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ALL with SOUND Sound offects and music are new for the IRS-80. You will find below programs with sound which will entertain both you and your friends. All require tovel II and like, except star warp which only needs 4k.

bee WCITY
by ieo Christopherson from 80-U.S.
Said the spider to the bee . . . Try to
survive as the bee against the spider, By
author of Americal Nims. \$14.95

MOUSIC by Tom Stibult from Acorn Enter scores to have your IRS-80 play music. Works with both disk and tape. The "Sting" theme provided on the tape. \$9.95

MOCSE by Phil Pilgrim from Discovery Bay Ever want to learn Morse code? Here's your chance. Interactive program provides more rapid mastering of material. \$14.95

YCICH FOCE
by John Greenwood from Mad Hatter
Turn-of-the-century board game of skill
and strategy. Sail around three buoys
avoiding islands and peninsulas. \$7.95

lifetwo

The Tryon by Lee Christopherson from 80-8.S.
Two programs. Battle of Life allows several players and has noisy creatures. Other version is Conway's life at 100 generations per minute. \$14.95

STOIT WOITD +
by Nike Partain and Ray Daly from Acorn
Star Harp requires real-time posttioning
of cross-hairs and includes a timer and
Scoring. Tape includes Graphic Lunar
Lander program, Both have sound. \$9.95

mind bodgle by John Greenwood from Mad Hatter New, real-time word game for all age Guess hidden word based on "cows" at "bulls" (clues) and sound. \$7,95

star trek

by John Christman from Acorn Non-Scrolling display and sound make this version interesting for any Captain. Real time and moving Klingons. \$9.95

snoke eggs by teo Christopherson from 80-U.S. Talking snakes and you play a version of '21'. Animated, songs . . . almost a cartoon, \$14.95

boundito by Boug Proasser from Acorn The arm on this graphic slot machine with sound. \$9.95

conciroid nim by Leo Christopherson from 80-U.S. Animated, squeaking androids play well known game of Alim against you. "It is a classic." "The best dead tape for Level II ..." - Purser. \$14.95







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ersonal coopering. Enjoy playing

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from Michael Shrayer
Considered the best word processing
program available for TRS-80. Extremely
easy to use, pencil lets you produce
mailing lists, forms, large numbers of
original correspondence, and camera ready
copy for printing.
The editor of Creative Computing said
that it "will open a whole new dimension
for any writer." 16k Level I or II \$99.
Disk version \$150.

OCHIOF by Dick Bowles from Software Associates Word processing with upper and lower case without any hardware modifications to the TRS-80. Insert or change lines, search for words or phrases, print whole or partial text, save and retrieve on disk, center lines, right Justification. Requires 32k and disk. \$39.95

SIMULATIONS

santa paravia

by Rev. George Blank from Instant As ruler you struggle to create a kingdom based on how well you manage your medieval city-state. Up to six players compete to become King or Queen. 16k Level I or II \$7.95

Oil tycoon by Dwight Meyer from instant Two player compete in the search for the "black gold." Invest in research and take your changes on geologists' reports. Once you strike oil, you try to control the market, 4k Level I or 16k Level II \$7.95

population Trom Instant Software
Two players either cooperate or compete in
trying to make a better world on Techno
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game. 16k Level II \$7.95

pork borrel by Rev. George Blank from Mad Hatter Play a Congressman deciding how to vote on sensitive issues without losing your constituency. 16k Level II \$7.95

stock market

by Andrew Bartorillo from Acorn
Upto four players invest in stocks with
buying on margin allowed under current SEC
regulations. Random volatility, news
flashes, stock splits, and bull and bear
markets. 16k Level II \$9.95

SYSTEM SAVERS

by Tom Stibult from Acorn
If you ever use the SYSTEM commend, you should buy this two program package. These programs allow you to save any system tape on tape or disk, plus offer several restures for machine language

In Computer Casacctes Magazine, Robert Purser said that a tape duplication program "should be in everyone's library." We agree and beleive that System Savers is

Purser said that a tape duplication program should be in everyone's library." We agree and beleive that System Savers is the perfect answer.

With FLEXL, which is one of the two programs, you can make beck-up copies of any system format tape. Most often a cassette that you make will load easier than an orginal. This also protects the valuable copies of your system programs. Plus you can find the filename on any system tape because it is displayed on the screen. If you ever forget to save a program filename, just use FLEXL to recover it. And at anytime you can stop the reading of the tape by simply pressing BREAK.

For any machine language programmer, FLEXL offers the advantage of producing more efficient tapes than the object files from the assembler. It is also written to interface directly with the Small Systems RSM-1 and other monitor programs. And machine language tapes can be merged following the prompting of the program.

Disk drive owners can use TDISK to save any system format tape onto disk. Barson, Adventure, Airaid, Editor/Assembler and other programs cannot normally be loaded to disk. Now, TDISK allows you to save these programs onto disk. Atter DOS READY you will be able to simply type the filename and be up and running. It even loads non-contiguous tapes. TDISK will greatly increase the benefit of owning a disk drive.

And as a FREE BONUS, Acorn Software Products, Inc. also provides complete instructions on how to load Microchess 1:5 onto disk. A short BASIC program will let you play chess directly from disk.

Complete your system with the routines not found in either Level II or DOS for only \$14.95. Order your System Savers, today!

DISASSEMBLER

DISASSLIVIOLER
by Roy Soltoff from Misosys & Acorn
This two pass Z-80 disassembler produces
symbolic lables with output to either the
video monitor, printer or tape. Radio
Shack's Editor/Ausembler can load the
tapes. If you own the Editor/Ausembler,
complete the package with this program.
Program on tape for two different memory
locations. TRS Level II \$19.95

QEDIT/AUTOK
by Phil Pilgrim from Discovery Bay
AUTOK adds auto-repeat to any key on your
TRS-80. QEDIT is a quick, two-dimensional
editor which complements the EDIT
function. Both machine language modules
include a built-in relocation routine to
optimize memory. TRS Level II \$14,95
\$19,95 version includes single-stoke
commands. For example, press SHIFT 'Q' to
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All items listed below operate in conjunction with the CPM operating system.

MAC — 8080 Macro Assembler. Full Intel macro definitions. Pseudo Ops include RPC, IRP, REPT, TITLE, PAGE, and MACLIB, Z-80 library included. Produces Intel absolute has output plus symbols file for use by SID (see below) \$100/\$15

SID — 8080 symbolic debugger. Full trace, pass count and break-point program testing system with back-trace and histo-gram utilities. When used with MAC, provides full symbolic display of memory labels and equated values ...\$85/\$15

TEX — Text formatter to create paginated, page-numbered and justified copy from source text files, directable to disk or \$85/\$15

console \$50/\$1

Disk Extended BASIC — Version 5, ANSI compatible with long variable names, WHILE/WEND, chaining, variable length file records \$300/\$25

file records \$300/\$25

BASIC Compiler — Language compatible with Version 5
Microsoft interpreter and 3-10 times faster execution. Produces standard Microsoft relocatable binary output. Includes
Macro-80. Also linkable to FORTRAN-80 or COBOL-80 code

FORTRAN-80 — ANSI '66 (except for COMPLEX) plus many extensions. Includes relocatable object compiler, linking loader, library with manager. Also includes MACRO-80 (see

COBOL-80 — ANSI 74 Relocatable object output Format same as FORTRAN-80 and MACRO-80 modules. Complete ISAM, interactive ACCEPT DISPLAY, COPY, EXTEND

MACRO-80 — 8080/Z80 Macro Assembler Intel and Zilog mnemonics supported. Relocatable linkable output. Loader, Library Manager and Cross Reference List utilities included

PAYROLL SYSTEM — Maintains employee master file. Computes payroll withholding for FICA, Federal and State taxes. Prints payroll register, checks, quarterly reports and W-2 forms. Can generate ad hoc reports and employee form letters with mail labels. Requires CBASIC. Supplied in source code.

APARTMENT MANAGEMENT SYSTEM — Financial management system for receipts and security deposits of apartment projects. Captures data on vacancies, revenues, etc. for annual trend analysis. Daily report shows late rents, vacancy notices, vacancies, income lost through vacancies, etc. Requires CBASIC Supplied in source code. \$605.835

INVENTORY SYSTEM — Captures stock levels, costs, sources sales, ages, turnover markup, etc. Transaction information may be entered for reporting by salesman, type of sale, date of sale, etc. Reports available both for accounting and decision making. Requires CBASIC. Supplied

CASH REGISTER — Maintains files on daily sales. Files data by sales person and item. Tracks sales, overrings, refunds, payouts and total net deposits. Requires CBASIC.

CBASIC-2 Disk Extended BASIC — Non-interactive BASIC with pseudo-code compiler and runtime interpreter. Supports full file control, chaining, integer and extended precision variables etc. \$90/\s15

Filippy Disk Kit — Template and instructions to modify single sided 514" diskettes for use of second side in singled sided

Selector III - Multi (i.e. up to 24) Key Data Base Processor. Comes with applications programs including Sales Activity. In-ventory. Payables. Receivables. Check Register Expenses. Appointments, and Client Patient. Requires CBASIC Supplied

G2 Level III BASIC by Microsoft

Powerful extensions to Level II BASIC including 10 machine language user calls, long error messages, keyboard debounce, graphics commands and much more. Price include User Manual, a Quick-Reference Card and a pre programmed

Lifeboat Associates, specialists in microcomputer disk software, is proud to offer the first professional disk-based language and utility package for the Radio Shack TRS-80 computer. Written by Microsoft, creators of Level II BASIC, the package runs on a TRS-80 system with 32K RAM, one or more drives and TRSDOS. The software is supplied on diskettes and consists of:

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