor to take control of his securities investments. Connect your computer with the Dow Jones News/Retrieval service to update the value of your portfolio, retrieve business news and information and collect quotations. This service gives you instant access to the Wall Street Journal, Barrons, Dow Jones/News Service, stock/option/bond quotations, sports, weather and the Acadmic American Encyclopedia. The Portfolio Manger records and reports on stock purchases, commissions, dividend yields and sales transactions. It automatically calculates splits, gains and losses, and each purchase is accounted for individually. Quotations on a pre-assigned list of stocks can be automatically collected and saved from the Dow Jones, then viewed or printed. Requires DC Hayes Micromodem or an Apple Com Card and an acoustic modem.

INFOCOM

STARCROSS
Adventure
(Apple II, 48K) **$39.95**

The year is 2186. You are destined to rendezvous with a gargantuan starship from the outer fringes of your galaxy. But first you must succeed in gaining entry to its mysterious interior. Once you enter, you will face other-worldly beings both helpful and harmful. Only you can meet the challenge that was issued eons ago, from light years away.

BRODERBUND SOFTWARE

BANK STREET WRITER
Word Processor
(Apple II, 48K) **$69.95**

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DATASOFT

ZAXXON
3-D Arcade
(Apple II, 48K) **$39.95**

The official home computer version of the highly popular arcade game. Unique color graphics surround you as you pilot your aircraft through a 3-dimension-like battlefield complete with enemy aircraft, anti-aircraft tanks, and nerve-shattering sound effects. For one or two players.

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9	**VisiCalc** (VisiCorp, spreadsheet) AP, VIC, AT, IBM	**$250.00**
10	**Homeword** (Sierra On-Line, word processor) AP	**$49.95**
11	**PFS: Write** (Software Publishing, word processor) IBM, APe	**$140.00**
12	**Multimate** (Softword Systems, word processor) IBM	**$495.00**
13	**Multiplan** (Microsoft, spreadsheet) AP, CP/M, IBM	**$250.00**
14	**Microsoft Word** (Microsoft, word processor) IBM	**$375.00**
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19	**Tax Preparer 1983** (Howard) AP, IBM	**$250.00**
20	**Home Financial Management** (Thorn EMI, personal finance) AT	**$29.95**
21	**Friday!** (Ashton-Tate, database) AP, CP/M, IBM	**$295.00**
22	**Heswriter** (HesWare, word processor) VIC, C64	**$44.95**
23	**D.B. Master** (Stoneware, database) AP/IBM	**$350.00/595.00**
24	**Check Ease** (T & F, personal finance) VIC, C64	**$34.95**
25	**Pie Writer** (Hayden, word processor) AP, IBM	**$149.95**
26	**Screenwriter II** (Sierra On-Line, word processor) AP	**$129.95**
27	**InfoStar** (MicroPro, database) AP, CP/M, IBM	**$495.00**
28	**Word Handler** (Silicon Valley, word processor) AP	**$59.95**
29	**Format II** (Kensington) AP	**$150.00**
30	**Quick Code** (Fox & Geller, program generator) AP, CP/M, IBM	**$295.00**
31	**Multiplan** (HesWare, spreadsheet) C64	**$99.95**
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34	**Letter Perfect** (L.J.K., word processor) AP, AT	**$149.95**
35	**Versaform** (Applied Software Tech., database) AP, IBM	**$389.00**

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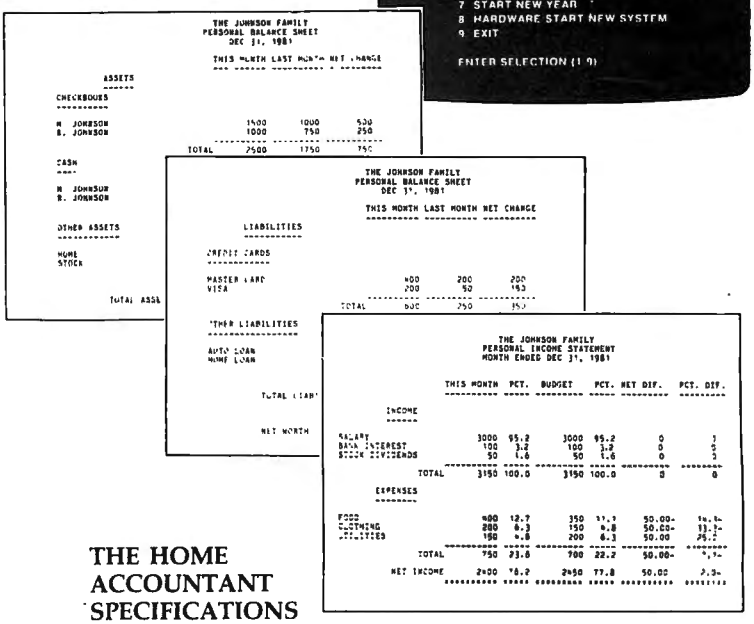
The Home Accountant™



FOR THE HOME: In today's turbulent financial world, knowing *where you stand* financially is not a luxury but an absolute necessity. If you own an Apple, IBM, Atari, Commodore 64 or a TRS-80 Model III, **The Home Accountant** is *the* program to assist you in getting your financial house in order and keeping it there.

FOR THE PROFESSIONAL AND SMALL BUSINESSMAN: For those professionals and/or small businessmen whose needs do not require a *full* computerized accounting system (i.e. accounts receivable, accounts payable, etc.), **The Home Accountant** provides the ideal solution for keeping track of your income and expenses.

WHAT DOES THE HOME ACCOUNTANT DO?

- Handles cash, checkbooks, credit cards, and other liabilities and expenses.
- Prints a balance sheet.
- Prints a net worth statement.
- Prints checks if desired.
- Provides fast bank reconciliation.
- Keeps track of up to five checkbooks.
- Custom retrieval allows you to search out and/or print out just the information that you need (e.g. all transactions that might have a tax consequence).
- Supports almost all printers.
- Allows automatic transactions.
- Maintains transaction history.
- Provides graphics for any category by bar graph, line graph, and/or trend analysis.
- Provides forecasting ability: future value, establish future financial goals, allows analysis of financial assumptions.
- Maintains up to 200 budget categories.
- Supports floppy and hard disks.

THE HOME ACCOUNTANT SPECIFICATIONS

VERSION	PRICE	AUTOMATIC TRANSACTIONS	INCLUDES FORECASTER	# OF MONTHLY TRANSACTIONS	# OF BUDGET ACCOUNTS	COLOR
APPLE II/IIE	$74.95	YES	NO	1,000	100	YES
IBM single density*	150.00	YES	YES	1,000	100	YES
IBM double density*	150.00	YES	YES	2,000	200x	YES
IBM with hard disk*	150.00	YES	YES	20,000	200	YES
OSBORNE single density**	99.95	NO	YES	500	75	NO
OSBORNE double density**	99.95	NO	YES	1,000	75	NO
ATARI 400/800	74.95	NO	NO	700	60	YES
COMMODORE 64	74.95	NO	NO	1,000 est.	100 est.	YES
TRS-80 MODEL III	74.95	YES	NO	1,000	100	NO

* All IBM versions are sold as one package. Differing capabilities depend on your individual hardware configuration.

** Both Osborne versions are sold as one package Differing capabilities depend on your individual hardware configuration.

x Requires 96K RAM.

All versions require at least one disk drive.

RAM requirements: APPLE 48K, IBM 64K (min.), OSBORNE 48K, ATARI 48K, COMMODORE 64K, TRS-80 Model III 48K

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FOR YOUR TRS-80, IBM, KAYPRO, APPLE, COMMODORE, MSDOS or CP/M* COMPUTER

The Data Center

WHAT IS IT?
THE DATA CENTER is a *simple* integrated software package that provides every computer owner with the most essential software for home, personal or business use.

HOW DOES IT WORK?
The complete DATA CENTER is supplied on one diskette. All options are menu driven -- just follow the simple onscreen instructions. You are in control as THE DATA CENTER tells you exactly what to do, step by step.

WHO CAN USE IT?
Everyone who owns a computer! First-time computer owners will find that THE DATA CENTER is easy to use, and advanced users will find that THE DATA CENTER offers a quick alternative to tedious programming.

WHAT DOES IT DO?
THE DATA CENTER addresses your mail, balances your checkbook, keeps track of all of your income tax information, works as a telephone directory and appointment calendar, maintains your household inventory records, keeps track of all of your credit and investment records, and functions as a complete data storage center. And the LIST MANAGEMENT CENTER lets you create personalized functions to fulfill your own unique requirements.

WHAT IS THE LIST MANAGEMENT CENTER?
The LIST MANAGEMENT CENTER is a simple but powerful data management system built into THE DATA CENTER that lets you keep hundreds of separate lists of any kind of information. It allows the user to instantly create a list, edit it, sort the list, perform simple calculations with it, and print out its contents.

101 THINGS TO DO WITH THE DATA CENTER

Mailing Lists • Income Tax Preparation • Budgets • Diet Planning • Appointment Calendar • Telephone Directory • Checkbook Maintenance • Insurance Records Auto Expenses • Investment Records • Inventory Control • Household Records • Coin Collection Record Investment Records • Jewelry • Subscriptions • Accounts Receivable • Accounts Payable • Loan Records • Savings Certificates • Trust Funds • Credit Cards • Automobile Service Records • Grocery Shopping Lists • Charitable Contributions • Birth Records Employment Records • Pet Immunization Records Vacation Days Taken • Wills • Licenses and Registrations • Passport • Social Security Information • Real Estate • Home Improvements • Stocks and Bonds Safe Deposit Contents • Messages • Things to Do Today • Health Insurance Medical History • Personal Inventory • Birthdays • Anniversaries • Appliance Service Records • Committees • Business Expenses Sales Meetings • Family Tree • Life Insurance Policies PTA Members • Mutual Funds • Oil Changes • Gifts Given • Gifts Received • Emergency Telephone Numbers • Directions to Places • Business Loans Personal Loans • Things to Do (by Date) • Services Rendered • Personal Library • Stamp Collections Postal Rates • Credit Card Receipts • Music Collections Videotape Collections • Monthly Incoming Bills Monthly Statements • UPS Receipts • Certified Mail Receipts • Dental Appointments • Priorities • Organization Members • Gambling Debts • Outstanding Parking Tickets • Warranties and Guarantees • Home Movies Slide Collections • Guest Lists • Vacation Itineraries Reading Lists • Test Scores • Class Assignments Dispatch Log • Home Energy Consumption Records Patient Histories • Job References • Reminder Memos Sales Prospects • Game Scores • Team Rosters Survey Results • Christmas Shopping Lists • Delivery Route Schedules • Diskette Catalog Listings • Parts Lists • Requisitions • Job Tickets • Bibliographies Radio Logs • Indexes

AVAILABLE FOR MOST MICROCOMPUTERS.
The DATA CENTER is supplied on diskette and is accompanied by a comprehensive user's guide.

TRS-80, IBM, Kaypro, Apple, Commodore, MSDOS and CP/M are trademarks of their respective manufacturers.

*CP/M computers must be equipped with Microsoft BASIC (MBASIC or BASIC-80).

The Data Center $99.95

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THE MOST ESSENTIAL PERIPHERAL FOR YOUR COMPUTER

THE LEMON™ THE LIME™ THE PEACH THE ORANGE™

Avoid data loss • unexpected rebooting • destroyed diskettes
strange printer characters • distorted video images

The LEMON™ - $59.95
Power Surge Protector with Six Outlets

The LEMON,™ The LIME,™ The ORANGE,™ and are solid state voltage clamping devices and EMI-RFI noise filters which utilize high speed semiconductor technology and are designed to protect all mini and micro computers, word processors, printers, disk drives, medical test equipment and sensitive computer controlled equipment that is plugged into an AC power line.

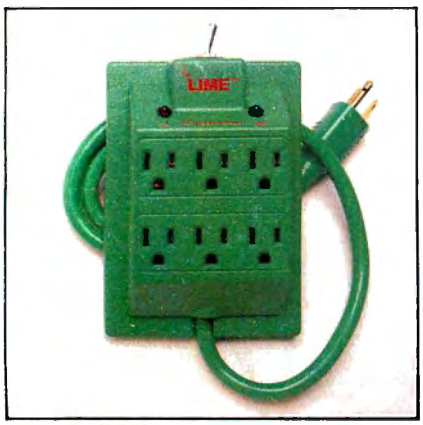
Transient overvoltages, commonly referred to as "spikes" or "glitches", are the major cause of software and hardware damage. The common cause of these transients are on-off switching of motors (air conditioning, refrigeration, elevators and copying machines, power-line regulators, electro-static discharge and nearby lightning strikes).

These protectors, from Electronic Protection Devices (EPD), will protect any electronic equipment from line disturbances, allowing it to operate without software faults or hang-ups and without hardware damage.

All EPD AC Surge Protectors and Filters are protected in "normal mode" (line to neutral) and "common modes" (line to ground) and neutral to ground. The ORANGE™ six-outlet unit with 4½ foot power cord and on-off switch and three-outlet unit that plugs into normal three-wire wall sockets are EMI-RFI Filtered Surge Protectors that will eliminate high frequency noises as well as transient surges.

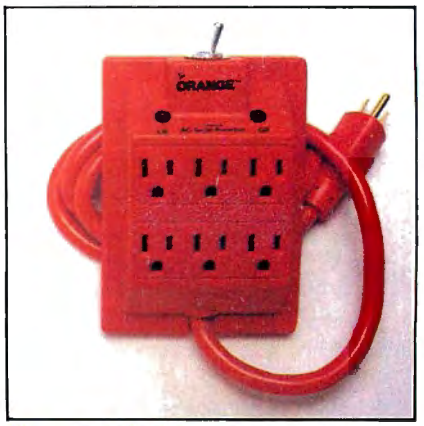
The EPD line of AC Surge Protectors exceed IEEE 587-1980 Guide for Surge Voltages in Low Voltage AC Power Circuits.*

* current surges 6000 Volts up to 3000 Amps one time



The LIME™ $89.50
Power Surge Protector with Six Outlets
and 4½ Foot Power Cord

The PEACH $97.50
Power Surge Protector with EMI-RFI
Noise Filter



The ORANGE™ $139.95
Power Surge Protector with Six Outlets,
4½ ft. Power Cord and EMI-RFI Noise Filter

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