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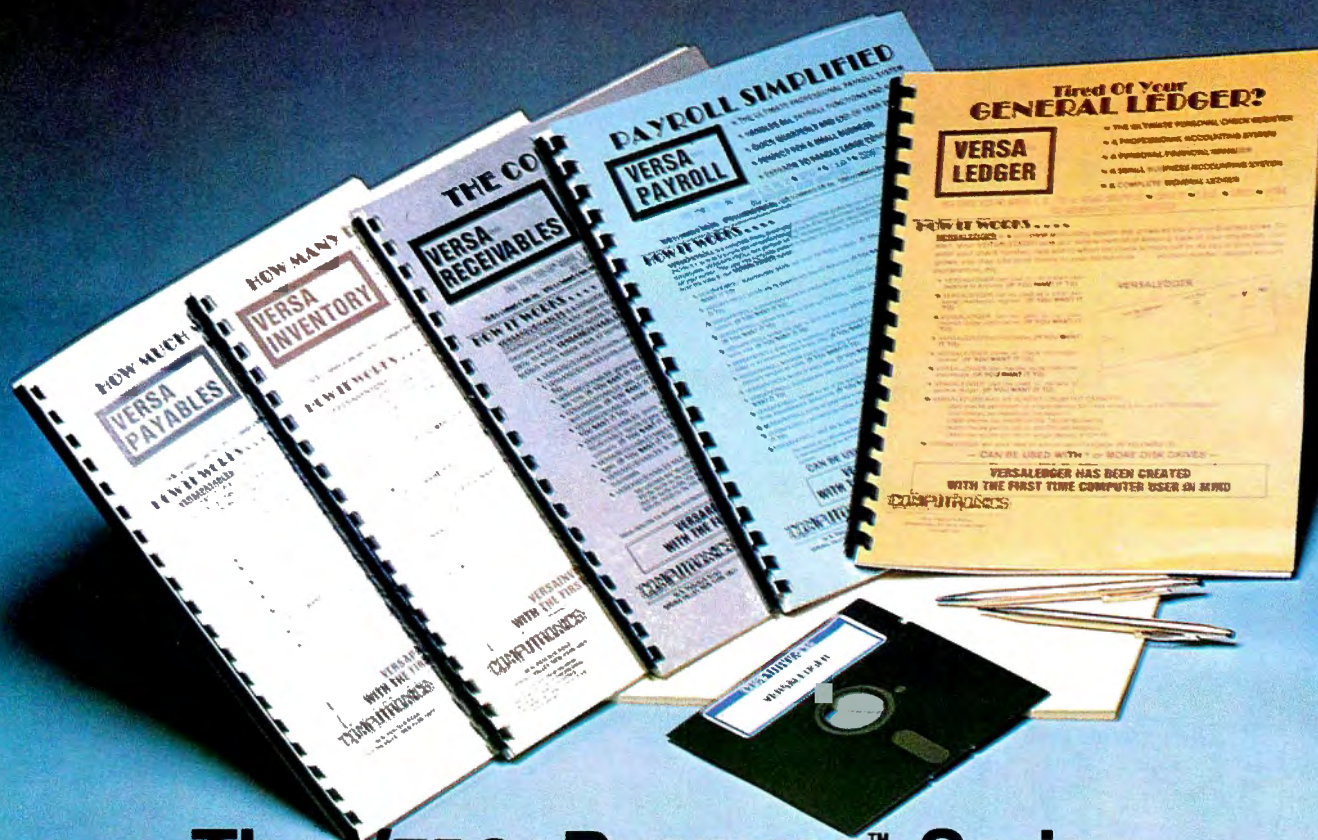
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# Introducing the Most Powerful Business Software Ever!

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 CP/M-based Computers must be equipped with Microsoft BASIC (MBASIC or BASIC-80)



## 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. All CP/M-based Computers must be equipped with Microsoft BASIC (MBASIC or BASIC-80)

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# COMPUTRONICS

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# Tired Of Your GENERAL LEDGER?



- ★ THE ULTIMATE PERSONAL CHECK REGISTER
- ★ A PROFESSIONAL ACCOUNTING SYSTEM
- ★ A PERSONAL FINANCIAL MANAGER
- ★ A SMALL BUSINESS ACCOUNTING SYSTEM
- ★ A COMPLETE GENERAL LEDGER

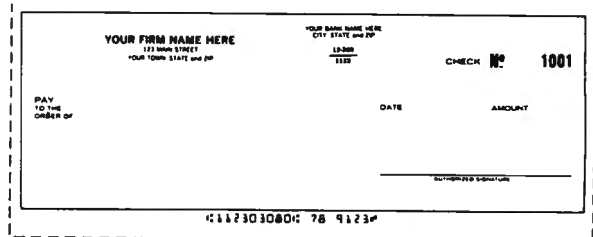
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## HOW IT WORKS . . . .

**VERSALEDGER II** is a complete accounting system that grows as you or your business grows. To start, your **VERSALEDGER 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** 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)
- **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!)**



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PRICE**

**\$149.<sup>95</sup>**

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## 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

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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 . . . .

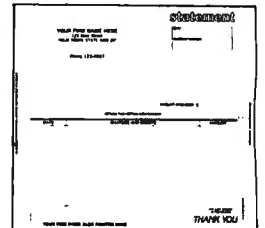
|   |   |
|---|---|
| 400 customers and transactions per month on single density 5¼" disk drives such as the TRS-80 Model I |   |
| 600 per month on the APPLE II   |   |
| 2400 per month on the TRS-80 MODEL III  | 3000 per month on single density 8" CP/M    |
| 6000 per month on the TRS-80 MODEL II 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

## VERSARECEIVABLES INTRODUCTORY PRICE

**\$99.95**



LOW-COST COMPATIBLE  
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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

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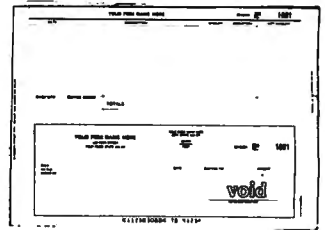
## HOW IT WORKS . . .

**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)
- VERSAPAYABLES 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)
- VERSAPAYABLES HAS AN ALMOST UNLIMITED CAPACITY . . . .
  - 400 vendors 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 of the TRS-80 MODEL II
  - 3000 per month on single density 8" CP/M
  - Almost unlimited capacity on hard disk drive systems

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

## VERSAPAYABLES



**INTRODUCTORY  
PRICE  
\$99.95**

**LOW-COST COMPATIBLE  
COMPUTER FORMS  
AVAILABLE TOLL-FREE  
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# PAYROLL SIMPLIFIED



- ★ 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

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## HOW IT WORKS . . . .

VERSAPAYROLL is a complete menu driven payroll system that grows as you or your business grows. Your VERSAPAYROLL 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.

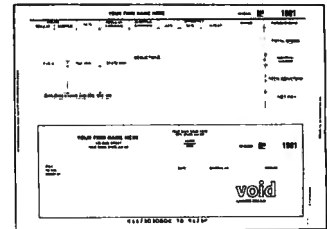
- VERSAPAYROLL automatically prints out your PAYROLL checks. (IF YOU WANT IT TO)
- VERSAPAYROLL allows you to override any payroll deduction. (IF YOU WANT IT TO)
- VERSAPAYROLL automatically posts all checks written to our VERSALEDGER system. (IF YOU WANT IT TO)
- VERSAPAYROLL allows the user to print 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.

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

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

## VERSAPAYROLL



**INTRODUCTORY PRICE \$99.95**

**LOW-COST COMPATIBLE COMPUTER FORMS AVAILABLE TOLL-FREE THROUGH RAPIDFORMS**

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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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## 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** CAN BE USED TO INVOICE YOUR CUSTOMERS
- **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**

**LOW-COST COMPATIBLE  
 COMPUTER FORMS  
 AVAILABLE TOLL-FREE  
 THROUGH RAPIDFORMS**

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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**100 SUPER PROGRAMS**

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4. COMPUTATIONS
5. HOME BUDGET ANALYSIS
6. ANNUITY COMPUTATION
7. UNIT PRICING
8. CHANGE FROM PURCHASE
9. NEBS CHECK PRINTER
10. DAYS BETWEEN DATES
11. MORTGAGE AMORTIZATION TABLE
12. INVENTORY CONTROL
13. PORTFOLIO VALUE COMPUTATIONS
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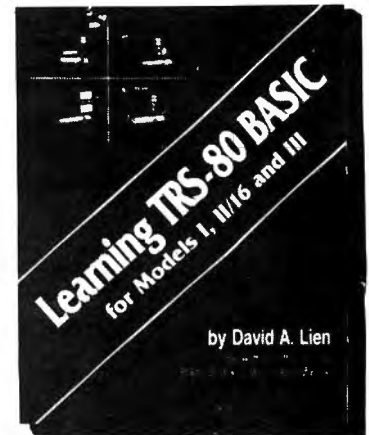
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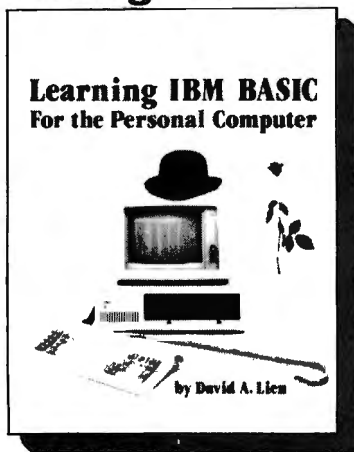
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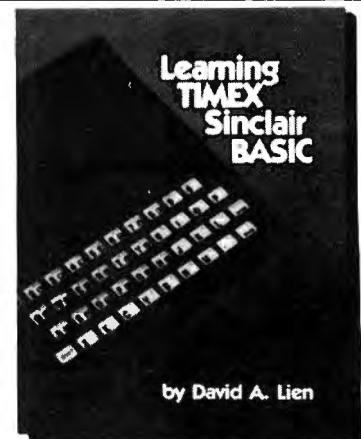
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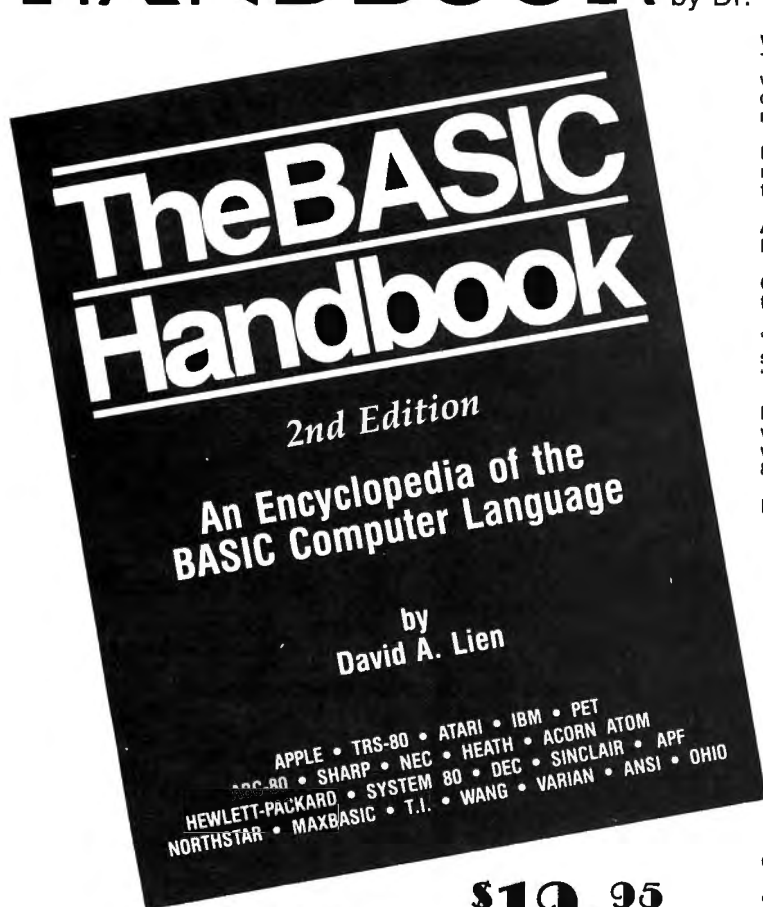
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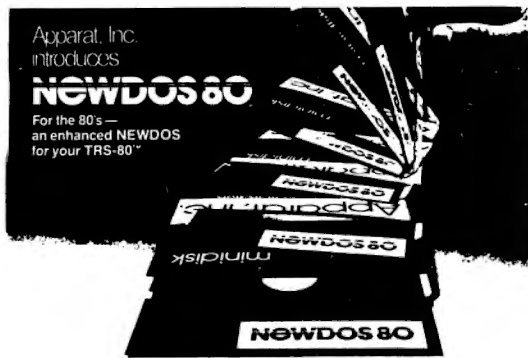


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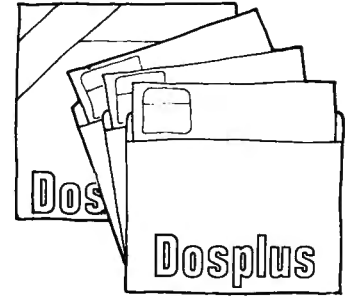
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- 8) Line printer TAB to 255
- 9) OPEN"E" to end of sequential file (for output)
- 10) DI (delete and insert text line)
- 11) DU (duplicate text line)
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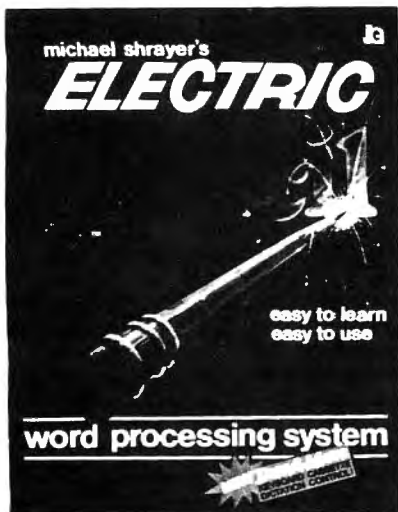
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## JUST CHECK SOME OF THESE FEATURES

- 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.
- Compatible 35, 40, 77 & 80 track drives.
- Has calculated equation fields.
- Complete report generator.
- Data can be merged into letters.



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

### New Features Include:

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

- NOTE 1: File size is dependant on memory size. **\$149.95**
- 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

### FILE CAPACITY & FORMAT

|   | CCA DATA MANAGER | AIDS III with CALS | MAXI MANAGER | RADEX 10 | PROFILE |
|---|------------------|--------------------|--------------|----------|---------|
| 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

|                            | CCA DATA MANAGER | AIDS III with CALS | MAXI MANAGER | RADEX 10 | PROFILE |
|----------------------------|------------------|--------------------|--------------|----------|---------|
| 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

|                                     | CCA DATA MANAGER | AIDS III with CALS | MAXI MANAGER | RADEX 10 | PROFILE |
|-------------------------------------|------------------|--------------------|--------------|----------|---------|
| 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

|  | CCA DATA MANAGER | AIDS III with CALS | MAXI MANAGER | RADEX 10 | PROFILE |
|--|------------------|--------------------|--------------|----------|---------|
| 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      | No      |
| 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

|                                | CCA DATA MANAGER | AIDS III with CALS | MAXI MANAGER | RADEX 10 | PROFILE |
|--------------------------------|------------------|--------------------|--------------|----------|---------|
| 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

|                   | CCA DATA MANAGER | AIDS III with CALS | MAXI MANAGER | RADEX 10 | PROFILE |
|-------------------|------------------|--------------------|--------------|----------|---------|
| 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

|  | CCA DATA MANAGER | AIDS III with CALS | MAXI MANAGER | RADEX 10 | PROFILE |
|--|------------------|--------------------|--------------|----------|---------|
| 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      |

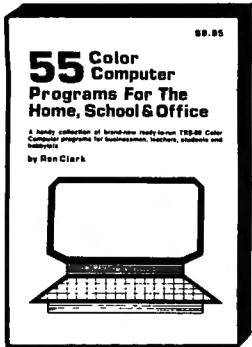
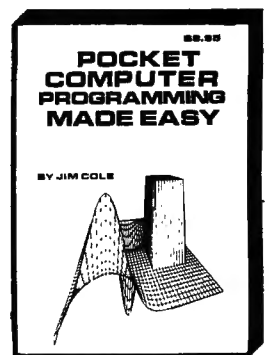
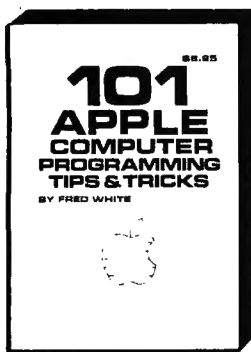
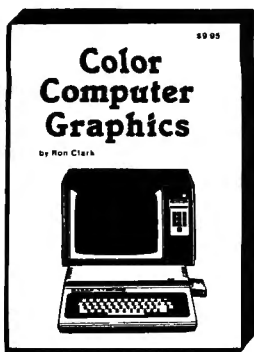
### MISCELLANEOUS

|  | CCA DATA MANAGER | AIDS III with CALS | MAXI MANAGER | RADEX 10 | PROFILE |
|--|------------------|--------------------|--------------|----------|---------|
| 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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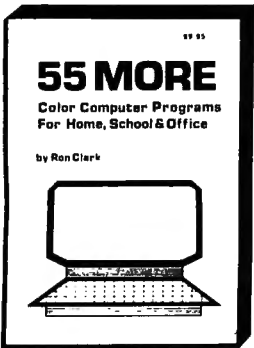
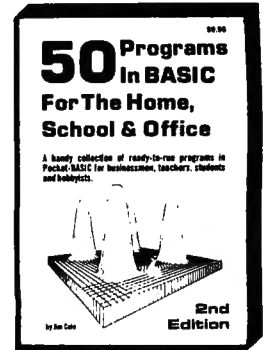
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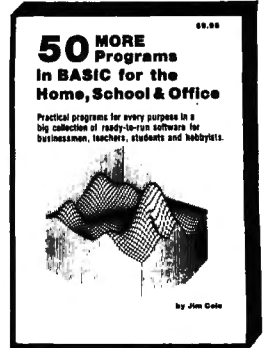
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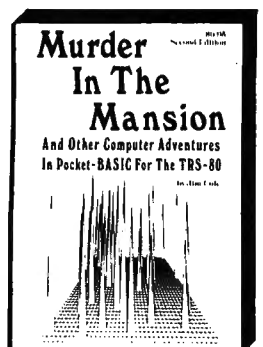
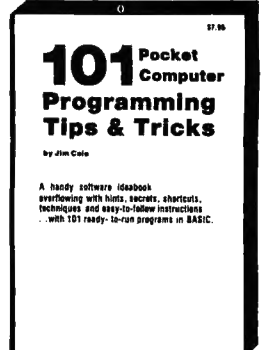
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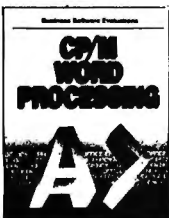


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## 28. MEDICAL RECORDS \$15.95

With the assistance of this program a medical profile is maintained for each family member. Permanent record of immunizations, allergy shots, doctors you've seen (and how often you've seen them) is maintained. Building a medical profile allows access to all your records at once or the records of just one person. A unique database program some particularly important people — your family. This program may also be used by the lawyer or the insurance industry to create medical profiles on accident or injury cases.

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Every household or business that maintains credit cards should have this program. Maintains record of card holder, account number, card issuer, expiration date, and address of issuer to notify in case of loss. Don't pay premiums to a credit card company to keep tabs on your cards. Do it yourself. It's cheaper, easier, and quicker too.

**PowerByte programs are available for the TRS-80 Color Computer, the VIC-20, and the Commodore 64. Prices shown are for programs supplied on cassette — add \$5 per program for diskette versions. When ordering any program you MUST specify which computer you are using and whether you have a printer attached.**

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## **2. ACCOUNTS RECEIVABLE AND PAYABLE**

**\$21.95**

To round out our business programs you many now keep track of your accounts receivable and payable. The software consists of three programs. The first utility tape lets you assign the account as a receivable or payable and accepts the name, address, and date of posting for the customer/vendor. The second utility tape posts amounts to receivables or payables. The third tape prints out all of your receivables and payables, including a total for each. When an account has been paid, the program allows deletion from the main program with storage and print-out of paid accounts if desired.

## **3. ORDER TRACK**

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If the customers keep calling for their merchandise and you can't remember when the order came in, or worse, where it is, then you must have this program! Data statement entry of date order was received, name and address of purchaser, date shipped, and amount for each item purchased is easily recorded and instantly accessible. Stop second-guessing and improve the efficiency of your operation. Menu selection allows access by date or name of customer. Available for:

## **4. BUSINESS INVENTORY**

**\$19.95**

This is a database program that will maintain a record of your inventory and its location within your facility. Data statement input will permit recording of appropriate information and eliminates all future guesswork regarding what you have in inventory and where it is located. Inventory information is accessible by key word or inventory number.

## **5. BUSINESS CALENDAR/ PERSONALIZED DATABASE**

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Finally a quick, simple to use program to maintain a diary of appointments or significant business events. Through data statement entry, you can additionally use this program as a business or general data base and instantly access the information you need by date or key word.

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A handy database program that is readily adaptable for your business or profession. Maintain files on your clients or accounts along with time entries for jobs performed on their behalf. Program automatically totals time. Information is accessible by client name. Program permits a permanent file record to be created.

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An accounting program to determine the cash flow in either your business or personal setting. Program calls for appropriate input of all relevant data and then automatically arranges data in appropriate format and specifies cash flow results. A significant program that helps you keep tabs on what's happening at any given moment.

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A truly convenient program that does all the work for you. Select straight line, double declining balance, or sum of the years digits method, and upon input of principal data, the program performs all necessary calculation for useful life of property. Determines salvage value of property too.

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A super assistant that calculates your monthly mortgage or loan payment with an infinitely variable input of the principal of the loan, interest charges, and term of the loan. Whether you're a banker, real estate investor, or home buyer, this program will be extremely useful to you.

## **12. THE MORTGAGE COMPARER**

**\$8.95**

With this program you will be able to compare alternative mortgage or loan commitments to determine which deal is better for you. Allows changes in principal, interest rate, term, or all three, and can be utilized by bankers or borrowers alike. Throw away the mortgage books and use this program instead. It's cheaper, faster, and won't become obsolete the next time interest rates skyrocket.

## **13. RULE OF '78**

**\$12.95**

This program has been designed for the financial community to calculate a payoff balance under the Rule of '78. Whether you're a banker or borrower you'll be able to use this program as a check to make certain that your figures are correct. If you don't know how to calculate under the Rule of '78, this program will do it all for you.

## **14. TAXMAN/INCOME AND EXPENSER**

**\$15.95**

The utilization of this program will build and maintain a file of your income and expenses. An absolutely essential tool for creating a file for income tax purposes by data building through your computer. By recording appropriate expenses, the deductions that you take will now be documented properly. Great for preparing for an audit ahead of time!

## **15. THE LOAN REPAYER**

**\$11.95**

When you add up all your interest that you pay on a loan, does it really pay to take out the loan in the first place? Find out what that loan really costs you. You'll be amazed. Why not find out on your computer first? It's less painful that way, and it won't hurt your pocketbook.

## **16. STATISTICS**

**\$16.95**

This program performs statistical analyses of input data, including mean deviation, median variance, standard deviation, probable error, sum of squares, etc. Utilization of this program, whether you're a student or professional, may be of immense benefit to your project.

## **17. THE PHONE DIRECTORY**

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Throw out that bulky phone directory. Plug in your computer and you have the best telephone directory that money can buy. Forget the yellow pages. Access number by input of name or key word. Whether you use

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even if you have no programming experience!

Until now, you either had to hire an expensive programmer to custom tailor existing software to your business, or else try to adapt your business to someone else's software. The classic dilemma of the square peg in the round hole.

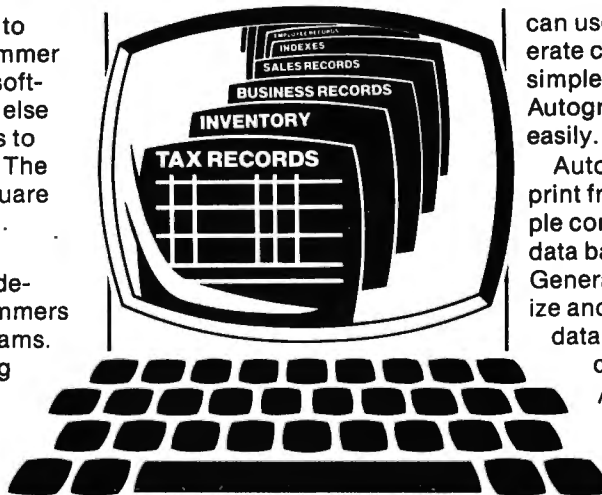
But now there's Autogrammer. Software designed to let non-programmers generate their own programs. No need for programming knowledge. No need to learn any programming language. All you have to know are the needs of your own business.

## EASY!

Autogrammer is as easy to use as a typewriter, yet so powerful it puts all the muscle of your computer right at your fingertips. Many applications require only 10 or 15 minutes to complete. What you type on the screen, Autogrammer turns into a machine-language program that's ready to run.

## VERSATILE!

Autogrammer has thousands of applications for both business and personal needs: Inventory records, sales and earnings projections, tax calculations, forecasts, employees files, stock market analyses. Using Autogrammer, you can create even complex programs



can use Autogrammer to generate custom programs. It's so simple, anyone can become an Autogrammer quickly and easily.

Autogrammer allows you to print from screen with one simple command or list the entire data base. The optional Report Generator allows you to organize and then report from the data base in the format you choose.

Autogrammer by Roklan costs \$299.95 and is available for Tandy TRS-80\* model II and soon for models I, III

and CP/M versions, with other versions soon to come. Optional Report Generator, \$199.00, for in-depth reporting from the data base.

## LET'S FACE IT.

Nobody knows your business like you do. With Autogrammer, you can write your own programs and gain control of your own business by generating exactly the information you need.

Autogrammer for TRS-80\* model II is available from H&E Computronics Inc. and other major distributors and dealers nationally.

**The end of the square peg in the round hole.**

\*Registered trademark of Tandy Corp.

such as tracking inventories, adding purchases, subtracting sales, crediting accounts, report and adjust for daily sales, add back to inventory, make adjustments for credits, defects, shipping charges, and much more. Having this kind of vital information available can simplify business decisions and save you money.

## FLEXIBLE!

As your needs change, Autogrammer-generated applications can easily be revised, updated, expanded, or combined. Autogrammer writes finished, stand-alone programs which do not require Autogrammer for running. They work first time, every time. Everybody in your organization

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For 8" CP/M ..... \$399.95

## Report Generator

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For 8" CP/M ..... \$299.95

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# COMMUNICATIONS SYSTEMS



## SMALL BUSINESS SYSTEMS GROUP

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

### ST80-III™ – The Ultimate Communications System

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

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

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

- Model I or III/4 ..... \$150.00
- Model II/12/16 ..... \$250.00

### FORUM-80™ – Communications Network

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

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

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

- Model I or III/4 ..... \$350.00

### ST-80-PBB™ – Personal Bulletin Board

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

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

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

- Model I or III/4 ..... \$50.00

### ST-80-CC™ – Communications Center

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

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

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

- Model I or III/4 ..... \$100.00

### MouseNet™ – Advanced Bulletin Board System

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

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

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

- Model I or III/4 ..... \$295.00

### DELUXE PERSONAL FINANCE For TRS-80™

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

- Accept and apply transactions to user-formatted budget categories.
- Separate cash and check disbursements.
- Allows up to ten category disbursements per check.
- Credit income/deposits according to source.
- Search, correct or void checks.

- Maintain an accurate checking account balance.
- Cancel returned checks.
- Provide monthly summaries of income vs. expenses.
- Calculate profit/loss.
- Summarize data by categories.
- Provides up to ten savings account summaries.

- Model II/12/16 ..... \$75.00
- Model I Version ..... \$35.00

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# CAPABILITY

## FEATURES AND CAPACITIES OF SBSG ACCOUNTING SYSTEMS

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

### GENERAL LEDGER

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

### ACCOUNTS PAYABLE

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

### ACCOUNTS RECEIVABLE

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

### PAYROLL

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

### ORDER ENTRY

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

### INVENTORY

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

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# RELIABILITY!

SBSG HAS INSTALLED MORE THAN 20,000 SYSTEMS



## THE FINEST ACCOUNTING SYSTEM AVAILABLE

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

### GENERAL LEDGER

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

### ACCOUNTS RECEIVABLE

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

### ORDER ENTRY

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

### ACCOUNTS PAYABLE

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

### PAYROLL

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

### INVENTORY

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

Complete detailed sample reports with specifications are available for \$10, refundable or credited toward purchase of program module.

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| IBM PC (Fast Compiled Version) .....         | \$495 Per Module |

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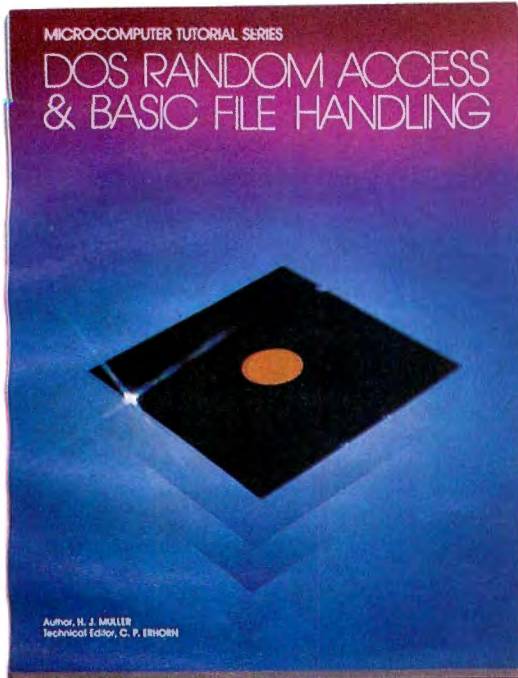
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# Learn to Program Like a Professional!

## THE COMPLETE BOOK OF RANDOM ACCESS & DATA FILE PROGRAMMING



### VOLUME I

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

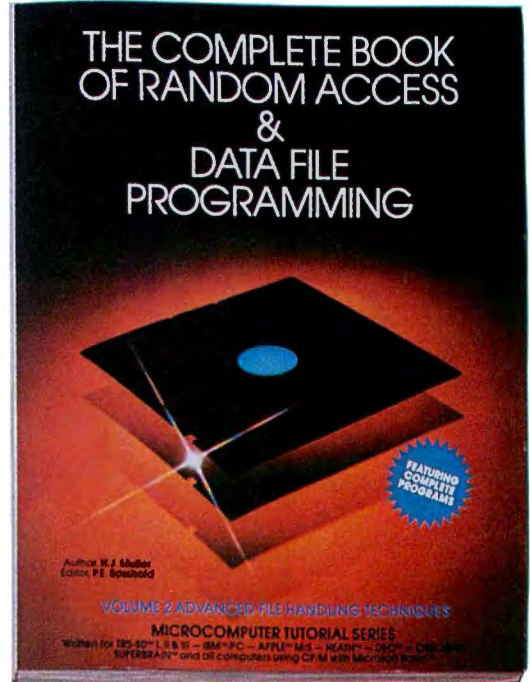
The last word on disk random access and file handling techniques, this series is intended for everyone — beginning programmers, businessmen and professionals will learn how to create custom programs to handle inventories, mailing lists, work scheduling, record keeping, and many other tasks, while more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

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

#### Volume I BASIC FILE HANDLING

- The writing of a Menu to summarize program functions
- Screen format for data entry
- The creation of a basic record
- The FIELD and LSET routines for buffer preparation
- Disk storage of random access records
- Changing or editing stored records
- The LPRINT capability from disk using three different formats
- Sorting the random file
- Searching by name or key field
- Search in "next" or "prior" fashion
- Purging deleted records
- Using disk file data for calculations
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- Date setting, printer on-line and many other routines to make a program run like a commercially written program

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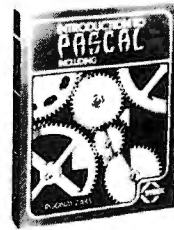
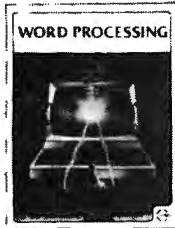
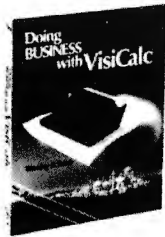
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### BASIC FOR BUSINESS

This book shows how easy it is to use a small computer to perform general business tasks more quickly and efficiently. You'll learn to write BASIC programs for such applications as sales reports, financial statements, graphs, charts, depreciation calculations, cost/volume/profit analyses and much more.  
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ful and versatile "templates" range from financial statements to master budgets, pricing models to investment strategies - and they're all as easy to use as a pocket calculator!  
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This book is a complete guide and reference manual for CP/M and MP/M systems. Beginning with a complete description of start-up procedures, it progresses through detailed explanations of all CP/M commands and utilities, practical hints on procedures, and even technical information on CP/M's internal operation. Extensive appendices summarize all commands for quick reference.  
336 Pages ..... **\$14.95**

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This book takes up where the best-selling CP/M Handbook leaves off. It is for advanced CP/M users or systems programmers who want to maximize their use of the CP/M operating system. In-depth descriptions of the CP/M modules, such as CCP, BIOS, and BDOS, will give the reader a better understanding of the CP/M system's capabilities. A comprehensive set of appendices serves as a practical reference tool.  
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### INTRODUCTION TO PASCAL

This is the first book on Pascal that can be used by persons who have never programmed before. All Pascal features are covered in detail, from basic definitions to complex data structures. An extensive listing of all symbols, keywords and rules of syntax for programming in Pascal serves as a concise summary and an important reference tool.  
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### THE PASCAL HANDBOOK

A unique reference tool for all Pascal users, this is a comprehensive dictionary of every symbol, reserved word, identifier and operation for most versions of Pascal. Each of over 180 alphabetically arranged entries includes a definition, syntactic diagram and semantic description, implementation details, variations and program examples.  
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INTRODUCING...

## BASIC/S COMPILER SYSTEM

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 BASIC S 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.

(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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- Allows MOD III versions to be BACKED UP for your protection.
- Files can be killed, loaded, merged, or chained from Scriplus directory.
- Scriplus supplies an ALPHABETIZED directory with FREE space shown.
- "END" returns to DOS READY instead of rebooting.
- Printer can be stopped for insertion of text or forms alignment. Inserted text can be edited prior to resumption of printing.
- Specifically written for the MX-80 but will work with any printer that accepts CHR\$ codes for control.
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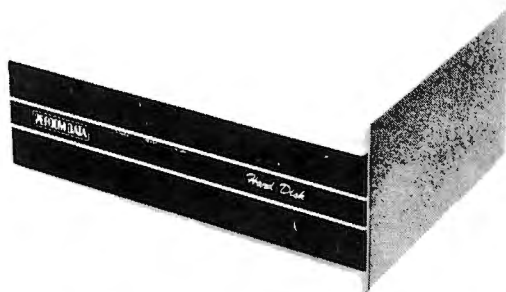
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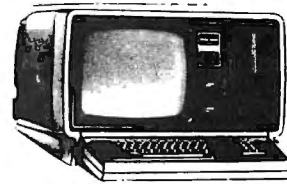






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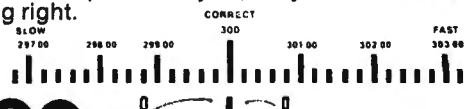


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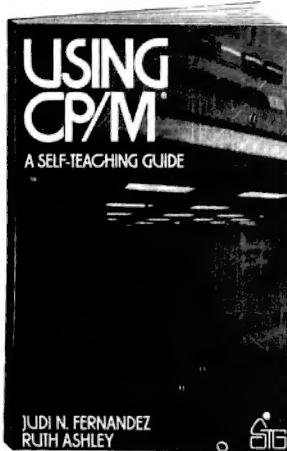
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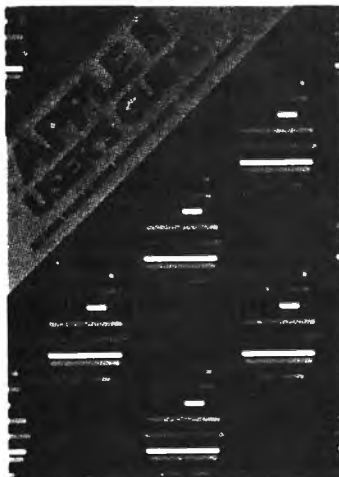
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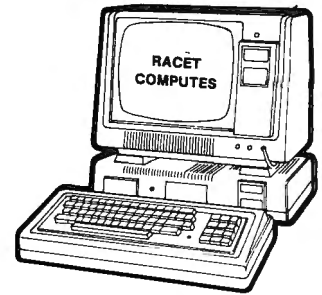
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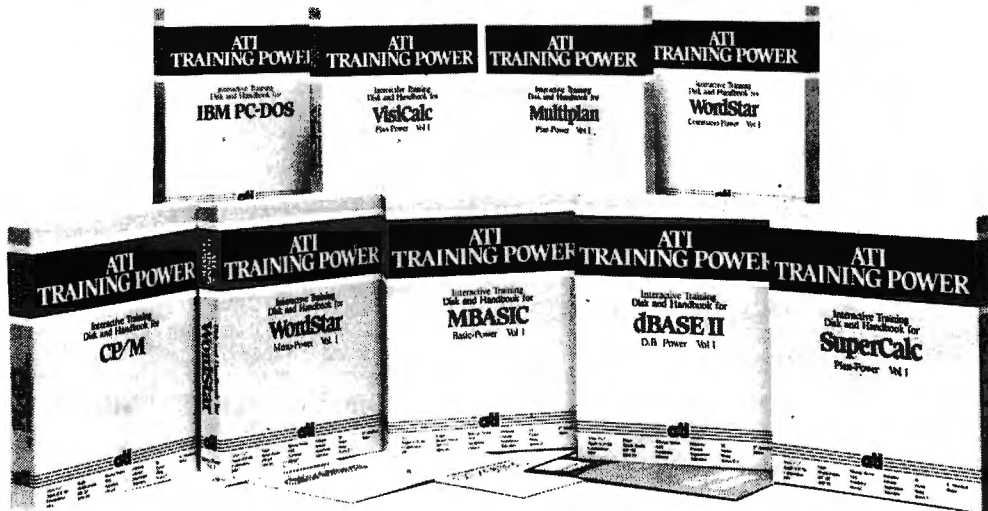
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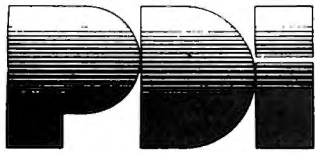
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TRS-80, PET \$49.95 APPLE (Disk) \$79.95 PET (Disk) \$59.95

#### STEP BY STEP 2

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

APPLE (Disk) \$89.95

### EDUCATIONAL GAMES

#### MEMORY BUILDER: CONCENTRATION Ages 6 Up

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

\$16.95

#### STORY BUILDER/WORD MASTER Ages 9 Up

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

\$16.95

#### GRAPH BUILDER Ages 10 Up

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

TRS-80 \$16.95

#### CODE BREAKER Ages 10 to adult

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

APPLE, ATARI, PET \$16.95

#### MINICROSSWORD All Ages:

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

TRS-80, APPLE, ATARI \$16.95

#### ASTRO WORD SEARCH: GEOGRAPHY Junior high to adult

Search for hidden geographical place names in a pattern of letters generated by the computer. Words can be hidden across, down or diagonally as in the popular word-search puzzles. Hundreds of different puzzles can be formed by the puzzle in 3 programs. Computer scores you on how well you do.

TRS-80, APPLE, ATARI \$16.95

#### ASTRO WORD SEARCH: SPANISH High school to adult

As in Astro Word Search: Geography, the computer generates hundreds of different puzzles, but this time the hidden words are common Spanish words. Helps improve Spanish vocabulary, Computer scores you. 3 programs.

TRS-80, APPLE, ATARI \$16.95

#### ASTRO WORD SEARCH: FRENCH High School to Adult

Like Astro Search: Spanish, except this time, it's French vocabulary words.

TRS-80, APPLE, ATARI \$16.95

#### ASTRO QUOTES: High School to Adult

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

APPLE, ATARI \$16.95

### STUDY SKILLS

#### IQ BUILDER Junior High Up

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

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

\$16.95

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

\$16.95

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

\$16.95

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

\$16.95

### LANGUAGE ARTS

#### READING COMPREHENSION: WHAT'S DIFFERENT? Ages 8 Up

5 reading comprehension programs which present logical problems where the student picks the one word in four which doesn't belong with the rest. Builds analytical skills essential for understanding what you read.

Not available for TRS-80 \$16.95

#### PRESCHOOL IQ BUILDER Ages 3-6

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

\$16.95

#### SPELLING BUILDER Junior High Up

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

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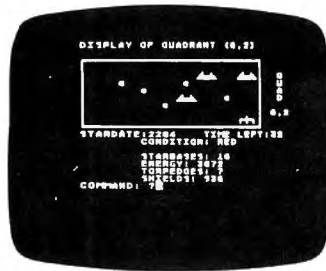
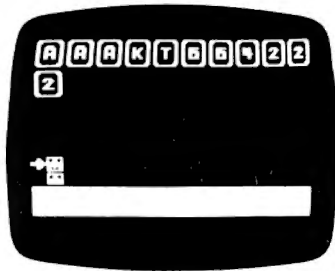


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- All programs are for TRS-80 Level II, APPLE, ATARI and PET unless otherwise noted.
- All programs for TRS-80 are ONLY available on tape.
- ATARI programs are available on tape or disk (add \$7 for disk version)
- All APPLE programs are ONLY available on disk (add \$7)

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# DYNA SOFT

All programs are available for  
& III, PET/CBM, NORTH STAR,  
NEC PC-8000, and 8" CP/M

## GAMES

### BRIDGE MASTER

BRIDGE MASTER is our most popular DYNACOMP program -- a comprehensive bridge program designed to provide hours of challenging competition. The program plays the North hand as your partner and East-West as your opponents. Bidding features include the Blackwood convention, Stayman convention, pre-emptive openings, and recognition of demand bids and jump-shift responses. After playing a specific hand you may replay the same hand, with the option of switching cards with your computer opponents. This feature allows you to compare your bidding and playing skills to those of the program. A unique feature of BRIDGE MASTER is its scorekeeping capability. Points scored for each hand are calculated and bonuses for game contracts and slams are awarded as in duplicate bridge. Doubled contracts are scored based upon a computer-assigned vulnerability. Individual hand scores are tabulated and an accumulative score card is displayed at the conclusion of each hand played. The score card displays a summary of total hands played, total points scored, number of contracts made and set, and % bids made. The program saves the scores to a disk file and can display the last hand played -- so you can come back to a game at any time. Requires 24K memory (48K on Atari). **Price: \$29.95** (diskette), **\$32.45** (8" CP/M disk).

### BLACKJACK COACH

Learn and practice your blackjack skills with the "Coach" giving advice. Test various playing and betting strategies. Program will analyze just which parts of your strategy work and which do not. Includes 30-page tutorial manual. **Price: \$29.95** (cassette), **\$33.95** (diskette), **\$36.45** (8" CP/M disk).

### FLIGHT SIMULATOR

This realistic mathematical simulation allows you to take off, fly, navigate, and land an airplane. The FLIGHT SIMULATOR realistically portrays the problems associates with stalls, landing with the nose wheel first, crosswinds, etc. You can practice touch-and-go landings, take a cross-country trip, or just practice exercising the flight controls; flaps, trim, elevators, ailerons and throttle. All versions run in 16K memory. **Price: \$19.95** (cassette), **\$23.95** (diskette), **\$26.45** (8" CP/M disk).

### STARBASE 3.2

This is a new and exciting program related to the classic "Star Trek" type computer simulations of interstellar warfare, with many significant enhancements. Your tactics and strategy are put to the ultimate test as you direct your forces in a conflict on a battlefield that stretches across light-years of space. **Price: \$13.95** (cassette), **\$17.95** (diskette), **\$20.45** (8" CP/M disk).

## PERSONAL FINANCE

### PERSONAL FINANCE SYSTEM

The Personal Finance System (PFS) offers the user one of the most complete financial management packages available, allowing the individual or small businessman complete flexibility in maintaining all aspects of financial record-keeping. Depending on configuration, you will be able to store from 300 to 2000 transactions on each disk.

Records are easily entered into the master file and can be accessed by payee or by a user-defined code (you may assign up to 26 different categories). PFS will keep track of all tax deductible items, bank deposits, monthly charges, cash payments, etc. It will even automatically deduct any check fees if desired. You will be able to get financial summaries for any category on a per item, monthly, or yearly basis. PFS will print the results in detail or summary form, access the printer if you have one, and even plot the results on a monthly bar graph.

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

### THE FAMILY BUDGET

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

As you receive it, The Family Budget is provided with 28 transaction categories:

- |               |                |                   |
|---------------|----------------|-------------------|
| 1. Payments   | 11. Insurance  | 21. B & B         |
| 2. Savings    | 12. Gifts      | 22. Cash          |
| 3. Food       | 13. Interest   | 23. Charges       |
| 4. Meals      | 14. Medical    | 24. Pay           |
| 5. Rent       | 15. Charity    | 25. Add. Inc.     |
| 6. Clothes    | 16. Labor      | 26. Fed. Tax      |
| 7. Utilities  | 17. Amusement  | 27. State Tax     |
| 8. Laundry    | 18. Auto       | 28. Soc. Sec. Tax |
| 9. Travel     | 19. Cigarettes |                   |
| 10. Education | 20. Home Furn. |                   |

You may easily enter, edit, save and recall data, print out selected categories according to transaction period, and much more. Family Budget comes with an excellent 17-page instruction manual. Be prepared for that IRS audit! Requires 16K program memory (Atari version requires 24K). **Price: \$34.95** (diskette), **\$37.45** (8" CP/M disk).

### TAX OPTIMIZER

Tax Optimizer is a software system designed to evaluate various tax alternatives and to select the most advantageous method for the preparation of an individual Federal Income Tax return. Using this program you can easily determine the advantages of your projected financial decisions and actions.

Each set of input data is referred to as a scenario. A tax scenario can contain up to five alternatives. Individual scenarios may be saved on disk for future reference. Stored scenarios may be retrieved, modified, and recalculated at will. If a printer is available, permanent copies of the tax scenarios can be printed.

In essence, Tax Optimizer fills out each tax form under the different preparation scenarios, and calculates the final tax liability associated with each approach. This can be done for a sequence of years so that you may choose the scenario having the overall best tax advantage. Tax Optimizer is clearly worth more than its purchase price, and even that is deductible! Tax Optimizer comes complete with a 14-page instruction manual. **Price: \$59.95** (diskette), **\$62.45** (8" CP/M disk).

### MICROCOMPUTER STOCK PROGRAM

The Microcomputer Stock Program (MSP) is designed to help you analyze stock prices. It provides timing signals for stock purchases and sales. Buy and sell indicators are generated by means of a unique autoregressive price trend analysis. MSP requires only weekly high, low, and close prices and the volume of shares to aid your investment decisions. It includes the following features:

- generate buy/sell signals for the last 8 weeks
- print a volume/price/moving average chart on any 80 or 132-column printer
- complete data maintenance facilities, including on-screen viewing
- and easy editing for adding, changing or deleting data
- simple adjustment for stock splits and dividends
- list price/volume data to printer
- completely menu-driven and easy to use

Documentation includes complete operating instructions and tips on how to use MSP most effectively. System requirements: cassette, with 16K memory (minimum) or one disk drive, with 32K memory (minimum). Printer optional. **Price: \$59.95** (cassette), **\$62.45** (diskette).

## STATISTICAL/SCIENTIFIC

### REGRESSION I

This is a complete and coordinated regression curve fitting package for the analysis of linear and non-linear, one-dimensional data. The user is given considerable freedom in experimenting with fitting functions and orders of approximation. Also, a special algorithm is employed to determine the coefficients which have round-off error properties, much superior to the matrix algorithms commonly used. This greatly reduces the need to perform the calculations in double or pre-process the data.

Regression I is not only a powerful statistical tool for use in engineering, business and social sciences, it is educational as well. Because the program presents the regressed coefficients as well as their estimated error bounds, the student may learn by experience how much credence to place on the derived coefficients. In addition, he/she may also get a feel for the general types of fit associated with various levels of correlation. Program requires 16K memory (24K on Atari). **Price: \$19.95** (cassette), **\$23.95** (diskette), **\$26.45** (8" CP/M disk).

### REGRESSION II (PARAFIT)

Parafit is a parametric least squares regression program designed specifically for the determination of the non-linear coefficients in

# COMP WARE

ATARI, APPLE, TRS-80 Models 1  
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complicated mathematical expressions. This is in contrast to the linear polynomial coefficients calculated by Regression I. Features included in Parafit are automatic plotting of the data fitted function and residuals; cassette (or diskette) data storage and data file building/editing. Parafit was designed to be easy to use as well as effective, and is an excellent companion to Regression I. A comprehensive 14-page manual is included. Requires 16K of memory (24K on Atari). **Price: \$19.95** (cassette) **\$23.95** (diskette), **\$26.45** (8" CP/M disk).

### MULTILINEAR REGRESSION (MLP)

This is the third program in the Dynacomp statistics series. Whereas Regression I and Regression II (Parafit) are designed for analyzing bivariate data, MLP is capable of treating multi-variate situations with no limit (other than available computer memory) on the number of dimensions. Data input to MLP may be either from the keyboard or from cassette/disk files. Data may be loaded, saved, added to, deleted, and generally edited using the convenient data manipulation procedures provided. The outputs from MLP are the regression coefficients and the standard error associated with these coefficients. MLP also supplies the standard error of the estimate for the fit and the correlation coefficient. Finally, MLP offers the opportunity to use the regressed equation to calculate values along the fitted hyper-curve. MLP is supplied with a 16-page manual which carefully outlines program operation. Requires 16K memory (24K on Atari). **Price: \$24.95** (cassette), **\$28.95** (diskette), **\$31.45** (8" CP/M disk).

### STATTEST

This program performs statistical test of hypotheses and includes t-tests, chi-square tests, and F-tests as well as simple regression. Data can be entered under program control or directly from tape or disk. Any external file which already contains data in the simple format required may also be used. Once the data is loaded, it may be easily edited by the program's own data manipulation routine. When the data is ready, descriptive statistics are calculated, the hypothesis to be tested is stated, and the test is performed. Previously calculated statistics may be optionally used instead of data entry. The 19-page manual is structured to allow the experienced statistician to make successful use of the program immediately as well as to assist the new user in the proper application of these powerful statistical tools. STATTEST is ideal for the experienced statistician as well as the occasional user. Tape version will run in a 16K TRS-80 Model I or III. **Price: \$29.95** (cassette), **\$33.95** (diskette), **\$36.45** (8" CP/M disk).

### ANALYSIS OF VARIANCE (ANOVA)

ANOVA is actually four programs in one. Each program performs a specific task matched to the designed experiment under analysis.

1. A one-way ANOVA produces the treatment sum of square, mean square, and F ratio along with the error mean square. This algorithm accepts unequal numbers of replicates (repeat measurements) per treatment level and unlimited numbers of treatment levels and replicates.

2. Two-way ANOVA performs an analysis of either fixed or random factors with equal numbers of replicates per cell. There is no practical limit on the number of levels or replicates. Sums of squares and mean squares are printed for both factors and the interaction as well as the error sum of squares and all F ratios.

3. The "N-way" (for N up to 5 factors) will accept up to 4 levels per factor or any combination of levels not to exceed 1024 treatment combinations in 16K of core. Sums of squares and mean squares for all main effects and up to 3 factor interactions are computed. The appropriate (residual or pure error) mean square is used to compute the F ratios.

4. YATES analysis computes the mean square and half effect for two level factorial and fractional factorial experiments. All main effects and interactions are computed and printed out.

Documentation (15 pages) includes a guide to experimental design and methods to compute components of variance for the random model ANOVA. Examples and test data are provided to allow the user to practice with known information before applying the programs to new data. Requires 16K memory. **Price: \$39.95** (cassette), **\$43.95** (diskette), **\$46.45** (8" CP/M disk).

### BASIC SCIENTIFIC SUBROUTINES (VOLUME I)

*BASIC Scientific Subroutines, Vol. I*, by F. Ruckdeschel (published by BYTE/McGraw-Hill) is the first in a series of books designed to provide microcomputer users with scientific subroutines written in BASIC. Through arrangements with McGraw-Hill, DYNACOMP has become the exclusive distributor of software packages coordinated with this text. The package includes programs accessed and demonstrated by a special menu program, and organized according to the chapters of the book. Programs include routines for Alphanumeric Data Plotting, Complex Variables, Vector and Matrix Operations, Random Number Generators and Series Approximations. Clear documentation describes how to use the associated menu programs to call up and demonstrate each routine. Requires 16K (48K on Atari). **Price: \$49.95** (cassette), **\$59.95** (diskette), **\$69.95** (8" CP/M disk).

### BASIC SCIENTIFIC SUBROUTINES (VOLUME II)

This is a set of programs to accompany the second volume of the *BASIC Scientific Subroutines* series. This volume contains more than 120K of excellent software. As with Volume I, The Software can be accessed by a set of menus that call up and demonstrate each routine. The subroutines are arranged according to the chapters in the book, covering Least Squares Approximation, Series Approximation Techniques, Functional Approximations by Iteration and Recursion, CORDIC Approximation Techniques and Alternatives, Table Interpolation, Differentiation and Integration, Finding the Real Roots of Functions, Finding the Complex Roots of Functions and Optimization by Steepest Descent. Accompanying documentation describes how to use the menu programs to call up and demonstrate each routine. **Price: \$119.95** (cassette), **\$149.95** (diskette), **\$169.95** (8" CP/M disk).

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**30-DAY MONEY BACK GUARANTEE**

### Minimum System Configurations (unless stated otherwise):

- IBM PC with 16K, PC BASIC
- Atari 400/800: Atari BASIC, 16K/24K
- Apple II with 16K, Applesoft BASIC
- TRS-80: Model I or III, 16K Level II BASIC
- PET/CBM: 16K, Commodore BASIC
- North Star: 5 1/4 inch diskette, North Star BASIC and 16K
- CP/M: 8" softsectored disk, MBASIC, OR 5 1/4 inch North Star format, MBASIC
- Osborne-1: Microsoft BASIC
- SuperBrain: 5 1/4 inch diskette, MBASIC
- NEC PC-8000: NBASIC, MBASIC and 48K

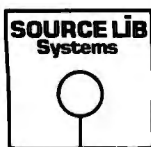
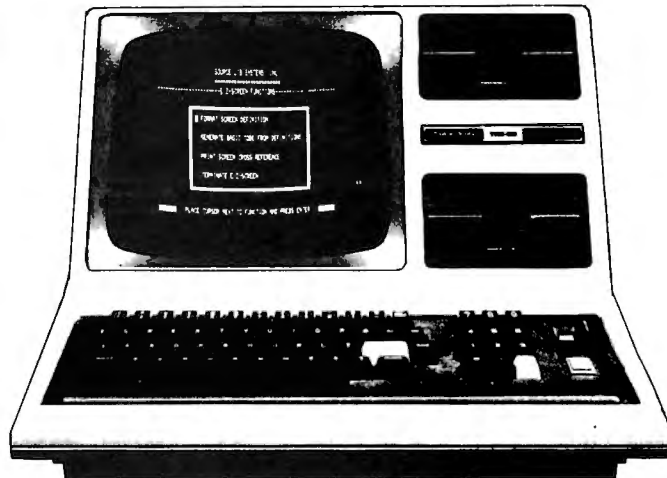
\* Most Atari programs require 24K. Those that will run in 16K are so marked in the listing.

\*\* TRS-80 diskettes do not come with TRSDOS or BASIC on them. All programs will run on the Model III, using the Model I to III CONVERT utility.

\*\*\* PET/CBM diskettes come in 4040 (2040) and PET-64 format. They cannot be loaded on 8050 disk drives.

# BASIC PROGRAMMERS CREATE DATA-ENTRY SCREENS IN A FLASH

## with: E/Z-SCREEN



**E/Z-SCREEN** is a revolutionary new programming system now available for the TRS-80 that enables you to design and edit professional-quality data entry screens right on your screen, and then generate BASIC code for your programs

Once in place, the E/Z-SCREEN system starts the show by "talking" to you. It automatically produces "user friendly" Disk BASIC code, giving you access to a host of screen processing functions.

This and many other E/Z-SCREEN features can save you untold time, effort and can actually make screen design rather enjoyable! Here's how:

### E/Z-SCREEN DESIGN

By using your keyboard, E/Z-SCREEN's formatting commands let you format and modify your screen. Like changing channels, you can keep changing your layout until you're perfectly happy with it. And since what you see on screen is what you get, you never get a layout or write a program you're not completely satisfied with.

Want to center a line? Maybe a few? Just give the command and watch it happen — automatically! You can even repeat information, horizontally or vertically.

Best of all, if you still don't like what you see, you can totally rearrange the screen design — even after you've written your program.

E/Z-SCREEN lets you move any and all fields of information, re-sequence lines, and much more. And you see it all happen right in front of your eyes. When you're finally satisfied, save your screen on disk and go on to design another. After you've designed all of the screens for your program, then E/Z-SCREEN really goes to work for you.

### THE GRAND FINALE

E/Z-SCREEN automatically generates the screen process code, making your screen work and look like those written for larger industrial computers. The code controls the displaying and reading of data and the printing of text on the screen — for up to 12 screens per program!

What's more, the keyboard operator is truly the program director, in total control of data being entered. Data changes, corrections, and erasures are all made easily by using the cursor-control keys.

### A MATTER OF RECORD

E/Z-SCREEN even makes documentation of your program easy by automatically cross-referencing and printing it on paper (if a printer is connected).

### SYSTEM REQUIREMENTS

TRS-80 Model I and III with 48K and two disk drives.

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Checkbook Maintenance.....Accounts Receivable.....Accounts Payable.....

### BUSINESS PAC 100 PROGRAM LIST

| NAME          | DESCRIPTION  |
|---------------|--|
| 1 RULE78      | Interest Apportionment by Rule of the 78's             |
| 2 ANNU1       | Annuity computation program                            |
| 3 DATE        | Time between dates                                     |
| 4 DAYYEAR     | Day of year a particular date falls on                 |
| 5 LEASEINT    | Interest rate on lease                                 |
| 6 BREAKVEN    | 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 CONDPFOP   | Conditional profit tables                              |
| 51 OPTLOSS    | Opportunity loss tables                                |
| 52 FQIQOQ     | Fixed quantity economic order quantity model           |
| 53 FQEQOWSH   | As above but with shortages permitted                  |
| 54 FQEQOQPB   | As above but with quantity price breaks                |
| 55 QUEUECB    | Cost-benefit waiting line analysis                     |
| 56 NCFANAL    | Net cash-flow analysis for simple investment           |
| 57 PROFIND    | Profitability index of a project                       |
| 58 CAPI       | Cap. Asset Pr. Model analysis of project               |

|              |   |
|--------------|---|
| 59 WACC      | Weighted average cost of capital                    |
| 60 COMBAL    | 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    | HOME business bookkeeping system                    |
| 77 TIMECLCK  | Computes weeks total hours from timeclock info.     |
| 78 ACCTPAY   | In memory accounts payable system-storage permitted |
| 79 INVOICE   | Generate invoice on screen and print on printer     |
| 80 INVENT2   | In memory inventory control system                  |
| 81 TELDIR    | Computerized telephone directory                    |
| 82 TIMUSAN   | Time use analysis                                   |
| 83 ASSIGN    | Use of assignment algorithm for optimal job assign. |
| 84 ACCTREC   | In memory accounts receivable system-storage ok     |
| 85 TERMSPAY  | Compares 3 methods of repayment of loans            |
| 86 PAYNET    | Computes gross pay required for given net           |
| 87 SELLPR    | Computes selling price for given after tax amount   |
| 88 ARBCOMP   | Arbitrage computations                              |
| 89 DEPRSF    | Sinking fund depreciation                           |
| 90 UPSZONE   | Finds UPS zones from zip code                       |
| 91 ENVELOPE  | Types envelope including return address             |
| 92 AUTOEXP   | Automobile expense analysis                         |
| 93 INSFIL    | Insurance policy file                               |
| 94 PAYROLL2  | In memory payroll system                            |
| 95 DILANAL   | Dilution analysis                                   |
| 96 LOANAFDD  | Loan amount a borrower can afford                   |
| 97 RENTPRCH  | Purchase price for rental property                  |
| 98 SALELEAS  | Sale-leaseback analysis                             |
| 99 RRCONVBD  | Investor's rate of return on convertible bond       |
| 100 PORTVAL9 | Stock market portfolio storage-valuation program    |

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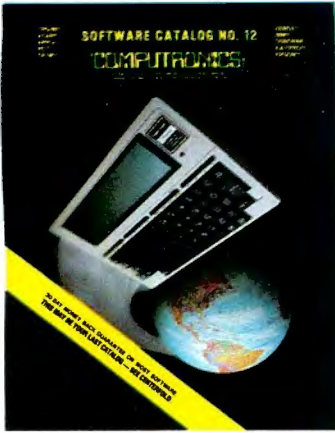
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- Track news and price activity in future markets.
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- UNISTOX gives UPI's reports on over 168 stocks, bonds, commodities, money markets, treasury bills, etc.
- Access UPI's business wire for business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

### Communications

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

### Electronic Shopping Services

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

### Electronic Job Hunting

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

### Education

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

### Mainframe Computing Power

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

### Entertainment

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

## MORE ABOUT DELPHI

### Bulletin Boards

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

### Conference

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

### Delphi Mail

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

### Delphi Banking

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

### The Delphi Library

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

### News

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

### Online Markets

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

### Travel

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

### Scheduler

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

### Programming Languages

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

### Infomania

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

### Writer's Corner

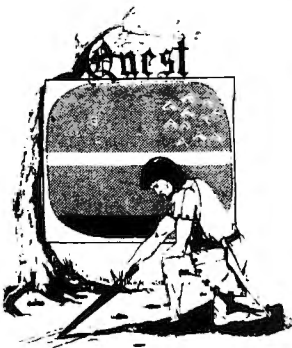
- A "toolkit" for your use in writing, editing and publishing, from programs to books. Normally, publications submitted by members appear in Infomania. "Best Sellers" from Infomania may find their way to other parts of Delphi, and their authors may be eligible for royalties.

### Online Typesetting

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

### Storage

- You will be charged for information stored in files under your control, and for information in mailings sent to more than one member. The first 50,000 characters stored (month's average) is free, with a \$.05 charge for each additional 1,000 characters.



# Games from AARDVARK

For the TRS-80 Color Computer,  
VIC-20, VIC-64,  
Sinclair ZX81, Timex/Sinclair 1000



## AARDVARK ADVENTURES

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

### QUEST

\$14.95

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

### PYRAMID

\$14.95

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

### ESCAPE FROM MARS

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

### CIRCLE WORLD

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

### DERELICT

\$14.95

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

### TREK

\$14.95

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

### NUCLEAR SUB

\$14.95

You start at the bottom of the ocean in a wrecked Nuclear Sub. There is literally no way to go up. Save the ship, raise her, or get out of her before she blows.

## ARCADE GAMES FOR THE TRS-80 COLOR COMPUTER

### TUBE FRENZY

\$19.95

This is an almost indescribably fast action arcade game. It has an all-new concept in play, simple rules, and 63 levels of difficulty (even the author hasn't gotten past level 30). Supplied on cassette for the TRS-80 Color Computer ONLY, REQUIRES 16K AND JOYSTICKS.

### CATERPILLAR

\$19.95

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

### VENTURER

\$19.95

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

### SPECIAL THREE-PAK

\$44.95

Get TUBE FRENZY, CATERPILLAR, and VENTURER all on a single tape or disk. Sold separately, these games would cost \$59.95.

### PLANET RAIDERS

\$19.95

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

### CATCH 'EM

\$19.95

One of the simplest, but fastest and funniest arcade games. Great fun for kids and adults. Raindrops and an incredible variety of other objects come falling down on your head. Use the Joysticks to Catch 'Em. For TRS-80 Color Computer ONLY.

### LABYRINTH

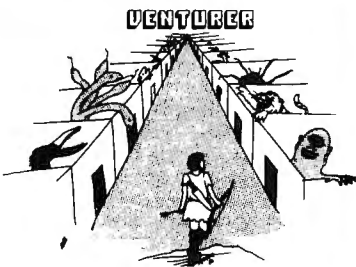
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The action takes place in a realistic maze seen from ground level. This is a real time monster hunt as you track down and shoot the mobile monsters. For TRS-80 Color Computer ONLY. Requires Extended BASIC.

### SPACE ZAPPER

\$14.95

Protect your central starbase from alien ships by zapping them before they zap you. High speed graphics--right out of the arcades! For TRS-80 Color Computer ONLY, requires 16K Extended or 32K Disk BASIC.



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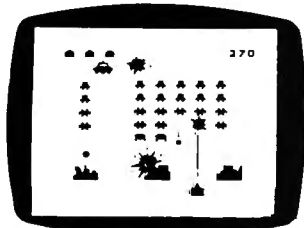


TRS-80™

# COLOR COMPUTER

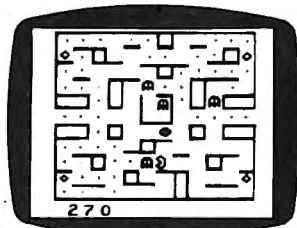
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SPECTRAL ASSOCIATES, the LEADER in TRS-80 Color Computer software, presents the best in 16K machine language, fast action, high resolution arcade games. Extended Basic not required.



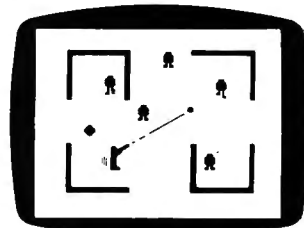
**COSMIC INVADERS**

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.



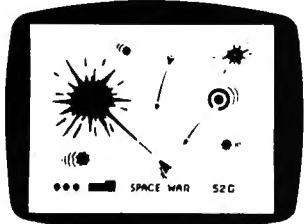
**GHOST GOBLER**

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



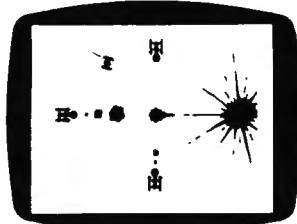
**ROBOT BATTLE**

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.



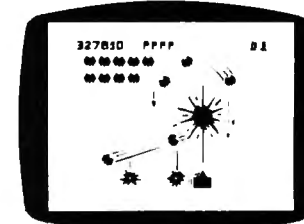
**SPACE WAR**

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

### 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

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### 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

### UTILITIES

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(Program your own ROMs for the ROM PAC port)
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11. ADVENTURELAND - You wander through an enchanted world trying to recover the 13 lost treasures. You'll encounter wild animals, magical beings, and many other perils and puzzles. Can you rescue the Blue Ox from the quicksand? Or find your way out of the maze of pits? Happy Adventuring....

12. PIRATE'S ADVENTURE - "Yo ho ho and a bottle of rum..." You'll meet up with the pirate and his daffy bird along with many strange sights as you attempt to go from your London flat to Treasure Island. Can you recover Long John Silver's lost treasures? Happy sailing, matey. . . .

3. MISSION IMPOSSIBLE ADVENTURE - Good morning, your mission is to... and so it starts. Will you be able to complete your mission on time? Or is the world's first automated nuclear reactor doomed? This one's well named. It's hard, there is no magic, but plenty of suspense. Good luck. . . .

4. VOODOO CASTLE - Count Cristo has had a fiendish curse put on him by his enemies. There he lies, with you his only hope. Will you be able to rescue him or is he forever doomed? Beware the Voodoo man. . . .

5. THE COUNT - You wake up in a large brass bed in a castle somewhere in Transylvania. Who are you, what are you doing here, and WHY did the postman deliver a bottle of blood? You'll love this ADVENTURE. In fact, you might say it's Love at First Byte. . . .

6. STRANGE ODYSSEY - Marooned at the edge of the galaxy, you've stumbled on the ruins of an ancient alien civilization complete with fabulous treasures and unearthly technologies. Can you collect the treasures and return or will you end up marooned forever? . . . .

7. MYSTERY FUN HOUSE - Can you find your way completely through the strangest Fun House in existence, or will you always be kicked out when the park closes? . . . .

8. PYRAMID OF DOOM - An Egyptian Treasure Hunt leads you into the dark recesses of a recently uncovered Pyramid. Will you recover all the treasures or more likely will you join the denizens for that long eternal sleep? . . . .

9. GHOST TOWN - Explore a deserted western mining town in search of 13 treasures. From rattlesnakes to runaway horses, this ADVENTURE's got them all! Just remember, Partner, they don't call them Ghost Towns for nothin'. (Also includes new bonus scoring system!)

10. SAVAGE ISLAND - PART 1 - WARNING FOR EXPERIENCED ADVENTURERS ONLY! A small island in a remote ocean holds and awesome secret. Will you be the first to uncover it? NOTE: This is the first of a larger multi-part Adventure; it will be necessary to purchase additional packages to complete the entire Adventure.

11. SAVAGE ISLAND - PART 2 - After struggling through Part 1, you have the consolation of knowing its half over. This concludes this two part ADVENTURE it requires you have completed #10 and received the password to start #11.

12. GOLDEN ADVENTURE - WARNING FOR EXPERIENCED ADVENTURERS ONLY! The king lies near death in the royal palace - you have only three days to bring back the elixir needed to rejuvenate him.

## ADVENTURE PRICE LIST

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

## OTHER POPULAR ADVENTURE SOFTWARE:

|                                 | TRS-80          | APPLE     | ATARI           |
|---------------------------------|-----------------|-----------|-----------------|
| Lunar Lander - Tape/Disk        | / \$24.95       | --        | \$14.95/\$20.95 |
| Missile Attack - Tape/Disk      | \$14.95/\$20.95 | / \$29.95 | --              |
| Star Fighter - Tape/Disk        | \$24.95/\$29.95 | --        | --              |
| Galactic Empire - Tape/Disk     | \$14.95/\$19.95 | --        | / \$19.95       |
| Stratos - Tape/Disk             | / \$24.95       | --        | / \$34.95       |
| Stone of Slayphus - Disk        | / \$29.95       | / \$29.95 | / \$39.95       |
| Interactive Fiction - Pac-Disks | / \$29.95       | / \$29.95 | --              |
| Eliminator - Tape/Disk          | / \$24.95       | / \$29.95 | / \$24.95       |
| Treasure Quest - Tape/Disk      | \$14.95/\$19.95 | --        | / \$14.95       |
| Armor Patrol                    | / \$24.95       | --        | --              |
| Sea Dragon                      | / \$24.95       | / \$34.95 | / \$34.95       |

## 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:

Death Planet: The Dog Star Adventure ..... \$19.95  
The Mean Craps Machine ..... \$19.95  
Sea Dragon ..... \$34.95

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

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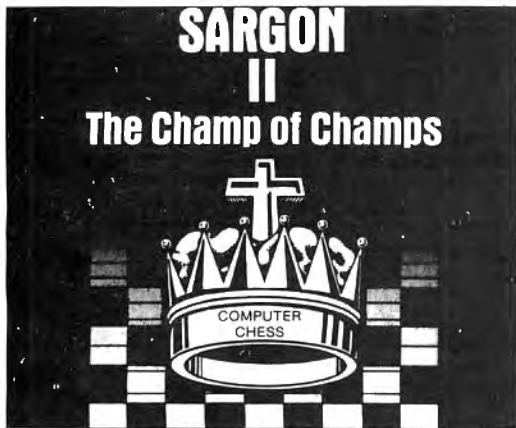
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# HOME ARCADE!



"SARGON II — Buy this program, when it becomes available — . . . an evaluation routine that enabled it to beat the giants! . . . unequaled in the endgame . . ." "Personal Computing."

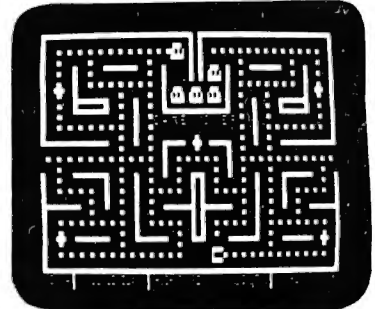
Because new algorithms have been added, the program is able to: push passed pawns toward queening; play a stronger end game; and range into deeper play levels at end game without user direction.

**TRS-80 Model I/III \$29.95 (tape), \$34.95 (disk)**  
**APPLE \$29.95 (tape), \$34.95 (disk)**

## 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 progresses. 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

## BIG FIVE FAST-ACTION ARCADE GAMES FOR THE TRS-80

### ROBOT ATTACK

**Voted best game of 1982!**

Robots from the planet "Jidyra" have captured one of Earth's space stations. Alarms all over the space station are screaming out "Robot Attack! Robot Attack!" From nowhere, robots materialized in almost every corner of the compartment that you're in. Quickly and 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, where you find and destroy more robots. But wait! What's that sound? Oh, no! It's the evil flagship. You'll need all your skill and reflexes to get out of this one!

### STELLAR ESCORT

**Nominated for best game of 1983!**

Federation forces in Aries Quadrant 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 almost completely. 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, and your mission is to intercept the cruisers, place them in your fighter's tractor beam and escort them through the Cretonian battle front while warding off all assaults.

### GALAXY INVASION

Cruel and crafty invaders have been spotted in battle formation warping towards Earth at an incredible speed. You destroy alien after alien, but now they're starting to break out of the convoy and fly straight at you!

### 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

### 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.

### SUPER NOVA

Large asteroids float ominously around the screen. Suddenly your ship appears and you must destroy the asteroids before they destroy you! But watch out! Big asteroids break apart into little ones!

### ATTACK FORCE

As your ship appears in a maze-like playfield, eight alien ramships appear at the top. All of them are travelling at flank speed directly at you! You move around the field, firing missiles to destroy them, but now the menacing "Flagship" is after you!

### COSMIC FIGHTER

You'll need all your skill and wits to win this one. Flight after flight of alien ships are descending, and you must hit every one to survive. But they are intelligent and dodge your shots, and shoot back! Now the alien flagships are attacking too, and they can instantly zap you with their lasers! And you're also running out of fuel! Will ever get to your mother ship and refuel before you run out?

### METEOR MISSION II

Six astronauts are stranded and crying out for help. To rescue them, you must brave a deadly field of meteors and asteroids, then land, pick up an astronaut and fly back to orbit! And watch out! There's an alien flagship lurking about, waiting for the chance to zap you!

**All Big Five games are for TRS-80 Models I and III**  
**Prices: \$15.95 (16K tape), \$19.95 (32K disk)**

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# REALTY SOFTWARE COMPANY PRESENTS:

## Systems for Landlords and Real Estate Professionals

Available for TRS-80 Models I & III, Apple II & III, IBM & CP/M Computers

These systems have been developed by people professionally involved in real estate analysis, property management and sales who also have an extensive background in computer analysis. Hundreds of satisfied clients have discovered how effective a microcomputer can be in their business.

### 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:**

- TENANT INFORMATION REPORT
- YEAR-TO-DATE INCOME REPORT
- RENT RECEIPT PRINTING
- 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 ..... \$450.00

### 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.

**LOAN AMORTIZATION**

This module generates a complete loan payment schedule for fully amortized, interest-only and less than interest-only (negative amortization) loans with payments from one to 365 per year.

**CONSTRUCTION COST/PROFIT**

A sophisticated program for builders and investors which allows fast and complete analysis of potential profits.

**PROPERTY SALE**

This module will show the net financial result of a property sale, and will calculate the total gain realized, total taxable gain, return on investment and total cash to seller.

**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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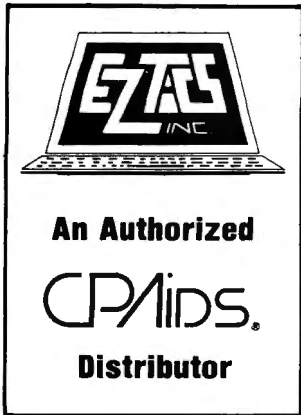
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# INCOME TAX SOFTWARE

## FOR THE ACCOUNTANT AND THE TAX PRACTITIONER

*Experience The Benefits Of The Most Comprehensive Professional Microcomputer Tax Program On The Market Today —*

- The entire tax return is stored on disk for later recall
- The entire return is displayed on the screen at once — not just line-by-line.
- The print routines eliminate the problem of constantly changing paper.
- Multiple taxpayer and spouse schedules are supported where applicable.
- Annual updating available at 1/3 the current price.
- Comprehensive training manual is available separately for \$75.
- Free training and user support provided by E-Z Tax Computer Systems Inc.
- Tax Software purchased after April 30, 1983 will be the 1983 edition (for preparing 1982 returns). The 1984 edition will be delivered in January 1984 at NO ADDITIONAL CHARGE!
- Available for any computer equipped with CP/M 2.2, MS-DOS or PC-DOS.

### FEDERAL INCOME TAX PROGRAM

Eliminate costly reprocessing time of an outside service bureau. With our nationally recognized Federal 1040 software, you can have a computerized tax service right in your own office. Guarantee data security. Insure consistency in preparation. Eliminate mathematical errors. Developed by CPAs, this software automatically chooses the most advantageous tax method. Compliance with tax regulations is simplified with automatic printing of Tax Preparer's Fed. ID. No. and employee's Social Security No. on the 1040.

The following features are included:

- Thirty five forms and schedules
- Tax Tables, A, B, C, D
- Tax Schedules X, Y, Z
- Sales tax tables for Schedule A (state of your choice)
- Client storage on disk for later recall
- Client instruction letter
- Client Proforma
- Exclusive CPAIDS printing options (you may choose one of the following)—Overlays, Preprinted forms, or Computer Generated forms.

- Depreciation Program (year round)
- Loan Amortization Program
- Interactive with CPAIDS General Ledger II program to generate Schedule C
- Input Sheets
- Overflow Schedules
- Up to 9 additional rental properties
- Multiple Schedule C, F, 2106, 6252
- Additional Reports Generator

### Federal Tax Program ..... \$1695

- Federal 1040 pages 1 and 2
- Schedules A, B, C, D, E, F, G, R, RP, SE, ES, 1116, 2106, 2199, 2210, 2441, 2555, 3468, 3903, 4136, 4137, 4255, 4625, 4797, 4874, 4952, 4972, 4562, 4835, 5695, 5884, 6251, 6252, 6765

### STATE INCOME TAX PROGRAMS

The E-Z Tax Computer State Packages are all interactive with each other and with the CPAIDS Federal Tax Programs or can be used as independent, stand-alone systems.

The following features are included:

- Automatic transfer of Federal figures to State
- Automatically computes most advantageous method of filing
- Checks for Itemized vs. Standard Deduction
- Figures Household Credit/Tenant Credit
- Wage Allocations where applicable
- Automatically pro-rates for part year residents
- All input can be edited and changed prior to printing

#### New York State Programs

- Automatically checks for Maximum Tax
- Automatic Child Care Deduction
- Automatically computes NYC 203

#### New York State Resident ..... \$850

IT-201, IT-201ATT, IT-214, IT-250 IT-270, IT-2105, IT-112R, NYC-203,

#### New York State Non-Resident ..... \$400

IT-203, IT-203ATT, IT-250, NYC-203,

#### New Jersey State Programs

- Automatically transfers Federal Schedule D
- Automatically transfers Federal Schedule E
- Medical Credit
- Retirement Income Exclusion
- Other Jurisdiction Tax Credit

#### New Jersey State Resident ..... \$450

NJ-1040, N.J.-1040 ES

#### Emergency Transportation Tax Programs

- Automatically checks for Maximum Tax
- Automatic Child Care Deduction
- Automatically carries 112R information to NYS

#### Emergency Transportation Tax ..... \$400

NJTT-203, NJTT-250, NJ-1040NR,

#### Massachusetts State Program

- Automatically transfers interest income and pertinent information from the Federal Schedule B.

#### Massachusetts ..... \$650

Form 1 pages 1 and 2  
Schedules E, F, RD, B, D

### SPECIFICATIONS FOR ALL PROGRAMS

- CP/M version 2.2 or MS-DOS or PC-DOS
- Printer capable of 80-column width, 10 characters per inch and 6 lines per inch
- Minimum memory configuration of 56Kb
- Minimum two floppy disk drives
- CRT capable of 80 by 24 display

Because of licensing agreements, E-Z Tax Software is not covered by H & E Computronics Money-Back Guarantee

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# Editor Assembler

## For The TRS-80 Models I, II, III



**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 pseudo ops, allowing for the exact labeling and formatting of printed output you need.

A COM pseudo 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 text 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 identical 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**

**\$100.00**

**EDAS Model II**

**\$199.00**

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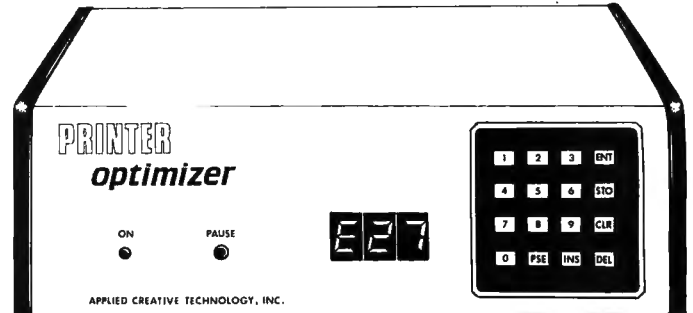
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We've broken this bottleneck with a smart little "white" box called the **PRINTER OPTIMIZER®** that features a 64,000 to 256,000 character memory buffer. Now you can "print" your inventory in 2 seconds instead of 10 minutes, and no longer will your computer be tied up transmitting or receiving modem transmissions. The OPTIMIZER is smart too! You'll notice a keypad and display in our picture. You can tell the OPTIMIZER to convert data, send control sequences, pause on cue, and more. For example: access all of your printer's capabilities (graphics, font size, forms control, special symbols) with the ease of selecting a station on a pushbutton car radio. Use it to adapt an XYZ printer to your ABC computer running a PDQ word processing program. Run a serial printer or modem from a parallel port. If you can afford and justify a disk drive, then you certainly need our OPTIMIZER to bring your printer, plotter or modem "up to speed" with the rest of your system.



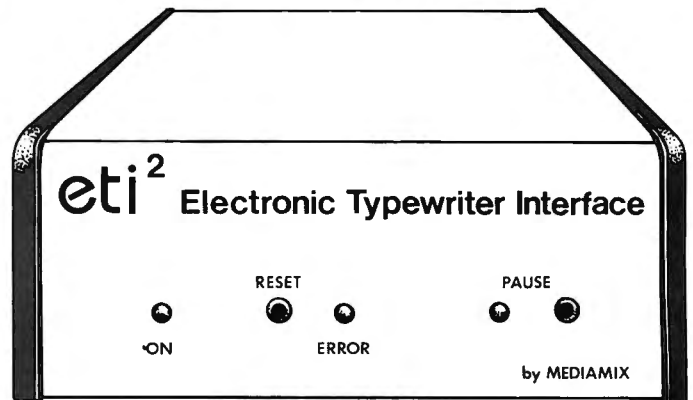
- Optimizer with 64K buffer ..... \$545.00  
(configured for Centronics-type parallel port)
- Parallel cable for TRS-80 Mod I or III ..... \$30.00
- Opticom Serial Port Adaptor (RS232C) ..... \$100.00
- Additional 64K Optimum Memory Cards ..... \$145.00

## Do You Need a Letter-Quality Printer?

**(You may already own one without realizing it!)**

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# Meet the computer with horse-sense!



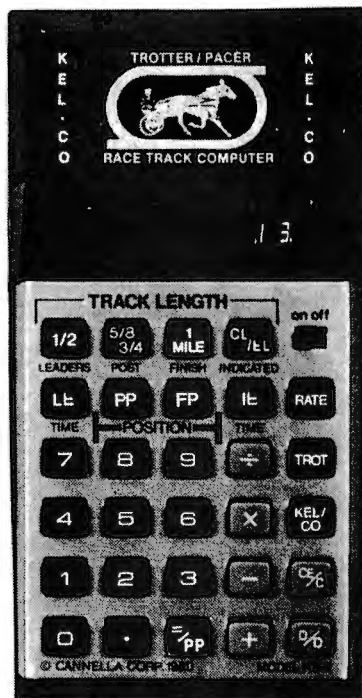
## INTRODUCTION

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.



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Winner™

COMPUTER PICKS  
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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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THE KEL-CO CLASS COMPUTER IS THE MOST INGENIOUS WAY TO PICK THE HORSES, BY A LONG SHOT.



Now there's a space-age computer that helps you narrow the odds, for it has been specially designed to give you a **class** rating on every thoroughbred race horse on every track in North America. No, this isn't a toy or merely an ordinary calculator. It's a sophisticated state-of-the-art computer that contains a special Texas Instruments microprocessor computer chip (TMS 1100MP3452NL) 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.



You'll Come Out A Winner

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.

## 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.

\* 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...."

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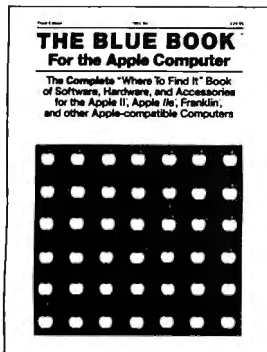
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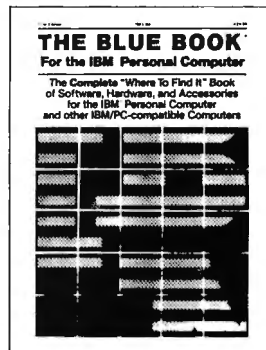
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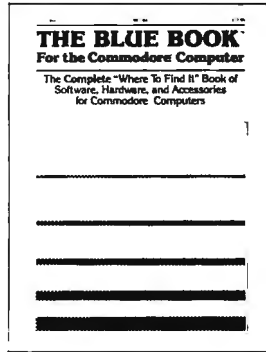
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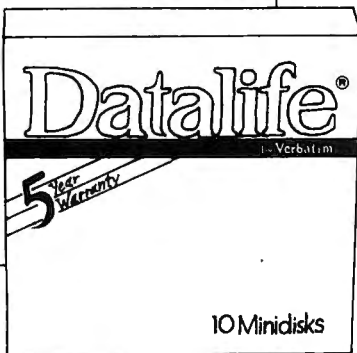
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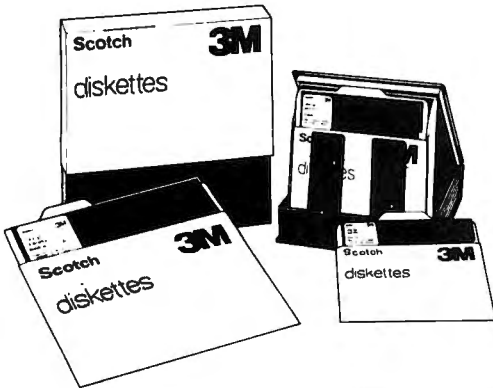
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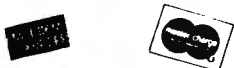


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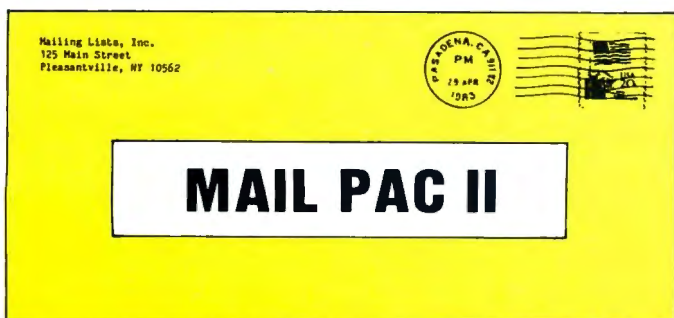
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**MAIL PAC II and CHECKING PLUS represent a new generation of computer software. Our software doesn't even need a manual! Anyone can quickly learn to use either package by following simple, explicit on-screen instructions. But, for those of you who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



## MAIL PAC II FEATURES:

### High Capacity --

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

### Flexibility --

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### Powerful --

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

### Ease of Use --

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

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### Complete Check Register --

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

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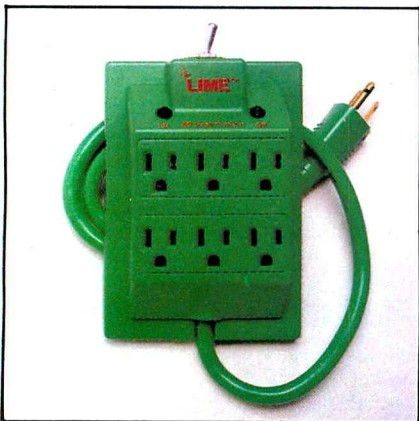
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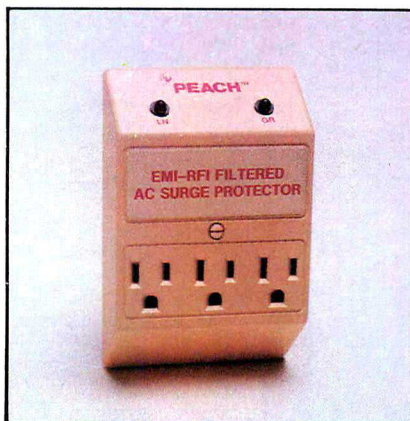
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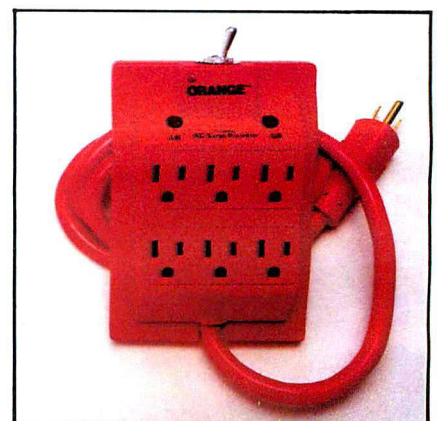
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