SOFTWARE CATALOG NO. 10

H&E COMPUTRONICS INC.

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OSBORNE™

PRICE $2.00

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Introducing the Most Powerful Business Software Ever!

TRS-80™ (Model I, II, III, or 16) • APPLE™ • IBM™ • OSBORNE™ • CP/M™ • XEROX™

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.

To Order:

Write or call Toll-free (800) 431-2818
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* add $4 for C.O.D. or non-UPS areas
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Tired Of Your GENERAL LEDGER?

VERSA-LEDGER II

★ THE ULTIMATE PERSONAL CHECK REGISTER

★ A PROFESSIONAL ACCOUNTING SYSTEM

★ A PERSONAL FINANCIAL MANAGER

★ A SMALL BUSINESS ACCOUNTING SYSTEM

★ A COMPLETE GENERAL LEDGER

FOR YOUR TRS-80* MODEL I, II, III or 16 • APPLE II* • I.B.M.* • XEROX* • ATARI* PET/CBM* • OSBORNE* • ALL MICROSOFT BASIC COMPUTERS

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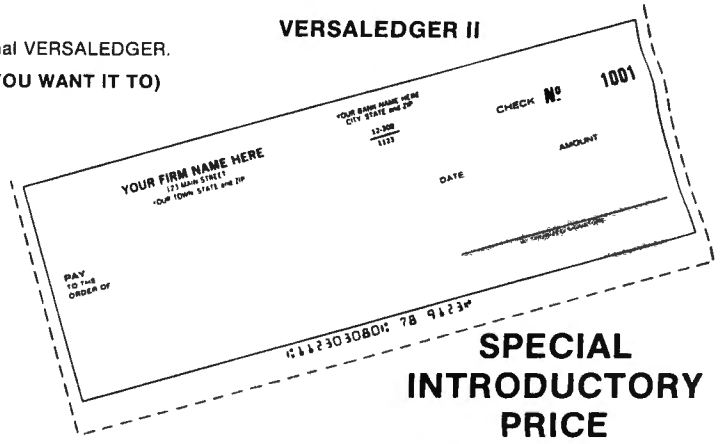
HOW IT WORKS . . . .

VERSALEDGER II is a complete accounting system that grows as you or your business grows. To start, your VERSA-LEDGER II acts as a simple method of keeping track of your checkbook. Just enter your check number, date and whom the check is made out to. As you or your business grows, you may add more details to your transactions . . . . . account number, detailed account explanations, etc.

- VERSALEDGER II is an expanded and enhanced version of our original VERSALEDGER.
- VERSALEDGER II gives you an instant cash balance at anytime. **(IF YOU WANT IT TO)**
- VERSALEDGER II can be used as a small personal checkbook register. **(IF YOU WANT IT TO)**
- VERSALEDGER II can run your million dollar corporation. **(IF YOU WANT IT TO)**
- VERSALEDGER II prints checks. **(IF YOU WANT IT TO)**
- VERSALEDGER II stores all check information forever. **(IF YOU WANT IT TO)**
- VERSALEDGER II can distribute one check to multiple expense accounts. **(IF YOU WANT IT TO)**
- VERSALEDGER II can handle more than one checkbook. **(IF YOU WANT IT TO)**
- VERSALEDGER II can be used to replace a general ledger. **(IF YOU WANT IT TO)**
- VERSALEDGER II prints balance sheets and income statements. **(IF YOU WANT IT TO)**
- VERSALEDGER II can interact with any of the other four modules of the VERSABUSINESS SYSTEM.

VERSALEDGER II



SPECIAL INTRODUCTORY PRICE

$149.95

($199.95 after Dec. 31, 1982)

- VERSALEDGER II comes with a professionally written manual (created for the first-time computer user), which includes sample report print-outs.
- VERSALEDGER II HAS AN ALMOST UNLIMITED CAPACITY . . . .
  - (300 checks per month on single density 5¼" disk drives such as the TRS-80 Model I)
  - (500 checks per month on the Apple II)
  - (2400 checks per month on the TRS-80 Model III)
  - (6000 checks per month on the TRS-80 Model II)
  - (3000 checks per month on single density 8" CP/M)
  - (almost unlimited capacity on hard disk drive)
- VERSALEDGER II OUTPERFORMS ALL OTHER COMPETITIVE SYSTEMS NOW AVAILABLE TO MICROCOMPUTER USERS, AT A FRACTION OF THE COST (AND WE OFFER A 30-DAY MONEY BACK GUARANTEE TO BACK UP OUR CLAIM!)

— CAN BE USED WITH 1 or MORE DISK DRIVES with 48K —

ALSO AVAILABLE: VERSARECEIVABLES, VERSAPAYABLES, VERSAPAYROLL, and VERSAINVENTORY

COMPUTRONICS, INC.
MATHEMATICAL APPLICATIONS SYSTEMS

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THE COLLECTOR!

VERSA-- RECEIVABLES

★ THE ULTIMATE ACCOUNTS RECEIVABLE SYSTEM

★ HANDLES ALL ACCOUNTS RECEIVABLE FUNCTIONS

★ QUICK PERIODIC SUMMARIES AND REPORTS

★ PERFECT FOR PERSONAL OR BUSINESS USE

★ EXPANDS TO HANDLE LARGE CORPORATE RECEIVABLES

FOR YOUR TRS-80* MODEL I, II, III, 16 • APPLE* • I.B.M* • XEROX* • ATARI*
OSBORNE* • PET/CBM* • ALL MICROSOFT BASIC COMPUTERS

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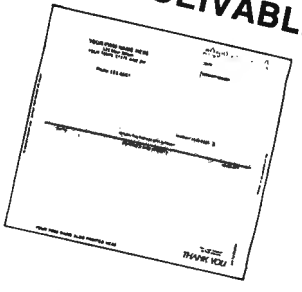
HOW IT WORKS . . . .

VERSARECEIVABLES is a complete menu driven accounts receivable system. It keeps track of *all* information related to who owes you or your company money. It prints all necessary statements, invoices and all summary reports to keep you in touch with the flow of money owed to your company. In short, **VERSARECEIVABLES** is a complete invoicing and monthly statement generating system which keeps track of current and past due receivables.

- VERSARECEIVABLES invoices your customers. **(IF YOU WANT IT TO)**
- VERSARECEIVABLES prints customer mailing labels. **(IF YOU WANT IT TO)**
- VERSARECEIVABLES generates monthly (or periodic) statements at any time. **(IF YOU WANT IT TO)**
- VERSARECEIVABLES uses commonly available preprinted statements and invoices. **(IF YOU WANT IT TO)**
- VERSARECEIVABLES allows partial payments on open invoices. **(IF YOU WANT IT TO)**
- VERSARECEIVABLES prints out all commonly used ACCOUNTS RECEIVABLE reports to give you a total picture of money owed to your company. **(IF YOU WANT IT TO)**
- VERSARECEIVABLES keeps a history of each account, both current and aged. **(IF YOU WANT IT TO)**
- VERSARECEIVABLES is ideal for doctors, lawyers, small and large businesses.
- VERSARECEIVABLES HAS AN ALMOST UNLIMITED CAPACITY . . . .

VERSARECEIVABLES



INTRODUCTORY PRICE
$99.95

400 customers and transactions per month on single density 5¼" disk drives such as the TRS-80 Model I
600 per month on the APPLE II
2400 per month on the TRS-80 MODEL III
6000 per month on the TRS-80 MODEL II
3000 per month on single density 8" CP/M
Almost unlimited on hard disk drive systems

Above capacities are estimates and depend on the customer-transaction mix and the amount of disk space available.

VERSARECEIVABLES HAS BEEN CREATED WITH THE FIRST TIME COMPUTER USER IN MIND

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MATHEMATICAL APPLICATIONS SERVICE

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HOW MUCH MONEY DO YOU OWE?

VERSA-- PAYABLES

★ THE ULTIMATE ACCOUNTS PAYABLE SYSTEM

★ HANDLES ALL ACCOUNTS PAYABLE FUNCTIONS

★ QUICK PERIODIC SUMMARIES AND REPORTS

★ PERFECT FOR PERSONAL OR BUSINESS USE

★ EXPANDS TO HANDLE LARGE CORPORATE PAYABLES

FOR YOUR TRS-80* MODEL I, II, III, 16 • APPLE* • I.B.M.* • XEROX* • ATARI*
OSBORNE* • PET/CBM* • ALL MICROSOFT BASIC COMPUTERS

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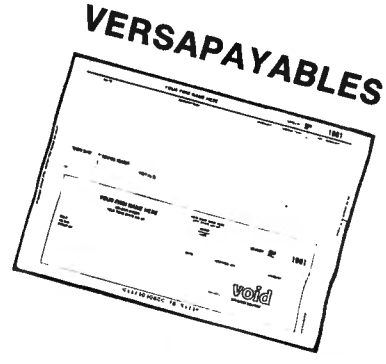
HOW IT WORKS . . .

VERSAPAYABLES is a complete menu driven accounts payable system. It keeps track of all information related to how much money you (personally) or your company owes. It prints all necessary checks and statements on easily obtainable tractor feed forms (or on plain paper). Prints all summary reports to keep you in touch with the flow of money going out of your hands (or leaving your company). In short, VERSAPAYABLES is designed to keep track of current and aged payables. The system maintains a complete record of each vendor, helps determine which transactions to pay by due date within certain cash requirements and prints checks automatically with a detailed check register.

- VERSAPAYABLES prints out your checks. **(IF YOU WANT IT TO)**
- VERSAPAYABLES prints out a detailed check register. **(IF YOU WANT IT TO)**
- VERSAPAYABLES allows for full or partial payments. **(IF YOU WANT IT TO)**
- VERSAPAYABLES prints out vendor mailing labels. **(IF YOU WANT IT TO)**
- VERSAPAYBLES prints out all commonly used ACCOUNTS PAYABLE reports to give you a total picture of money you or your company owes. **(IF YOU WANT IT TO)**
- VERSAPAYABLES integrates with **VERSALEDGER. (IF YOU WANT IT TO)**
- VERSAPAYBLES HAS AN ALMOST UNLIMITED CAPACITY . . . .
  - 400 vendors and transactions per month on sinlge density 5¼" disk drives such as the TRS-80 MODEL I
  - 600 per month on the APPLE II
  - 2400 per month on the TRS-80 MODEL III
  - 6000 per month of the TRS-80 MODEL II
  - 3000 per month on single density 8" CP/M
  - Almost unlimited capacity on hard disk drive systems



INTRODUCTORY PRICE
$99.95

Above capacities are estimates and depend on disk space available and your vendor-transaction mix.

VERSAPAYABLES HAS BEEN CREATED WITH THE FIRST TIME COMPUTER USER IN MIND

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MATHEMATICAL APPLICATIONS SERVICE™

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PAYROLL SIMPLIFIED

VERSA-- PAYROLL

★ THE ULTIMATE PROFESSIONAL PAYROLL SYSTEM

★ HANDLES ALL PAYROLL FUNCTIONS AND REPORTS

★ QUICK QUARTERLY AND END OF YEAR SUMMARIES

★ PERFECT FOR A SMALL BUSINESS

★ EXPANDS TO HANDLE LARGE CORPORATE PAYROLLS

FOR YOUR TRS-80* MODEL I, II, III or 16 • APPLE* • I.B.M.* • XEROX* • ATARI*
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*OSBORNE is a trademark of Osborne Corp. - *PET and CBM are trademarks of Commodre Corp.

HOW IT WORKS . . . .

VERSAPAYROLL is a complete menu driven payroll system that grows as you or your business grows. Your VERSA-PAYROLL acts as a simple payroll system keeping track of all government required payroll information. Just enter the employees, VERSAPAYROLL will perform all the necessary payroll calculations automatically and display to totals on your screen. The user has complete control to accept the totals, to print or not print out a check and to post or not post the total to our **VERSALEDGER** system.

- VERSAPAYROLL automatically prints out your PAYROLL checks. **(IF YOU WANT IT TO)**
- VERSAPAYROLL allows you to override any payroll deduction. **(IF YOU WANT IT TO)**
- VERSAPAYROLL automatically posts all checks written to our VERSALEDGER system. **(IF YOU WANT IT TO)**
- VERSAPAYROLL allows the user to print out PAYROLL checks one at a time. **(IF YOU WANT IT TO)**
- VERSAPAYROLL allows the user to print out all your PAYROLL checks at the same time. **(IF YOU WANT IT TO)**
- VERSAPAYROLL gives you a summary of any employee's year to date payroll totals or all employee totals at any time. **(IF YOU WANT IT TO)**
- VERSAPAYROLL will allow you to correct any error made at any time and automatically refigure all totals. **(IF YOU WANT IT TO)**
- VERSAPAYROLL works in every state. **(IF YOU WANT IT TO)**
- VERSAPAYROLL automatically calculates all federal and states taxes. **(IF YOU WANT IT TO)**
- VERSAPAYROLL allows for all of the standard deductions plus state, city and three miscellaneous deductions. **(IF YOU WANT IT TO)**
- VERSAPAYROLL prints all government required reports. **(IF YOU WANT IT TO)**
- VERSAPAYROLL permanently stores all PAYROLL transactions. **(IF YOU WANT IT TO)**
- VERSAPAYROLL HAS AN ALMOST UNLIMITED CAPACITY . . . .

  Can handle up to 300 employees on a TRS-80 MODEL I, 600 employees on a TRS-80 MODEL III, 1200 employees on a TRS-80 MODEL II, 500 employees on an APPLE II, 600 employees on any single density 8" CP/M computer and almost unlimited capacity on hard disk systems.

INTRODUCTORY PRICE

$99.95

CAN BE USED WITH 1 or MORE DISK DRIVES (AND 48K)

VERSAPAYROLL HAS BEEN CREATED WITH THE FIRST TIME COMPUTER USER IN MIND

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HOW MANY DO YOU HAVE LEFT?

VERSA-- INVENTORY

★ THE ULTIMATE INVENTORY SYSTEM

★ HANDLES ALL INVENTORY FUNCTIONS

★ QUICK PERIODIC SUMMARIES AND REPORTS

★ PERFECT FOR PERSONAL OR BUSINESS USE

★ EXPANDS TO HANDLE LARGE CORPORATE INVENTORIES

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*OSBORNE is a trademark of Osborne Corp. - *PET and CMB are trademarks of Commodore Corp.

HOW IT WORKS . . . .

VERSAINVENTORY is a complete menu driven inventory control system. It keeps track of all information related to how many of a particular item you have. It prints all necessary inventory reports and gives you instant access to any inventory item. VERSAINVENTORY allows the user to stay in touch with items that directly affect sales. Update INVENTORY through easy MENU driven processes.

- VERSAINVENTORY allows the user to instantly add to or deduct from INVENTORY. **(IF YOU WANT IT TO)**
- VERSAINVENTORY handles reorder point levels. **(IF YOU WANT IT TO)**
- VERSAINVENTORY gives period-to-date and year-to-date sales reports. **(IF YOU WANT IT TO)**
- VERSAINVENTORY can be linked to VERSARECEIVABLES and VERSALEDGER. **(IF YOU WANT IT TO)**
- VERSAINVENTORY gives all standard INVENTORY REPORTS. **(IF YOU WANT IT TO)**
- VERSAINVENTORY instantly values your INVENTORY. **(IF YOU WANT IT TO)**
- VERSAINVENTORY HAS AN ALMOST UNLIMITED CAPACITY . . . . .

INTRODUCTORY PRICE
$99.95

To figure out estimated VERSAINVENTORY limitations, just multiply 8 by the number of kilobytes of disk storage available. For example, the store capacity on a TRS-80 MODEL II disk drive is 500K. That will allow the user to have about 4,000 inventory items on record. This total is an estimate and depends on how you set up your inventory system.

VERSAINVENTORY HAS BEEN CREATED WITH THE FIRST TIME COMPUTER USER IN MIND

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MATHEMATICAL APPLICATIONS SERVICE™

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(ON CASSETTE OR DISKETTE).....Includes 128 Page Users Manual.....
Inventory Control.....Payroll.....Bookkeeping System.....Stock Calculations.....
Checkbook Maintenance.....Accounts Receivable.....Accounts Payable.....

BUSINESS 100 PROGRAM LIST

	NAME	DESCRIPTION
1	RULE78	Interest Apportionment by Rule of the 78's
2	ANNUI	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	CAP1	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.
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93	INSFILE	Insurance policy file
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95	DILANAL	Dilution analysis
96	LOANAFFD	Loan amount a borrower can afford
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	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
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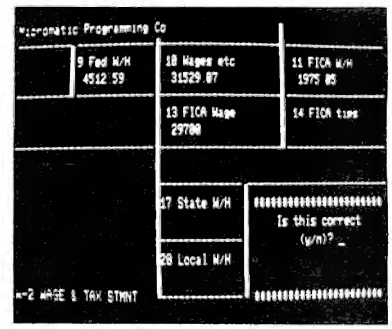

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TAX/SAVER II™

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- Interest & Dividends - Schedule B
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- Tax Savings Methods - Income Averaging, Maximum Tax, Alternative Tax
- Business Income - Schedules C & SE
- Capital Gains - Schedule D
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- Manual includes 1982 tax forms, information on special tax areas, lists of possible deductions, and glossary of tax terms
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The General Ledger accounting system consolidates financial data from other accounting subsystems in an accurate and timely manner. Major reports include Trial Balance, Income Statement, Balance Sheet, a user-defined report, and more. All data is maintained and reported by month, quarter, year and previous three quarters. Transactions may be entered via direct posting and external posting generated by A/R, A/P, Payroll - or any other user source.

Accounts Receivable

The objective of a computerized A/R system is to prepare accurate and timely monthly statements to credit customers. Management can generate information required to control the amount of credit extended and the collection of money owed in order to maximize profitable credit sales while minimizing losses from bad debts. This system is invoice-oriented. Invoices can be entered before they're ready for billing, after billing, or even after they are paid. Accounts Receivable allows entry of new invoices, credit memos, debit memos, or modification or deletion invoice and allows for progress payment. The transaction information includes: type of A/R transaction, P.O. #, description of P.O., billing date, general ledger sales account #, invoice amount, shipping and transportation charges, tax charges, payment, and progress payment information. Reports include: summary or detail listing of invoices not yet billed, open items (unpaid invoices), closed items (paid invoices), and aging. Statements may be printed at any time and follow the format of nationally available forms.

Order Entry

The Order Entry Module was designed as a supplement to the Accounts Receivable Module, and will not operate independently. This system allows you to add, change, delete, list and print invoices; apply an invoice to correct customer account; generate computer assigned invoice numbers; note type (invoice credit memo, debit memo); record customer order number, invoice date, shipping date, FOB location, method of shipping, salesman, and payment terms; print selected number of shipping labels; enter, display and correct 10 lines of data per invoice, noting the part number, description, price, quantity ordered, extension, taxable or not. It also allows the user to enter, display and correct invoice totals, noting the invoice subtotal, taxes, shipping and handling, with disbursement up to 5 General Ledger accounts; print a transaction report; maintain a terms code file in the system; update Account Receivable and generate summary report totals. It automatically coordinates to the Inventory Module (if used) to determine description, price and out of stock status, and to immediately deplete inventory stock. Price fields are easily modified to include percent or dollar discount.

Payroll

Payroll involves many complex calculations and the production of reports and documents, many of which are required by government agencies. The Payroll system performs all necessary payroll tasks including file maintenance, pay data entry and verification, computation of pay and deduction amounts, and the printing of reports and checks. State and Federal Tax changes are easily implemented by the user via menu prompting. In its link to General Ledger, each employee's payroll information is distributed to as many as 12 different GL accounts; system automatically posts to cash account.

Accounts Payable

The Accounts Payable system receives data concerning purchases from suppliers and produces checks in payment of outstanding invoices. Several reports are available to supply information needed for the analysis of payments, expenses, purchases and cash requirements. The Accounts Payable system is invoice-oriented. It handles new invoices, credit memos and even debit memos and allows modification and deletion of invoices. The flexible check calculation procedures allows checks to be calculated for a set of vendors, specific vendors or even specific invoices. The reports include open item listings and closed item listings (both detail and summary), debit and credit memo listings, aging, check register report (to give an audit trail of checks printed), and vendor listing and vendor activity. Update reports are useful for audit trails and checking for accuracy. Checks may be printed at any time and follow the format of nationally available forms.

Inventory

Status reports and minimum reorder reports help to reduce the potential hazard of overstocking which results in cash flow problems. Program selection allows the user to store data for inventory located at up to five separate sites (divisions), coding up to 9 sales people. Available reports include inventory master list, price listings, period and year-to-date sales, stock status, minimum reorder point and commission information.

Model I, 48K and 2 Disk Drives... $195.00 Per Module
Model III, 48K..... $195.00 Per Module
Model II, 64K..... $295.00 Per Module
Sample Report Printouts..... $ 10.00

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Experience Shows - S.B.S.G. has over 11,000 Installed Systems!

COMMUNICATIONS SYSTEMS

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.

SMALL BUSINESS SYSTEMS GROUP

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 **$150.00**
Model II **$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 **$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 **$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 **$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 **$295.00**

DELUXE PERSONAL FINANCE For TRS-80™ Model II

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 **$75.00**
Model I or III **$35.00**

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

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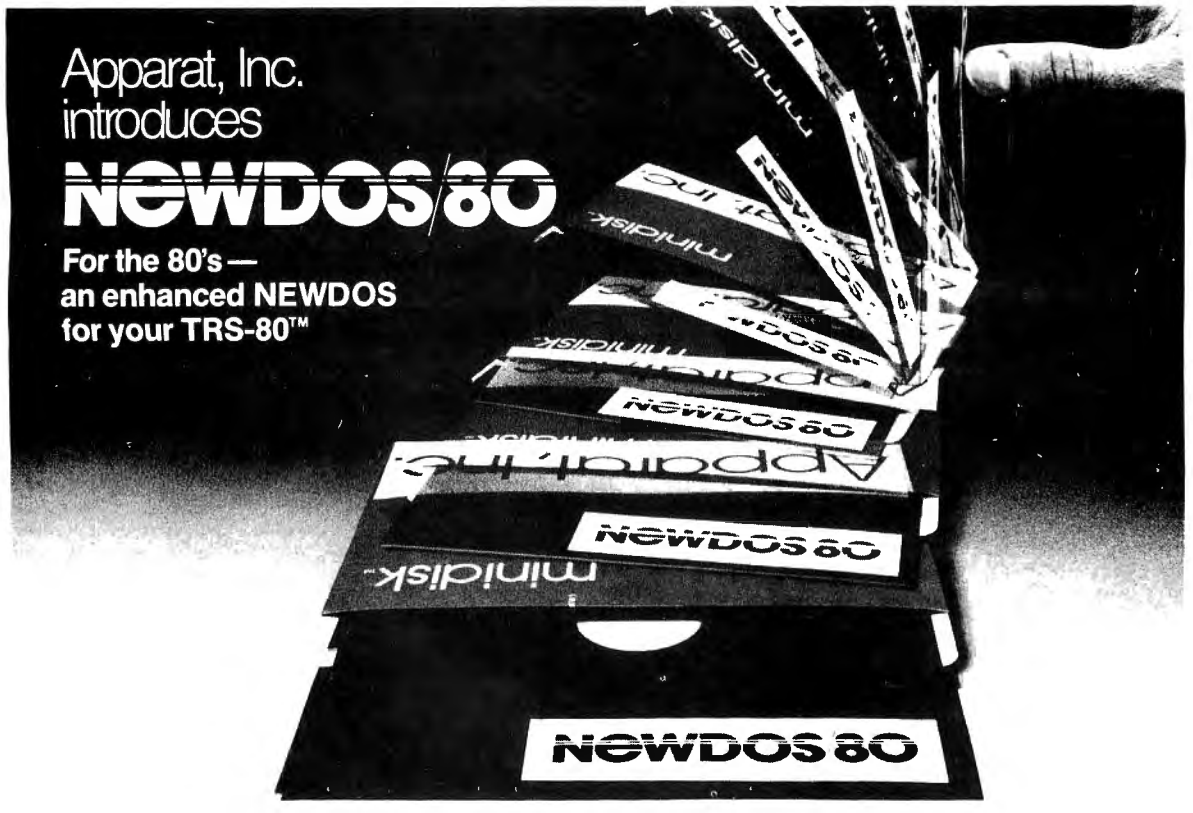
●● EVERYTHING FOR YOUR TRS-80™ MODEL I or MODEL III ●●

* TRS-80 is a trademark of the Radio Shack Division of Tandy Corp.



Apparat, Inc., announces the most powerful Disk Operating System for the TRS-80™. It has been designed for the sophisticated user and professional programmer who demands the ultimate in disk operating systems.

- **DOUBLE DENSITY ON MODEL I**
  Use of the LNW DOUBLE or the PERCOM DOUBLER will expand storage 80% under NEWDOS/80 Version 2.0, mixing single and double density specifications without any patches.
- **SINGLE DENSITY ON MODEL III**
  Will allow the MODEL III to read disk from MODEL I and to write disks the MODEL I can read, making it easy to move programs between the two machines.
- **EXPANDED DIRECTORIES**
  Directories can be expanded three times the normal number of available entries, even on DOS disks. This is extremely useful when using double density.
- **DYNAMICALLY MERGE IN BASIC**
  To allow sections of BASIC programs to be deleted and replaced with lines from a disk file during program execution. Also allows merging of non-ASCII format files.
- **SELECTIVE VARIABLE CLEARING**
  Allows the programmer to keep some variables and release the space used by the rest; also specific variables may be erased releasing the space they use.
- **PAGE SCROLLING IN BASIC**
  Scrolling has been modified to allow the user to display programs page by page, in addition to the regular line scrolling.
- **REPEAT FUNCTIONS**
  Keys in MODEL I repeat when held down. Entering "R" as a DOS command causes the previous DOS command to be repeated.
- **ROUTING FOR DEVICE HANDLING**
  To send input and output from one device (display, printer, keyboard, etc.) to others or to a routine in main memory.
- **DISASSEMBLER OUTPUT TO DISK**
  The Disassembler will now write a source code file to disk, which the editor assembler can read and edit.
- **CHAINING ENHANCEMENTS**
  Features to allow chain files to be written from SCRIPSIT; also chaining may be switched on and off without changing chain file positioning, and may be executed via CMD "xxx" and DOS-CALL.
- **SUPERZAP**
  Has the ability to scan diskettes or disk files to find the occurences of specific values. Also will generate disk file passwords and hashcode.
- **FAST SORT ROUTINE**
  Basic function CMD "O" provides direct or indirect in-memory sort of multiple arrays.
- **MERGING OF NON-ASCII BASIC PROGRAMS**
- **BASIC SINGLE STEPPING**
- New BASIC commands that supports files with variable record lengths up to 4095 Bytes long.
- Mix or match disk drives. Supports any track count from 18 to 80. Use 35, 40 or 77 track 5" mini disks drives or 8" disk drives, or any combination.
- A security boot-up for BASIC or machine code application programs. User never sees "DOS READY" or " > READY" and is unable to "BREAK", clear screen, or issue any direct BASIC statement including "LIST."
- New editing commands that allow program lines to be deleted from one location and moved to another or to allow the duplication of a program line with the deletion of the original.
- Enhance and improved RENUMBER that allows relocation of subroutines.
- CDE function; simultaneous striking of the C, D and E keys will allow the user to enter a mini-DOS to perform some DOS commands without disturbing the resident program.
- Upward compatible with NEWDOS 2.1 and TRSDOS 2.3.
- Includes Superzap 3.0 and all Apparat 2.1 utilities.

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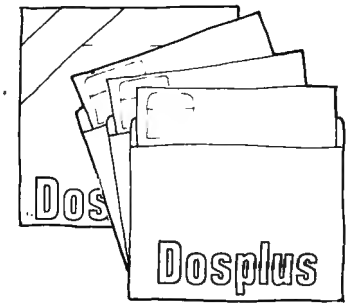
DOSPLUS 3.4

From
MICRO SYSTEMS SOFTWARE, INC.



Replaces TRSDOS™ with the most powerful and sophisticated operating system you can get for your TRS-80™ Model I or III (New Model II version also)*

THE ORIGINAL DOSPLUS CONTAINS ALL OF THE FOLLOWING FEATURES . . . . .

1) Radio Shack compatibility
2) Error free variable length records
3) Full lower case detection and support
4) Repeating keyboard with NO keybounce EVER
5) Shift [0] typewriter keyboard option
6) Execute only protection feature for BASIC programs
7) Automatic track support for 35 through 80 track drives (mixed)
8) Device I/O handling with FORCE command
9) Supports high speed clock modification (up to 4.Omhz)
10) Supports mixed mode (single & double density) automatically
11) Allows disable-enable to break key
12) Allows user to define step rate per drive and re-configure system disk
13) Allows for efficient use of double-headed drives
14) Built in screen printer (shift [CLEAR] with [BREAK] key abort
15) Multiple command chaining with "DO"
16) Built in memory test with CLEAR command
17) New printer driver which allows complete forms control and paging
18) Automatic serial printer driver with optional auto linefeed
19) Execute any DOS command from BASIC and return to BASIC
20) Free space map of diskette with optional output to printer
21) Copy with variable length files
22) Complete RS232 control from keyboard with status check
23) Create and pre-allocate files from DOS
24) Display current date and time from DOS
25) More information from Directory with optional printer output
26) Enter DEBUG with shift [BREAK] to allow use of [BREAK] from BASIC
27) New DISKDUMP/CMD sector display/modify program (works with filespecs)
28) New DISKZAP/CMD single/double density disk editor
29) New BACKUP (more reliable, no more pack ID check)
30) New FORMAT (more reliable, no need to bulk erase disk first)
31) New MAP utility (maps out disk, showing where files are located)

PLUS New DOSPLUS Z80 Extended Disk BASIC

1) Faster loads and saves
2) BASIC Reference utility (lines, variables, keywords, printer option)
3) BASIC Renumber utility (renumber section of text, block text move)
4) Shorthand features for almost ANY direct command (LOAD, SAVE, etc.)
5) Shorthand features for editing (listing and editing with single key)
6) CMD"M" instantly displays currently set variables
7) Global search and replace in BASIC text
8) Line printer TAB to 255
9) OPEN"E" to end of sequential file (for output)
10) DI (delete and insert text line)
11) DU (duplicate text line)
12) ",R" & ",V" options after LOAD and RUN (files open & save variable)
13) OPEN"D" allowed (Model II compatible) equal to OPEN"R"
14) DOS commands from BASIC
15) Automatic, error-free variable length records
16) Single step execution with TRON (fabulous for debugging)
17) CRUNCH (BASIC program compressor)
18) New TBASIC (tiny BASIC) offers full BASIC commands
19) TBASIC and DOSPLUS together only use BK of RAM (40K left in 48K TRS-80)

PLUS ** 7 MORE UTILITIES **

1) Single drive copy
2) Restore (dead files)
3) Purge (unwanted files)
4) Clearfile (destroys data by writing zeros to file)
5) Transfer (moves all user files from one disk to another)
6) Spooler (allows printing of text while freeing up the CPU)
7) Crunch (Basic program compressor)

NOW DOSPLUS 3.4 ADDS THESE NEW ADDITIONAL FEATURES . . . .

1. BASIC array sort - multi key, multi array
2. Tape/Disk - Disk/Tape utility (with relocator)
3. Input@ (controlled screen input)
4. Random access and ASCII modification on Diskdump
5. BASIC checks for active 'DO'
6. Backup and Format from a 'DO' file
7. Much improved Backup (More reliable)
8. I/O package much faster (disk access time reduced)
9. Repeat last DOS command with '/' ENTER
10. Short directory (file name and extension) available
11. Short directory of Model III TRSDOS disks
12. Single file convert from Model III TRSDOS
13. COMPLETE device routing supported (DOS and BASIC)
14. Ability to save BASIC programs directly to another machines' memory (if equipped with Dosplus 3.4)
    - Plus many more improvements
    - Includes the new expanded easy to read 200 + page users guide
    - Also includes the new DOSPLUS Z80 disk basic VER 1.6

$149.95

★ *Announcing . . . .*

DOSPLUS II

For The TRS-80™ Model II

NEW

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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* **DOUBLE** Sided & **DOUBLE** Density support.
* **AUTOMATIC** Density recognition.
* 35, 40, 77, 80 and any other track counts are supported.
* All available drive stepping rates are supported.
* Hard Drive support, can be **HANDLED AS A SINGLE DRIVE.**
* Hard drive partitioning, one drive can act as up to six.
* Intermix 5", 8" and Hard drives, up to a total of 8 drives.
- Compatible with the Model I Radio Shack Expansion Interface.
- Upward compatible with **TRSDOS** (2.3 & 1.3 as documented).
- Fully supports Microsoft language products for **TRS-80.**
- Complete media compatibility Model I to Model III and back.
- Full support for **LOBO's LX-80** interface.
- Full support for **AEROCOMP'S** double density controller**(DDC).**
- Full support for **PERCOM's DOUBLER II.**
- Complete documentation (well over 250 pages).
- Complete technical information.
- An **LDOS** users bulletin board on MicroNET.
- A liberal update policy.
- An enhanced **BASIC (LBASIC)** including:
  - > Upward compatible with Microsoft Basic.
  - > High speed **LOAD** and **SAVE**.
  - > Run multiple programs with common variables.
  - > **BLOCKED** (variable length) files are supported.
  - > **DOS** commands may be executed from **LBASIC.**
  - > Built in string array. **SORT.**
  - > Single stepper for debugging.
  - > Several new statements and file modes.
- A compiled **JOB CONTROL LANGUAGE (JCL).**
- **CONV**ert utility to move files from Model III **TRSDOS.**
- An Extended Debugging and Monitor program (with disk access).
- **CMDFILE** for movement of disk and/or tape system **(/CMD)** files.
- Device independent operation.
- Full **LINK**ing, **ROUTE**ing, **FILTER**ing and **SET**ting are supported.
- Mini**DOS** feature for constant access to certain **DOS** commands.
- **RS-232 DRIVER** for serial support.
- Sophisticated communications software included.
- Wildcard characters and partial Filespecs are supported.
- **DATED FILES,** show when a file was last written to.
- Backup: Mirror, by Class, if Modified, by Date, by Extension, etc.
- Selectable **PURGE** for fast disk "cleanup" of unwanted files.
- Print formatter, for control of printer output.
- Built in printer **SPOOLER,** to both disk and ram.
- Joblog to record all system operations with time stamps.
- **UPPER** and *lower* case support, throughout the system.
- Blinking cursor with selectable cursor character.
- 128 character **TYPE AHEAD** buffering for keyboard input.
- Assign strings to individual keys with Key Stroke Multiply **(KSM).**
- **SUPER FAST** operation with the **SYSRES** feature.
- Extensive user control and system feedback.
- Advanced **PATCH** utility for easy maintenance.
- Complete transportability of software among all **Z-80 LDOS** systems through the use of the **LDOS** high ram supervisory call system.
- Dealers to serve users Nationwide and in the Common Market.
- The only **DOS** with a limited **ONE YEAR WARRANTY!**
- Enjoy a professional operating system on **YOUR TRS-80!**

* Specific hardware is required to use these features.

The Ultimate In Operating Systems For Model I & III

Only $129.95
Version 5.1

* Model I LDOS provided on 35 track single density media.
* Model III LDOS provided on 40 track double density media.
* LDOS can be provided on special media configurations at an additional charge.
* Prices & Specifications are subject to change without notice.

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Peachtree Software AUTHORIZED CENTER

PEACHTREE ACCOUNTING SERIES 8

The Peachtree™ 8 Accounting Series is a comprehensive system of six linked packages—General Ledger, Accounts Payable, Accounts Receivable, Sales Invoicing, Inventory and PeachPay™ payroll — that, used together, provide the manager complete control over his "life-stream" accounting functions. And the Series 8 packages supply the manager his vital financial data as he's never had it before: on time, in order and organized into a wealth of special reports to keep him on top of his business.

All of the Series 8 applications, with the exception of Sales Invoicing, can be used as independent applications; Sales Invoicing is used with Accounts Receivable and Inventory to simultaneously access and update files in those two packages.

Series 8 Features

- Two levels of nondisplaying password control (one for controller or manager, one for operator.)
- Ability to force the operator to print control reports.
- Ability to block the deletion of General Ledger accounts and transactions.
- Ability to change the size of files for increased processing speed.
- Recover Data Files program to prevent data loss due to power surges, hardware breakdowns, etc.
- Designed to run on floppy-disk or hard-disk systems.
- Delivered in compiled BASIC for greater speed.
- Visionary™ screen manager for ease of entering and changing data
- Sample data bases with self-instruction exercises included.
- Sample and blank input forms provided for system start-up.
- Detailed report descriptions.
- Automatic end-of-period back-up.
- Complete documentation: Each package comes with a comprehensive six-part user's manual which takes the user through a complete instructional program for the package, with details on installation procedures and the full range of system options available to the user.

Hardware and System Requirements

CPU/Internal Memory: Any 8080-, 8085- or Z80-based microcomputer with 50K of RAM free of CP/M.™

Storage: At least two floppy-disk drives with a minimum of 138K per drive (one for the program disk and one for the data disk). The Series 8 packages take up varying amounts of disk space, and each package's programs can be divided between smaller diskettes. The Series 8 packages also supports hard-disk systems.

System Software: Microsoft BASIC Run Time Library (BRUN). Notes: Series 8 is written in Microsoft BASIC, but, as the packages are supplied in compiled form, the user does not have to have Microsoft BASIC to run them; only BRUN is required.

Operating System: CP/M version 2.0 or later.

Video Unit: Any CRT with keyboard having 24 lines per screen, 80 characters per line and scrolling, clear screen and cursor positioning capabilities.

Printer: Any unit having 132 print positions per line and at least 66 lines per page.

General Ledger	$750.00
Accounts Receivable	$750.00
Accounts Payable	$750.00
Sales Invoicing	$750.00
Inventory Control	$750.00
PeachPay™ Payroll System	$750.00

CPA-CLIENT POSTING AND ACCOUNTING SYSTEM

A client write-up and reporting system designed specifically for accounting firms and service bureaus; simple to use, yet containing a number of sophisticated features and options which allow the user to tailor the system to his own requirements.

System Features

- Two levels of passwords insure system security and access by only authorized personnel.
- Flexible chart of accounts set up and report generation capabilities make the system readily adaptable to most companies needs.
- An audit trail facilitates review and justification of statement amounts.
- Batch totals, prompting messages, and input validity tests, help the operator make correct entries the first time through and minimize time-wasting out-of-balance problems at month end.
- Departmental reporting optional on both the Balance Sheet and the Income Statement, giving effective division or cost center breakdowns.
- Comparative reporting on the Balance Sheet and Income Statement shows how last year's activity compares with this year.
- Income Statement and Department Income Statements allow inclusion of budget amounts.
- Reversing journal entry type and repeating journal entry type minimize transaction input effort.
- Produces Subsidiary Schedules, Statement of Changes, Cash Flow Statement, various Transaction Registers, and other user-defined reports.
- Includes Master Chart of Accounts to save time in client setup; handles multiple clients per disk to conserve media space.
- Generates Depreciation/Amortization Schedules.
- Follows AICPA guidelines in report formatting including period ending dates and necessary disclosure statements

Client Posting & Accounting System $1500.00

Peachtree Software™ may **not** be returned once the sealed diskette envelope has been opened.

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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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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).

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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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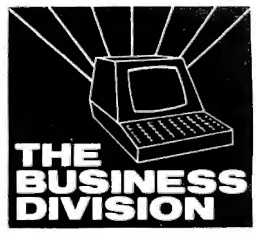

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MAXI MAIL

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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 efficiently. And **MAXI CRAS never** places a limit on your financial activity like some systems — **write as many checks per month as you need!**

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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.

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MAXI STAT Statistical Analysis Package

MAXI STAT is a revolutionary new program that was designed as a complete analysis package for the TRS-80™. If you're familiar with SPSS (Statistical Package for the Social Sciences) and what it does for statistical analysis on mainframe computers, then you have an idea of what **MAXI STAT** can do on your microcomputer. The following description of **MAXI STAT** is divided into the 3 main components of statistical analysis:

(1) CODEBOOK
The codebook describes the data file format and the labels to be used for all statistical printouts. The four programs have been designed for complete codebook creation and editing. They are menu-driven and have incorporated several automatic error-checking routines.

(2) DATA ENTRY
MAXI STAT's data entry procedure is designed for speed and ease of entry. Entering and editing the raw information you wish to analyze is facilitated by the use of either fixed or free format. The four Data Management programs are menu-driven and are designed with a special backup feature that will save the data on disk at user-specified intervals.

(3) CONTROL FILES AND STATISTICAL ANALYSES
With **MAXI STAT**, you create the task control life to describe the types of analyses you would like printed. Hundreds of tasks can be specified with only one control file and analysis may be done on ranges of variables.

MAXI STAT is the most useful statistical analysis package on the market today. It was written and designed to allow maximum flexibility in designing your own analysis.

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- ***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!!)

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- SORTS 1000-ELEMENT ARRAYS IN 9 SECONDS
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- 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
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MODEL-II VERSION **$50.00**
MODEL-III VERSION **$30.00**

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)

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- 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, REARRANGED 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

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- ADDS OVER 80 COMMANDS TO BASIC
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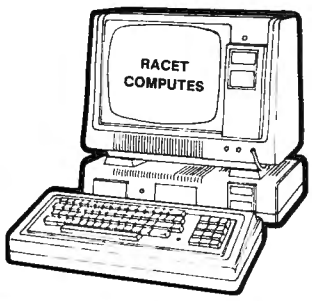

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- MAKES TRSDOS COMPATIBLE WITH MOST HARD DISK DRIVES
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- AUTO YOUR DISK TO PERFORM ANY SEQUENCE OF INSTRUCTIONS THAT YOU NORMALLY GIVE FROM THE KEYBOARD (FOR EXAMPLE, INSERT THE DISKETTE, PRESS THE 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!)

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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)

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- LINK FROM **BASIC** PROGRAM TO ANOTHER SAVING ALL VARIABLES
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- XHIT...CAN BE USED TO REPAIR A DISKETTE DIRECTORY
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- SUPERZAP FOR READING AND MODIFY ANY SELECTOR ON A DISKETTE

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ABOUT THE BOOK

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In 1977 David Lien wrote the Original Level I TRS-80 Learner's Manual furnished with all Model I computers. This step-by-step, illustrated, nonintimidating manual introduced thousands of beginners to the concepts and practices of BASIC programming. The manual was a huge success, and won universal acclaim as the best BASIC training manual ever written. Dr. Lien's teaching style created an immediate rapport with novice users, helping them to feel more comfortable with their computers, and more curious to about programming. Translated into numerous foreign languages, it soon became the world's best selling tutorial-style computer book. A revised version is still sold by Radio Shack.

Level II BASIC was introduced in 1978 and Dr. Lien wrote **LEARNING LEVEL II** released by Compusoft Publishing. This book was bought by thousands of users at $16.95, and quickly became the standard training manual for Level II BASIC (although the book is NOT sold by Radio Shack). In addition to teaching users how to take advantage of the power of Level II BASIC, this book helped bridge the gap between Level I and Level II.

In his own unique style, Dr. Lien has used his great expertise to create the most comprehensive training manual ever written on BASIC programming for all TRS-80 computers. Completely re-organized and updated. **LEARNING TRS-80 BASIC** clearly instructs you in BASIC programming for TRS-80 Models I, II, III and 16 in a smooth flowing, easy-to-understand tutorial style. In addition to complete descriptions of each BASIC command, one or more sample programs are included to illustrate each command's use. Even the "know-it-all" programmer who thinks he knows all there is to know about BASIC will find a wealth of information not available elsewhere on use of PEEKs and POKEs, sorting techniques, disk BASIC usage, error handling and more. Schools teaching BASIC programming will find this to be an ideal textbook, with question and answer approaches and exercises at the end of each section that help the student make sure he understands the most important concepts, and is ready to move on to the next section.
Whether you're a beginner or an expert programmer, whether you're studying alone at home, or in a class with a teacher, **IF YOU OWN A TRS-80, YOU NEED A COPY OF THIS BOOK.**

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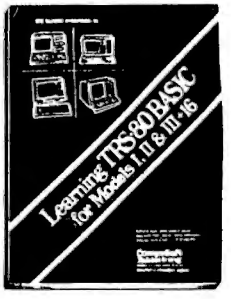

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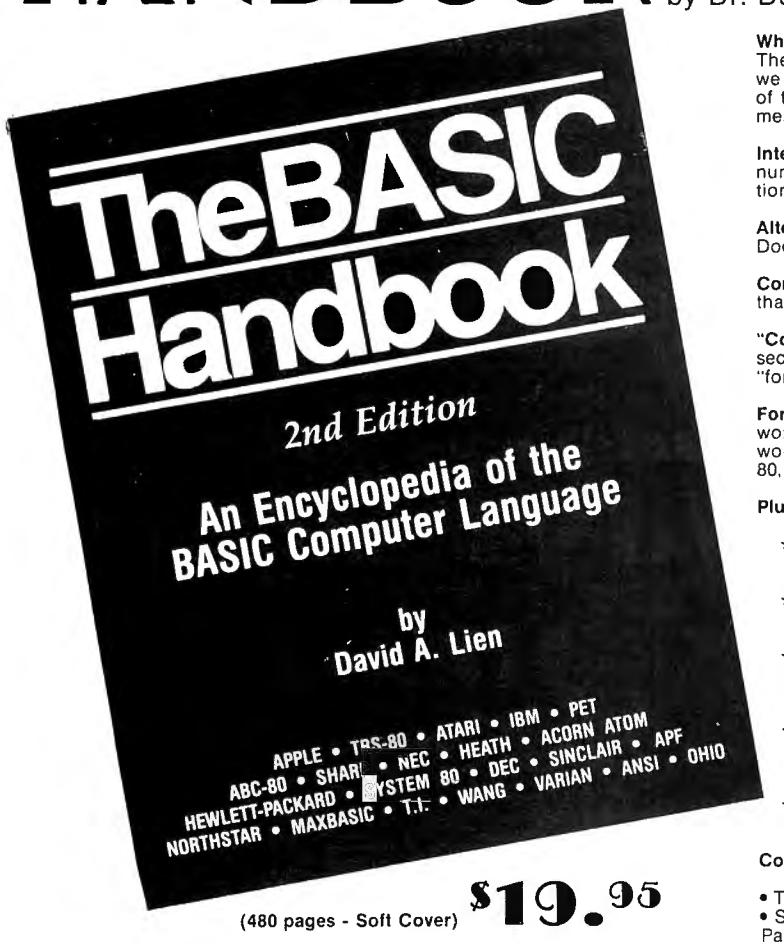
An Encyclopedia of the BASIC computer language.
by Dr. David A. Lien



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The BASIC Handbook has never been this complete. The Expanded Second Edition gives you over twice as much information as the First Edition, explaining nearly 500 BASIC words. The Handbook features special sections on Disk BASIC, TRS-80 Extended Color BASIC, Atari BASIC, Acorn Atom BASIC, Tektronix BASIC and "Converting Programs From One Computer For Another."

The computer industry has experienced tremendous change in the last three years. Hundreds of new computers have been introduced since The BASIC Handbook was released in 1978. The Second Edition meets the challenge head-on, documenting every significant BASIC word used by every BASIC-speaking computer.

This new Edition makes program conversion easy. Its widely acclaimed feature, "If Your Computer Doesn't Have It" has been expanded. Each BASIC word is alphabetically listed, with **Test Programs** and **Sample Runs, Variations in Usage** combine with **Alternate Spellings** to totally cross-reference each BASIC word.

Who needs the BASIC Handbook?
Every user of the BASIC language needs the Handbook! Hobbyists converting between BASIC "dialects" need it. Students learning and using BASIC on any size computer need the Handbook as a supplement to their BASIC language text. Programmers at every level will use it constantly to find better ways to achieve the needed results.

What versions of BASIC does it cover?
There are nearly a **hundred** versions of BASIC in use today. No wonder we keep seeing strange new BASIC words. Dr. Lien has selected over 50 of the most used dialects and explained every commonly used statement, function, operator and command.

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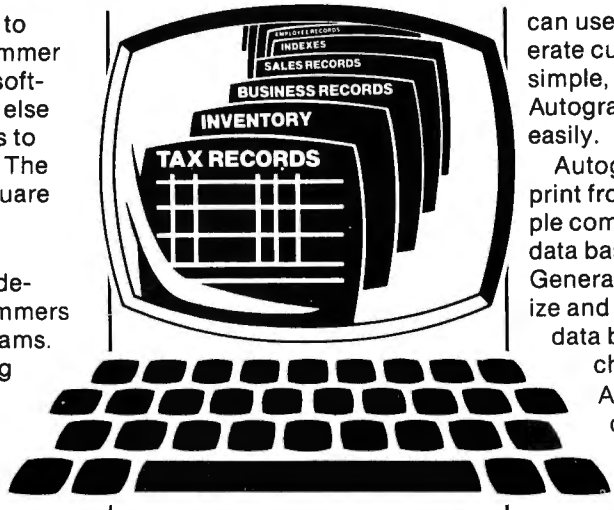

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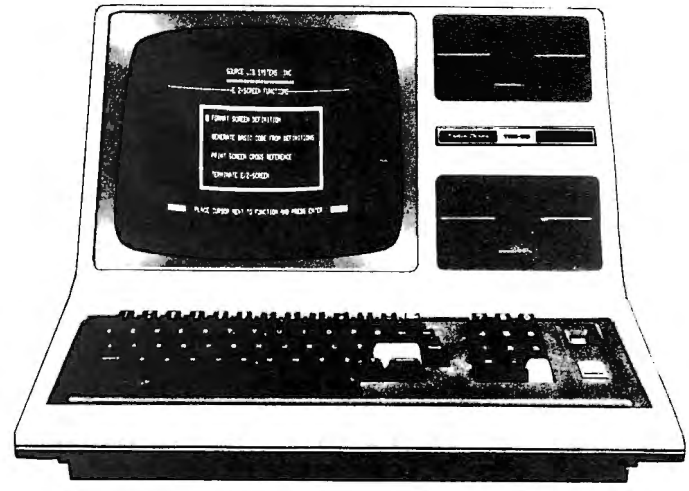

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SYSTEM REQUIREMENTS
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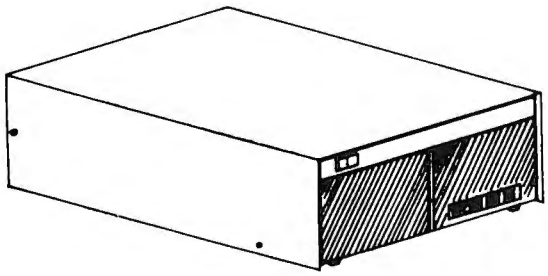

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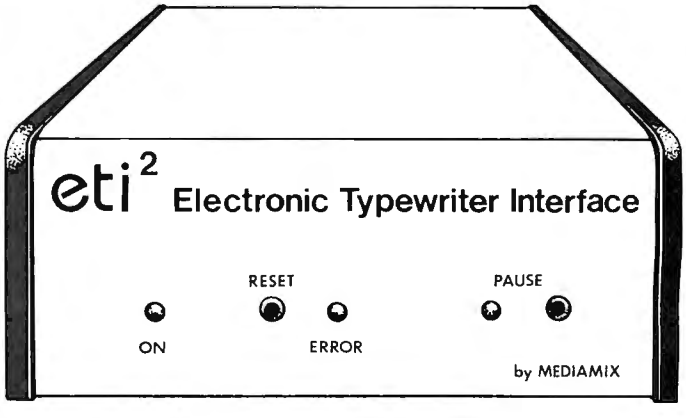

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The BASIC/S Compiler System consists of two main programs - BASIC/S and BASIC S II/CMD - along with numerous supplementary files. Both BASIC/S and BASIC/S II are compilers for a large subset of TRS-80 Disk BASIC - the first one, BASIC/S, is itself 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.

$89.95 *(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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change expanded print
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or underline in mid-line!
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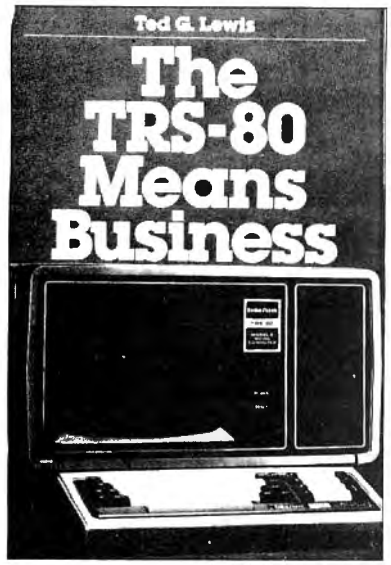

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SOUNDWARE is a complete system. It includes a speaker/amplifier unit with volume control, earphone jack, and connectors. It boasts excellent tone quality yet is small and convenient to use. Add batteries, plug it in, and play. One year warranty.

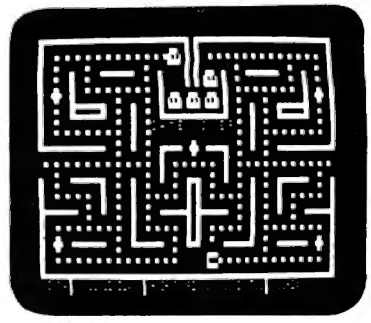
The INTRO to SOUNDWARE programs include "Demo" and "Sound" Composer" and provide all the tools for programming you need to make sound. You get . . . .

- A variety of sample effects and musical notes.
- Directions to easily create your own sounds and tunes.
- Complete instructions, including sample BASIC subroutines for adding sound to any program.

INTRO to SOUNDWARE programs only TRS-80 MOD I and MODEL III and PET **$14.95**

SOUNDWARE PACKAGE (includes INTRO to SOUNDWARE programs)
TRS-80 *Level II, (16K),* MOD III and PET **$29.95**

SCARFMAN



ATTENTION!

Production of SCARFMAN has been DISCONTINUED, so we bought up every copy we could get our hands on! Get 'em while they last!

THE LATEST ARCADE CRAZE now runs on your TRS-80. It's eat or be eaten. You control Scarfman around the maze, gobbing up everything in your path. You attempt to eat it all before the monsters devour you. Difficulty increases as game processes. Excellent high speed machine language action game. From The Cornsoft Group, with Sound.

CAUTION: Played with the Alpha Joystick, Scarfman may become addictive

MODEL I or III	*(tape)* $15.95
	(disk) $19.95
COLOR COMPUTER	(tape) $19.95

From Acorn Software

Fast Action Machine Language Games

INVADERS FROM SPACE

The exciting TRS-80 version of this classic space game. **Warning!** This game is guaranteed to be habit-forming!

PINBALL

Get your flipper fingers ready for action-this game is so realistic that you'll have to remind yourself not to shake your TRS-80.

BASKETBALL

Try to keep up with the action and outscore your opponent in five minutes of fast-paced one-on-one basketball.

DUEL-IN-DROIDS

Teach your 'Droid how to fight with a laser sword, then control him as he battles to the death with the computer's 'Droid.

Available for TRS-80 Models I and III

TAPE - $14.95 Each **DISK - $20.95 Each**

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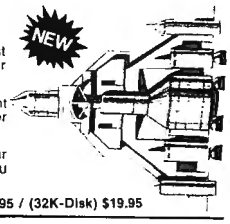
The best fast-action arcade games for the TRS-80™ come from

BIG FIVE

NEW STELLAR ESCORT©



Federation forces in Aries Quadrant 3 have made their first major advancement since the beginning of the war against the hostile Cretonian Empire. Unfortunately, the Cretonians attacked the entire Federation by surprise, depleting their supplies to near nothingness. The Federation's gallant efforts now depend on you, the Escort fighter pilot.

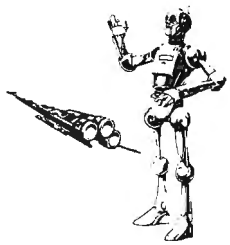
The supply cruisers from the Federation are not equipped for heavy battle assaults which will be encountered on the front from the hostile Cretonians, therefore your mission is to intercept the supply cruisers, place them in your fighter's tractor beam and escort them through the Cretonian battle front while warding off all assaults.

Collisions between your supply cruiser and any other craft will result in an immediate feedback of power along your tractor beam leading to total destruction. You must fire accurately because exhausting your fuel supply will leave you unprepared for the battle with the most devastating alien yet encountered in this quadrant! the Cretonian Cruncher!

TRS-80 MOD I & III (16K-Tape) $15.95 / (32K-Disk) $19.95

ROBOT ATTACK©

The newest & finest game is now available! **"Robot Attack"** begins by displaying an urgent message from Space Central on your electronic news viewer. It seems that robots from the Planet "Jidya" have captured one of Earth's valuable space stations. Alarms all over the space station are screaming out **"Robot Attack! Robot Attack!"** Boldly, you make the decision to transport yourself to this space station and destroy every last robot! As you finally reach your destination, you find yourself in a dark corridor that appears very quiet and deserted. Almost from nowhere, robots materialize in almost every corner of the compartment that you're in. Quickly & skillfully you fire your laser pistol to destroy them. In a blinding flash, their bodies explode and disintegrate. After every last one is gone you carefully enter the next compartment. Once again your battle is successful. It seems that you are just too quick for the slow computer minds and the archaic photon lasers that these robots possess. Somewhere you here a low humming sound that is steadily getting louder. "I've heard that sound before", you say to yourself. Finally you remember that it is the sound of the new long range matter transporter that the Jidyans have recently developed. Could they be transporting the --, no, they wouldn't send one of those just to destroy a human. Oh no! They did! It's the evil Flagship!

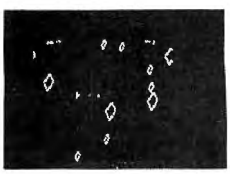


TRS-80 MOD I & III (16K-Tape) $15.95 (32K-Disk) $19.95

NEW DEFENSE COMMAND©

The Galaxy Invaders have returned in this exciting new twist on the ever-popular invasion theme. You are in command. You must protect the vitally important nuclear fuel cannisters from fleets of attacking aliens. Plays on Mod I & Mod III, with or without Joystick. **With Sound!**

TRS-80 MOD I & III **(16K-Tape) $15.95**
(32K-Disk) $19.95

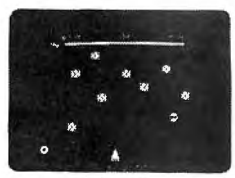


SUPER NOVA©

If you and your TRS-80 have longed for a fast-paced arcade-type game that is truly a challenge, then **SUPER NOVA** is what you've been waiting for. In this two player machine-language game, large asteroids float ominously around the screen. Suddenly your ship appears and you must destroy the asteroids before they destroy you! (But watch out because big asteroids break apart into little ones.) The controls that your ship will respond to are thrust, rotate, hyperspace, and fire. All right! You've done it! You've cleared away all the asteroids! But what is that saucer with the laser doing? Quick! You must destroy him fast because that guy's accurate!

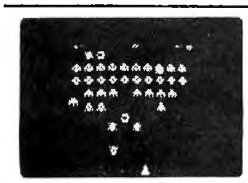
TRS-80 MOD I & III (16K-Tape) $15.95 / (32K-Disk) $19.95

COSMIC FIGHTER©



With thousands of stars whizzing by you, your **SPACE DESTROYER** ship comes out of hyperspace directly under a convoy of aliens. Almost effortlessly, you skillfully destroy every last one. But before you can congratulate yourself, another set appears. These seem to be slightly more intelligent than the first set. Quickly you eliminate all of them, too. But your fuel supply ic rapidly diminishing. You must still destroy two more sets before you can dock with your space station. All right! The space station is now on your scanners! Oh no! Intruders have overtaken the station! You must skillfully fire your neutron lasers to eliminate the intruders from the station before your engines run out of fuel and explode! With sound!

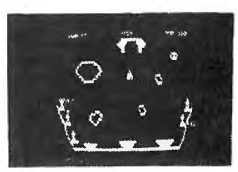
TRS-80 MOD I & III (16K-Tape) $15.95 / (32K-Disk) $19.95



GALAXY INVASION©

The sound of the klaxon is calling you! Cruel and crafty invaders have been spotted in battle formation warping toward Earth at an incredible speed. Suddenly, your ship materializes just below the huge flock of invaders. Quickly and skillfully you shift right and left as you carefully fire your lasers at them. But watch out! A few are breaking out of the convoy and flying straight at you! As the whine of their engines gets louder, you place your finger on the fire button knowing all too well that this shot must connect—or your mission will be permanently over! With sound effects!

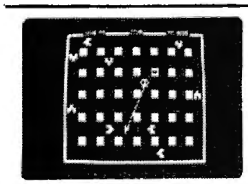
TRS-80 MOD I & III (16K-Tape) $15.95 / (32K-Disk) $19.95



METEOR MISSION II©

As you look down on your space viewer you can see the stranded astronauts that are crying out for you to rescue them. But first you must maneuver your shuttle down through the asteroids & meteors before you can reach them. Great! You've got one! But now can you get back to the space station to save your fellow shipmate or will you crash and kill both of you? You can fire your lasers to destroy the asteroids, but watch out, because there could be an alien FLAGSHIP lurking behind! Includes sound effects!

TRS-80 MOD I & III (16K-Tape) $15.95 (32K-Disk) $19.95

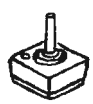


ATTACK FORCE©

Your TRS-80 screen has been transformed into a maze-like playfield for this game. As your ship appears on the bottom of the screen, eight alien ramships appear on the top. All of them are traveling at flank speed directly at you! Quickly and boldly you move toward them and fire missiles to destroy them. But the more aliens you destroy, the faster the remaining ones become. If you get too good you must endure the wrath of the keeper of the mazefield: the menacing "Flagship". You must destroy him fast because, as you will find out, that guy's accurate! With sound effects!

TRS-80 MOD I & III (16K-Tape) $15.95 (32K-Disk) $19.95

TRISSTICK™



The famous ATARI™ joystick has been adapted to the TRS-80™ Models I and III! TRISSTICK™ is compatible with all BIG FIVE games and comes with instructions for use with your own programs. Specify Model I or III **$39.95**

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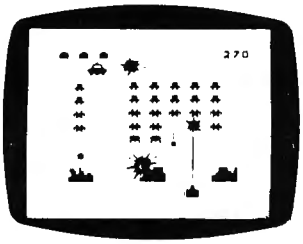
TRS-80™ COLOR COMPUTER

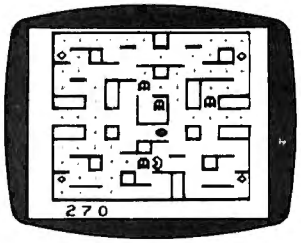
Software From **SPECTRAL ASSOCIATES**

SPECTRAL ASSOCIATES, the LEADER in TRS-80 Color Computer software, presents the best in 16K machine language, fast action, high resolution arcade games. Extended Basic not required.



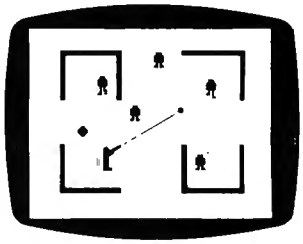
COSMIC INVADERS

The best invaders type game available. Complete with 16 skill levels, dynamite sound and 4 color hi-res graphics. Can you dodge the bombs long enough to blast the alien ship and invaders? $21.95.



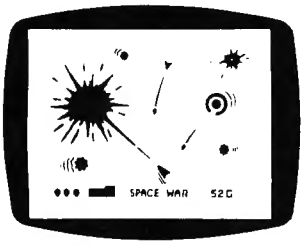
GHOST GOBBLER

An exciting version of the popular PAC-MAN game with power dots, 8 bonus shapes, super sound and 16 skill levels. Hours and hours of challenging fun. Joysticks $21.95



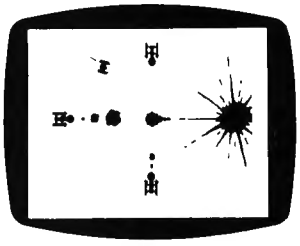
ROBOT BATTLE

Can you dodge the never ending horde of robots while avoiding the fatal touch of the Android? Realistic voices and 16 skill levels provide a tremendous arcade type challenge. Joysticks, $21.95.



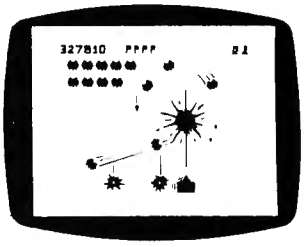
SPACE WAR

Maneuver your spaceship through the defenses of the Death Star for the killing shot while avoiding space mines, enemy ships and the gravity pull of the BLACK HOLE. Two color hi-res graphics - $21.95 Joysticks



COLOR ZAP

Super new space game! You must dodge the incoming photon torpedos before they can penetrate the defenses of your ship. Once you think you've got the upper hand, defensive fighters may appear and attack. $9.95



GALAX ATTAX

If you like Space Invaders, you'll love Galax Attax! Alien fighters leave formation to attack your ground base and you must fight them off! Exciting, fast-action machine language game with super sound and high resolution graphics. 16K and joysticks required. $21.95

NEW 16K MACHINE LANGUAGE GAMES

- KEYS OF THE WIZARD $19.95
  Best new adventure game available - over 200 rooms filled with creatures, tricks, treasures, magic spells. Cassette save feature built in.
- COLOR OUT $9.95
  Like Breakout, you must knock out six layers of blocks using your paddle to prevent missiles from escaping. Joysticks optional.

SUPERCHARGER

If you have a 32K E series printed circuit board, the **SUPERCHARGER** will let you switch your computer to full 64K RAM mode. It just plugs into the ROM PAK port and you can use BASIC or not as you wish. NO MODIFICATION is needed and it will not void your warranty. It allows you to still plug ROM pack and/or the disk controller board into the computer. ONLY $39.95

FLEXPLUS DOS

FLEXPLUS is a powerful, easy-to-use disk operating system. Spectral Associates has adapted TSC's FLEX to the best DOS completely compatible with Radio Shack software for use on the Color Computer. Eliminate the need for Radio Shack's TRS DOS - use **FLEXPLUS** with Editor/Assembler and have the options of a full range of utilities. **FLEXPLUS** works on the 32K Radio Shack disk system with 64K memory chips with a High Resolution multi-screen format that supports a 24 line by 51 character display! Also included are special enhancements to Radio Shack's Disk system when you are running FLEX with single or double sided, single or double density, 35, 40 and 80 track drives.

Advantages of FLEXPLUS are:

- Best price anywhere
- Easy start-up — just type "RUN FLEX+"
- Allows you to save RS compatible disk files from **FLEXPLUS**
- All FLEX compatible software will run including INTERRUPT DRIVEN SOFTWARE
- NO HARDWARE MODIFICATIONS NEEDED
- Warranty will not be voided — no need to open computer
- Wide range of available software
- Requires Supercharger board
- $149.95 for **FLEXPLUS**, Editor/Assembler and Supercharger

THE FACTS

At last, a complete description of the "guts" of the Color Computer. Specs on all the ICs, complete schematics, theory of operation and programming examples.

$14.95

UTILITIES

- EDITOR/ASSEMBLER $49.95
- SUPER MONITOR 19.95
- EPROM PROGRAMMER 89.95
  (Program your own ROMs for the ROM PAC port)
- MAGIC BOX 24.95
  Load MOD I/III Basic Tapes into color computer

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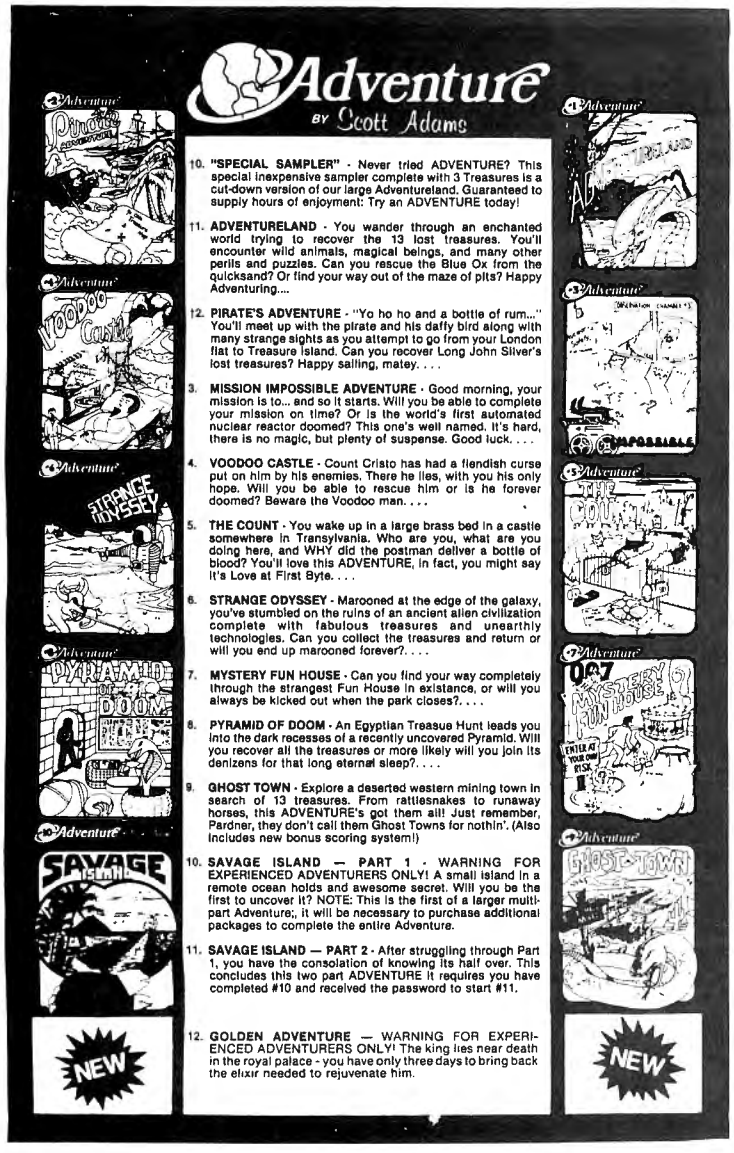

† Recommended for the novice Adventurer, with many built in HELPS!

ADVENTURE PRICE LIST

ADV. No.	TRS—80 Model I & 3 16K Tape	TRS-80 Model 1 & 3 32K Disk	APPLE 2 24K Tape to Disk	APPLE 2 48K Disk	ATARI 24K Tape to Disk	ATARI 32K Disk
0	$ 6.95		$ 6.95		$ 6.95	
1	$24.95		$24.95		$24.95	
2	$24.95		$24.95		$24.95	
3	$24.95		$24.95		$24.95	
4	$24.95		$24.95		$24.95	
5	$24.95		$24.95		$24.95	
6	$24.95		$24.95		$24.95	
7	$24.95		$24.95		$24.95	
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1-2-3		$39.95		$39.95		$39.95
4-5-6		$39.95		$39.95		$39.95
7-8-9		$39.95		$39.95		$39.95
10-11-12		$39.95		$39.95		$39.95

OTHER POPULAR ADVENTURE SOFTWARE:

	TRS-80	APPLE	ATARI
Lunar Lander - Tape/Disk	/$24.95	--	$24.95
Missile Attack - Tape/Disk	$14.95/$20.95	--	--
Planetoids - Tape/Disk	$19.95/$20.95	$14.95/$19.95	--
Star Fighter - Tape/Disk	$24.95/$29.95	--	--
Galactic Empire - Tape/Disk	$14.95/$19.95	--	$19.95
StarFlite	/$39.95	--	--
Space Intruders - Tape/Disk	/$24.95	--	--
Stone of Sisyphus - Disk	/$29.95	/$29.95	--
Interactive Fiction - Pac-Disks	/$29.95	/$29.95	--
Eliminator - Tape/Disk	$19.95/$24.95	/$29.95	--
Treasure Quest - Tape/Disk	$14.95/$19.95	--	$14.95
Armor Patrol	$19.95/$24.95	--	--
Sea Dragon	$19.95/$24.95	--	--

ALSO FROM ADVENTURE:
TRS-80 MODEL II 8" DISK

Adventures 1 thru 12 — REQUIRES TRSDOS 2.0 or CP/M (Z-80) . $129.95
Interactive Fiction Quadpack (64K 2.0) $49.95

AND FOR YOUR COLOR COMPUTER:

Color Computer Games #1 - Tape $19.95
Color Craps $19.95
Color Star Flite $39.95

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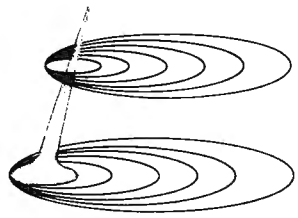
MAIL/FILE SERIES II



GALACTIC SOFTWARE LTD.

TRS-80™ MODELS I, II and III

The Mail/File Series II System is designed to meet all the requirements of a Mailing List data base manager. No effort has been spared to provide for maximum operator ease, while retaining overall system flexibility. Each Mail/File Series II System is fully supported by Galactic Software. It is without a doubt the most versatile package of its kind.

Mail/File Series II is designed to run on the TRSDOS or LDOS operating system.

1. Maximum capacities are as follows:

Model I	600 Names Per File
Model III	1200 Names Per File
Model II	2500 Names Per File

2. Nine data fields plus Mail/File System Control Number are provided.

#0 Control #	4 Characters
#1 Name #1 (or company name)	27 Characters
#2 Name #2 (or individual)	27 Characters
#3 Address	27 Characters
#4 City	15 Characters
#5 State	3 Characters
#6 Zip Code	11 Characters
#7 Telephone Number	14 Characters
#8 Telephone Extension	4 Characters
#9 Code	6 Characters

3. All records are sorted Alphabetically and by Zip Code. Alphabetic sort is by a combination of Name #1 plus Name #2.
4. Each entry is sorted into the system when entered. An assembler module allows for quick sorting, with an average wait of about 5 seconds per added item. Deletions are performed within 5 seconds, no matter how many items are in the list.
5. The Mail/File System provides for an 11 digit alpha/numeric Zip Code, allowing the system to handle both foreign and domestic Zip Codes.
6. Complete record maintenance is supported. Editing of any data field, including sorted fields, is allowed.
7. Records can be accessed in Alphabetic, Zip Code, or Control Number order. Control Number access is immediate, while access in Alphabetic or Zip Code order is always less than 10 seconds, even when operating at maximum capacity.
8. To provide for literally thousands of sublists, additional access criteria may be specified as follows:
   - And data field other than Name #1, Zip Code, or Code may be used as an inclusion criteria.
   - Up to 19 different whole or partial Codes may be used as inclusion criteria.
9. The Mail/File System supports standard 3-line and 4-line labels, with provisions for a user entered message line. Labels may be printed in single or multiple across formats. Zip Code changes may be identified during label printing and directory printing if required. The total number of items printed is always included during any printout operation.
10. The Mail/File System supports Directory printouts of 80 or 132 columns. The 132 column directory supports up to 199 lines per page, and includes full heading and page numbering. Control number is included in both types of directory listings to allow access by Control Number for purposes of editing.
11. The Mail/File System also allows printouts to be structured in a unique User Defined format with up to 16 format lines per data record, providing the exact type of output required by the user.
12. "Word Processor" type input editor allows for transparent cursor positioning, type over, and character insertion and deletion.
13. User may request a printout of items as they are added to the file.
14. A unique "Totaling" option allows the counting of items meeting user specified criteria.
15. Extensive error trapping has been employed to insure the integrity of the Mail/File System and to help eliminate operator error.
16. All data records created by Mail/File are upward compatible with all of Galactic's Mailing List programs.
17. Full Support is provided by Galactic Software for this and all its products. You may contact Galactic Software directly for full, professional assistance at any time.

MODEL I	**$159.00**
MODEL II	**$199.00**
MODEL III	**$159.00**

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PROPERTY MANAGEMENT/GENERAL LEDGER

This is a truly flexible system designed for use by both property owners and property managers. The system is easy to use even for the computer novice.

This system consists of a set of programs which track rental income and expenses and provide general ledger accounting as well as management reports which are timely and accurate. Income and expense data is entered into the system by filling in on-screen forms. Corrections can be easily made at any time.

Features:

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CHECK PRINTING
LATE RENT REPORT
VACANCY REPORT
EXPENSE DETAIL REPORT
VENDOR EXPENSE REPORT
UTILITY EXPENSE REPORT
TAX EXPENSE REPORT
OPERATING STATEMENTS

System Requirements:
A 48K system with at least one disk drive. All reports can be printed on an 80-column printer.

Property Management System $375.00

PROPERTY LISTING & COMPARABLES

This is a complete system for maintaining real estate listings and comparable sold properties. The system store complete information about each property and includes a comprehensive screening capability that allows you to search for properties based on certain user-selected criteria. All property information is entered and updated by filling in a form on the computer screen.

Features:

ATTRIBUTE SELECTIONS — Selection of properties on file based on maximum and minimum price, number of bedrooms, number of units, city and zone can be made in any combination.

PERFORMANCE SELECTIONS — Selection of properties can also be made based on a maximum gross factor, a maximum price per square foot of improvements and a minimum cashflow requirement in any combination.

System Requirements:
A 48K system with at least one disk drive and a standard 80-column printer.

Property Listing System $325.00

REAL ESTATE ANALYSIS PROGRAM MODULES

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.

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

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CONSTRUCTION COST/PROFIT
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APR LOAN ANALYSIS
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.

INCOME PROPERTY ANALYSIS
A superb tool for comparing income-producing properties, this module will provide a thorough financial analysis of almost any income-producing property in minutes.

TAX DEFERRED EXCHANGE
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.

LOAN WRAP RETURN
When selling or buying properties involving a wrap-type of loan this program will show the actual percentage return to the seller.

LOAN SALES/PURCHASE
This flexible module will calculate either the present value of a loan base on the required percentage of return, or the percentage return based on the price paid for the loan.

DEPRECIATION/ACRS
Based on the new law governing real estate and other depreciable assets, this program calculates and displays both straight-line depreciation and the Accelerated Recovery System figures for assets in the 3, 5, 10 and 15-year life categories.

Real Estate Analysis Modules ..... $50.00 each

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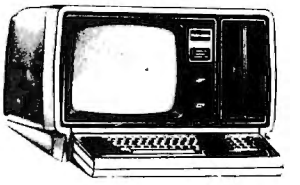
MOD II/16 NEWSLETTER

THE NEWSLETTER FOR OWNERS OF TRS-80™ MODEL II and MODEL 16 MICROCOMPUTERS.



The MOD/16 NEWSLETTER is a special publication that keeps MOD II and 16 owners aware of the latest news, helpful hints and other information related to the most powerful TRS-80's™

In its pages you will find:

- News and reviews of the latest software releases
- Information on hardware upgrades and modifications
- A forum for readers to express their opinions and exchange tips on running the Model II and 16
- Descriptions of books for Model II and 16 owners
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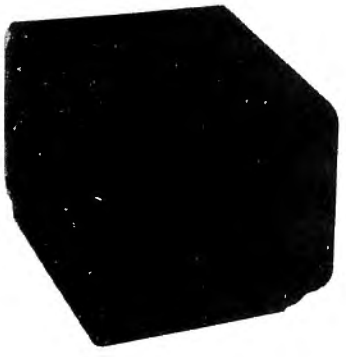

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THE ALPHA GREEN SCREEN Please specify model. **ONLY $12.50**

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(3) FASTBACK (Racet Computes)...A full disk backup in 55 seconds on systems with 2 or more disk drives - including verification. Can replace your existing TRSDOS 1.2 or 2.0 Backup Utility..... $75.00

(4) MOD-II UTILITY PACKAGE (Racet Computes).... adds important utilities to TRSDOS.....copy files selectively...faster and more accurate file copying... repair bad directories...displays sorted directory of all files on 1 to 4 disk drives...SUPERZAP...change disk ID...and more. $150

(5) ADVENTURE #1-#12 (Scott Adams - Adventure International)...a series of games formally only available on the large computers...your goal is to work your way through a maze of obstacles in order to recover a secret treasure or complete a mission...the package includes all 12 Adventures written by Scott Adams. $129.95

(6) GSF (Racet Computers)...Generalized Subroutine Facility...a series of super fast machine language utilities that can be called from a BASIC program (no machine language knowledge required)...sorts 1000 items in under 5 seconds...allows PEEK and POKE statements...move data blocks...compress and uncompress data. .works under TRSDOS..... $50

(7) DSM (Racet Computes)...Disk Sort Merge...sorts and merges large multiple diskettes files on a 1 to 4 drive system...NOT AN IN MEMORY SORT...can actually alphabetize (or any other type of sort) 4 disk drives worth of data...sorts one complete disk of information in 10 minutes...information is provided to use DSM with the RS MAILING PROGRAM...works under TRSDOS..... $150

(8) RSM (Small Systems Software).....a machine language monitor and disassembler...can be used to see and modify memory of disk sectors...contains all the commands found on the Model-I version plus some additional commands for the MOD-II...works under TRSDOS..... $39.95

(9) BLINK BASIC LINK FACILITY (Racet Computes).. Link from one BASIC program to another saving all variables...chain program without losing variables $50

(10) BASIC CROSS REFERENCE UTILITY (Racet Computes)...lists all variables and strings used in a program (with the line numbers in which they appear) ...lists all GOTO's (with the line numbers in which they appear)...searches for any specific variables or strings (with the line number in which they appear) $50

(11) DEVELOPMENT PACKAGE (Racet Computes) SUPERZAP (to see, print or change any byte on a diskette)...Disassembler and MOD-II interface to the MICROSOFT EDITOR ASSEMBLER PLUS including uploading services and patches for Disk I/O..assemble directly into memory...save all or portions of source to disk...dynamic debug facility (ZBUG)...entended editor commands $125

(12) HARD/SOFT DISK SYSTEM (Racet Computes)... The software essential to interface any of the popular large hard disk drives...completely compatible with your existing software and files...allows up to 20 megabytes of storage (and larger)...directory expandable to handle thousands of files $400

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(15) H & E COMPUTRONICS, INC. SHARE-A-PROGRAM DISKETTE #1...works under TRSDOS.....a collection of programs written by MOD-II owners... programs include data base management...a word processor...mail system...mortgage...calculations... checkbook register...and many others...$12 FREE if you send us a diskette containing a program that can be added to the SHARE-A-PROGRAM DISKETTE.

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(22) BASIC COMPILER* (Microsoft)...changes your source program into machine language...increases program execution by 3-10 times $395

(23) MAIL/FILE SYSTEM from Galactic Software Ltd. Stores 2,500 names per disk. No sorting time is required since the file is automatically sorted by first and last name plus Zip Code on input. Retrieve by any combination of 19 user codes. Supports an 11 digit alphanumerica Zip. Supports a message line. Comes complete with user-oriented documentation (100-page manual) Allows for company name and individual of a company and complete phone number (and extension)...works under TRSDOS..... $199.00

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(25) INTERACTIVE FICTION...is a story-teller using a computer, so that you, the reader, can actually take part in the story instead of merely reading .. $49.95

(26) SPEEDUP (Racet Computes).....Gives you a minimum 30% overall decrease in disk input/output time $99.95

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(1) CP/M (Lifeboat Associates)....an alternative operating system for the **MOD-II** that allows **MOD-II** owners to use any of the hundreds of programs available under **CP/M** $195

(2) CP/M HANDBOOK...(Sybex).....a step-by-step guide to **CP/M**...takes the reader through each of the **CP/M** commands...numberous sample programs... practical hints...reference tables $14.95

(3) GENERAL LEDGER, ACCOUNTS RECEIVABLE, ACCOUNTS PAYABLE, INVENTORY CONTROL, AND PAYROLL (Peachtree Software) Series 4 requires CP/M and MICROSOFT BASIC...professional business systems ..turn key operation...can be used as single modules or as a coordinated system. .$500 per module ..... $2500 for the complete system

(4) WORD-STAR...The ultimate word processor...a menu driven word processing system that can be used with any printer. All standard word processing commands are included...plus many unique commands only found on WORD STAR...requires CP/M $495.00

(5) MAIL LIST MERGE...An add on package that allows the user to send form letters (created on WORD-STAR) to any compiled mailing list (using any CP/M based MAIL program such as the PEACHTREE MAIL PROGRAM)...requires CP/M, WORD STAR and CP/M based mail program $150

(6) CBASIC-2...a non-interactive BASIC used for many programs that run under **CP/M**...allows user to make more efficient use of disk files...eliminates the use of most line number references...require on such programs as the **SELECTOR** $120

(7) MICROSOFT BASIC...an enhanced version of the **MICROSOFT BASIC** found on **TRSDOS**.....adds commands such as chaining (allows the user to LOAD and RUN a new program without losing the variables currently in memory)...long variable length file records, WHILE/WEND and others ..can be used with the BASIC COMPILER to speed up programs (3-10 times faster execution) $325

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(10) SELECTOR V (Micro-Ap)...The ultimate data management system...user defined fields and codes... manages any list defined by the user...includes additional modules for simplified inventory control, accounts receivable and payable...data file format conversions...full page report formatter...computations...global search and replace...data/text merging . hard disk compatible....requires CBASIC-2 .... $995

(11) T/MAKER II (Lifeboat Associates) The most advanced utility for the analysis and presentation of numerical data and text material...just set up your data in columns and rows, and T/Maker II does the rest ...change any number in the model and all the others are adjusted and recalculated...300-character wide screen editor...justify lines...formattables...move blocks of copy...global editing $275

(12) SMART TERMINAL Enables your TRS-80 to be used a remote terminal to a time sharing computer system. Supports upper/lower case and full range of control keys, including control key mapping into any ASCII character. Automatic transmission of files between TRS-80 and host computer. Files can be read from or written to cassette tape or disk. Incoming data can be printed on line printer or stored in memory for subsequent save to cassette or disk. Disk and tape files are fully compatible with the ELECTRIC PENCIL program. Baud rate and RS-232C sense switches can be reset without opening Expansion Interface. Requires RS-232C interface and modem $79.95

*** (CP/M IS A REGISTERED TRADEMARK OF DIGITAL RESEARCH)**

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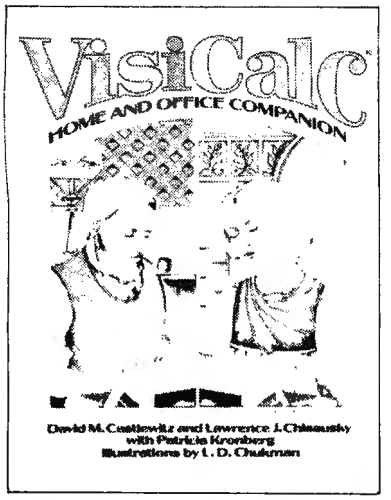

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by Lon Poole and Mary Borchers

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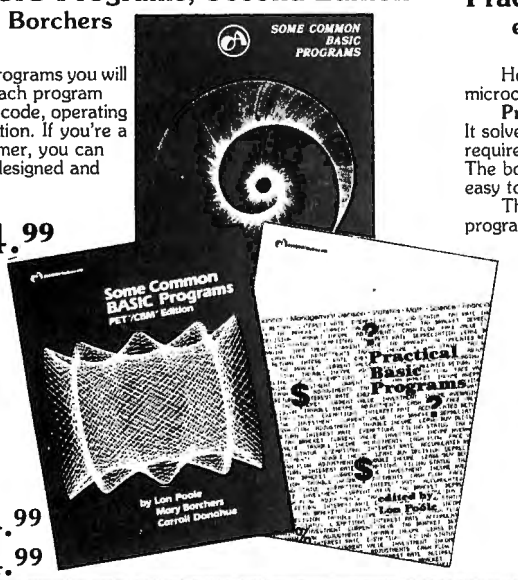

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This book is a valuable reference for anyone who needs a wide range of useful programs.

Examples of Programs in these books:

Some Common BASIC Programs

Regular Withdrawals from an Investment
Nominal Interest Rate On Investments
Effective Interest Rate On Investments
Depreciation Rate
Discount Commercial Paper
Check Writer
Regular Payment on a Loan
Mortgage Amortization Table
Linear Programming
Binomial Distributions
Linear Regression
Federal Withholding Taxes

Practical BASIC Programs

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Accrued Interest on Bonds
Rule of 78's Interest
Lease/Buy Decision
Depreciation Switch
Checkbook Reconciliation
Home Budgeting
Nonlinear Breakeven Analysis
Program Evaluation and Review Technique

Apple II User's Guide

by Lon Poole, Martin McNiff, and Steven Cook **$16.95**

This guide is the key to unlocking the full power of your Apple II or Apple II Plus computer. The **Apple II User's Guide** brings together in one place a wealth of information for Apple computer users. It will tell you more about your Apple than any other single source. This book will save you both time and effort. No longer will you have to search endlessly for useful information. It's all here, in the **Apple II User's Guide,** thoughtfully organized and easy to use.

Topics Include:

- **Applesoft and Integer BASIC programming** — especially how to make the best use of Apple's sound, color, and graphics capabilities.
- **A thorough description of every BASIC statement, command and function.**
- **Advanced programming** — special sections describe High Resolution Graphics techniques and other advanced applications
- **Hardware features** — the disk drive and printer are covered in separate chapters.
- **Machine level programming** — although not a machine language programming guide, this book covers the Machine Language Monitor in detail.

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TRS-80 Assembly Language

By Hubert S. Howe, Jr.

Now, for both first-time and experienced users of the TRS-80 microcomputer, there is a book that explains assembly language programming in a clear, yet easy-to-understand style. This outstanding training manual incorporates into a single volume all of the information you need to become familiar with assembly language programming for the TRS-80.

In this book you will find:

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- Completely tested practical programs and subroutines
- Details of ROM, RAM, and Disk Operating Systems
- Comprehensive charts, tables and appendices

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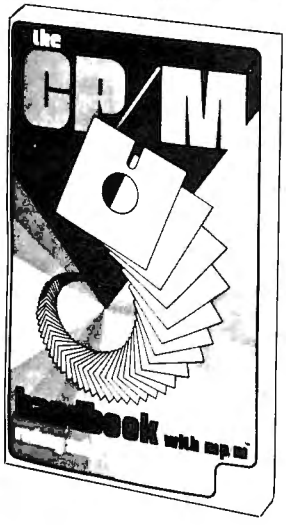

THE CP/M HANDBOOK (With MP/M) By Rodnay Zaks

This book is a complete guide and reference manual for CP/M - the standard microcomputer operating system. Most users of microcomputer based systems will at some time utilize CP/M - it is available on almost all 8080 or Z80 based computers as well as on some 6502 based computers. Beginning with a step-by-step description of start-up procedures—powering up the system, inserting diskettes and performing basic initial operations (including diskette duplication)—the book progresses to detailed explanations of PIP, the file transfer program, DDT, the debugging program and ED, CP/M's text editing program for creating and updating files. Reference chapters will complete practical hints and an introduction to CP/M's internal operation complete this thorough treatment of CP/M. Extensive appendices summarize all commands for ready reference. The standard guide to CP/M.

LEVEL: First time computer users, input typists, business users as well as experienced programmers.

CONTENTS: Introduction to CP/M and MP/M • CP/M and MP/M Facilities • Handling Files With PIP • Using The Editor • Inside CP/M (And MP/M) • (Reference Guide To CP/M and MP/M Commands and Programs • Practical Hints • The Future • Appendices • Index

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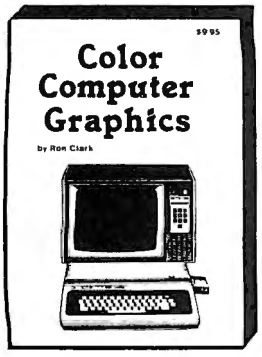

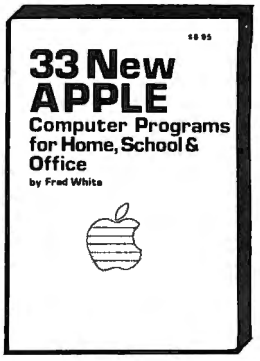

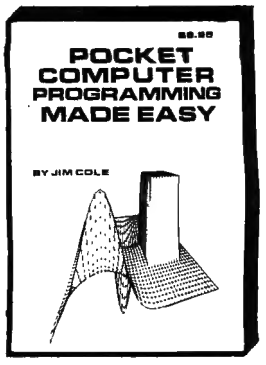

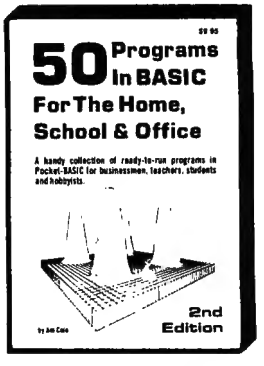

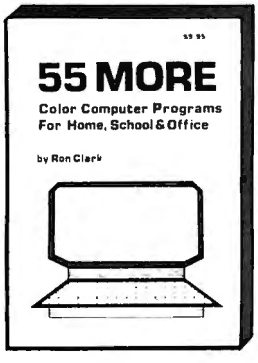

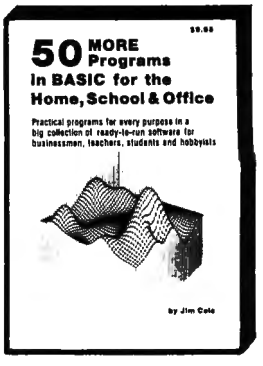

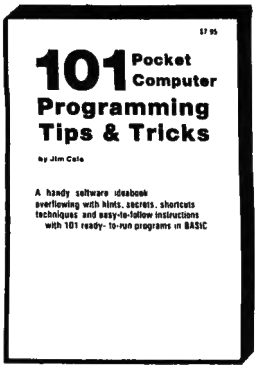

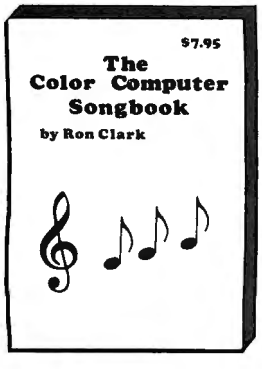

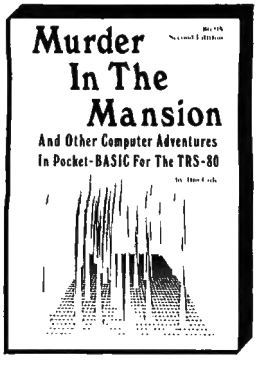

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Announcing!

DOS RANDOM ACCESS & BASIC FILE HANDLING

Written For TRS—80 and All Computers Using MICROSOFT basic

FINALLY IT IS HERE. At last someone wrote a book on disk random access and file handling. A book written for the non-programmer. Written for the businesman and professional who need to solve and write special programs for in house business problems.

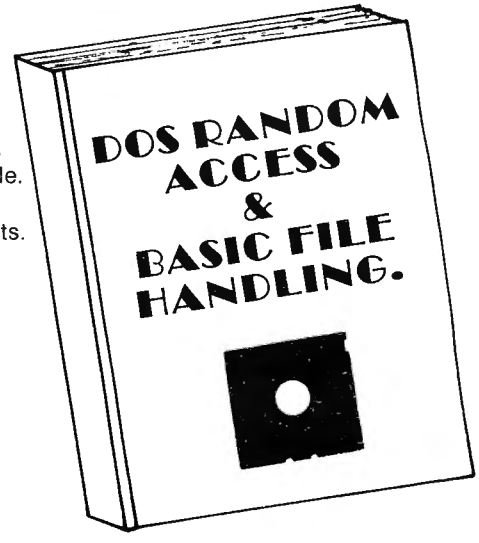
Written for the hobbyist who wants to go beyond the cassette recorder and into disk storage and file manipulation.

This book handles a subject of reasonable complexity, so simple and down to earth, that anyone with some Level II experience can cope with the material.

This book is written using a simple program as a starting point. The programs grow in ability and complexity as the book progresses into the various aspects of file handling and record manipulation. Extensive effort has been made to keep the material coherent and every program line is explained in detail.

The programming material presented in this 150 page self-instruction tutorial will provide any non-programmer with the ability to write special programs for inventories, mailing list, work scheduling, record keeping, research project data manipulation, etc. The subjects covered in this edition are as follows . . . . .

(A) The writing of a Menu to summarize program functions.
(B) The writing of a screen format to accept record data.
(C) The creation of the basic record.
(D) The Fielding and LSET routines for buffer preparation.
(E) The writing of the record to disk in a Random Access mode.
(F) The retrieval of a record from disk in a Random Access mode.
(G) The ability to change or edit a record.
(H) The LPRINT capability from disk using three different formats.
(I) Deleting a record from a Random file.
(J) Sorting the Random file.
(K) Searching the Random file by name or other keyfield.
(L) The ability to search in a "NEXT or PRIOR" fashion.
(M) The ability to purge a disk file from deleted records.
(N) The ability to calculate with data from a disk file.
(O) The provision for future expansion of the data fields.
(P) The use of flags to prevent program crashes.
(Q) Date setting, printer on-line, and many other routines that make a program run like a commercial written program.



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A 27-command monitor program with capabilities for entering, executing, savings and loading machine language programs. Commands to search, display, edit, zero, exchange, test, fill and verify memory. Also provides links for keyboard and CRT display access for users.

Provides access to all memory locations. You may examine your Basic ROM's, test your RAM, enter and execute machine language programs, read and write machine language tapes.

You can set BREAKPOINTS in your programs, write SYSTEM tapes, READ SYSTEM tapes and display their name and starting address, and PRINT any command with the TRS232 printer interface or the Radio Shack expansion interface! Disk commands (see RSM-2D) are included for future expansion of your system. RSM-2 loads from cassette into the top 5K of memory in Level I or Level II 16K computers so that it can reside in memory with other programs! **$26.95**

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This special disk version of RSM-2 has all the commands of both RSM-1S and RSM-2, including two commands that read or write disk sectors directly! You can read any number of disk sectors into any memory area, or write any memory area to disk! A truly unique tool for use with disk systems. RSM-2D is furnished on disk with three versions that load and run in the top 5K of 16K, 32K and 48K computers. A special loader program prompts you to select the desired version, which then loads and executes. If desired, you can make CMD files of RSM-2D by use of the TAPE-DISK command for direct execution from TRSDOS. **$29.95**

RSM-II for Model II $39.95

DCV-1 Converts Machine Language Programs From A Tape To A Disk Program

DCV-1 is a special SYSTEM tape that allows you to convert nearly any machine language program from a tape to a disk program. Nearly all of our software may now be executed from your disk system! This includes RSM monitors, The Electric Pencil, Air Raid, RSL-1, ESP-1 or any program that occupies less than 5K (Larger programs may be handled if you have more than 16K of memory). After DCV-1 is loaded, DCV-1 then loads any SYSTEM tape into memory starting at 6C00 Hex. A short block-move program is added at the beginning of the program, and the parameters necessary to create a disk file are displayed on the screen. TAPEDISK is then used to create a disk file. When accessed, the program loads at 6C00 Hex, moves itself to its correct address, then jumps there and executes! A super accessory for disk systems! **$19.95**

AIR RAID A Real-Time Shooting Gallery

AIR RAID is an arcade-type action game that uses the high speed machine language capabilities of the TRS-80. AIR RAID offers enough challenge to keep the attention of the most dedicated of game haters, and has been known to become nearly an obsession to more than one individual. Just about the time you finally achieve that magic score of 10,000 someone points out that you're still playing the game at one of the low speeds!

AIR RAID is played on the TRS-80 video screen. A random sequence of large slow aircraft and small fast aircraft traverse the screen in both directions at seven altitudes. A missile launcher that can be pointed in 5 different directions launches missiles under your command. After launch, the flight path may be modified (if you're fast enough)! When hit, aircraft explode dramatically and the debris rains to the bottom of the screen, destroying any aircraft in its path! On occasion, two aircraft collide, destroying the aircraft and creating a parachute which settles slowly to the ground. These, of course, offer additional targets, but they are much harder to hit than the aircraft. To compensate, a higher score is tallied for parachute hits!

AIR RAID also runs in a continuous demonstration mode, providing an interesting display for shows or computer meetings. AIR RAID will provide hours of fun for you, and is an ideal program for entertaining your friends.! **$19.95**

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EDAS Editor Assembler

For The TRS-80 Models I, II, III

By Galactic Software Ltd.

EDAS is the ultimate disk based Editor Assembler for the TRS-80 Model I, II, and III computer. Among its features are direct assembly from disk source files or memory buffer, IF conditional assembly commands, fully formatted printer output, assembly to disk or to memory, and a full feature editor.

Default file extensions of /ASM for source files and /CMD for object code files are provided.

EDAS will support both upper and lower case entries. Opcodes and labels entered in lower case can be automatically converted to upper case.

All EDAS versions respect the HIGH$ memory protect pointer, and also allow for warm restarts from the DOS level or from the system debugger.

EDAS comes with a complete operator's manual and a cross reference utility program. Model I and III versions also include a disk to tape utility, and a CMDFILE utility for disk-to-disk, tape-to-disk, disk-to-tape program loading and concatenation.

ASSEMBLY FEATURES

A *GET directive allows assembly directly from disk source files, providing a capacity limited only by the size of the symbol table in memory! Source files may also be linked by multiple *GET statements in the main program, allowing literally hundreds of thousands of bytes of source code to be assembled.

Conditional assembly is provided through the use of an IF directive. Allowable conditions are Greater Than, Less Than, and Equal.

Allowable operators are + (addition), - (subtraction), < (shift), & (logical AND), ! (logical OR), # (exclusive OR), * (multiply), / (divide), and % (modulo).

Object code may be assembled to disk or directly to memory. A Branch command allows jumping to the code in memory for debugging, with an exit provided back to the editor assembler with the source code intact.

Assembly to a line printer allows adjustment of page length and lines per page. Also provided are Title, Subtitle, Page, and Space psuedo ops, allowing for the exact labeling and formatting of printed output you need.

A COM psudeo op allows comment lines to be written to a disk file along with the object code. These comment blocks will not be loaded with the object code, but merely provide an easy way to store such things as copyright messages in your object code files.

Constants can be entered in hexadecimal, decimal, octal, or binary format.

The assembler will generate a symbol table sorted in alphanumeric order. The output will be in three across format, with symbols of up to 14 characters allowed. An additional cross reference file may also be generated for use with the XREF utility program

EDITOR FEATURES

EDAS will Write and Load text files directly to or from disk, with provision for text file concatenation. Many different types of text files can be loaded by the editor, including files without line numbers.

The editor can write source files with or without line numbers, and with or without a header.

For ease of editing, the editor provides for block Moves of lines, Global replacement of text strings over the entire buffer, and a Find command to locate all occurrences of a specified text string.

Individual line editing maintains command syntax indentical to the BASIC editor - Character Insert, Delete, Change, Locate, Kill, Hack, New Line, Display Line, Quit, etc. are all supported.

The text buffer can be printed in whole or in part, with or without line numbers.

All versions provided for disk directory displays, and allow the user to kill disk files while remaining in the editor assembler.

The editor provides over 32K of text buffer space. The Assembler portion of the program may be deleted from within the editor, thus increasing the size of the available text buffer by approximately 5K.

Memory utilization can be determined with the Usage command, which displays the bytes used by the text, the bytes available, and the first free address.

A View command allows review of disk source file without actually loading the file into the text buffer.

All versions of EDAS provide controlled text scrolling capabilities, as well as a functional Clear Screen key.

EDAS SPECIFICATIONS

HARDWARE REQUIRED:
All versions require 32K of memory with one disk drive.

TEXT BUFFER CAPACITY:
Model I & III - about 32K (with 48K system)
Model II - about 40K (with 64K system)

TEXT FILES:
Source files are compatible between versions.
Most ASCII source files may be read.
Text concatenation is supported.
Conditional assembly is supported.
Macros are not supported.
Source files can be written with or without headers and line numbers.
Up to 14 characters are allowed for labels.
Linking of source files is supported.

OBJECT FILES:
Object code may be assembled to disk or to RAM.
Disk object files are directly executable.
RAM object code may be executed from the editor.

COMMANDS:
The commands and syntax in the Radio Shack Model I Editor Assembler are a small subset of EDAS. Users already familiar with that assembler will be able to function in EDAS's advanced environment immediately.

MANUAL
The complete manual is over 70 pages and contains complete descriptions of all commands and parameters.

EDAS Model I, III	**$79.00**
EDAS Model II	**$179.00**

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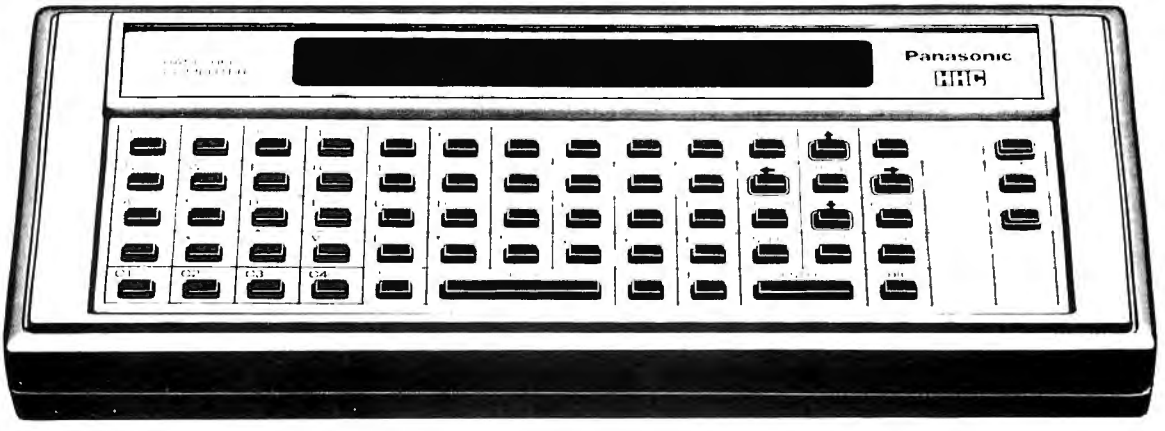

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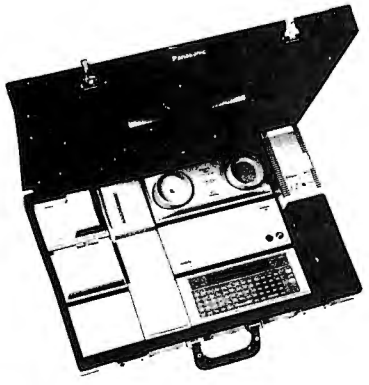

PORTABLE — A built-in rechargeable battery pack powers The Link when you're in the field -- the AC Adaptor/Recharger takes at home or the office. Innovative new circuitry allows The Link to use far less power than conventional microprocessors -- even when you turn it off, its memory stays active and keeps your data safe. When connected to its peripherals, The Link can be carried in its custom-fitted attache case, or used as a desk-top unit that travels from office to office.

VERSATILE — The modular peripherals allow you to customize the system for your specific needs. The Link can be anything you want it to be, from a pocket-size problem-solver for business and technical calculations to an attache-case computer terminal, sending order and billing data over phone lines to your company's computer, receiving credit and inventory data, and displaying text and graphic presentations on your customer's color TV.

POWERFUL — The Link Capsule System enables use in a wide variety of applications -- The Link capsules contain programs in 24-pin ROM (Read Only Memory) chips that can be easily changed by inserting them into one of The Link's three ROM slots. In addition, The Link is provided with 16K of internal ROM, up to 4K of internal RAM (Random Access Memory), and is expandable to a total of 52K of RAM and 64K of ROM.

THE LINK PRIMARY UNIT — (Built-In 4K bytes RAM) **$380.00**
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AC ADAPTOR/RECHARGER — Allows operation of The Link and all peripherals on 120V AC current, recharges main unit's battery pack. **$45.00**

MICRO PRINTER — Thermal 5 × 7 dot matrix printer provides "hard copy" records from any program performed or data received by The Link. Give a customer a printed record of an order entered, or a printed receipt when using The Link as a portable cash register. Send your Sales force a schedule of appointments, complete with names and addresses of prospects.

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RS-232C SERIAL INTERFACE — Allows you to connect The Link directly to large-format printers, main frame computers, or any other devices that use the industry-standard RS-232C interface (Note: the RS-232C Capsule is necessary for operation of the RS-232C peripheral).

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PROGRAMMABLE MEMORY — Adds extra random-access memory (RAM) to The Link, greatly extending its internal storage capacity. Up to six memory modules may be added simultaneously, giving The Link a total RAM storage capacity of 52K bytes. Each module carries a memory protection back-up battery pack to keep your data safe.

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(16K bytes) **$350.00**

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ATTACHE CASE — Holds Primary Unit. I/O Adaptor, two large-size peripherals. (TV Adaptor and Acoustic Modem), three small-size peripherals (RS-232C Serial Interface, Programmable Memory, Micro Printer), plus AC Adaptor, Antenna Selector Box, TV cables, owners manual, and others.

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I/O CABLE — For sixth peripheral. **$86.00**

RS-232C CABLE — Used to connect the serial interface to a printer or other device. **$35.00**

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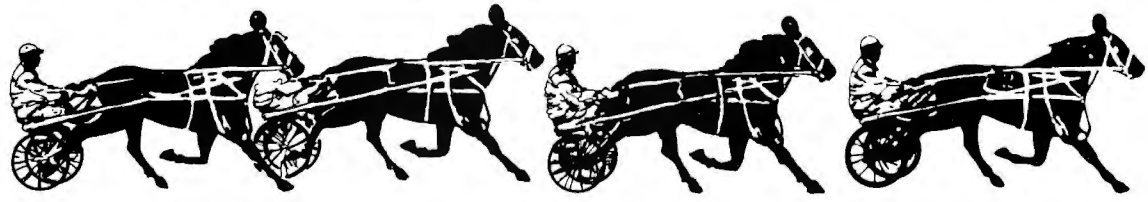

INTRODUCTION

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.

GUARANTEE

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

You'll Come Out A Winner™

COMPUTER PICKS WINNER 70% OF THE TIME

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 Trot Computer.

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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 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 COMPUTER GIVES YOU THE RATING

We have pre-programmed the Kel-Co Class Computer with the four different formulas accounting for purse distribution used by every racetrack in North America. To operate simply 1) enter the track category number where the horse has raced 2) enter the number of Wins, Places, Shows and Forths 3) depress the E/R button 4) enter the earnings and 5) push the E/R button. The computer instantly evaluates each horse's performance and displays the horse's **Kel-Co Established Class Rating.**

PRINCIPLE OF ESTABLISHED CLASS

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** competed 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.

DEVELOPED BY PROBABILITY EXPERT

The Kel-Co Class Computer is based upon the same principles as the Kel-Co Slide Rule, developed by Dr. A. Stuart Kelsey in 1969. Dr. Kelsey is a probability and statistical expert and was a member of the space research team which perfected the Lunar Excursion Module for the Apollo space program. Applying his expertise in probability studies, Dr. Kelsey created a system that made his Slide Rule the most widely used handicapping aid in North America. That same method is embodied in the Kel-Co Class Computer.

The Kel-Co Class Computer comes complete with battery, AC adaptor, operating instruction book and handicapping guide. And don't forget, the computer will also operate as a powerful 4-function calculator, complete with percent key and bright LED display.

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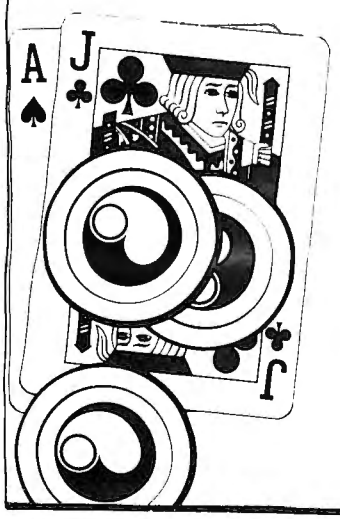

For TRS-80 16K Level II . . . . .

WIN 21 is more than just a computer blackjack game. It's a complete tutorial program for helping you improve your playing skills. You select the strategy you want to practice and **WIN 21** coaches you at every step from betting to insuring, splitting pairs, doubling down and drawing. And the strategies you will learn are sound. They come right out of Dr. Edward O. Thorp's book, **Beat the Dealer,** a copy of which is included with every program. With **WIN 21** you get: One of the most realistic blackjack simulations on the market; a wide variety of rules options; four different strategies to practice; five levels of programmed coaching; a series of lessons typing the program to **Beat the Dealer.**

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TRS-80 Level II $24.95
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For APPLE II with Disk . . . . .

THE COUNT is a systematic approach to blackjack play which minimizes house edge and maximizes the player's opportunity to win. Teaches basic playing strategy and a very simple card counting strategy which can at times give the player a tremendous advantage over the dealer.
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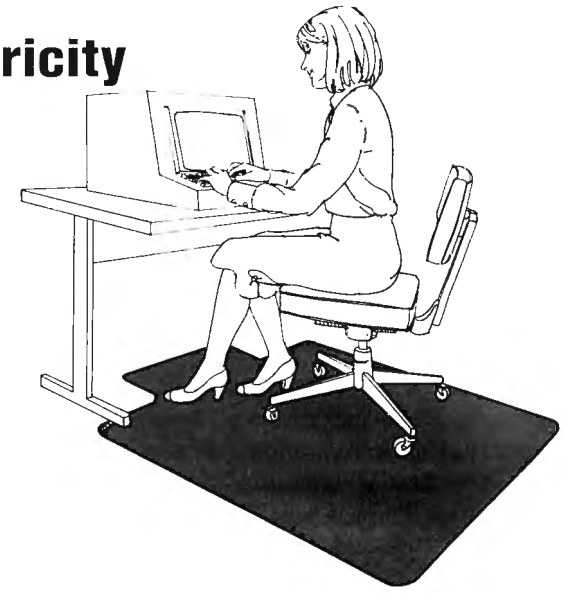

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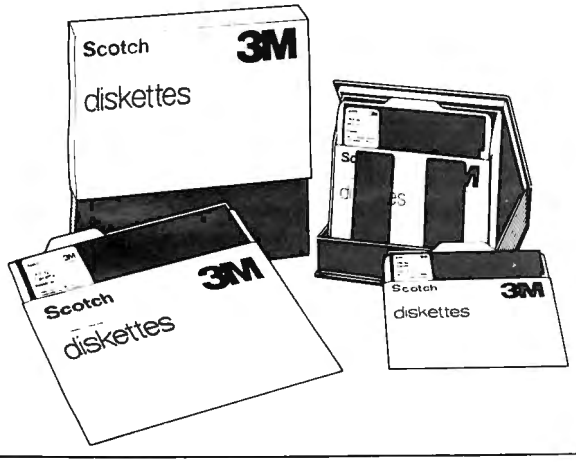

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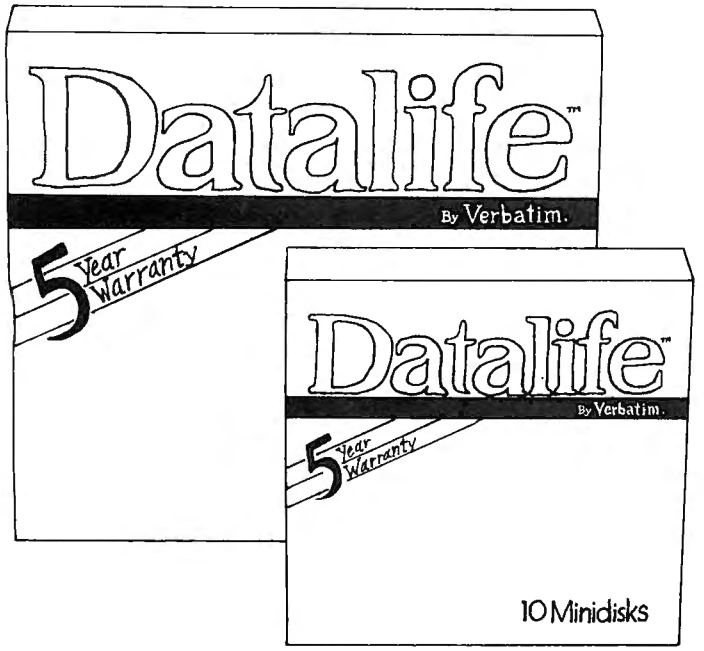

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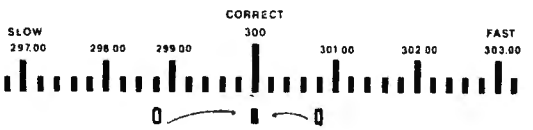

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