The Software Toolworks®

Programming Language Series

TOOLWORKS C/80™ 2.0

An outstanding value, the Toolworks C/80 compiler supports all C language features except float, long, arguments to macros, typedef and bit fields. Works with Macro-80 or included absolute assembler. I/O library includes run time profile feature, I/O redirection. Ranked highest in program speed and compactness among eight 8080 C compilers in January, 1983 *Byte* benchmark.

TOOLWORKS LISP/80™

Experiment with the language used in artificial intelligence research. Toolworks LISP/80 offers over 75 built-in functions, including large machine features like trace, file I/O, and string operations. Comes with 36-page manual, two artificial intelligence demonstration programs.

UVMAC

Absolute macro assemblers at an affordable price. Order Z80 version for Zilog mnemonics, or 8080 version which accepts source files similar to ASM. Each provides macro capabilities, plus source file inclusion, conditional assembly, selectable octal or hex listing, and listing control. Produces absolute files directly.

RATFOR

Adds structured programming and string macro capability, while retaining the efficiency, power and portability of FORTRAN. Produces programs which can be compiled and run by Microsoft FORTRAN. Includes documentation, sample programs, and full source code for RATFOR translator, in RATFOR.
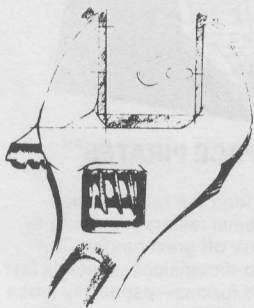
Personal Software Series

COMPUTER CHEF™

A computerized cookbook and recipe file that makes page flipping and portion figuring a thing of the past. Finds recipes for ingredients on hand; automatically scales recipes to fit quantities available or portions needed. Comes with over 70 kitchen-tested recipes from salad to dessert, plus enter your own recipes too.

INTRODUCTION TO BASIC PROGRAMMING

This course in BASIC programming for beginners proceeds at your own pace as the computer teaches, reviews material, tests you, even provides additional explanation whenever you go wrong. You learn by actually programming in five integrated laboratory exercises. Format **H** only.

Software Accessories Series

PIE™ 1.5

PIE 1.5 text editor is easy and natural to learn and use. The terminal screen is a window into a file. Cursor motion keys allow changes to be typed anywhere on the screen. Function key commands perform character and line insert and delete, string search, move and copy single multiple lines, and scrolling of text in the window. Use alone for program preparation, or with TEXT for powerful word processing at an affordable price. Formats **C, H, 8***.

ED-A-SKETCH™

Use this full-screen graphics editor to draw pictures and graphics displays on your screen, then save on disk for display from BASIC and other programming languages. Type regular or graphics characters, using all terminal display modes. Powerful area operations, many special features for picture creation. Formats: **C, H, 8*, O** only.

AUTODIFF™

Keep track of revisions using the AUTODIFF file difference detector. Lists differences between two versions of text or document files, or marks in margin at each change. Works with text and data files, and documents produced by WordStar and many other word processing programs. Not available for HDOS.

SUPER ZAP™

This disk dump and patch program provides many powerful features, yet combines menu control with two-dimensional screen interaction for exceptional ease of use. Full screen display and editing of data in hex, octal or ASCII. Search for sequence of data bytes in file or entire disk. Requires cursor addressable terminal.

Executive Aide Series

REACH™

Modem and file transfer program turns the Z89 into a remote timesharing terminal. Function keys let you transmit or receive disk files, or record remote computer's output to Z89's serial printer. Formats: **C** and **H** only.

PACK and CRYPT

Two-program package saves disk space and provides security for sensitive data. PACK compresses files for storage. CRYPT encodes a file for security from user-provided password.

SPOOL-N-GO™

Printer spooler lets you continue working while printing, just as on large time-sharing systems. Write to device SP:, you then run any program while listing continues with virtually no degradation in computer response. For most serial interface printers. Format **H** only.

CATALOG SYSTEM AND UTILITIES

Master Catalog System keeps track of files in your disk library. Five utility programs search and alter specified string pattern in files, compare, checksum, dump files. Format **H** only.

SPELL

Detects misspelled words in document and text files. Works with PIE, WordStar, Magic Wand and more. Lists suspect words, optionally marks them in file for later correction. Sophisticated algorithms and a prefix/suffix table compress an effective dictionary of over 50,000 words into fewer than 31K bytes of disk space.

ZENCALC™

Spreadsheet program for Heath/Zenith terminals provides all essential features, including formulas, labels, variable column width, and print to line printer or disk file. Yet ZenCalc is uniquely easy to use, with a true full-screen editor "feel" to work-sheet manipulations. 56-page manual includes step-by-step "hands on" tutorial. Comes with federal income tax return templates. Formats **C, H, 8***.

TEXT 4.0

Full-featured text formatter. Prepare files with PIE or any other text editor or word processor. Then pass them through TEXT for fill and justification (straight right margins), pagination, page headers, footers and numbering, indents, centering, underlining, bold print and more. Supports file inclusion, automatic preparation of index and table of contents.

Formats:

O - Osborne 1
X - Xerox / Kaypro 5″
H - Heath/Zenith HDOS 5″ (specify hard or soft sector)
C - Heath/Zenith CP/M 5″ (specify hard or soft sector)
D - Heath/Zenith Dual 5″ (HDOS and CP/M)
8 - Standard 8″ CP/M

If no format code appears, program is available in all above formats except D, and requires 48K RAM.

*Indicates some hardware restrictions; see our complete catalog for details.

Entertainment Series

THE ORIGINAL ADVENTURE

MUNCHKIN™

You run through a maze, evading dangerous creatures. Then reach a force point and you're energized to destroy the baddies. Complete the maze, and you get another, faster one. Vary the skill level with user alterable parameters; even create your own mazes with ED-A-SKETCH (not included). Formats: **D, 8*, O** only.

MYCHESS™

A true world-class chess program with full graphics. Winner at the 1980 West Coast Computer Faire over such opponents as Sargon 2.5 and Atari. Nine skill levels, opening book of over 850 moves. Save game in progress, list moves on printer. Graphics for Heath/Zenith, Osborne; includes non-graphics version for other terminals. Requires Z80 processor.

INVADERS

A video action classic. Waves of alien creatures try to land; hold them off with your space cannon while dodging bombs. Customize with 23 user-variable parameters to increase the challenge; even design your own graphics. Formats: **D, 8*, O** only.

AIRPORT

Test your skill as an Air Traffic Controller. Terminal becomes a radar screen filled with aircraft under your guidance. Guide all 26 aircraft safely through under FAA rules without a "near miss" and you win. For more challenge, try it faster. Formats: **D** only.

ADVENTURE

Brave the dangers and meet the challenges as you explore the magic realm of Colossal Cave, seeking fabulous treasures, mythical adversaries to overcome, and initiation into the secret spells which operate within the cave. The fantasy world is brought to surprising reality by your personal computer as it vividly and amusingly serves as your guide and advisor, describing the sights and sounds about you in the only version of Adventure officially endorsed for authenticity by Adventure's creators, Will Crowther and Don Woods.

ELIZA

Carries on a conversation with you, in plain English. Great for playing alone or at parties, ELIZA is the perfect way to show off your machine to friends. Not just a game, but a faithful recreation of the original artificial intelligence program developed at MIT. Comes with the DOCTOR script which converses like a psychiatrist.

WORD WIGGLE™

Pit yourself against the clock and the computer in this scrambled letter game that builds word skills for young and old alike. Score points in the letter square by following adjacent letters to form words. Eleven computer skill levels help develop your vocabulary and agility until you can challenge the full 40,000-word dictionary. Comes configured for Heath/Zenith, Osborne or Kaypro; adaptable for other terminals.

SNAKE

SNAKE moves about the screen, avoiding obstacles and eating food as it appears. As it grows, quick reflexes and mental anticipation are needed to avoid a fatal collision. Increase the challenge by speeding up the SNAKE, adding obstacles, or moving to the Advanced Game with bridges and a tunnel. Formats: **D** and **O** only.

SPACE PIRATES™

Defend the space station against raiders swarming to carry off grain barges. The two-dimensional action is fast and furious—especially when the pirate juggernaut sails in. Comes with three space station assignments providing different levels of difficulty, or use ED-A-SKETCH (not included) to create new ones. Formats: **D, O** only.

The Arcturus Trilogy is a series of three full graphics video games, set against the background of the invasion of the peaceful Arcturus system. Only your bravery stands between the peaceful inhabitants and certain destruction.

Arcturus Trilogy #1: ARCTURUS RANGER™

A space fleet invades the Arcturus system, and it's up to you to stand them off. Armed with missiles, laser and shields, you fight through wave after wave of attackers of all types, plus powerful, maneuverable enemy command ships. Finally, face the ultimate challenge of the behemoth space station. Formats: **O** only.

Arcturus Trilogy #2: ARCTURUS CONTROLS™

Control the missile defenses in this full graphics arcade-style action game, as your Omega base stands between the planet and the invaders.Your two launcher stations must protect the targets against long-range missiles and attack bombers coming in at increasingly lower altitude. Formats: **O** only.

Arcturus Trilogy #3: ARCTURUS EXTERMINATOR™

This complex action game provides a real challenge, along with spectacular arcade-style graphics. The invasion fleet is seeding the atmosphere with eggs of the dread Hammerheads. You must exert all your daring and skill to destroy them while sparing the friendly native Anthropods they mimic. If your remote-guided missile launcher is destroyed, it means a dash through the swamp and a perilous hovercraft flight to get a replacement while you dodge swamp mosquitos and hungry Hammerheads. Formats: **O** only.

Write or call for our complete catalog, and for the name of a Software Toolworks dealer near you.

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