INFO 64

THE QUARTERLY REVIEW & PRODUCT GUIDE FOR THE COMMODORE 64 COMPUTER

WINTER 83/84

$2.50 U.S.
$3.00 CANADIAN

* BUYER'S GUIDE TO 1000 PRODUCTS!

* THE C64 PLAYS ATARI GAMES!

* ONE MEGABYTE FOR YOUR 64!

REVIEWS:

KOALA PAD
MICRON EYE CAMERA
FLEXIDRAW
ULTRABASIC-64

FACE TO FACE:

HOME ACCOUNTANT
VS.
COMPLETE PERSONAL ACCOUNTANT

TYPE-&-LEARN:

"CRASH": A 1/2-PAGE GAME WITH SOUND & GRAPHICS

* "GALLERY"

A PICTORIAL CLOSE-UP OF 16 GREAT GAMES!!!

Calc Result™

The Commodore 64™ Spreadsheet that puts you a million miles ahead

CALC RESULT...The one spreadsheet guaranteed to turn your Commodore into a powerful financial tool. Offering you every feature found on other more expensive programs for much less the cost.

Flexible...you can view four different areas at once

Versatile...customize your own print formats

Distinctive...display beautiful color graphics

CALC RESULT *Advanced* is a three-dimensional spreadsheet with built-in HELP function and 32 pages of memory. For the Commodore 64 $149.95. For the CBM™ 8032 $199.00. For first time users CALC RESULT *Easy* gives you a fast way to perform financial calculations—easily. For the Commodore 64 $79.95. For a down to earth demonstration of either version visit your local dealer today.

Developed by:

handic
software ab
-a company in the Datatronic group-

A Product of:

BSS

Distributed by:

DES—DATA EQUIPMENT SUPPLY
213-923-9361

SOFTEAM
800-421-0814

COMPUTER MARKETING SERVICES, INC.
800-222-0585

WAREHOUSE 1, INC.
EASTERN U.S./800-253-5330
WESTERN U.S.-800-255-0056

BLUE SKY SOFTWARE
Ashland Office Center
Evesham & Alpha Avenues
Voorhees, NJ 08043
609/795-4025

Commodore 64 is a trademark of Commodore Business Machines

Circle No. 157

PUBLISHER/EDITOR
BENN DUNNINGTON

ASSISTANT EDITOR
CEL DUNNINGTON

PRINTED BY
GRANGE PRINTING

WHOLESALE ORDERS & ADVERTISERS ONLY:
WRITE:
INFO-64
30023 118TH AVE SE
AUBURN WA 98002
OR PHONE (206) 939-0582

PUBLISHED QUARTERLY

SUBSCRIPTIONS ARE NOT AVAILABLE

LETTERS, ARTICLES FOR CONSIDERATION AND OTHER CORRESPONDANCE SHOULD BE DIRECTED TO:

INFO-64
P.O. BOX 958
AUBURN WA 98071

ALL MATERIALS SUBMITTED BECOME THE SOLE PROPERTY OF INFO-64.

WE WELCOME YOUR COMMENTS AND SUGGESTIONS. WE WILL PUBLISH LETTERS WE FEEL ARE OF GENERAL INTEREST AND IN GOOD TASTE.

DUE TO OUR SMALL STAFF, WE CAN NOT ANSWER READERS' CALLS. ALL LETTERS WILL BE READ, BUT WILL NOT NECESSARILY BE ANSWERED.

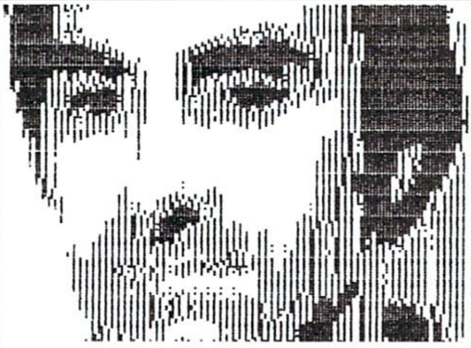
COPYRIGHT 1983 BY CYBERTECH.
ALL RIGHTS RESERVED.

PET, CBM, VIC-20, AND COMMODORE 64 ARE TRADEMARKS OF COMMODORE BUSINESS MACHINES

ABOUT THE COVER

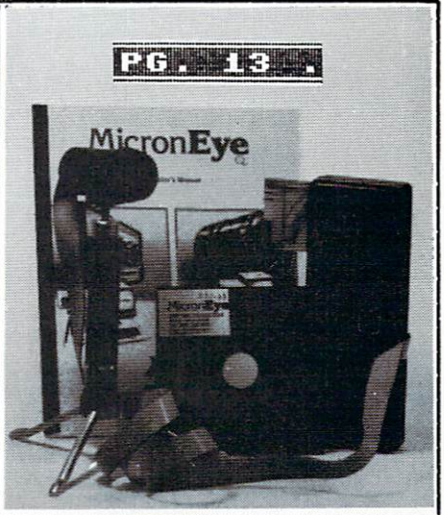
THIS MONTH'S COVER WAS PRODUCED WITH THE KOALA PAD AND KOALA PAINTER SOFTWARE FROM KOALA TECHNOLOGIES (SEE REVIEW THIS ISSUE). IT IS PHOTOGRAPHED DIRECTLY FROM A 1701 MONITOR AND UNRETOUCHED.

OUR BANNER WAS DESIGNED WITH SORCERER'S APPRENTICE (EVENT HORIZON SOFTWARE) AND OUR PREMIERE ISSUE'S COVER WAS ALSO CREATED WITH SORCERER'S APPRENTICE.



THE EDITOR,
AS SEEN BY THE
MICRON EYE CAMERA.

"NOW I KNOW HOW IT
FEELS TO BE DIGITIZED!"



CONTENTS

GALLERY 6 18 GAMES- 12 IN COLOR!!!
PRODUCT NEWS 12 WHAT'S SHAKIN'
DOUBLE-TAKE 14 COLOR 80
REVIEWS 13 MICRON EYE
14 BOOKS by Sharon Z. Aker
15 FLEXIDRAW
16 ULTRABASIC-64 by Sharon Z. Aker
5 KOALA PAD
FACE TO FACE 18 HOME ACCOUNTANT vs. C.P.A.
TYPE & LEARN 22 "CRASH" by Hans Grage
PRODUCT ROUNDUP 24 1000 PRODUCTS FOR THE 64
VENDOR ROUNDUP 59 450 VENDORS
ADVERTISERS 70

OOPS!

WE LEFT OUT THE PHONE # FOR WEBBER SOFTWARE (DISTRIBUTORS OF FLEXFILE 2.1). THE PHONE IS 215 687 5607.

"KMMM PASCAL" (PAGE 33) HAD THE WRONG CODE (& FROM THE CALLS WE GOT, THERE IS QUITE A BIT OF INTEREST IN PASCAL FOR THE 64). THE CORRECT CODE IS CGR NOT MCT- CONTACT: CGRS MICROTECH PO BOX 102 LANGHORNE PA 19047 (215) 757 0284.

"INTERPOD" IS AVAILABLE FROM LIMBIC SYSTEMS (LIM) IN PALO ALTO CA (415) 964 8788.

FABTRONICS' 'UTILITY FILE' DOES NOT, AS REPORTED, REQUIRE DAILY INPUT FROM USER.

TO MY KNOWLEDGE, INFO-64 IS THE ONLY NATIONAL PUBLICATION WHICH IS ENTIRELY PRODUCED WITH THE PRODUCTS ABOUT WHICH IT WRITES. ALL OUR COMPOSITION, ARTWORK, ACCOUNTING, FILING, MAILING, WORDPROCESSING....EVERYTHING- IS PRODUCED WITH PRODUCTS LISTED BETWEEN THESE COVERS, AND WHICH ANYONE MAY PURCHASE FOR A MODEST INVESTMENT. WE SAY THIS TO LET YOU KNOW 2 THINGS: 1) WE ARE STAYING VERY CLOSE TO OUR SUBJECT MATTER. 2) WITH YOUR COMMODORE 64, THE RIGHT ADDITIONAL PRODUCTS, & A LITTLE INGENUITY, YOU CAN TACKLE SOME PRETTY LARGE JOBS- YOUR IMAGINATION IS THE ONLY REAL LIMITING FACTOR.

BENN DUNNINGTON
-EDITOR ☆

WE'LL BACK YOU UP!

"The best back-up and disk utilities to date."

DEALER AND DISTRIBUTOR INQUIRIES INVITED

Order from

MICRO-WARE DIST. INC.
1342B Rt 23 Butler, NJ 07405
201-838-9027

MasterCard

VISA

THE CLONE MACHINE™ *FROM MICRO-WARE DIST. INC.*

Take control of your 1541 disk drive with this indispensible disk users tool. The Clone Machine will allow you to copy programs, files, full or partial disks, and even allow track/block editing. Package includes:

1) Complete and thorough users manual
2) Copy with one or two drives
3) Copy all file types including relative files
4) Investigate and back-up many protected disks.
5) View track/block in HEX or ASCII
6) Easily edit track blocks
7) Display full contents of directory and print
8) Change program names, add, delete files with simple keystroke
9) Easy disk intitialization
10) Supports up to four drives

All this for only $49.95

Special limited introductory offer

$39.95

MR. SAD
Commodore® 64 OWNERS
"my only copy gone."
APPLE II, FRANKLIN & APPLE IIe OWNERS

The NEW REVISED Nibbles Away II™

version C by COMPUTERapplications

1) Full Apple IIe compatibility
2) New auto-loading to simplify parameter access
3) Added printer compatibility
4) Enhanced printing formats
5) CTRL P screen snapshot to printer
6) Enhanced sector editing
7) New disk data search & full disk diagnostics
8) Subscription to NIBBLE NEWS Available for back up hints and new parameter settings.

NIBBLES AWAY II version C is still the best and most supported back up program available. Written about in the New York Times Business Section, Science 83, Digital retailing, and other publications as one of the most popular of its kind. A necessary program for all Apple & Franklin owners. List $69.95

Limited special offer only **$64.95**

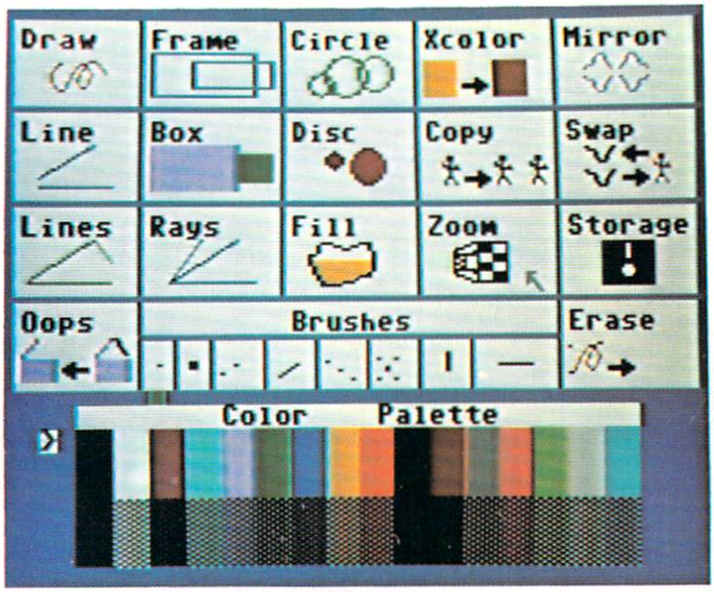


FIG. 1

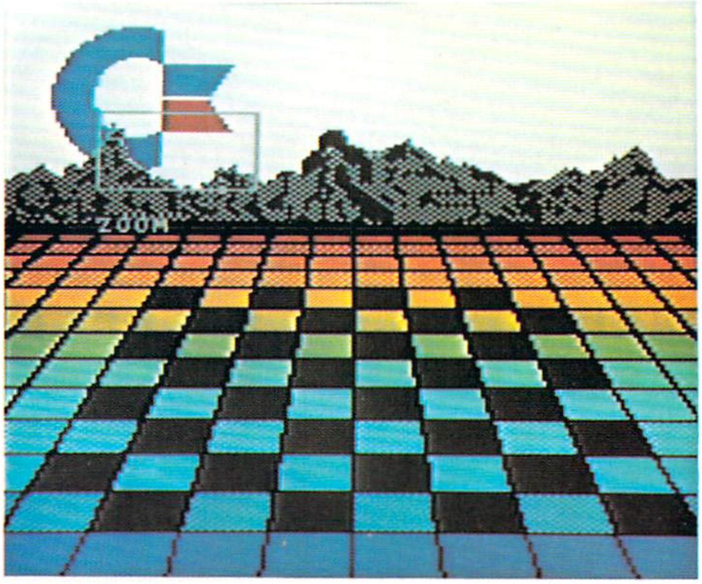


FIG. 2

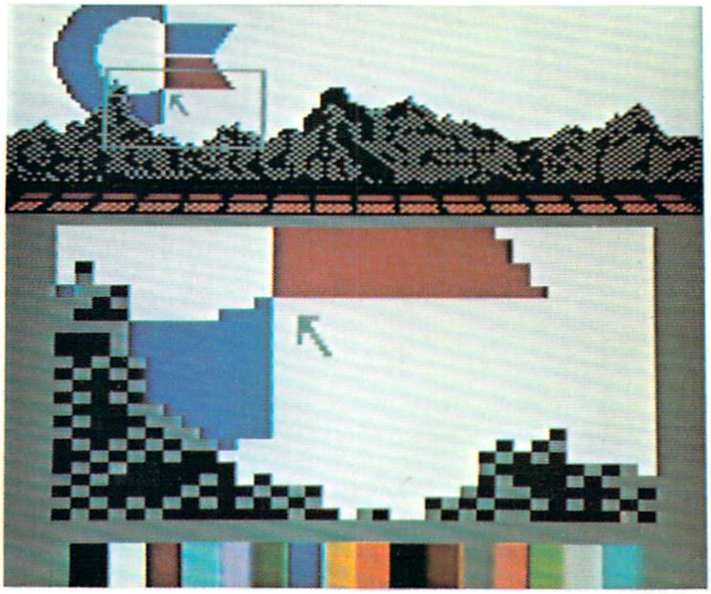
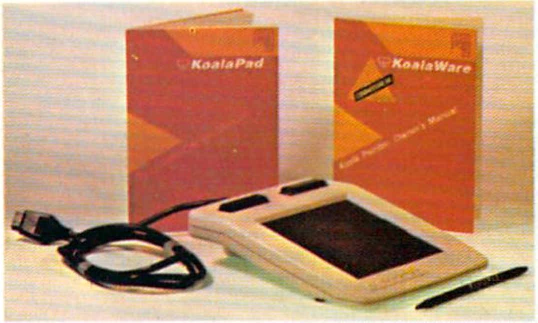


FIG. 3



KOALA PAD REVIEW

EVERYONE IS TALKING ABOUT IT. PEOPLE STAND IN LINE AT THE SHOWS TO TRY IT. "IT" IS A MARVELOUS NEW PERIPHERAL AND SOFTWARE PACKAGE THAT PACKS A TON OF FUN, AND IS USED WITH EQUAL DELIGHT BY YOUNG AND OLD. THE PHYSICAL COMPONENT (PICTURED ABOVE) IS A COMPACT, STYLISH "BOARD" WHICH MAY BE HELD IN HAND OR PLACED ON A FLAT SURFACE. IT IS PRESSURE SENSITIVE, RESPONDING EITHER TO A FINGERTIP OR A SPECIAL PLASTIC STYLUS (INCLUDED). SIMILAR IN APPLICATION TO A JOYSTICK OR TRACKBALL, THE KOALA PAD IS A MORE NATURAL FEELING INTERFACE BETWEEN HUMAN AND MACHINE. IN GRAPHICS APPLICATIONS, THE POINT OF PRESSURE ON THE PAD IS TRANSLATED TO A CORRESPONDING LOCATION ON THE SCREEN, AND WITH THE RIGHT SOFTWARE YOU ARE ABLE TO "DRAW" BY MOVING THE STYLUS ON THE PAD.

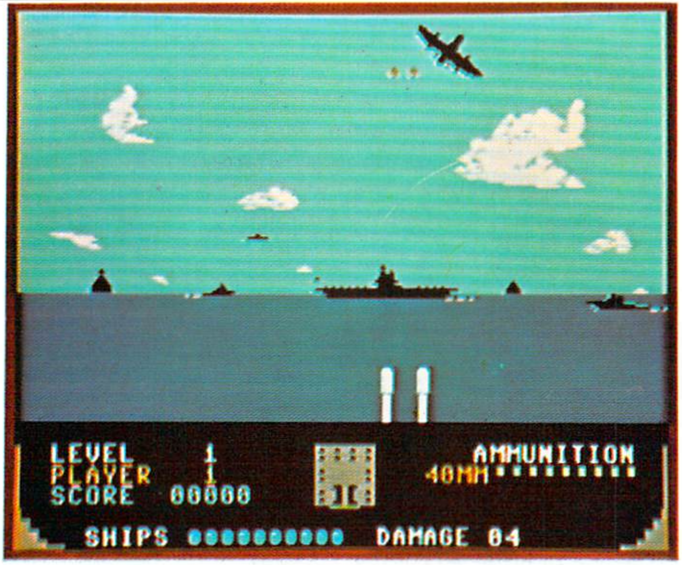
THE SOFTWARE THAT COMES WITH THE KOALA PAD ALLOWS MUCH MORE THAN JUST DRAWING, HOWEVER. LINES, RAYS, RECTANGLES, BOXES, CIRCLES, & DISKS ARE ALL CREATED BY POINTING WITH YOUR STYLUS, AND CLICKING YOUR BUTTONS. SHAPES ARE MADE IN TWO STAGES, THE FIRST STAGE SETS THE SIZE AND SHAPE OF YOUR LINE OR AREA- NOW MOVE YOUR LINE OR SHAPE AROUND- THE SECOND STAGE (PRESS YOUR BUTTON AGAIN) "GLUES" YOUR OBJECT TO THE SCREEN. IF YOU DON'T LIKE WHAT YOU DID, THE "OOPS" OPTION WILL UNDO YOUR LAST MISTAKE. THIS IS A UNIQUE AND WONDERFUL FEATURE NOT FOUND IN ANY OTHER GRAPHICS PACKAGE. IT INSTILLS EVEN YOUNG CHILDREN WITH A SENSE OF TOTAL CONFIDENCE- KNOWING THEY CAN FIX ANY MISTAKE WITH A SINGLE BUTTON.!

FIG. 2 (OUR COVER PHOTO) SHOWS SOME OF THE DETAIL AND TEXTURE THAT CAN BE OBTAINED. THE MORE EXOTIC FEATURES INCLUDE: 4-WAY MIRRORING, FAST FILLING OF CLOSED SHAPES, COLOR EXCHANGE (REPLACE ALL THE YELLOW ON YOUR PAINTING WITH BLUE BY PRESSING A SINGLE BUTTON), COPY, AND ZOOM. FIG. 3 SHOWS THE BOXED PORTION OF FIG. 2 IN THE ZOOM MODE (WHERE YOU MAY PAINT EACH INDIVIDUAL DOT). SPEAKING OF DOTS, YOU HAVE 160 ACROSS BY 200 DOWN. ALSO, YOU HAVE OVER 125 COLORS TO CHOOSE FROM (THE PALETTE AT THE BOTTOM OF FIG. 1 SHOWS 32 OF THEM), & 8 BRUSHES TO PAINT WITH. SCREENS MAY BE SAVED TO AND RECALLED FROM DISK (BUT SO FAR, THERE IS NO WAY TO SEND THEM TO YOUR PRINTER).

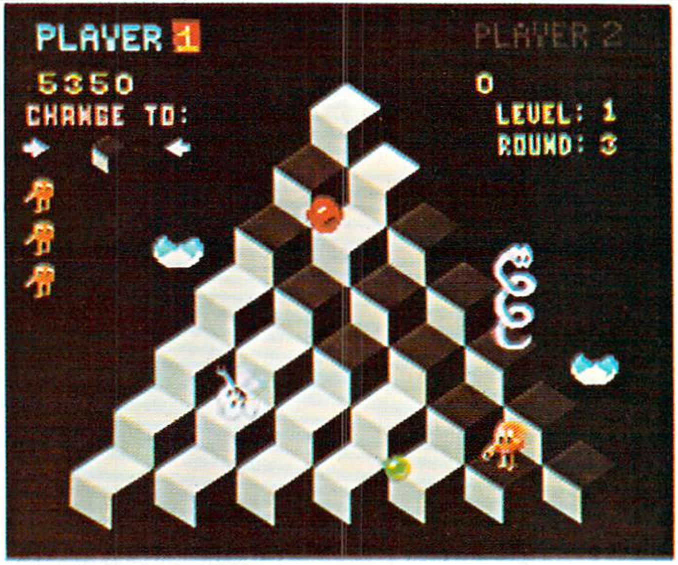
THIS IS AN OUTSTANDING PRODUCT IN EVERY WAY, AND IS EASILY ONE OF THE TOP TEN PRODUCTS FROM 1983.
-EDITOR

CONTACT: UNDER $100.00

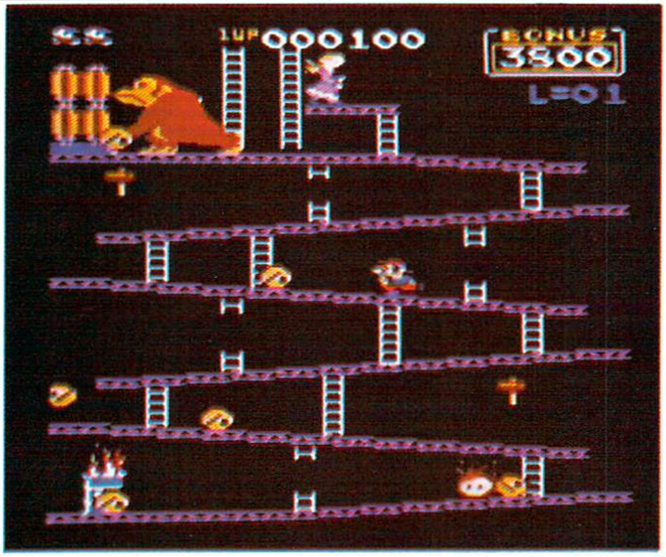
KOALA TECHNOLOGIES CORP.
4962 EL CAMINO REAL
LOS ALTOS, CA 94022
800 227-6703


LEVEL 1
PLAYER 1
SCORE 00000
AMMUNITION
40MM
SHIPS
DAMAGE 04

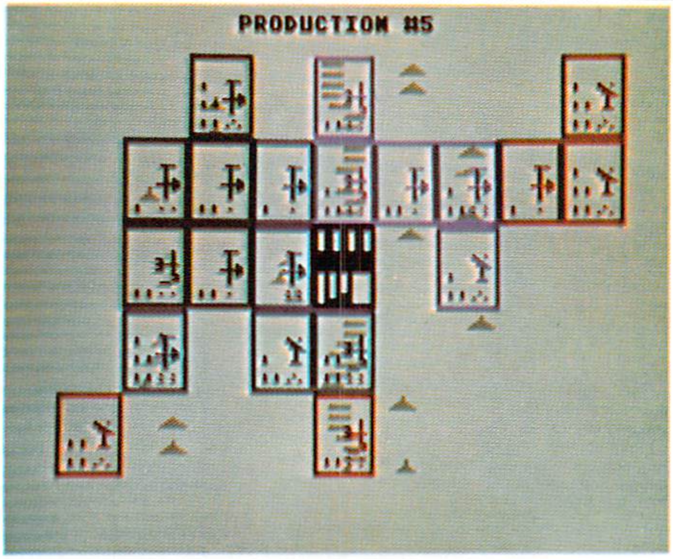
BEACH-HEAD


PLAYER 1
PLAYER 2
5350
0
CHANGE TO:
LEVEL: 1
ROUND: 3

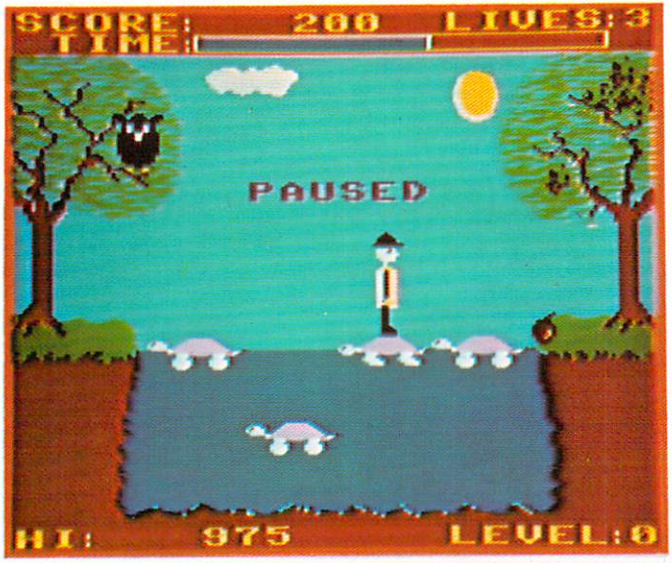
Q*BERT


1UP 000100
BONUS
3800
L=01

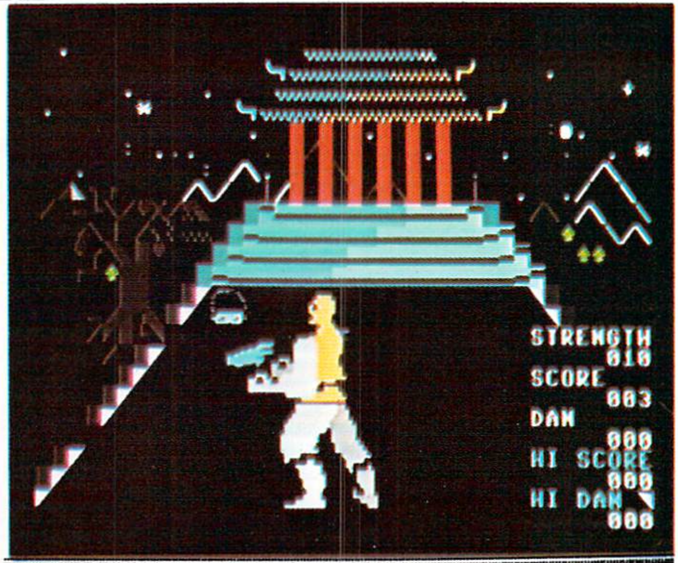
DONKEY KONG


PRODUCTION #5

M.U.L.E.


SCORE: 200 LIVES:3
TIME:
PAUSED
HI: 975 LEVEL:0

PURPLE TURTLES


STRENGTH
010
SCORE
003
DAN
000
HI SCORE
000
HI DAN
000

ATTACK OF THE PHANTOM KARATE DEVILS

BEACH-HEAD

DISK - $34.95 - ****

ACCESS SOFTWARE
925 EAST 900 SOUTH
SALT LAKE CITY, UT 84105
801 532-1134

THIS IS THE BEST ANIMATED WAR-GAME SIMULATION WE HAVE SEEN YET. THE ANTI-AIRCRAFT SEQUENCE (PICTURED) IS THE BEST (OTHER SEQUENCES INCLUDE SHIP-TO-SHIP GUNNERY, BEACH-LANDING AND TANK ASSAULT, TORPEDO EVASION, AND A FINAL ATTACK ON A FORMIDABLE ARTILLERY EMPLACEMENT. ALL SEQUENCES ARE SMOOTHLY ANIMATED AND MAINTAIN A 3-DIMENSIONAL EFFECT (THOSE PLANES START AS LITTLE DOTS AND THEN GAIN SIZE AS WELL AS MENACING DETAIL AS THEY MAKE THEIR RUN ON YOUR SHIP) YOUR JOYSTICK CONTROLS ALL ACTION. THE REALISTIC SOUND EFFECTS NEVER GET MONOTONOUS, AND THEIR PITCH MAY BE ADJUSTED TO YOUR AUDIO EQUIPMENT. WAR MAY BE HELL, BUT BEACH-HEAD IS PURE FUN!

DONKEY KONG

CARTRIDGE - $44.95 - *****

ATARISOFT
PO BOX 2943
SO. SAN FRANCISCO, CA 94080

THIS IS ONE OF A SERIES OF CLASSIC ARCADE GAMES THAT ATARI HAS DECIDED TO MAKE AVAILABLE ON THE COMMODORE 64. WE HAVE TRIED SEVERAL OF THESE, AND THEY ARE ALL VERY GOOD. ATARI CONFIDES THAT THE 64 VERSIONS ARE THE BEST THEY HAVE EVER DONE. DONKEY KONG IS A FAITHFUL REPRODUCTION WITH COMPLEX ANIMATION, ALL THE RIGHT MUSIC AND SOUNDS, AND ALL THE ORIGINAL SCREENS. (THIS HAS TO BE BAD NEWS FOR CHUCK E. CHEESE!) ALSO AVAILABLE NOW ARE: ROBOTRON/ CENTIPEDE/ DIG-DOUG/ DEFENDER/ & PAC-MAN. BEFORE SPRING THERE WILL ALSO BE: STARGATE/ JOUST/ POLE POSITION/ GALAXIAN/ JUNGLEHUNT/ MOON PATROL/ MS. PACKMAN/ AND BATTLEZONE. WE CAN'T WAIT!

PURPLE TURTLES

TAPE (DISK SOON) - $29.95 - ***+

QUICKSILVA INC.
426 WEST NAKOMA
SAN ANTONIO, TX 78216
512 492-8054

THIS IS A HARMLESS GAME WHICH, WHILE LACKING THE STAR QUALITY OF SOME OF THE OTHERS ON THIS PAGE, IS NONETHELESS A PLEASANT AND COLORFUL DIVERSION WHICH WILL ESPECIALLY APPEAL TO YOUNGER CHILDREN AND LESS AGRESSIVE PERSONS. IT IS ACTUALLY MORE DIFFICULT THAN IT LOOKS TO SCORE HIGH IN PURPLE TURTLES. AS YOU TRY TO CROSS THE STREAM TO PICK UP THE CHANGING FRUIT DROPPING FROM THE TREE (AND RETURN TO IMPRESS THE OWL), THE PESKY REPTILES TAKE TURNS DIVING DEEP AND DEPRIVING YOU OF THE NECESSARY FOOTING REQUIRED TO COMPLET YOUR TRAVERSE. WEAR YOUR WADERS. ALSO AVAILABLE: AQUAPLANE/ QUINTIC WARRIORS/ AND RING OF POWER.

Q*BERT

CARTRIDGE - $44.95 - *****

PARKER BROTHERS
50 DUNHAM ROAD
BEVERLY, MA 01915
617 927-7600

THIS IS, IN OUR OPINION, ONE OF THE ALL-TIME ARCADE CLASSICS. NON- VIOLENT, CUNNINGLY SIMPLE, CHARMING CHARACTERS, A COMPELLING (IF NOT ADDICTIVE) USE OF GEOMETRY & PROBABILITY, UNUSUAL SOUND- EFFECTS, A SMATTERING OF FREUDIAN SYMBOLISM, AND AN EXTREMELY SIMPLE CONTROL INTERFACE- A FOUR POSITION JOYSTICK. WE HAVE SEEN MANY OF THE ALREADY RELEASED VERSIONS OF Q*BERT FOR OTHER MACHINES, AND THE 64 VERSION IS ABSOLUTELY THE CLOSEST TO THE ORIGINAL. IF YOU ARE A Q*BERT FAN, YOU CAN SAVE YOUR QUARTERS AND OWN Q*BERT INSTEAD OF JUST RENTING HIM (OR IS IT A HER?).

M.U.L.E.

DISK - $40.00 - ****+

ELECTRONIC ARTS
2755 COMPUS DRIVE
SAN MATEO, CA 94493
415 571-7171

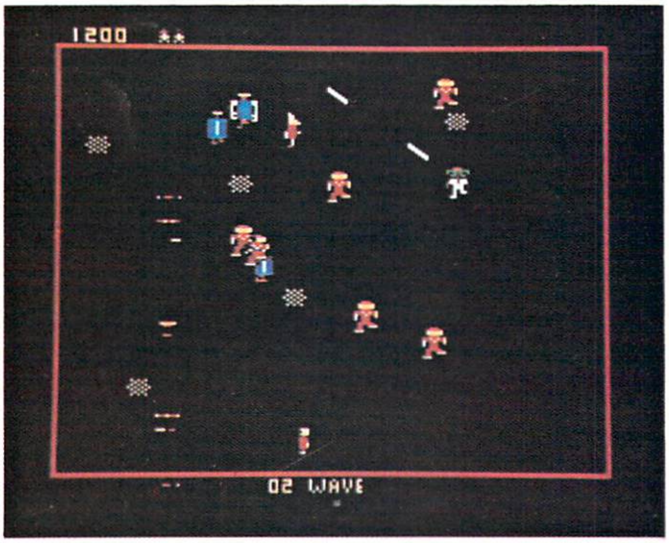
THIS IS A CHARMING GAME WITH SOMETHING FOR EVERYONE. M.U.L.E. GETS OUR VOTE FOR "BEST MUSICAL SCORE IN A COMPUTER GAME" THIS YEAR. CAN BE PLAYED BY FROM 0 TO 4 HUMAN PARTICIPANTS (THE COMPUTER WILL HAPPILY PLAY ALL FOUR PLACES BY ITSELF). THIS IS SORT OF AN OFF-PLANET MONOPOLY GAME WITH PLENTY OF HORSE- TRADING, BACK- STABBING, LUCKY BREAKS & DISASTERS & JUST THE RIGHT AMOUNT OF COMIC RELIEF. USING YOUR CUNNING AND SHREWDNESS, YOU TRY TO BUILD AN ECONOMIC EMPIRE BASED ON FOOD, ENERGY, "SMITHORE", AND (IN THE TOURNAMENT MODE) "CRYSTITE". EVERYTHING ABOUT ELECTRONIC ARTS SHINES- FROM PACKAGING & DOCUMENTATION TO THEIR CORPORATE VISON OF PLAY AS ART.

ATTACK OF THE PHANTOM KARATE DEVILS

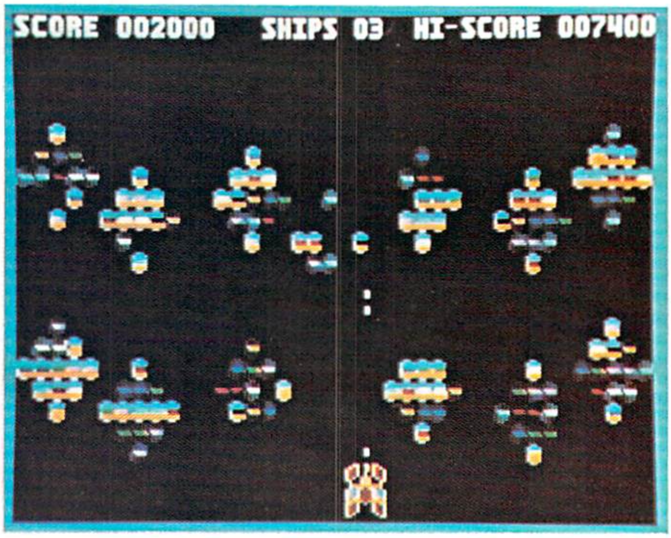
DISK OR TAPE - $34.95 - ***+

PHANTOM SOFTWARE
1116-A 8TH ST., SUITE 155
MANHATTAN BEACH, CA 90266
213 379-8686

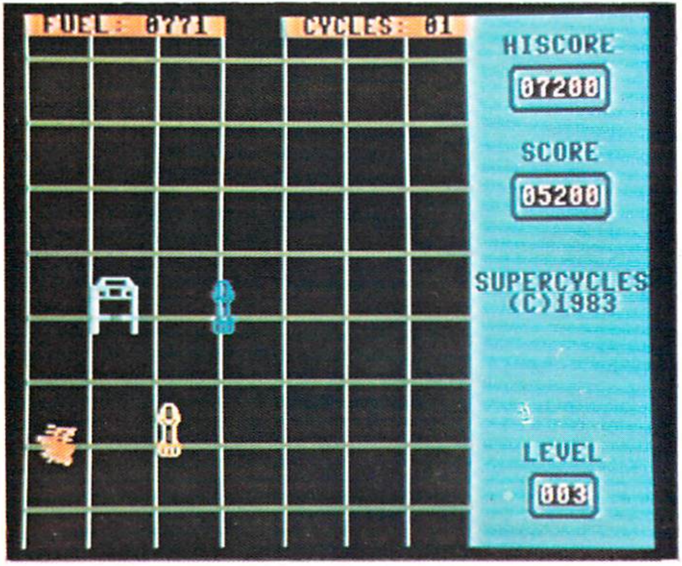
"GRASSHOPPER, YOU ARE READY TO LEAVE THE TEMPLE..." THIS IS THE ONLY MARTIAL-ARTS ANIMATED SIMULATION WE KNOW OF. IT ALSO IS TIED,IN OUR ESTIMATION,WITH "BABIES OF THE DIRT" FOR BEST GAME TITLE OF 1983! BRUCE LEE WOULD LOVE THIS ONE: WITH YOUR JOYSTICK YOU HAVE TOTAL CONTROL OVER THE WELL-ANIMATED KICKS, PUNCHES, LEAPS, & BLOCKS OF YOUR DISCIPLINED EMPTY-HANDED WARRIOR. YOU MUST AVENGE THE NINJAS' BARBARIC DEEDS, DODGE DEADLY THROWING- STARS & KNIVES, AND TAKE ON ENDLESS BLACK-CLAD NINJAS. YOUR STRENGTH VARIES WITH YOUR INJURIES AND FIGHTING PROWESS. SURVIVE EACH CHALLENGE AND GET PROMOTED IN DAN (BELT)!


1200 **
02 WAVE

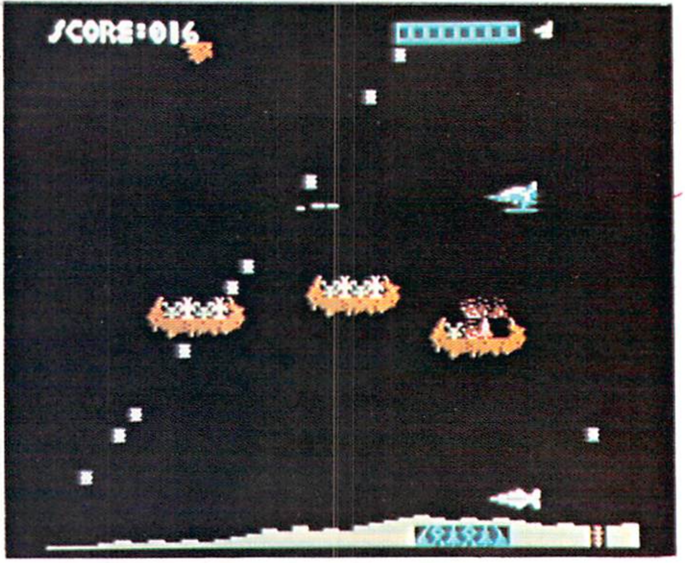
ROBOTRON- 2084


SCORE 002000 SHIPS 03 HI-SCORE 007400

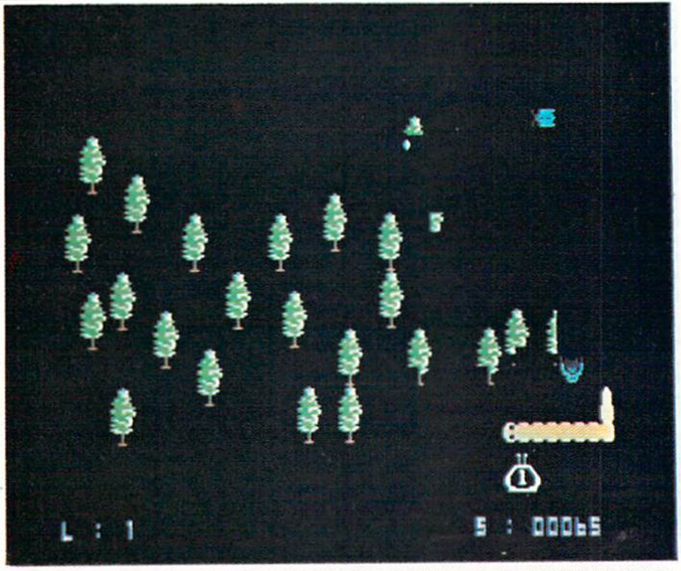
GALACTIC BATTLES


FUEL: 0771
CYCLES: 01
HISCORE
07200
SCORE
05200
SUPERCYCLES
(C)1983
LEVEL
003

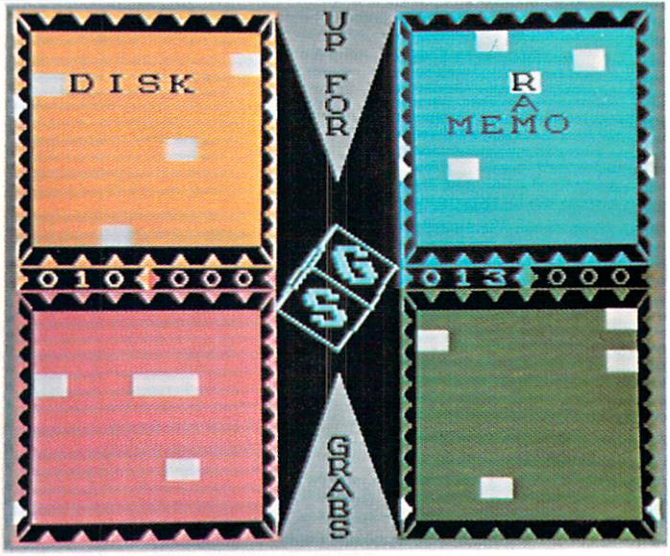
SUPERCYCLES



LASER STRIKE



KILLER PILLER


DISK
UP FOR
R
A
MEMO
010 000
013 000
SG
GRABS

UP FOR GRABS

ROBOTRON: 2084

CARTRIDGE - $44.95 - ****+

ATARISOFT
PO BOX 2943
SO. SAN FRANCISCO, CA 94080

ANOTHER ATARI CONVERSION OF A COMPLEX ARCADE GAME. THE STRANGE-LOOKING HERO MUST SAVE HUMANOIDS AND DESTROY INCREASINGLY DIFFICULT ROBOT- ANTAGONISTS. THIS CONVERSION DOES NOT QUITE (ALMOST, BUT NOT QUITE) HAVE THE SPEED OR RESPONSIVENESS OF THE $4000 ARCADE VERSION, BUT CONSIDERING THE PRICE DIFFERENCE, YOU SHOULD BE QUITE DELIGHTED. FRANKLY, WITH ALL THAT GOES ON AT ONCE IN THIS FRANTIC SURVIVAL ORDEAL, WE ARE AMAZED THAT ATARI WAS ABLE TO DO AS WELL AS THEY HAVE WITH "ROBOTRON".

GALACTIC BATTLES

DISK - $19.95 - ***+

CYBERIA INC.
PO BOX 784
AMES, IA 50010
800 247-3900

MULTIPLE-SCREEN SPACE THEME. SOME VERY UNUSUAL SOUND EFFECTS ARE FEATURED IN THIS GAME. MACHINE LANGUAGE GIVES THIS GAMES SPEED AND SMOOTH-SCROLLING ANIMATION. BASICALLY THE OBJECT IS TO SHOOT YOUR WAY PAST VARIOUS OBSTACLES AND LAST AS LONG AS YOU CAN. DIFFICULTY INCREASES AS YOU ADVANCE THRU SUCCESSIVE SCREENS. JOYSTICK REQUIRED. WE WERE QUITE PLEASED WITH THE UNUSUAL GRAPHICS AND SOUNDS. THIS IS THE KIND OF GAME THAT CAN BE CREATED BY INTERMEDIATE- LEVEL BASIC PROGRAMMERS USING "CRYSTAL"; CYBERIA'S SOON-TO-BE-RELEASED GAME-DEVELOPMENT LANGUAGE FEATURING FORTH-LIKE SPEED AND BASIC-LIKE SIMPLICITY (SEE PROGRAMMING SECTION OF PRODUCT ROUNDUP).

SUPERCYCLES

DISK - $31.95 - ***+

PIONEER SOFTWARE INC.
#217 - 620 VIEW STREET
VICTORIA, BC CANADA V8W 1J6
604 381-3211

IF YOU SAW THE MOVIE "TRON", YOU WILL RECOGNIZE MANY OF THE ELEMENTS IN THIS GAME. YOU HAVE YOUR YELLOW LIGHT-CYCLE, ENEMY BLUE CYCLES, RECOGNIZERS, TANKS, AND (OF COURSE) THE GAME GRID. WITH YOUR TRUSTY JOYSTICK YOU ROAM THE GRID, LEAVING TIMED "LIGHT-BOMBS" FOR THE OTHERS. WHEN YOU ARE LOW ON FUEL YOU MUST MOTOR INTO THE NEXT SCREEN AND TANK UP WITH LIGHT-CYCLE FUEL (NOT AN EASY TASK, IT TURNS OUT) AND THEN GET BACK INTO THE FRACAS. THE GRAPHICS ARE NOT TOO SHABBY, AND THE GAME IS FAST & CHALLENGING, BUT THE SOUND EFFECTS CAN WEAR ON THE NERVES AFTER AWHILE: LACKS THE DEPTH NEEDED TO CAUSE REALLY EXCESSIVE DISK WEAR.

LASER STRIKE

DISK/TAPE - $29.95/24.95 - ***+

ISIS HATHOR DIGITAL PRODUCTIONS
6184 VERDURA AVE.
GOLETA, CA 93117

THE AMAZING THING ABOUT THIS GAME IS THAT IT WAS WRITTEN BY 11TH-GRADER PARRY GRIPP ENTIRELY IN MACHINE LANGUAGE. THE GAME HAS SOME HUMOROUS ELEMENTS, LIKE THE STUBBY SPACE SHIP AND THE CARRIERS FULL OF ALIENS LOOKING LIKE "COSMIC CANOES". BUT SERIOUSLY, FOLKS, YOU HAVE A LOT OF SHOOTIN' AND BOMBIN' TO DO, SO WIPE THE GRIN OFF AND CRANK UP THE THRUSTERS! AFTER YOU GET PAST THE CANOES, YOU GET TO A SECOND SCREEN: THE ICE CAVES. THIS IS A SCROLLING TUNNEL SITUATION, REQUIRING A STEADY HAND ON THE JOYSTICK. THO NOT HEADED FOR THE HALL OF FAME, THIS GAME IS A GOOD FIRST EFFORT, AND WE EXPECT TO SEE PARRY'S NAME CROPPING UP AGAIN.

KILLER PILLER

DISK/TAPE - $12.75/$9.99 - ***+

CASTLE SOFTWARE, INC.
PO BOX 350
NEW CASTLE, DE 19720
302 429 8565

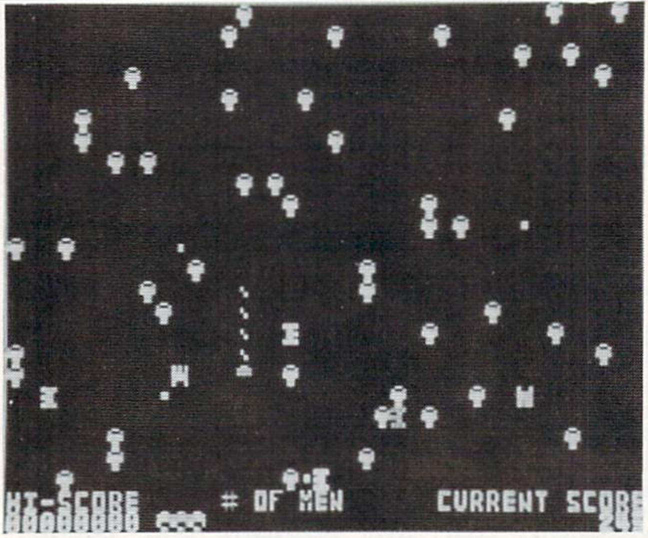
AT FIRST GLANCE, THIS APPEARS TO BE A CENTIPED CLONE. NOT SO, INSECTICIDE-BREATH! MANY SUBTLE DIFFERENCES MAKE THIS REALLY QUITE A DIFFERENT ANIMAL. THERE IS A 'PILLER, BUT IT LAYS EGGS THAT ARE TIME-RELEASED MOTHS (THE RED ONES ARE THE DANGEROUS ONES): AS THE MOTH EGGS HATCH, THEY SPREAD WINGS AND MENACE YOUR BUG-SPRAYER. TO MAKE MATTERS WORSE, TO SPRAY THE 'PILLER, YOU MUST RISK SPRAYING THE TREES IN YOUR FOREST WHICH YOU ARE TRYING TO PROTECT. BUG SPRAY KILLS TREES. OOPS! 'PILLERS EAT TREES. RUN OUT OF TREES AND YOU LOSE...GOOD LUCK. GOOD GAME. LOW PRICE!

UP FOR GRABS

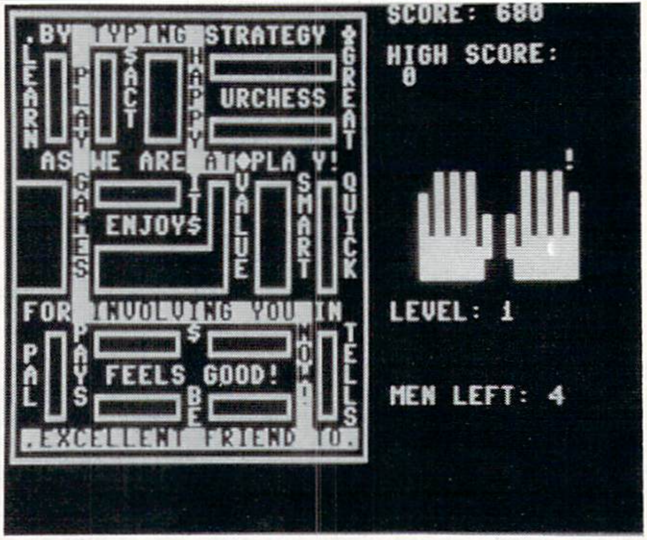
CARTRIDGE - $34.95 - ****

SPINNAKER SOFTWARE
215 FIRST STREET
CAMBRIDGE, MA 02142
617 868-4700

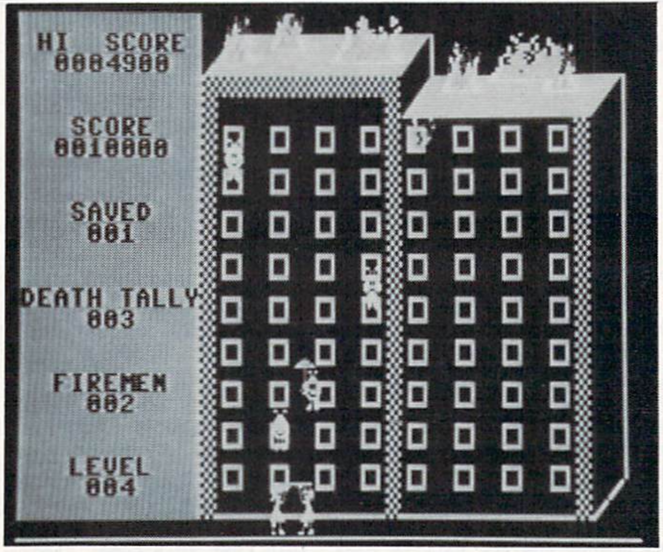
THIS IS A FUN AND EDUCATIONAL SCRABBLE-LIKE GAME THAT REWARDS QUICK REFLEXES, PLANNING,AND SPELLING & VOCABULARY SKILLS. IN THE CENTER OF THE SCREEN IS A SPINNING CUBE (THIS IS A FASCINATING EFFECT TO WATCH) ON WHICH RANDOM LETTERS ARE DISPLAYED. PLAYERS WHO PUSH PADDLE OR JOYSTICK BUTTONS FIRST GET TO PICK A LETTER OFF THE CUBE AND PLACE IT IN THEIR OWN CROSSWORD-LIKE GRID. POINTS ARE SCORED FOR LETTERS USED AND BONUS SQUARES OCCUPIED. PLAYERS MUST JUDGE SPELLING FOR THEMSELVES. GOOD FAMILY GAME FOR UP TO FOUR PLAYERS.


HI-SCORE
00000000
# OF MEN
CURRENT SCORE

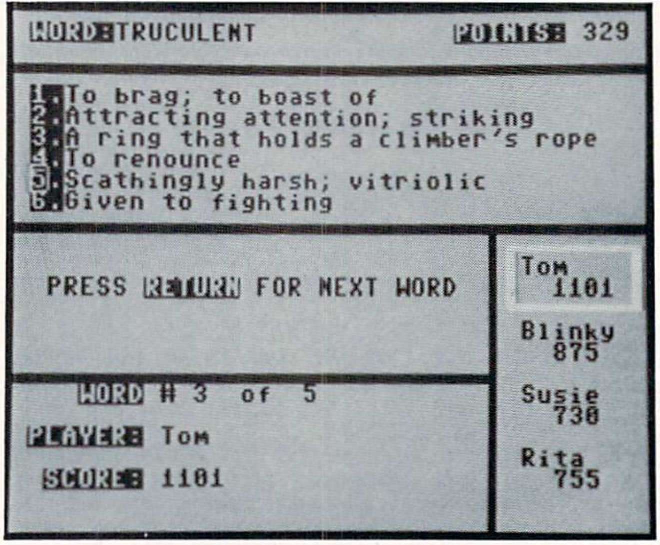
METAMORPHOSIS


SCORE: 680
HIGH SCORE:
0
BY TYPING STRATEGY
LEARN
PLAY GAMES
FACT
HAPPY IT
URCHESS
GREAT
AS WE ARE AT PLAY!
ENJOY$
VALUE
SMART
QUICK
FOR INVOLVING YOU IN
PAL
PAYS
FEELS GOOD!
BE
NOW!
TELLS
EXCELLENT FRIEND TO.
LEVEL: 1
MEN LEFT: 4

LETTER-MAN


HI SCORE
0004900
SCORE
0010000
SAVED
001
DEATH TALLY
003
FIREMEN
002
LEVEL
004

TOWERING INFERNO


WORD: TRUCULENT POINTS: 329

1. To brag; to boast of
2. Attracting attention; striking
3. A ring that holds a climber's rope
4. To renounce
5. Scathingly harsh; vitriolic
6. Given to fighting

PRESS RETURN FOR NEXT WORD

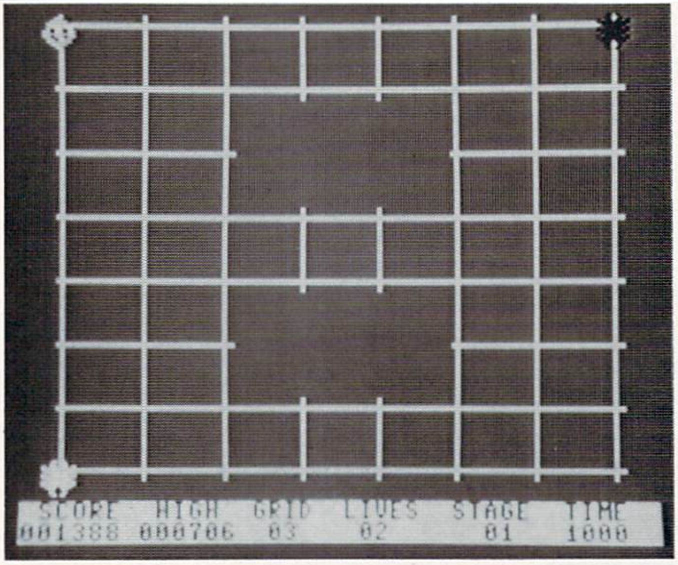
WORD # 3 of 5

PLAYER: Tom

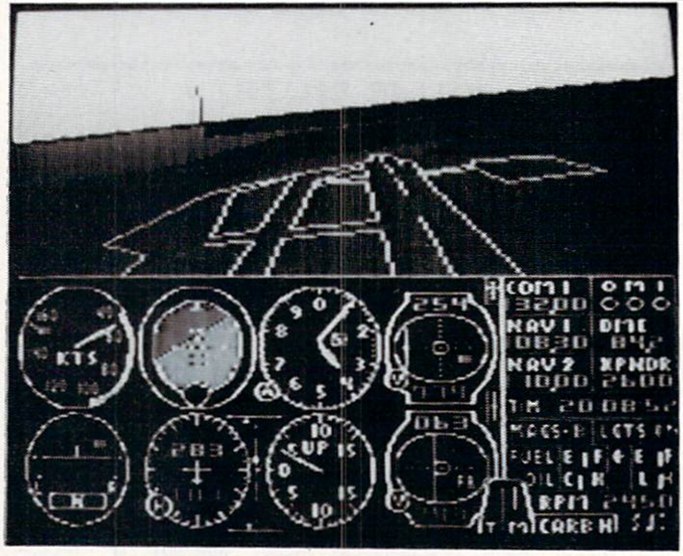
SCORE: 1101

Tom 1101
Blinky 875
Susie 730
Rita 755

WORDRACE


SCORE
001388
HIGH
000706
GRID
03
LIVES
02
STAGE
01
TIME
1000

GRIDDER


KTS
254
063
COM1
3200
NAV1
0830
NAV2
1000
OMI
DME
XPNDR
2600
MAGS
LGTS
FUEL
OIL
RPM
2450
CARB H

FLIGHT SIMULATOR II

METAMORPHOSIS

DISK/TAPE - $19.95 - ***+

VICTORY SOFTWARE INC.
7 VALLEY BROOK ROAD
PAOLI, PA 19301
215 296-3787

A MULTI-SCREEN ORIGINAL ARCADE GAME SOMEWHAT ALONG THE LINES OF ROBOTRON, (ONE SCREEN IS LIKE THE GRID-SPIDER SCREEN IN THE TRON GAME). YOU ARE IN THE NEST OF THE CYGLORX AND HAVE YOUR HANDS FULL FIGHTING ROBOT TANKS WHO ARE GUARDING CYGLORX EGGS (NOT THE KIND YOU EAT). YOU WILL NEED TO BE AN ACCOMPLISHED CYGLORXIAN-FIGHTER TO GET THRU THE ADVANCED SCREENS. GOOD ANIMATION AND DECENT SOUND EFFECTS. THIS IS ONE OF THE BEST GAMES VICTORY HAS COME OUT WITH SO FAR. WHEN YOU'RE READY, THEY HAVE TWO MORE SEQUELS: CREATOR'S REVENGE, AND LABYRINTH OF THE CREATOR. JOYSTICK REQUIRED.

TOWERING INFERNO

DISK - $34.95 - ***+

PIONEER SOFTWARE INC.
#217 - 629 VIEW STREET
VICTORIA, BC CANADA V8W 1J6
604 381-3211

HERE'S A DIFFERENT KIND OF GAME: YOU CONTROL A PAIR OF FIREPERSONS WITH YOUR JOYSTICK- TRYING TO CATCH CUTE LITTLE BLOBBY CRITTERS LEAPING FROM A BURNING BUILDING. WHEN YOU MISS, THEY SQUISH ON THE PAVEMENT AND YOU LOSE POINTS. OCASSIONALLY, REALLY BIG BLOBBY CRITTERS JUMP- THESE ARE NOT HEALTHY TO CATCH. ALSO, THERE ARE TELEVISION SETS BEING THROWN DOWN FROM TIME TO TIME WHICH MAY BE CAUGHT - SOMETIMES - FOR EXTRA POINTS. OUR OFFICIAL STAFF-GRADESCHOOLERS LIKE THIS QUITE A BIT (THO IT'S NOT CLEAR WHETHER THEY LIKE TO CATCH OR MISS MORE.) GOOD M.L. ANIMATION.

GRIDDER

DISK/TAPE - $24.95/19.95 - ***

MICRODIGITAL
PO BOX 1110
WEBSTER, NY 14580
800 833-7384

GRIDDER IS AN OK CHASE GAME WHICH HAS YOU (A FACE) SLIDING ALONG ONE OF 256 POSSIBLE GRID PATTERNS TRYING TO COVER THE ENTIRE GRID BEFORE THE GRID-CHASERS GETCHA. 100% MACHINE LANGUAGE PROVIDES SMOOTH AND FAST ACTION. OUR OFFICIAL STAFF GRADESCHOOLERS GOT THRU THE FIRST 4 LEVELS BEFORE THEY GOT BORED- MAYBE THEY'RE JUST GETTING JADED FROM ALL THE GAMES THEY'RE FORCED TO PLAY. TWO OTHER GAMES FROM MICRODIGITAL (SNAKMAN, AND SKRAMBLE) ARE BETTER, (BUT HARDER TO PHOTOGRAPH).

LETTER-MAN

DISK - $34.95 - ***+

BEHAVIORAL ENGINEERING
230 MT. HERMON ROAD / SUITE 207
SCOTTS VALLEY, CA 95066

THIS IS A GAME, BUT IT IS A GAME INTENDED TO SUBTLY DEVELOP MAXIMUM TYPING AND KEYBOARD SKILLS. A TECHNIQUE CALLED "NEURO-LINGUISTIC PROGRAMMING" (NLP) DEVELOPED BY ROBERT DILTS (WHO HEADS BEHAVIORAL ENGINEERING) IS EMPLOYED TO CAUSE THE MAXIMUM BENEFIT TO USERS. NLP HAS TO DO WITH IMPLEMENTING IN EXERCISES WHAT HAVE BEEN IDENTIFIED AS THE EFFECTIVE STRATEGIES USED BY PERSONS WHO HAVE ALREADY ACHIEVED EXCELLENCE IN A CLOSELY RELATED ACTIVITY. ON THE SURFACE, LETTER-MAN IS AN INTERESTING TYPE--TO--GET--THRU--THE-MAZE GAME (OFTEN REQUIRING TYPING WORDS BACKWARDS): BEYOND THAT, IT IS AN INTRIGUING EXPERIMENT IN ALTERNATIVE LEARNING TECHNIQUES.

WORDRACE

DISK/TAPE - $34.95/19.95 - ****

DON'T ASK SOFTWARE
2265 WESTWOOD BLVD., SUITE B-150
LOS ANGELES, CA 90064
213 477-4514

WORDRACE IS A WORD-GAME PLAYER'S WORD-GAME. DRAWING ON A 2500-WORD VOCABULARY PLUS A BANK OF 1200 FAMOUS PEOPLE, WORDRACE CAN KEEP ANY AGE GROUP CHALLENGED WITH A SEEMINGLY ENDLESS VARIETY OF QUESTIONS. WORDRACE IS A 1 TO 4 PLAYER MULTIPLE-CHOICE GAME REQUIRING PLAYERS TO MATCH DEFINITIONS TO WORDS- TIME, AS WELL AS WRONG ANSWERS WILL AFFECT YOUR SCORE. 4 LEVELS CHALLENGE PLAYERS FROM AGE 9 TO PROFESSOR. IN THE HARDEST LEVEL, YOU WILL SEE WORDS THAT YOU HAVE NEVER HEARD BEFORE! SPORTS AND FAMOUS PERSONS VERSIONS ARE ALSO INCLUDED.

FLIGHT SIMULATOR II

DISK - $49.95 - NO RATING

SUBLOGIC CORP.
713 EDGEBROOK DRIVE
CHAMPAIGN, IL 61820
800 637-4983

IT IS OUR POLICY TO NOT RATE PRODUCTS WE HAVE NOT ACTUALLY TRIED, NO MATTER HOW GOOD THEY SOUND. WE HAVE, HOWEVER, SEEN THIS SIMULATOR ON OTHER MACHINES, AND FROM THE PHOTO OF THE 64 SCREEN, IT SHOULD PROVE NO DISAPPOINTMENT. PRACTICE TAKEOFFS, LANDINGS, AEROBATICS. FEATURES OVER 80 AIRPORTS IN FOUR SCENERY AREAS; NEW YORK, CHICAGO, SEATTLE, AND L.A. ADDITIONAL SCENERY AREAS AVAILABLE. HI-SPEED COLOR 3-D GRAPHICS SHOW DAY, DUSK, AND NIGHT FLYING IN YOUR CHOICE OF WEATHER CONDITIONS. ALSO INCLUDES WORLD WAR I AERIAL BATTLE GAME. THIS IS THE CHEAPEST PIPER 181 CHEROKEE ARCHER YOU CAN BUY WITH ALL THE INSTRUMENTS WORKING!

PRODUCT NEWS

ELECTRONIC ARTS

ELECTRONIC ARTS IS ONE THE BRIGHTEST NEW STARS TO JOIN THE RANKS OF SOFTWARE HOUSES CREATING RECREATIONAL SOFTWARE FOR THE 64. SEVERAL OF THEIR GAMES ARE PURE GOLD, AND IF YOU CAN ONLY AFFORD ONE NEW GAME THIS CHRISTMAS, CHECK OUT "PINBALL CONSTRUCTION SET" BEFORE YOU PART WITH YOUR CASH (SEE "OTHER GAMES" IN ROUNDUP, AND "GALLERY", PAGE 6). IF YOU LIKE "PINBALL", THEN YOU WILL BE GLAD TO KNOW THAT "MUSIC CONSTRUCTION SET", USING THE SAME ICON AND POINTER APPROACH, HAS JUST BEEN RELEASED FOR THE 64.

APPLE EMULATOR

YES, VIRGINIA, THERE IS AN APPLE EMULATOR. AT LAST (AFTER SEVERAL FALSE ALARMS FROM COMPANIES WITH MORE BRAG THAN HARD GOODS) A PACKAGE IS BEING RELEASED (BY THE TIME YOU READ THIS) FROM PIONEER SOFTWARE (CANADIAN) THAT PROMISES NOT ONLY TO RUN 100% OF THE AVAILABLE APPLE II SOFTWARE (ON A 64 WITH A 1541 DISK DRIVE), BUT TO ACCEPT APPLE PERIPHERALS IN A SLOTTED EXPANSION MODULE. THIS AT MUCH LESS THAN THE COST OF AN APPLE II (THE COMPLETE SYSTEM WILL BE ABOUT $600 U.S.) SO IF YOU WANT TO BUY A RANA DRIVE FOR YOUR 64 - NO PROBLEM! (SEE "OTHER INTERFACES, PAGE 54).

3-D GRAPHICS PACKAGE

ALSO FROM PIONEER SOFTWARE IS A FASCINATING GRAPHICS PACKAGE. WITH THIS SYSTEM, YOU CAN DRAW A 3-D ROOM, THEN MOVE YOUR VIEWPOINT TO ANYPLACE IN 3-D SPACE, EVEN GO INSIDE THE ROOM & LOOK OUT! THE SYSTEM ALSO PROVIDES FACILITIES FOR ANIMATING 3-D SEQUENCES WITH UP TO 1/2 HR. OF CONTINUOUS ANIMATION POSSIBLE ON ONE DISKETTE! THE 3-D IMAGES AND ROUTINES ARE CALLABLE FROM OTHER SOFTWARE, AND WILL INTERFACE WITH THE KOALA PAD AND MANY LIGHT PENS FOR CONVENIENT COMPOSITION AND EDITING. (SEE "GRAPHICS", PAGE 41)

ONE MEGABYTE FOR THE 64

NO, WE HAVEN'T BEEN BOMBARDED WITH CRT RAYS TOO LONG- YOU WILL SOON BE ABLE TO USE ONE WHOLE MEG WITH THE 64 THANKS TO THE DEVELOPMENT OF A PROPRIETARY MEMORY-ACCESSING AND MANAGEMENT TECHNOLOGY DEVELOPED BY MOSAIC ELECTRONICS. MAKING ITS FIRST PUBLIC APPEARANCE AS "ACCESS-M" FOR THE COMMODORE 64, THE BASIC EXPANSION UNIT COMES WITH 64K RAM FOR $250.00, AND MAY BE EXPANDED BY THE USER, OR THE FACTORY, IN 64K INCREMENTS TO THE FULL 1 MEG. THE UNIT CAN BE USED EITHER AS A DISK EMULATOR (RAMDISK), OR AS SYSTEM RAM WITH POWERFUL NEW APPLICATIONS SOFTWARE BEING DEVELOPED TO TAKE ADVANTAGE OF THIS EXCITING BREAKTHRU. (SEE PAGE 55. "MASS STORAGE")

BAR CODE READER

THE "OSCAR MODEL I" BAR CODE READER, RECENTLY INTRODUCED BY DATABAR CORP., IS NOW BEING PRODUCED IN A 64-COMPATIBLE VERSION FOR $79.95. THIS UNIQUE PERIPHERAL READS A SPECIAL TYPE OF BAR CODE (NOT THE STANDARD UPC TYPE) AND SIMPLIFIES ENTERING DATA AND PROGRAMS IN A PRINTED FORM. DATABAR IS PUBLISHING SOFTWARE IN THE FORM OF A MONTHLY MAGAZINE WITH OSCAR-READABLE PROGRAM LISTINGS (AT LEAST 8 PER ISSUE), FOR A $10 PER MONTH SUBSCRIPTION. OSCAR I COMES WITH 8 PROGRAMS IN BAR-CODE FORMAT, AND A GUIDE TEMPLATE TO AID PROPER SCANNING. (CONTACT: DATABAR CORP. / 10202 CROSSTOWN CIRCLE/
EDEN PRARIE, MN 55344/ (612) 944-5700.)

MIND-CONTROL

OF THE MANY NEW PRODUCTS APPEARING THIS WINTER, THE "MIND-CONTROL" INTERFACE FROM BEHAVIORAL ENGINEERING IS ONE OF THE MOST INTRIGUING. USING A SIMPLE SENSOR WHICH REPLACES THE JOYSTICK AND MONITORS THE USER'S GALVANIC SKIN RESISTANCE, THE USER IS ABLE (AFTER SOME TRAINING) TO DIRECT CURSORS OR OTHER OBJECTS ON THE SCREEN MERELY BY "THINKING". THE GSR SENSOR CAN DISTINGUISH AMONG THE SUBTLY DIFFERENT ELECTRICAL OUTPUTS IN THE SKIN ASSOCIATED WITH THE USERS THOUGHTS OF, FOR INSTANCE, UP, DOWN, LEFT, RIGHT, ETC. THE SENSOR AND SOFTWARE (WHICH INCLUDES A TRAINING GAME) WILL COST ABOUT $40.00 WITH ADDITIONAL MIND-CONTROLLED SOFTWARE SCHEDULED FOR RELEASE IN 1984. (HMMM, "MIND-CONTROLLED SOFTWARE IN 1984..." - GEORGE ORWELL, LOOK OUT.) CONTACT: BEHAVIORAL ENGINEERING/ 230 MT. HERMAN ROAD - SUITE 207/ SCOTTS VALLEY, CA 95066/ (408) 438-5649.

FLYING THE 64

WHEN IT RAINS IT POURS! LAST ISSUE WE HAD NOT ONE ANIMATED FLIGHT SIMULATOR TO REPORT FOR THE 64: THIS TIME THERE ARE SEVERAL (SEE RECREATION - STRATEGY AND SIMULATION PAGE 46). SUBLOGIC HAS RELEASED ITS FLIGHT SIMULATOR II FOR THE COMMODORE 64 WHICH LOOKS AND SOUNDS ALOT LIKE THE FAMOUS MICROSOFT SIMULATOR FOR THE IBM PC. YOU CAN NOW GO FLYING ALL OVER THE COUNTRY IN YOUR PRIVATE AIRCRAFT (OR WORLD WAR I FIGHTER) WITHOUT LEAVING YOUR COMPUTER DESK. FLYERS HAVE CONTROL OVER WEATHER CONDITIONS, AND CAN LAND AT SIMULATED AIRPORTS IN THE NATIONS GREAT CITIES. FULL REAL-TIME INSTRUMENTATION AND ANIMATED COCKPIT VIEW MAKE THIS A REALISTIC FLYING EXPERIENCE. (SEE "GALLERY", PAGE 10).

ATARI GAMES FOR THE 64

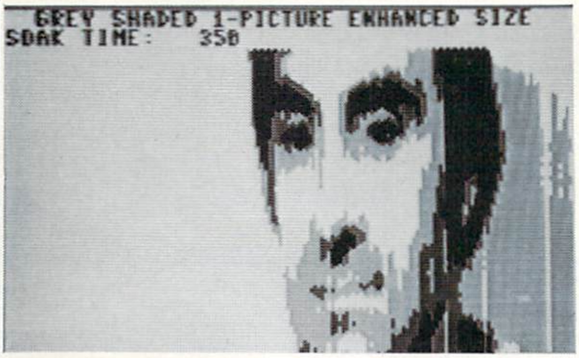
WELL, IF YOU BOUGHT A 64 BECAUSE IT IS THE BEST COMPUTER AROUND FOR THE MONEY, BUT ALWAYS WISHED YOU COULD PLAY THE "REAL" PAC-MAN, DONKEY KONG, AND DEFENDER- YOU ARE ABOUT TO HAVE YOUR CAKE AND BE ABLE TO EAT IT TO! ATARI HAS DECIDED TO JOIN 'EM AND IS MARKETING DOZENS OF CLASSIC ARCADE GAMES THIS YEAR FOR 8 DIFFERENT SYSTEMS. THE BEST VERSIONS (NOT SURPRISINGLY) ARE FOR THE 64. CARTRIDGES ARE NOW AVAILABLE FOR: PAC-MAN, DONKEY KONG, ROBOTRON:2084, DIG DOUG, CENTIPEDE, & DEFENDER. BY SPRING (IF YOU HAVE TIRED OF THESE, OR WORN THE GOLD PLATING OFF THE EDGE CONNECTORS) YOU WILL ALSO BE ABLE TO GET: JOUST, JUNGLE HUNT, MOON PATROL, POLE POSITION, GALAXIAN, STAR GATE, MS. PAC-MAN, AND BATTLE ZONE! (SEE 'GALLERY' FOR PHOTOS OF DONKEY KONG, AND ROBOTRON.)

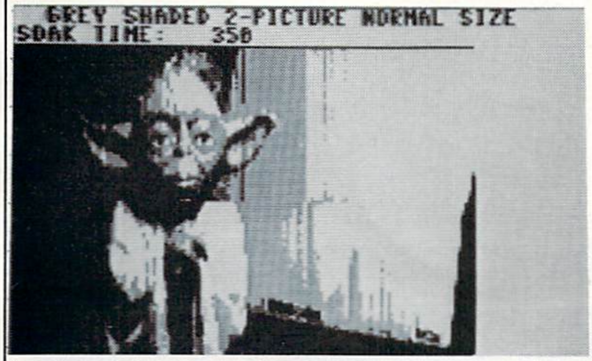
THE ICONS ARE COMING

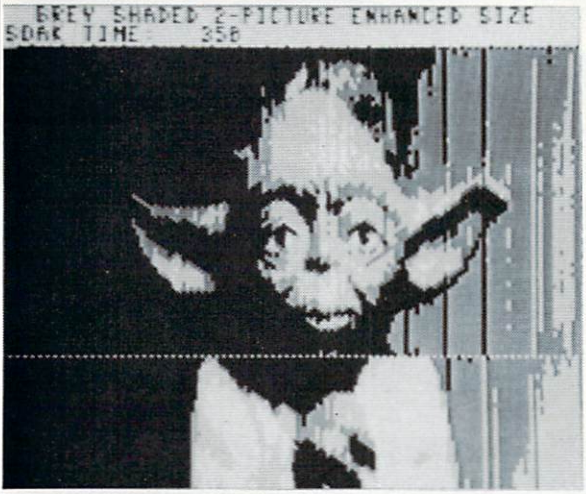
FIRST WE HEARD ABOUT COMMODORE'S "MAGIC DESK", NOW SEVERAL SOFTWARE HOUSES ARE PREPARING ICON-BASED SOFTWARE PACKAGES FOR RELEASE EARLY IN 1984. ONE SUCH PRODUCT IS SIMPLY CALLED "JANE" (SEE PAGE 25, "INTEGRATED HOME/BUSINESS"). JANE IS A USER INTERFACE THAT WILL INITIALLY OFFER WORDPROCESSING, SPREADSHEET, AND FILING FUNCTIONS UNDER THE CONTROL OF A "MOUSE" POINTING DEVICE AND SETS OF SYMBOLS ("ICONS"). ANOTHER COMPANY READYING AN ICON PRODUCT IS SIERRA ON-LINE: "HOMEWORD" IS THE NAME OF THEIR NEW WORDPROCESSOR WHICH FEATURES A GRAPHIC MENU, AND A "TRUE PAGE VIEW" WINDOW THAT SHOWS DOCUMENT LAYOUT GRAPHICALLY, OVERCOMING ONE OF THE LIMITATIONS OF 40-COLUMN WORDPROCESSING (THE INABILITY TO SEE HOW THE PAGE ACTUALLY LOOKS BEFORE PRINTING).
(SEE "WORDPROCESSING, NEW ADDITIONS" ON PAGE 29).

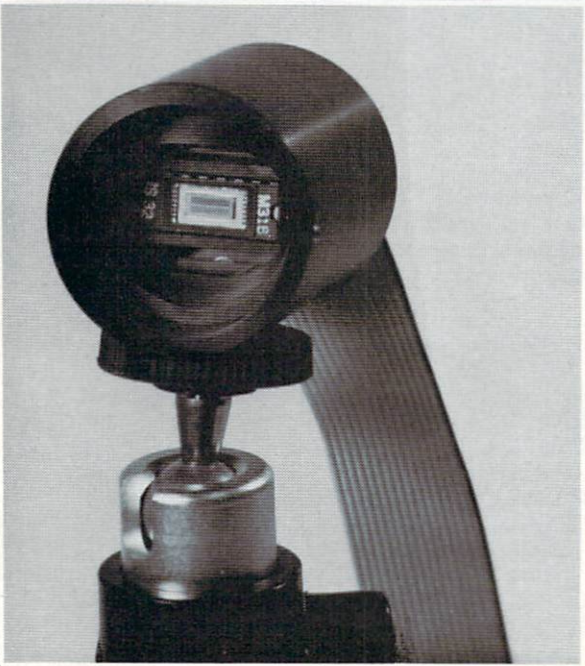
☆

MICRON EYE REVIEW


GREY SHADED 1-PICTURE ENHANCED SIZE
SOAK TIME: 350


GREY SHADED 2-PICTURE NORMAL SIZE
SOAK TIME: 350


GREY SHADED 2-PICTURE ENHANCED SIZE
SOAK TIME: 350



THE MICRON EYE DIGITAL CAMERA IS A UNIQUE PERIPHERAL WHICH ALLOWS YOUR C64 TO "SEE". THE LATEST VERSION OF THE MICRON EYE HAS SEVERAL IMPROVEMENTS IN THE SOFTWARE AREA WHICH ARE A GREAT IMPROVEMENT OVER EARLIER RELEASES. SO FAR, THIS IS THE ONLY CAMERA WE KNOW OF THAT IS READY TO USE WITH THE 64 AND AVAILABLE TODAY.

THE UNIT SHOWN HERE IS THE "BULLET" MODEL, WHICH IS THE LEAST EXPENSIVE, AND IS ALSO THE MOST COMPACT; ANOTHER MODEL IS AVAILABLE WHICH CAN OPERATE AT MUCH GREATER DISTANCES FROM THE COMPUTER THAN THE BULLET. THE BULLET PACKAGE CONSISTS OF THE "OPTIC RAM" SOLID STATE IMAGING DEVICE (ACTUALLY AN EXPOSED LIGHT-SENSITIVE MEMORY CHIP), A C-MOUNT LENS WITH SHUTTER AND FOCUS, A UNIVERSAL TRIPOD, A CARTRIDGE-TYPE INTERFACE, SYSTEM DISK, & MANUAL. PLUG IT IN, TURN IT ON, AND YOU HAVE PICTURES ON YOUR SCREEN (PROVIDED YOU REMOVE THE LENS-CAP!)

ONCE YOU ARE RUNNING, THERE ARE SEVERAL MODES TO CHOOSE FROM INCLUDING GREY SHADED OR BLACK, NORMAL OR ENHANCED SIZES, AND SINGLE OR DOUBLE PICTURE MODE. THE PHOTOS TO THE LEFT SHOW SEVERAL OF THESE MODES, WHICH CAN BE IDENTIFIED BY THE STATUS LINE AT THE TOP OF SCREEN. WE SHOT THE PICTURES OF OUR STAFF ALIEN & THE EDITOR (HOPE YOU CAN TELL WHICH IS WHICH!) ON A 1701 COLOR MONITOR. WITH THE RIGHT LIGHTING, VERY GOOD RESULTS CAN BE ACHEIVED. WHILE OPERATING, YOU CAN SAVE IMAGES TO OR LOAD FROM DISK. YOU CAN ALSO DUMP THE IMAGES TO A GRAPHICS PRINTER.

THE SYSTEM DOESN'T COME WITH ANY REALLY PRACTICAL APPLICATIONS SOFTWARE, BUT THE DOCUMENTATION AND SUPPORT IS GOOD, AND EXPERIMENTERS, HOBBYISTS, AND PROGRAMMERS SHOULD BE ABLE TO DEVELOP SOME INTERESTING SOFTWARE TO MAKE USE OF THIS TECHNOLOGY.

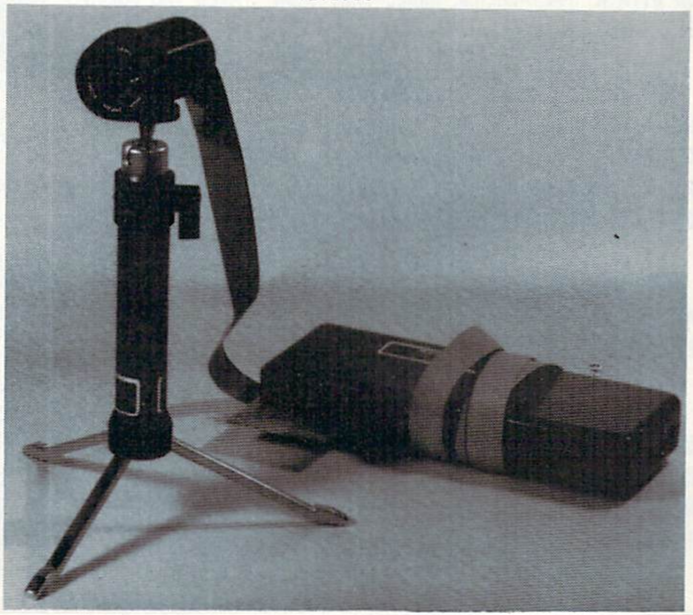
AN INTERESTING NOTE IS THAT THE PICTURE FILES CREATED BY MICRON EYE, SORCERER'S APPRENTICE, AND FLEXIDRAW, CAN ALL BE LOADED AND MANIPULATED BY THE OTHERS, THUS IT IS POSSIBLE TO SHOOT A LANDSCAPE IN GREY SCALE, DO SOME LIGHT-PEN "AIR-BRUSHING" TO IT, AND FINALLY COLOR IT IN WITH SORCERER'S APPRENTICE!

MICRON EYE IS REASONABLY-PRICED, AND THE COMPANY IS VERY HELPFUL WITH TECHNICAL QUESTIONS AND CUSTOM APPLICATIONS.

CONTACT:

MICRON TECHNOLOGY INC.
2805 EAST COLUMBIA ROAD
BOISE, ID 83706 / (208) 383-4000

$295.00



BOOK REVIEWS

-SHARON ZARDETTO AKER

THE COMMODORE 64 HAS FINALLY BEEN AROUND LONG ENOUGH FOR THE PUBLISHING WORLD TO CATCH UP WITH IT. THOSE OF YOU WHO WERE FRUSTRATED BY THE USER'S MANUAL AND COWED BY THE PROGRAMMER'S GUIDE, TAKE HEART! WHEN IT COMES TO 64 PROGRAMMING, THERE ARE TWO BOOKS FOR BEGINNERS AVAILABLE.

"I SPEAK BASIC TO MY COMMODORE 64" IS THE LATEST ADDITION TO AUBREY JONES' LINE OF "I SPEAK BASIC" BOOKS. DESIGNED FOR CLASSROOM USE, IT IS ALSO EMINENTLY SUITED TO THE BEGINNER WHO IS LEARNING ALONE. IT HAS PLENTY OF EXAMPLES, MOVES SLOWLY, AND REVIEWS OFTEN.

"I SPEAK BASIC" COVERS PROGRAMMING CONCEPTS THAT APPLY TO ALL COMPUTERS, IN SPECIFICS THAT APPLY TO COMMODORE. WHILE IT INCLUDES THE USE OF GRAPHIC SYMBOLS, IT DOES NOT COVER THE 64'S SPECIAL SPRITE GRAPHICS, PROGRAMMABLE CHARACTERS, OR SOUND CAPABILITIES. ITS TEXT LAYOUT AND LARGE PRINT MAKE IT A GOOD VOLUME FOR A CHILD TO USE, WITH A PARENT'S HELP.

THIS BOOK IS MEANT FOR THE ABSOLUTE NOVICE, AND IT DOES AN ADMIRABLE JOB OF TEACHING THE FOREIGN LANGUAGE OF COMMODORE BASIC.

"THE ELEMENTARY COMMODORE 64" IS ALSO THE LATEST IN A LINE OF SIMILARLY-TITLED BOOKS. IT IS AN EXCELLENT WORK THAT SUFFERS FROM WHAT MIGHT BE TERMED A MAJOR PROBLEM - THE "MIGHT" DEPENDING ON WHICH VERSION OF THE 64 YOU OWN. THE SECOND REVISION (THE MAJORITY OF SALES) HAS AN INTERNAL SETUP THAT REQUIRES THE COLOR MEMORY TO BE POKED SEPARATELY FROM THE SCREEN MEMORY. IF YOU OWN THAT MACHINE, THE SCREEN-POKING CHAPTER JUST WON'T WORK FOR YOU BECAUSE THE AUTHOR WORKED WITH A PRE-RELEASE MODEL THAT DIDN'T NEED TWO POKES FOR ONE THING TO APPEAR.

THAT PROBLEM ASIDE, "ELEMENTARY" IS A WONDERFUL BOOK. BESIDES PROGRAMMING BASICS, IT COVERS CASSETTE, DRIVE, AND PRINTER USE. THE CHAPTERS ON SPRITE GRAPHICS AND SOUND ARE CLEAR, BUT BRIEF - OBVIOUSLY, SUCH TOPICS CAN'T BE COVERED THOROUGHLY IN WHAT PURPORTS TO BE AN ELEMENTARY BOOK.

THIS VOLUME IS ALSO AIMED AT THE COMPLETE NOVICE, BUT ASSUMES THE READER IS AT LEAST A YOUNG ADULT, AND MOVES AT A PRETTY BRISK PACE,

IF YOU KNOW NOTHING ABOUT PROGRAMMING, "I SPEAK BASIC" IS YOUR BEST BET; YOU CAN GRADUATE TO "ELEMENTARY" LATER. IF YOU HAVE A GRASP OF THE BASICS - LOOPS, ARRAYS, STRINGS, IF-THENS - AND WANT TO LEARN SOME OF THE 64'S OTHER TRICKS, GO STRAIGHT TO "THE ELEMENTARY COMMODORE 64".

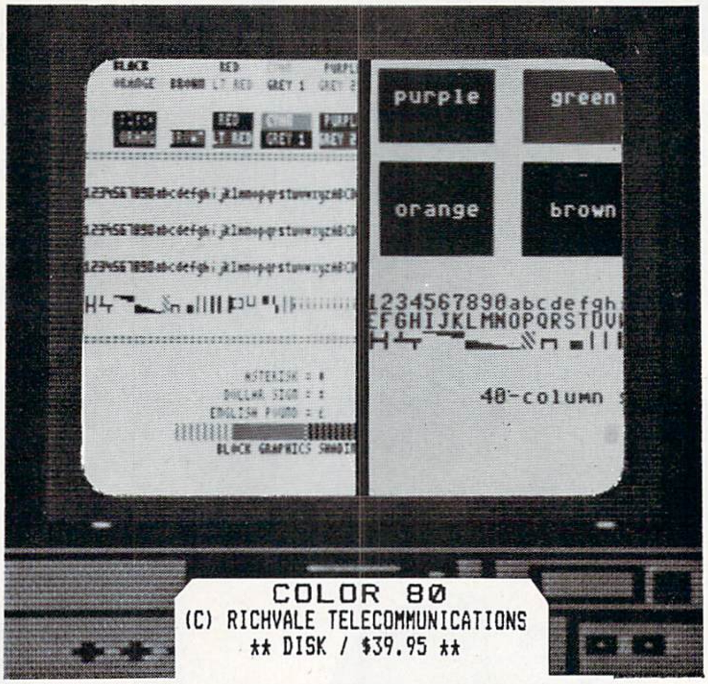
"I SPEAK BASIC TO MY COMMODORE 64"
BY AUBREY B. JONES

HAYDEN BOOK COMPANY
ROCHELLE PARK, NEW JERSEY

"THE ELEMENTARY COMMODORE 64"
BY WILLAIM SANDERS

DATAMOST, INC
8943 FULBRIGHT AVENUE
CHATSWORTH, CA 91311
$14.95

<<<<<< DOUBLE-TAKE >>>>>>



COLOR 80
(C) RICHVALE TELECOMMUNICATIONS
** DISK / $39.95 **

AVAILABLE FROM:
BLUE SKY SOFTWARE
ASHLAND OFFICE CENTER
EVESHAM AND ALPHA AVENUES
VOORHEES, NJ 08043
(609) 795-4025

** NOTE: THE SCREEN-SPLITTING EFFECT SEEN HERE IS NOT POSSIBLE WITH SOFTWARE- WE DID IT WITH AN X-ACTO KNIFE.

COLOR 80 (LEFT SIDE OF 'SCREEN') GENERATES 80 COLUMNS OF CHARACTERS BY DRAWING THEM IN THE BIT-MAP MODE. USING NO BASIC RAM, MOST TEXT-BASED BASIC PROGRAMS WILL RUN, MOST OTHER PROGRAMS WILL NOT. THE CHARACTERS ARE READABLE ON A 1701/2 MONITOR (USED FOR THESE PHOTOS), BUT BARELY- (FORGET READING THEM AT ALL ON A STANDARD TV SET). SCROLLING IS VERY SLOW. ON THE RIGHT SIDE IS THE STANDARD 40 COLUMN DISPLAY FOR COMPARISON. COLOR 80 IS NOW BEING INCLUDED WITH MANY OF RICHVALE'S OTHER APPLICATIONS SOFTWARE, INCLUDING THEIR WORD-PROCESSOR- "SCRIPT 64": THIS IS COLOR 80'S BEST APPLICATION, WHERE THE 40 COLUMN MODE CAN BE USED FOR EYE-EASE, AND THEN THE 80-COLUMN MODE CAN BE SWITCHED IN FOR FORMAT VIEWING.

- EDITOR

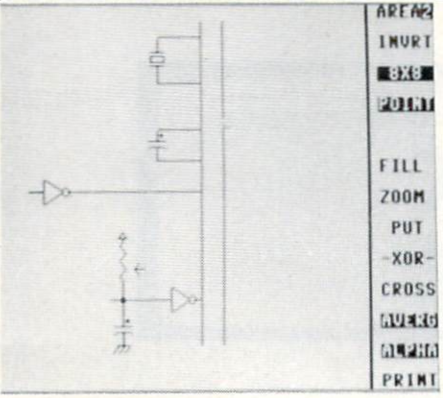


FIG. 1

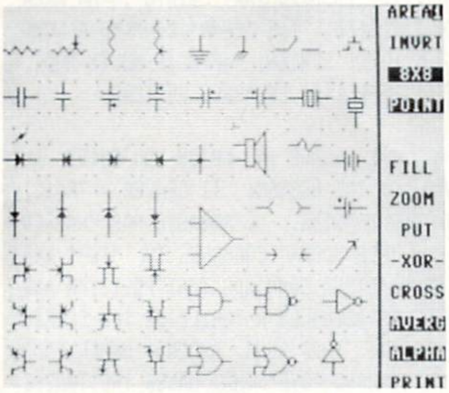


FIG. 2

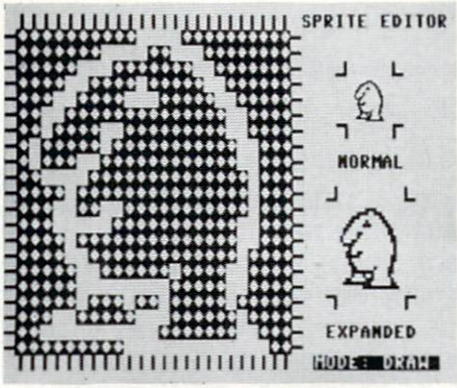
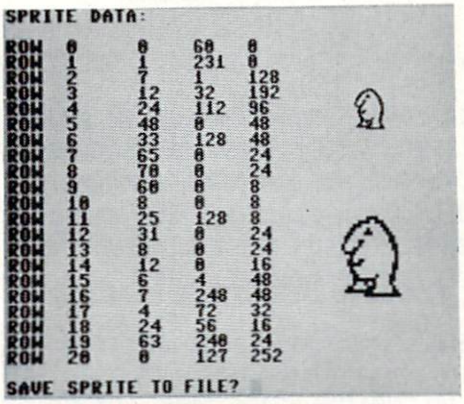
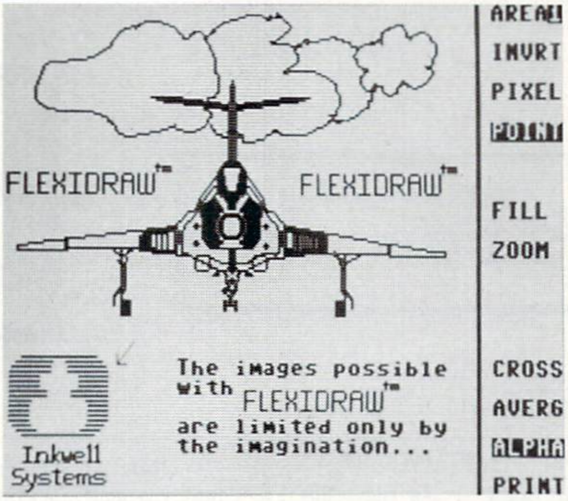


FIG. 3



```
SPRITE DATA:

ROW 0    0    60   0
ROW 1    1    231  0
ROW 2    7    1    128
ROW 3    12   32   192
ROW 4    24   112  96
ROW 5    48   0    48
ROW 6    33   128  48
ROW 7    65   0    24
ROW 8    70   0    24
ROW 9    60   0    8
ROW 10   8    0    8
ROW 11   25   128  8
ROW 12   31   0    24
ROW 13   8    0    24
ROW 14   12   0    16
ROW 15   6    4    48
ROW 16   7    248  48
ROW 17   4    72   32
ROW 18   24   56   16
ROW 19   63   240  24
ROW 20   0    127  252

SAVE SPRITE TO FILE?
```

FIG. 4



The images possible with FLEXIDRAW™ are limited only by the imagination...

FLEXIDRAW
PENWARE
for the Commodore 64
Inkwell Systems

FLEXIDRAW REVIEW

THE FLEXIDRAW SYSTEM FROM INKWELL IS A LIGHT-PEN BASED TOTAL DRAWING ENVIRONMENT WHICH HAS APPLICATIONS FOR ARTISTS, DESIGNERS, HOBBIESTS, PROGRAMMERS, AND OTHERS NEEDING A TOP QUALITY HI-RES GRAPHICS INPUT AND EDITING SYSTEM.

THE FLEXIDRAW SYSTEM CONSISTS OF: A DT-170 LIGHT PEN ENCLOSED IN ANODIZED ALUMINUM WITH A NOSE OR TIP-SWITCH, A MASTER SOFTWARE DISK, FUNCTION KEY OVERLAY, AND MANUAL.

THE PEN IS INSTRUMENTATION QUALITY, COMFORTABLE TO HANDLE, AND A BREEZE TO INSTALL (SIMPLY PLUG INTO THE JOYSTICK PORT). THE MASTER DISK HAS THE MAIN DRAWING ROUTINES FOR USE WITH THE LIGHT PEN, AS WELL AS SAMPLE DRAWING LIBRARY, SYMBOL TEMPLATES, A SPRITE EDITOR/ANIMATOR, A MUSIC SYNTHESIZER PROGRAM, AND A PROGRAMMING MODE WHICH LETS THE USER ACCESS THE HI-RES DRAWING ROUTINES FROM BASIC.

FLEXIDRAW IS EASY TO USE DUE LARGELY TO THE SOPHISTICATED ON-SCREEN MENU SYSTEM (WHICH IS SIMILAR TO THOSE OF LARGE COMPUTER DRAFTING SYSTEMS). FUNCTIONS AND MODES ARE SELECTED BY TOUCHING THE PEN TO THE SCREEN MENU (SEE FIGS. 1,2,& 3). RESPONSE IS INSTANTANEOUS, AND HIDDEN MENU ITEMS APPEAR AS THEY BECOME NEEDED. USING THE MENU AND PEN RAPIDLY BECOMES AN EXTENSION OF THOUGHT, AND THIS IS ONE OF THE MAIN ATTRACTIONS OF THIS KIND OF DRAWING SYSTEM.

THE DRAWING SOFTWARE IS IN 320 X 200 BLACK & WHITE HI-RES BIT-MAP MODE. AS A RESULT, THE MAXIMUM DETAIL IS ACCESSED. DRAWING FREE-HAND IS VERY SMOOTH AS A RESULT OF AN "AVERAGING" FUNCTION WHICH FILTERS OUT NOISE AND JITTER. SOME FUNCTIONS SUPPORTED INCLUDE: LINES, RUBBER-BAND, BLOCK MOVE (3 MODES), ZOOM, AUTO CIRCLES & BOXES, ETC. THE MOST POWERFUL FEATURE IS THE ABILITY TO USE A SET OF SYMBOLS (YOU CAN DESIGN YOUR OWN, OR USE THE ONES SUPPLIED) WHICH RESIDE ON A SECOND "PAGE", AND CAN BE MOVED TO A WORK SCREEN AND BE POSITIONED AND ADDED TO A DRAWING. (THE CIRCUIT IN FIG. 1 IS MADE THIS WAY WITH COMPONENTS FROM FIG.2). DRAWINGS MAY BE DUMPED TO A WIDE RANGE OF GRAPHIC PRINTERS.

THE PROGRAMMING MODE LETS YOU WRITE ROUTINES THAT USE THE MACHINE LANGUAGE POWER OF FLEXIDRAW FROM BASIC.

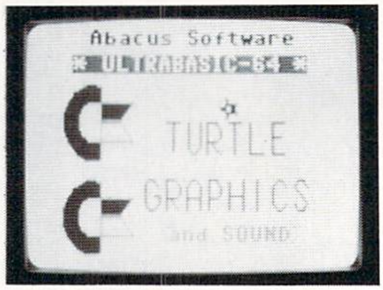
THE SPRITE EDITOR/ANIMATOR AND SYNTHESIZER ARE WELL-DONE EXTRA PROGRAMS THAT REALLY FILL OUT THE GENERAL APPEAL OF THIS PRODUCT (THERE CAN BE NO EASIER WAY TO EDIT SPRITES THAN WITH A LIGHT PEN! WE CREATED THE SPRITE IN FIG. 3 IN SECONDS.) SPRITES ARE AUTOMATICALLY CONVERTED TO DATA STATEMENTS (FIG. 4) AND CAN BE SAVED AS FILES.

FLEXIDRAW IS AN EXCELLENT PRODUCT, AND HELPS THE ESTABLISHMENT OF THE 64 AS A SERIOUS AND USEFUL TOOL. - EDITOR

FOR FURTHER INFORMATION, CONTACT:

INKWELL SYSTEMS
PO BOX 85152 MB290 ‡ 7760 VICKERS ST.
SAN DIEGO, CA 92138 (619) 268-8792
$149.00

ULTRABASIC-



REVIEW -SHARON ZARDETTO AKER

HAVING USED ABACUS' "SYNTHY-64", AND LOVED IT, I EXPECTED A LOT FROM ULTRABASIC 64. WHEN I SAW THAT ROY WAINWRIGHT HAD AUTHORED THIS PROGRAM (HE ALSO DID SYNTHY) MY EXPECTATIONS ROSE EVEN FURTHER. I WASN'T DISAPPOINTED!

ULTRABASIC PUTS 60 SOUND AND GRAPHICS COMMANDS AT YOUR DISPOSAL. IT HAS A TURTLE GRAPHICS SECTION, SPECIAL SPRITE-SPECIFIC COMMANDS, INPUT FUNCTIONS FOR JOYSTICK, PADDLE, AND LIGHTPENS, AND OTHER FUN ODDS AND ENDS TO LET YOU WRITE AN ENTIRE PROGRAM IN ULTRABASIC.

COMPARE THE NORMAL METHOD OF PUTTING YOUR 64 INTO HI-RES MODE WITH:

```
HIRES A,B
```

WHERE A AND B ARE THE SCREEN AND BORDER COLORS. AND, ASIDE FROM THE CONVENIENCE OF A BRIEF COMMAND INSTEAD OF A WHOLE POKEING PROGRAM, IN ULTRABASIC THE SWITCH TO HIRES ONLY TAKES AN INSTANT. (IF YOU HAVEN'T YET HAD THE PLEASURE OF SWITCHING TO HIRES IN COMMODORE BASIC, BELIEVE ME, ITS A SLOW PROCESS.)

IN HIRES MODE, AS YOU MIGHT GUESS, YOU CAN ADDRESS INDIVIDUAL PIXELS WITH THE GRAPHICS COMMANDS. THERE IS AN ALTERNATE "MULTI" (COLOR) MODE IN WHICH YOU ADDRESS BLOCKS OF FOUR PIXELS AT A TIME.

AS FOR THE COMMANDS THEMSELVES, YOU CAN DRAW A "CIRCLE" OR A "BOX" OR USE "BLOCK" FOR AN AUTOMATICALLY FILLED-IN BOX. "DOT" PLOTS A SINGLE PIXEL, WHILE "DRAW" LETS YOU PLOT A LINE. THE FORMAT FOR ALL THESE COMMANDS IS SIMILAR:

```
DRAW X1,Y1,X2,Y2,C
```

THE FIRST SET OF X-Y COORDINATES DEFINE THE STARTING POINT, THE NEXT SET THE END POINT, AND THE LAST NUMBER SETS THE COLOR. WHILE THESE COMMANDS ARE SHEER JOY AFTER COMMODORE BASIC, HAVING TO DEFINE THE COLOR WITH EVERY COMMAND DOES GET TEDIOUS. MOST GRAPHICS LANGUAGES ALLOW YOU TO SET THE COLOR SEPARATELY, AND IT REMAINS IN EFFECT UNTIL ANOTHER COLOR COMMAND IS ENCOUNTERED. MY FIRST REACTION WAS "OH WELL, BEGGARS CAN'T BE CHOOSERS"; BESIDES, THE PROBLEM IS ONLY A MINOR ANNOYANCE.

THERE IS ALSO A "FILL" COMMAND THAT PAINTS IN AN AREA THAT YOU HAVE ALREADY ENCLOSED. THE "CHAR" COMMAND ALLOWS YOU TO PRINT TEXT ON THE HIRES SCREEN; WHEN IN MULTI MODE, THIS HAS THE INTERESTING EFFECT OF ENLARGED LETTERS.

TURTLE IS A GRAPHIC LANGUAGE IN WHICH YOU GUIDE AN IMAGINARY TURTLE AROUND ON THE SCREEN; IT LEAVES A TRAIL, WHICH IS HOW YOU GET YOUR DRAWING. ULTRABASIC HAS CHANGED THE USUAL "PEN UP" AND "PEN DOWN" COMMANDS TO "TUP" AND "TDOWN". THERE ARE SEVEN OTHER COMMANDS THAT POSITION AND DIRECT THE TURTLE. THERE IS ACTUALLY A TURTLE ON THE SCREEN - A NICELY DESIGNED SPRITE THAT RUNS AROUND UNDER YOUR DIRECTION. THERE IS A COMMAND "BYE" THAT MAKES THE TURTLE DISAPPEAR, IN WHICH CASE YOUR PROGRAM RUNS SIGNIFICANTLY FASTER. YOU'LL WANT TO WORK IN THE BYE MODE WHEN YOU'RE DOING INTRICATE DESIGNS.

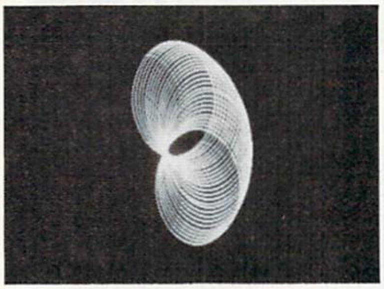
THE SPRITE GRAPHICS COMMANDS ARE NOT THE SIMPLEST THAT I'VE SEEN DESIGNED FOR THE 64, BUT, AGAIN, COMPARED TO COMMODORE BASIC...

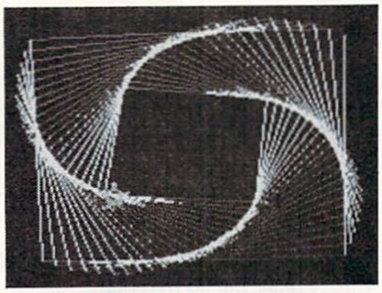
FIRST, SPRITES ARE DESIGNED IN ONE OF THREE WAYS: "BIT", "HEX", OR "SDATA". EACH REFERS TO THE BINARY DESIGN OF THE SPRITE, BUT "BIT" ACTUALLY WORKS WITH THE PATTERN OF ONES AND ZEROS WHILE "HEX" AND "SDATA" USE HEXADECIMAL AND DECIMAL NUMBERS. WHILE THE BIT METHOD TAKES LONGER TO TYPE IN, IT HAS THE ADVANTAGE OF ALLOWING YOU TO SEE THE ACTUAL SPRITE PATTERN AS YOU ARE DESIGNING IT. SPRITE MOVEMENT IS EASY WITH "PLACE" AND FUN WITH "ROTATE" (TO TURN IT NINETY DEGREES), BUT GETTING IT ON THE SCREEN IS A CHORE:

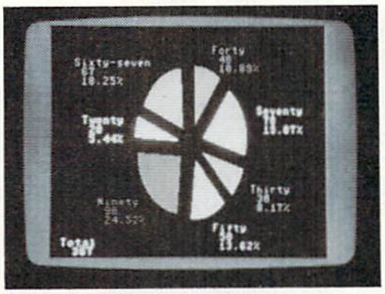
```
SPRITE N,S,M,P,X,Y,C1,C2,C3
```

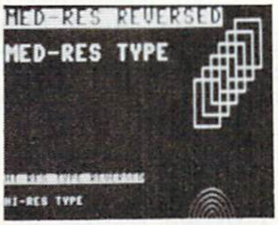
ARGUMENTS FOR THE SPRITE COMMAND REFER TO THE SPRITE PRIORITY, SPRITE NUMBER, MODE (HIRES OR MULTICOLOR), BACKGROUND PRIORITY, VERTICAL AND HORIZONTAL EXPANSION, AND COLORS. IT'S A LOT OF DATA TO CONSIDER, BUT WORTH THE EFFORT. THERE ARE SPRITE COLLISION DETECTION COMMANDS AND, BY THE WAY, SIXTEEN SPRITES ARE AVAILABLE.

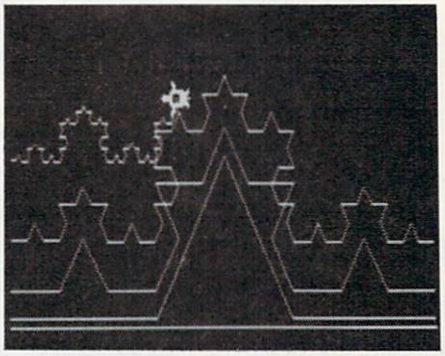
YOU'LL LOVE BEING FINALLY ABLE TO GET AT YOUR 64'S SOUND CAPABILITES. THE "SOUND" COMMAND LETS YOU SPECIFY THE GENERATOR, PITCH, AND DURATION OF THE SOUND. THE THREE GENERATORS ARE PRE-SET TO DIFFERENT WAVEFORMS, BUT YOU CAN











RE-SET THEM WITH THE "GEN" COMMAND. YOU WILL BE POSITIVELY AMAZED WHEN YOU CAN PLAY A TUNE WITH ONLY A FEW SHORT PROGRAM LINES AND NO POKES. SOUND EFFECTS ARE EASY TO EXPERIMENT WITH AND YOU'LL FINALLY GET A FEEL FOR JUST WHAT A CHANGE IN THE WAVEFORM DOES FOR A SOUND.

THERE IS ANOTHER TYPE OF SOUND COMMAND, CALLED "TUNE". THIS METHOD HAS THE ADVANTAGE OF BEING ABLE TO SET A TUNE GOING THAT WILL PLAY WHILE THE REST OF YOUR PROGRAM CONTINUES. IT HAS THE DISADVANTAGE OF NEEDING ITS CONSIDERABLE AMOUNT OF DATA ENTERED IN HEXADECIMAL CODE.

ULTRABASIC IS, OF COURSE, WRITTEN IN MACHINE LANGUAGE. ONCE IT IS LOADED INTO MEMORY, YOU CAN SAVE AND LOAD YOUR OWN PROGRAMS WITHOUT AFFECTING ITS STORAGE. THIS MEANS, OF COURSE, THAT ANY PROGRAM YOU WRITE IN ULTRABASIC CAN'T BE RUN UNTIL THE ULTRABASIC PROGRAM IS LOADED FIRST. PERSONALLY, I FIND THE NECESSITY FOR DOUBLE LOADS ANNOYING, AND WOULD MUCH RATHER SEE A SYSTEM WHERE THE MACHINE CODE IS SAVED ALONG WITH MY OWN PROGRAM. A PIPE DREAM, OF COURSE, BECAUSE THAT WOULD MAKE ULTRABASIC COPYABLE, AND NO ONE TRUSTS HOME PROGRAMMERS. (NOR SHOULD THEY, I SUPPOSE.)

ALTHOUGH YOU CAN WRITE TEXT ON THE HIRES AND MULTI COLOR SCREENS, YOU CAN ALSO SWITCH TO A REGULAR TEXT MODE. THIS CAN BE DONE WITHIN A PROGRAM, OR JUST BY USING THE F5 KEY TO SWITCH FROM ONE TO THE OTHER.

THE DOCUMENTATION IS THOROUGH, AND REASONABLY CLEAR. IT IS THE KIND OF MANUAL THAT GETS CLEARER ON EACH READING, AND MAKES THE MOST SENSE AFTER YOU'VE HAD SOME EXPERIENCE WITH THE PROGRAM.

ULTRABASIC PUTS INTO YOUR 64 WHAT COMMODORE LEFT OUT: A GOOD GRAPHICS/SOUND LANGUAGE. WHILE SOME OF ITS FEATURES ARE NOT AS SIMPLE TO USE AS THE COMMANDS IN OTHER GRAPHICS LANGUAGES, GETTING ALL OF THIS IN ONE PACKAGE IS A BARGAIN.

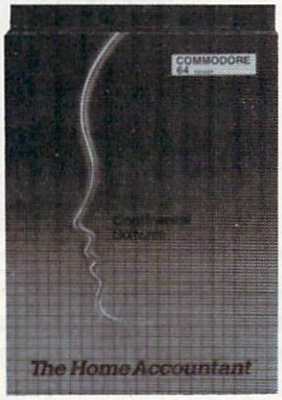
ULTRABASIC 64 IS AVAILABLE FROM:
ABACUS SOFTWARE
POST OFFICE BOX 7211
GRAND RAPIDS, MICHIGAN 49510
(DISK 42.95, TAPE 39.95)

FACE TO FACE

ARBY FULLER

THE HOME ACCOUNTANT

$79.95 - DISKETTE
CONTINENTAL SOFTWARE
11223 SOUTH HINDRY AVENUE
LOS ANGELES, CA 90045
(213) 417-8031
(213) 417-3003



Complete Personal Accountant
64

COMPLETE PERSONAL ACCOUNTANT

(FORMERLY 'COLOR ACCOUNTANT')
$79.95 - DISKETTE
PROGRAMMER'S INSTITUTE
P.O. BOX 3470, DEPT. C
CHAPEL HILL, NC 27514
(800) 334-SOFT

INTRODUCTION

THE CONSUMER IS OFTEN PRESENTED WITH TWO OR MORE WELL-PUBLICIZED PRODUCTS FROM DIFFERENT COMPANIES WHICH APPEAR TO OFFER SIMILAR FEATURES AT SIMILAR PRICES. IN 'FACE TO FACE', INFO-64 WILL ATTEMPT TO COMPARE PRODUCTS OF THIS NATURE TO HELP THE PROSPECTIVE BUYER IN SELECTING THE PACKAGE WHICH BEST MEETS HIS/HER NEEDS. THE OBJECT HERE IS NOT NECESSARILY TO FIND A 'WINNER': OFTEN TWO PRODUCTS WILL BOTH BE VERY GOOD, EACH APPEALING TO DIFFERENT AUDIENCES. THE IDEA IS TO HELP YOU FIND THE RIGHT PRODUCT BOTH FOR YOUR INDIVIDUAL NEEDS AND PERSONAL TASTE.

THE TWO PACKAGES COMPARED HERE ARE BOTH FROM ESTABLISHED SOFTWARE HOUSES & ARE INTENDED TO HELP MANAGE PERSONAL BUDGETS, MAINTAIN & BALANCE CHECKBOOKS, AND GENERATE REPORTS AND GRAPHS THAT WILL CLARIFY YOUR FINANCIAL SITUATION.

SPECIFICATIONS

NUMBER OF CHECKBOOKS:	5
BUDGET CATEGORIES:	100
FLAG TRANSACTIONS:	TAX DEDUCTIBLES
MAXIMUM TRANSACTION:	$999,999.99
AUTOMATIC TRANSACTIONS:	5 PER CHECKBOOK
TRANSACTIONS PER DISK:	1000 (APPROX.)
LINK DISKETTES:	YES
CASH & CREDIT CARDS:	YES
MEMO LINE FOR CHECKS:	YES
SPLIT CHECKS/DEPOSITS:	YES
PRINT CHECKS:	YES
FIND TRANSACTIONS BY:	DATE CHECK# PAYEE AMOUNT BUDGET CATEGORY MEMO TAX FLAG ANY COMBINATION OF ABOVE
REPORTS:	BUDGET ACTUAL EXPENSE BALANCE SHEET/NET WORTH INCOME/EXPENSE CHECK ACTIVITY SORTED BY ANY FIELD ALL TRANSACTIONS TO DATE, SORTED BY ANY FIELD
GRAPHS:	‡ BUDGET VS. ACTUAL ‡ EXPENSE ‡ TREND

ALL GRAPHS ARE FOR A 12-MO. PERIOD, & SHOW FROM 1 TO 3 CATEGORIES.

ADDITIONAL FEATURES

- ‡ SUPPORTS 1 OR 2 DRIVES / SET-UPS FOR MOST PRINTERS

NUMBER OF CHECKBOOKS:	10
BUDGET CATEGORIES:	99 (+ 350 SUB-CATEGORIES)
FLAG TRANSACTIONS:	TAX DEDUCTIBLES & USER-DEFINED
MAXIMUM TRANSACTION:	$9,999,999.99
AUTOMATIC TRANSACTIONS:	NO LIMIT
TRANSACTIONS PER DISK:	2700 (APPROX.)
LINK DISKETTES:	NO
CASH & CREDIT CARDS:	YES
MEMO LINE FOR CHECKS:	NO
SPLIT CHECKS/DEPOSITS:	YES
PRINT CHECKS:	YES
FIND TRANSACTIONS BY:	DATE CHECK# PAYEE AMOUNT ACCOUNT NUMBER SUB-ACCOUNT NUMBER TAX OR USER FLAGS
REPORTS:	BUDGET VS. ACTUAL WITH DIFFERENCE. BALANCE SHEET/NET WORTH INCOME/EXPENSE CHECK ACTIVITY (RANGE OF MONTHS) ALL TRANSACTIONS TO DATE, SORTED BY ANY FIELD
GRAPHS:	‡ BUDGET VS. ACTUAL ‡ EXPENSE/INCOME/ASSETS/LIABILITIES ‡ ALL ACCOUNTS

ALL GRAPHS ARE FOR A SINGLE MONTH & SHOW ALL ACCOUNTS IN THAT CATEGORY.

ADDITIONAL FEATURES

- ‡ 1200-NAME MAILING LIST
- ‡ 200-ENTRY PAYMENT CALENDAR
- ‡ 250-ENTRY APPOINTMENT CALENDAR

** THE HOME ACCOUNTANT **

'THE HOME ACCOUNTANT' IS BUILT AROUND A BUDGET STRUCTURE DIVIDED INTO 5 BASIC CATEGORIES: ASSETS, CREDIT CARDS, LIABLILITIES, INCOME, & EXPENSES. ALL TRANSACTIONS AND BUDGET ACCOUNTS ARE ASSIGNED TO ONE OF THE ABOVE CATEGORIES. THIS FACILITATES THE PROPER APPLICATION OF CREDITS AND DEBITS BETWEEN DIFFERENT TYPES OF ACCOUNTS. THE START-UP IS LENGTHY, AS THE COMPLETE SYSTEM MUST BE STEPPED THRU AND SET-UP IN THE PROPER SEQUENCE- THE SOFTWARE DOES NOT ALLOW YOU TO SKIP ANY STEPS OR EVEN TRY TO EXPERIMENT WITH REPORTS OR GRAPHS UNTIL THE GROUNDWORK IS DONE. THIS IS A VERY GOOD IDEA & INSURES SYSTEM INTEGRITY.

TRANSACTIONS ARE ENTERED THRU 3 SIMILAR BUT SEPARATE SCREENS: CHECKBOOK, CREDIT CARD, & CASH. FIRST, THE PROPER CATEGORY FOR THE TRANSACTION IS INDICATED, THEN THE BLANKS FOR DATA ARE FILLED IN SEQUENTIALLY. EDITING IS POSSIBLE (ONCE ALL FIELDS HAVE BEEN RESPONDED TO) BY TYPING THE FIELD NUMBER AND THEN RE-TYPING THE NEW INFORMATION. CHECKBOOK RECONCILIATION IS ACCOMPLISHED WITH THE SAME SCREEN-LAYOUT & YOU ARE ASKED TO CANCEL OR PASS EACH CHECK OR DEPOSIT IN TURN.

TRANSACTIONS WHICH ARE MADE EVERY MONTH (MORTGAGE, LOANS, ETC.) MAY BE PAID AUTOMATICALLY BY SETTING THEM UP IN A SPECIAL FILE- EVERY TIME A NEW MONTH IS STARTED, ALL AUTOMATIC TRANSACTIONS WILL TAKE PLACE WITHOUT FURTHER USER-INTERVENTION. (YOU MAY NOT WISH TO PAY MID-MONTH BILLS THIS WAY SINCE THEY WILL BE FIGURED IN AT THE BEGINNING OF THE MONTH.)

ONCE YOU HAVE THE SYSTEM SET UP AND A MONTH OR TWO OF CHECKS AND PAYMENTS PROCESSED, YOU WILL BE ABLE TO BEGIN GETTING A PICTURE OF YOUR FISCAL CONDITION VIA THE REPORT AND GRAPHING SECTIONS; THIS IS THE PAY-OFF FOR ALL YOUR HOURS OF CONSCIENCIOUS KEYBOARD TAPPING.

========= COMMENTS =========

THERE'S GOOD NEWS AND BAD NEWS. ON THE PLUS SIDE, WE LIKE THE SEARCH FEATURE VERY MUCH: LETS SAY YOU GET TO THE CATEGORY FIELD OF A TRANSACTION SCREEN AND YOU WANT TO ENTER THE CATEGORY- 'INTEREST, CAR LOAN'...YOU KNOW YOU SET THIS ITEM UP IN THE BUDGET, BUT YOU DON'T KNOW IF YOU CALLED IT 'INT.-AUTO', OR 'INTEREST, CAR', OR WHAT- INSTEAD OF LOOKING IT UP FROM YOUR BUDGET PRINTOUT, YOU CAN JUST TYPE "INT" & THE FIELD WILL AUTOMATICALLY SHOW THE FIRST ITEM FROM YOUR BUDGET THAT MATHCES THESE LETTERS- IF IT SAYS "INTEREST, APPLE FUND" YOU JUST HIT THE SPACE BAR TO GET THE NEXT MATCH, AND THEN HIT RETURN WHEN YOU FIND THE RIGHT ONE. THIS IS A GREAT FEATURE FOR ANY PROGRAM OF THIS TYPE AND A REAL TIME-SAVER.

UNFORTUNATELY, THE TIME SAVED WITH THE FIELD SEARCH DOES NOT BEGIN TO MAKE UP FOR THE TIME LOST PROCESSING TRANSACTIONS AND RECONCILING CHECKBOOKS. EACH TRANSACTION OR RECONCILED CHECK REQUIRES AN AVERAGE OF 1 1/2 MINUTES TO BE UPDATED TO THE DISK, AND MUST BE DONE PER ITEM (NOT AS A BATCH). THIS MEANS THAT IF YOU SIT DOWN TO BALANCE YOUR CHECKBOOK AND HAVE 50 CHECKS TO RECONCILE FOR THE MONTH (NOT AN UNCOMMON AMOUNT) YOU WILL SPEND ABOUT AN HOUR AND FIFTEEN MINUTES WAITING (THIS DOES NOT INCLUDE YOUR ACTIVE TIME OF TYPING AND THINKING) DURING WHICH YOU WILL NOT GET MUCH ELSE DONE BECAUSE EVERY MINUTE AND A HALF YOU WILL NEED TO ENTER THE NEXT TRANSACTION. THIS IS NOT OUR IDEA OF COMPUTER HELP, IT IS MORE LIKE COMPUTER TORTURE! THERE ARE ALSO PROBLEMS WITH THE AUTOMATIC FIELD-ENTRY ROUTINES DURING SPLIT AND SAME-DATE TRANSACTIONS, BUT THESE PALE NEXT TO THE SPEED PROBLEM.

** COMPLETE PERSONAL ACCOUNTANT **

IN THE 'COMPLETE PERSONAL ACCOUNTANT' (CPA FOR SHORT), ALL FINANCIAL FUNCTIONS ARE BASED ON A CHART OF NUMBERED ACCOUNTS (DIFFERENT RANGES OF ACCOUNT NUMBERS DETERMINE WHETHER THE ACCOUNT IS AN ASSET, LIABILITY, EQUITY, INCOME, OR EXPENSE). YOU CAN SPEND SOME TIME (SEVERAL HOURS) SETTING UP YOUR OWN, OR YOU CAN USE THE ONE PROVIDED ON THE DISK (AS-IS, OR CUSTOMIZED TO YOUR NEEDS).

ONCE ACCOUNTS ARE SET UP, ALL TRANSACTIONS (CHECKS, DEPOSITS, CASH, BANK CARDS, CREDIT CARDS, PHONE-PAYMENTS, RECONCILIATION, ETC.) ARE MADE VIA THE CHECKBOOK MAINTENANCE SCREEN. IN ROUTINE USE, DATA FROM YOUR CHECKBOOK IS PERIODICALLY TRANSFERED TO THE COMPUTER VIA THE CHECKBOOK SCREEN, ASSIGNING EACH TRANSACTION TO ITS APPROPRIATE ACCOUNT. YOU MAY UPDATE THIS ELECTRONIC CHECKBOOK AS OFTEN AS YOU LIKE, THO MANY OF US WILL CHOOSE TO DO IT ALL EACH TIME A BANK STATEMENT IS RECEIVED. TAX DEDUCTIBLES, CASH, & CREDIT TRANSACTIONS CAN BE FLAGGED AND ARE HANDLED IN THIS SINGLE ENVIRONMENT. EDITING TRANSACTIONS SIMPLY INVOLVES SCROLLING FORWARD OR BACK THRU YOUR CHECKBOOK AND TYPING OVER FIELDS NEEDING CORRECTION WHEN LOCATED.

TRANSACTIONS THAT OCCUR REGULARLY CAN BE HANDLED CONVENIENTLY WITH THE AUTOMATIC CHECK ENTRY FEATURE. MASTER CHECKS FOR THESE TRANSACTIONS ARE STORED IN A SEPARATE FILE WHERE THEY CAN BE BROWSED FOR AND INSERTED INTO CHECK-MAINTENANCE AND THEN EDITED TO REFLECT THE CURRENT DATE. THIS IS A CONVENIENT WAY TO AVOID FORGETTING A REGULAR BILL, AND CONTRIBUTES TO THE ACCURACY OF THESE IMPORTANT TRANSACTIONS.

ONCE YOU HAVE YOUR STATEMENT AND HAVE BROUGHT YOUR TRANSACTIONS UP TO DATE, YOU ARE READY TO RECONCILE YOUR CHECKBOOK (USING THE SAME FAMILIAR SCREEN)- TRANSACTIONS WILL APPEAR IN SEQUENCE, AND YOU MAY CANCEL OR SKIP EACH ONE IN TURN.

NEXT YOU WILL NEED TO BUILD YOUR BUDGET FILES; THIS IS FAIRLY STRAIGHTFORWARD AND PROVIDES THE BASIS FOR MOST OF THE ANALYSIS TO BE DONE BY THE REST OF THE PACKAGE.

UPON COMPLETION OF THESE NECESSARY CHORES, YOU MAY GENERATE ANY OF THE AVAILABLE REPORTS OR GRAPHS AND ANALYZE YOUR SITUATION/PREDICAMENT. IT IS ONLY AT THIS POINT THAT THE USEFULNESS OF ELECTRONIC FINANCIAL MANAGEMENT FINALLY COMES INTO VIEW.

========= COMMENTS =========

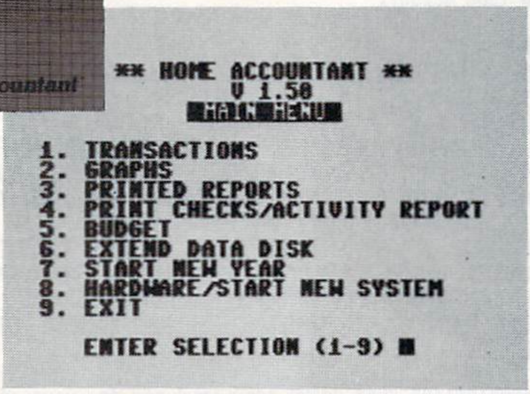
WE LIKE THE PICTORIAL FORMAT OF THE TRANSACTION SCREEN. TRANSACTIONS ARE RELATIVELY FAST (ABOUT 6 SECONDS TO UPDATE TO DISK) AND ARE DONE AS YOU GO SO AS NOT TO RISK LOSING WORK. ALL OTHER FUNCTIONS (FINANCIAL STATEMENTS, BUDGET ANALYSIS, ETC.) REQUIRE LOADING MULTIPLE FILES PRIOR TO A SESSION, & THEN SAVING THE UPDATED FILES MANUALLY AFTER THE SESSION.

HAVING TO LOAD AND SAVE DATA FILES MANUALLY IS BOTHERSOME, UNNECESSARY, AND (IN THE EVENT OF FORGETTING TO SAVE) CAPABLE OF DESTROYING AN EVENING'S WORK. THIS FEATURE IS OUR ONLY REAL COMPLAINT WITH 'COMPLETE PERSONAL ACCOUNTANT', AND WE HOPE ITS CREATORS WILL REMEDY THIS IN FUTURE UPDATES.

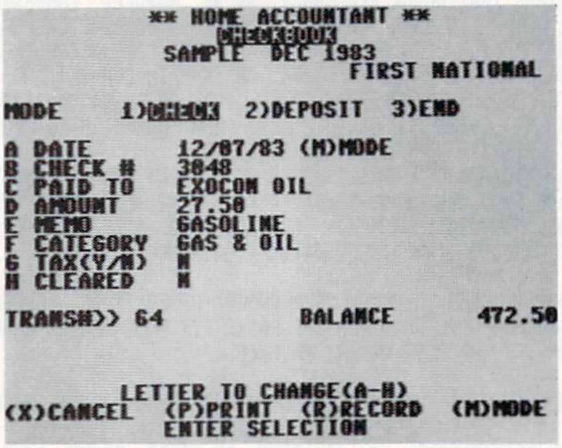
ONE OTHER MINOR IRRITATION IS A LACK OF CONSISTENCY IN THE WAY THE USER MUST ENTER DATES. IN SOME PLACES THE DATES ARE ENTERED 6 DIGITS ALL AT ONCE (011583) WITH THE PROGRAM INSERTING SLASHES AFTER 'RETURN' IS HIT- IN OTHER PLACES PAIRS OF DIGITS MUST BE FOLLOWED BY 'RETURN' BEFORE THE NEXT PAIR WILL BE ACCEPTED: ISN'T LIFE COMPLICATED ENOUGH ALREADY?

CONTINUED..

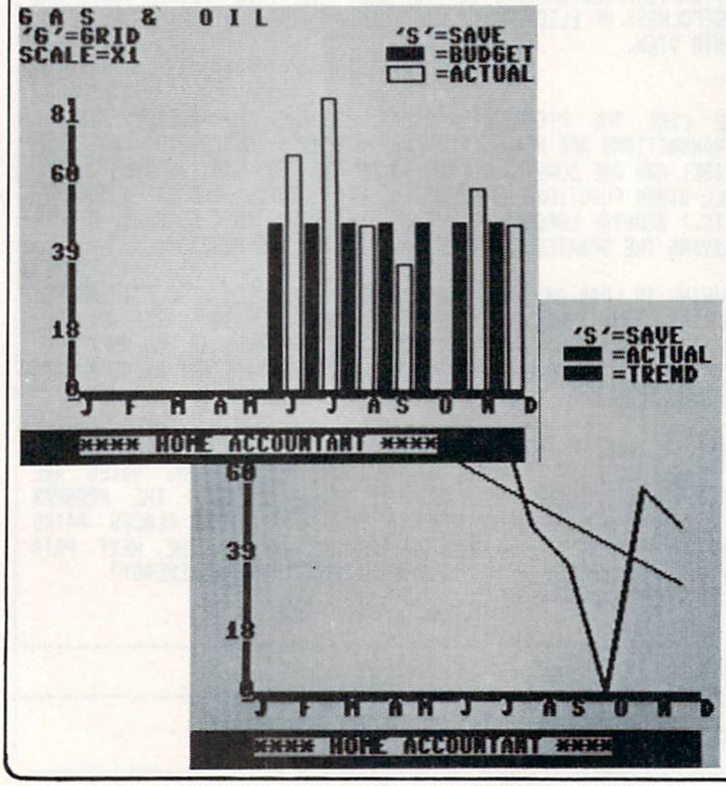
COMMODORE 64
The Home Accountant



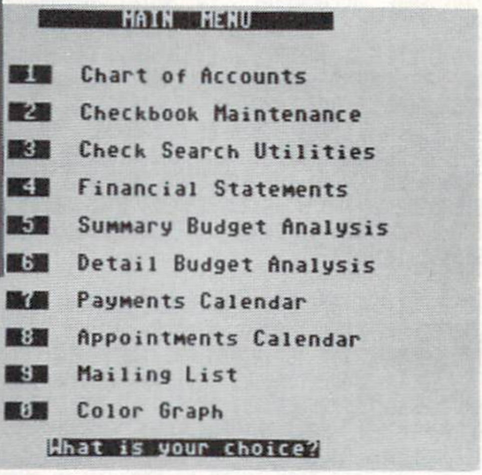
```
** HOME ACCOUNTANT **
      V 1.50
    MAIN MENU

 1. TRANSACTIONS
 2. GRAPHS
 3. PRINTED REPORTS
 4. PRINT CHECKS/ACTIVITY REPORT
 5. BUDGET
 6. EXTEND DATA DISK
 7. START NEW YEAR
 8. HARDWARE/START NEW SYSTEM
 9. EXIT

 ENTER SELECTION (1-9) ■
```



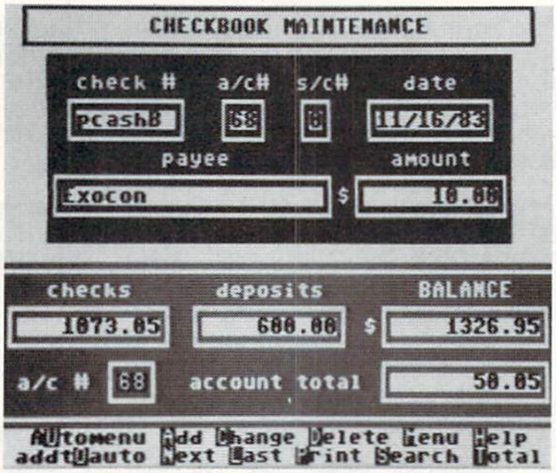
```
        ** HOME ACCOUNTANT **
              CHECKBOOK
        SAMPLE  DEC 1983
                     FIRST NATIONAL

MODE      1)CHECK  2)DEPOSIT  3)END

A DATE       12/07/83 (M)MODE
B CHECK #    3048
C PAID TO    EXOCOM OIL
D AMOUNT     27.50
E MEMO       GASOLINE
F CATEGORY   GAS & OIL
G TAX(Y/N)   N
H CLEARED    N

TRANS#>> 64           BALANCE      472.50


        LETTER TO CHANGE(A-H)
(X)CANCEL   (P)PRINT  (R)RECORD   (M)MODE
          ENTER SELECTION
```


G A S & O I L
'G'=GRID
SCALE=X1
'S'=SAVE
▮ =BUDGET
▯ =ACTUAL
81
60
39
18
0
J F M A M J J A S O N D
**** HOME ACCOUNTANT ****
'S'=SAVE
▮ =ACTUAL
▮ =TREND
60
39
18
0
J F M A M J J A S O N D
**** HOME ACCOUNTANT ****

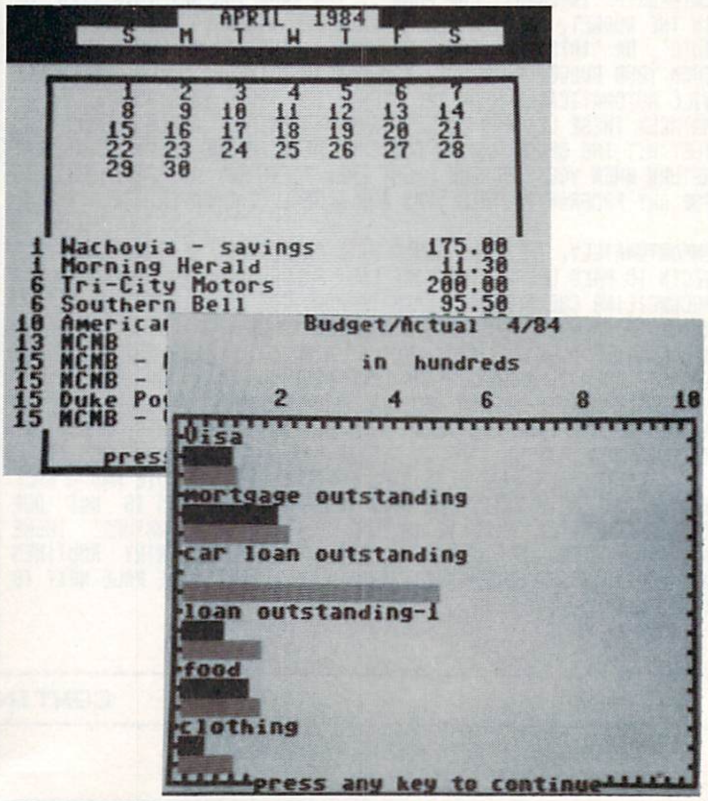
Complete Personal Accountant
64



```
        MAIN MENU

1  Chart of Accounts
2  Checkbook Maintenance
3  Check Search Utilities
4  Financial Statements
5  Summary Budget Analysis
6  Detail Budget Analysis
7  Payments Calendar
8  Appointments Calendar
9  Mailing List
0  Color Graph

   What is your choice?
```



```
CHECKBOOK MAINTENANCE

check #    a/c#   s/c#   date
pcash8      68     8     11/16/83
        payee              amount
Exocon                  $   10.00

checks      deposits       BALANCE
1073.05      600.00    $   1326.95

a/c #  68   account total    50.05

AUtomenu Add Change Delete Menu Help
addtNauto Next Last Print Search Total
```



```
            APRIL  1984
  S    M    T    W    T    F    S

  1    2    3    4    5    6    7
  8    9   10   11   12   13   14
 15   16   17   18   19   20   21
 22   23   24   25   26   27   28
 29   30

 1 Wachovia - savings        175.00
 1 Morning Herald             11.30
 6 Tri-City Motors           200.00
 6 Southern Bell              95.50
10 America
13 MCNB
15 MCNB - (
15 MCNB -
15 Duke Po
15 MCNB - (
   press
```

```
     Budget/Actual  4/84
       in  hundreds
   2     4     6     8    10
Visa
mortgage outstanding
car loan outstanding
loan outstanding-1
food
clothing
press any key to continue
```

REPORTS

‼ THE HOME ACCOUNTANT ‼

'HOME ACCOUNTANT' GENERATES NUMEROUS TYPES OF REPORTS (SEE SPECIFICATIONS): THESE ARE LIKELY THE MOST USEFUL OUTPUT FROM ANY GOOD ACCOUNTING PROGRAM. WE LIKE THE PROVISIONS MADE FOR INTERFACING THE PROGRAM TO A VARIETY OF PRINTERS. WE ALSO LIKE THE 12-MONTH, 132-COLUMN OUTPUT WHICH IS NECESSARY TO GET THE WHOLE YEAR'S PICTURE ACROSS ONE PAGE. WHAT COMMODORE 1525-OWNERS WILL NOT LIKE IS THAT THE 132 COLUMNS IS NOT AN OPTION, IT IS MANDATORY, AND ON THEIR 80-COLUMN MACHINES THEY WILL GET CONSIDERABLE WRAP-AROUND WHICH WILL MAKE THEIR HARDCOPY LESS THAN PRETTY.

‼ COMPLETE PERSONAL ACCOUNTANT ‼

'CPA' PRINTS THE WHOLE RANGE OF FINANCIAL REPORTS, WITH AN ESPECIALLY GOOD DETAILED BUDGET ANALYSIS. ALSO PRINTABLE ARE THE APPOINTMENT AND PAYMENT CALENDARS AS WELL AS MAILING LABELS FROM THE BUILT-IN MAILING-LIST PROGRAM. NO SPECIAL PROVISIONS ARE MADE FOR ACCOMODATING NON-COMMODORE PRINTERS, THO PROPERLY INTERFACED ASCII PRINTERS WILL WORK. AS YOU MIGHT EXPECT, ONLY 80-COLUMN OUTPUT IS SUPPORTED: FOR THE ANNUAL SPREAD YOU WILL NEED SOME SCOTCH TAPE.

GRAPHS & OTHER FEATURES

'HOME ACCOUNTANT' PROVIDES FOR THREE KINDS OF GRAPHS: 1) A BAR GRAPH FOR SHOWING BUDGET VS. ACTUAL AMOUNTS. 2) A LINE GRAPH FOR CHARTING UP TO 3 ACCOUNTS AT ONE TIME. 3) A TREND GRAPH WHICH SHOWS THE ACTIVITY OF ONE ACCOUNT ALONG WITH A STRAIGHT "TREND" LINE. THESE GRAPHS COVER A 12-MONTH PERIOD, ARE SELF-SCALING, AND HAVE AN OPTIONAL GRID WHICH CAN BE DRAWN OVER THE GRAPH. IN THE PROCESS OF CONVERTING THIS FROM THE APPLE VERSION, THE COLOR GOT LOST, AND ALL GRAPHICS ARE BLACK & WHITE (THIS CAN MAKE THE TRIPLE LINE-GRAPHS CONFUSING- THE COLOR IS NOW SCHEDULED FOR A FUTURE UPDATE.)

HARD COPY IS ONLY AVAILABLE VIA. 3RD-PARTY SOFTWARE.

CPA IS CAPABLE OF PRODUCING BAR GRAPHS FOR MOST OF ITS FUNCTIONS. DATA FROM YOUR VARIOUS FILES IS USED TO DRAW THE GRAPHS ON THE SCREEN (OR TO A PRINTER- SEE BELOW). THE GRAPHS ARE AUTOMATICALLY SCALED, AND SPREAD OVER SEVERAL SCREENS IF MORE DATA HAS BEEN CALLED THAN CAN BE DISPLAYED AT ONCE. THE MOST USEFUL GRAPH IS THE BUDGET VS. ACTUAL GRAPH (SEE PHOTOS). UNFORTUNATELY CPA IS ONLY DESIGNED TO SHOW ONE MONTH AT A TIME: WE FEEL THAT A TWELVE-MONTH SPREAD WOULD HAVE BEEN MUCH MORE HELPFUL.

IF YOU WANT A HARD COPY, YOU HAVE TWO CHOICES: WITH A COMMODORE GRAPHICS PRINTER, YOU SIMPLY PUSH THE APPROPRIATE MENU KEY AND YOU GET YOUR PRINTOUT- OTHER GRAPHICS PRINTERS WILL REQUIRE AN EXTRA SCREEN-DUMP ROUTINE (NOT INCLUDED).

THREE ADDITIONAL PROGRAMS ARE INCLUDED ON THIS DISK: 2 ON-SCREEN CALENDARS ASSIST IN KEEPING TRACK OF APPOINTMENTS AND PAYMENT DATES, AND A 1200-NAME MAILING LIST PROGRAM ADDS EXTRA VALUE (IF YOU NEED A MAILING-LIST PROGRAM).

ONE OTHER BONUS DESERVES MENTION: THE FLIP SIDE OF THIS DISK HAS A SELF-RUNNING INSTRUCTIONAL DEMO ON IT THAT SHOWS OFF THE FEATURES OF THIS PACKAGE.

SUMMARY

IT IS CLEAR THAT THE CREATORS OF 'THE HOME ACCOUNTANT' ARE SKILLED AND CAPABLE DESIGNERS WHO HAVE PUT A LOT OF EFFORT INTO A HOME ACCOUNTING CONCEPT, & INDEED, THIS PACKAGE HAS BEEN HIGHLY PRAISED IN ITS APPLE FORMAT. IT IS EQUALLY CLEAR THAT IN THEIR EAGERNESS TO GET THE 64 VERSION TO MARKET, CONTINENTAL SOFTWARE HAS DONE A HATCHET-JOB ON THEIR OWN PRODUCT (THE VERSION WE TESTED HAD SEVERAL OTHER SERIOUS PROBLEMS THAT ARE NOT DETAILED HERE, AS WE HAVE BEEN ASSURED THAT THEY HAVE SINCE BEEN CORRECTED).

WHILE WE HAVE NO DOUBT THAT CONTINENTAL WILL EVENTUALLY BRING THIS PRODUCT UP TO SNUFF, IN ITS PRESENT FORM WE CANNOT RECOMMEND THAT ANYONE TRY TO USE 'THE HOME ACCOUNTANT' FOR THE COMMODORE 64. FURTHERMORE, WE FEEL THAT CONTINENTAL SHOULD WITHDRAW THE CURRENT VERSION FROM THE MARKET AND OFFER REFUNDS OR CREDIT TO PERSONS WHO HAVE ALREADY PURCHASED 'THE HOME ACCOUNTANT'- AT THE VERY LEAST THEY SHOULD DROP THE $20 CHARGE REQUIRED FOR UPDATED VERSIONS.

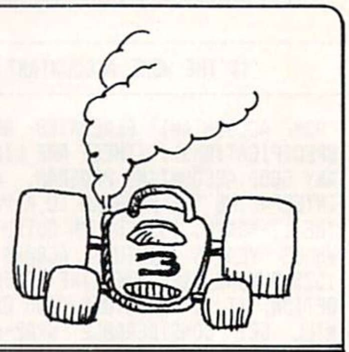
INSPITE OF A COUPLE OF ROUGH SPOTS AND THE REGRETTABLE NECESSITY TO HANDLE SEVERAL DATA FILES MANUALLY, THE 'COMPLETE PERSONAL ACCOUNTANT' IS DEFINITELY A WORTHWHILE AND QUALITY PRODUCT PROVIDING A COMPREHENSIVE SYSTEM FOR HOME MONEY MANAGEMENT. IF YOUR FINANCES ARE FAIRLY SIMPLE, IT MAY BE OVERKILL: IF, HOWEVER, YOU TEND TO GET LOST IN YOUR STACK OF BILLS, RECEIPTS, & STATEMENTS, THIS PACKAGE WIL BE A GOOD INVESTMENT.

TWO NEW PROGRAMS FROM PROGRAMMER'S INSTITUTE (A SPREADSHEET & AN INCOME TAX PACKAGE) ARE SCHEDULED FOR RELEASE THAT ARE INTENDED TO SHARE DATA WITH CPA AND MAKE FURTHER USE OF YOUR INFORMATION. IN ADDITION, SUBSETS OF CPA ARE AVAILABLE SEPERATELY IF YOU NEED ONLY SOME OF THE FUNCTIONS DESCRIBED HERE.

CRASH

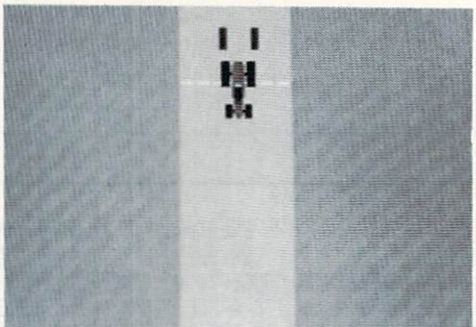
by Hans Grage

```
4 POKE 53281,15:POKE53280,0:POKE53269,0:PRINT"{SC}":POKE54296,0:K=0
5 FORI=1TO25:PRINT"{GN}{RV}                    {RO}{CR} {CR}    {RV}                    {RO}";:NEXT
6 PRINT"     {WH}÷÷÷÷÷÷÷÷÷÷÷÷÷÷START÷÷÷÷÷÷÷÷÷÷{CU}{CU}"
7 PRINT"{CU}{CU}{CU}{CU}{CU}{CU}{CU}{CU}{CU}{CU}{CU}{CU}{CU}{CU}{CU}{CU}{CR}{CR}{CR}{CR}{CR}
{CR}{CR}{CR}{CR}{CR}{CR}{CR}{CR}{CR}{CR}{CR}{CR}{CR}-------"
8 PRINT"{CD}{CD}{CD}{CD}{CD}{CD}{CD}{CD}{CD}{CD}{CD}{CD}{CD}{CD}"
10 POKE 53265,PEEK(53265)AND247
15 V=53248:POKE2042,13:FORN=0TO63:READQ:POKE832+N,Q:NEXT:X=187
20 POKE V+4,X:POKEV+5, 0:POKEV+41,0
25 POKEV+42,4 :POKE2043,195:FORN=0TO63:READQ:POKE12480+N,Q:NEXT:POKEV+6,X
26 S=54272:FORL=0TO24:POKES+L,0:NEXT:POKES+24,15:POKES+6,240:POKES+3,1
27 POKES+4,65:F=600:H=INT(F/256):L=F-H*256:POKES,L:POKES+1,H
30 POKE V+7,0:POKEV+21,12:FOR P=125TO385:POKEV+5,P/5 :POKEV+7,P/5:NEXT:R=3000
35 FORT=1TO2:FORF=200TORSTEPF^1.2/10:H=INT(F/256):L=F-H*256:POKES,L:POKES+1,H
36 NEXT:R=2*R:NEXTT
38 POKES+7,224:POKES+8,46:POKES+12,26:POKES+14,200:POKES+19,26
40 POKES+1,10:F=0:POKES,F
45 U=TI
46 POKE1206,225:POKE1204,225:POKE55476,11:POKE55478,11 :POKES+11,33:POKES+18,21
50 POKE211,18:A=18
88 PRINT"{CU}"
90 GOSUB300
94 IFF<220THENF=F+8 :POKES,F
95 PRINT"{GN}{RV}                                {RO}{CU}"
96 IFTI>U+3600THENPOKE211,A:PRINT"{WH}{CL}{CL}{CL}{CL}{CL}÷÷÷÷÷FINISH÷÷÷÷÷":GOTO400
97 K=K+1
100 ON(INT (RND(0)*3 ))GOTO 110,120:GOTO130
110 IFPEEK(1930)=32 THENGOTO125
115 GOSUB300:A=A+1:POKE211,A:PRINT"{CL}{RV}f{RO}      f":GOTO140
120 IFPEEK(1905)=32 THENGOTO115
125 GOSUB300:A=A-1:POKE211,A:PRINT"^       {RV}^{RO}":GOTO140
130 GOSUB300:POKE211,A:PRINT"       ":GOTO140
140 GOSUB300
144 IFF<240THENF=F+8 :POKES,F
145 IFPEEK(53279)>0THENPOKE1063,81:K=K-5:F=0:FORP=0TO100:NEXT
150 GOTO90
300 J=PEEK(56320):J=(15-(JAND15))/4:ONJGOTO310,320
305 IFK>1THENPOKES+11,0:POKES+18,0:RETURN
306 RETURN
310 X=X-2:POKE V+4,X:POKEV+6,X:F=0:POKES+11,33:POKES+18,21:RETURN
320 X=X+2:POKE V+4,X:POKEV+6,X:F=0:POKES+11,33:POKES+18,21:RETURN
400 FORE=1TO21:PRINT:GOSUB300:FORW=1TO25:NEXTW:GOSUB300:FORW=1TO25:NEXT:GOSUB300
410 NEXTE:POKES+1,1:N=1 :FORP=83 TO500:POKEV+5,P/N:POKEV+7,P/N:N=N+.006
420 NEXT:POKES+24,0:PRINT"{CU}{CU}{CU}{CU}{CU}{CU}{CU}{CU}SCORE  ";:PRINTK*49
425 PRINT"{CD}{CD}PRESS ANY KEY TO RESTART"
430 GETA$:IFA$=""THEN430
440 RUN4
500 DATA 0,0,0,60,1,224,60,1,224,60,1,224,60,1,224,62,3,224,60,1,224,60,1
510 DATA 224,60,1,224,60,1,224,0,112,0,0,112,0,0,112,0,0,112,0,0,32,0,0,0,0,14
520 DATA 3,128,14,3,128,15,7,128,14,3,128,14,3,128,0,
550 DATA,0,0,248,0,1,252,0,1,252,0,1,252,0,1,252,0,1,252,0,1,252,0,1,252,0
560 DATA 1,140,0,1,140,0,1,140,0,1,140,0,1,220,0,0,248,0,0,248,0,0,248,0,0,248
570 DATA 0,0,248,0,0,248,0,0,112,0,0,0,0
```



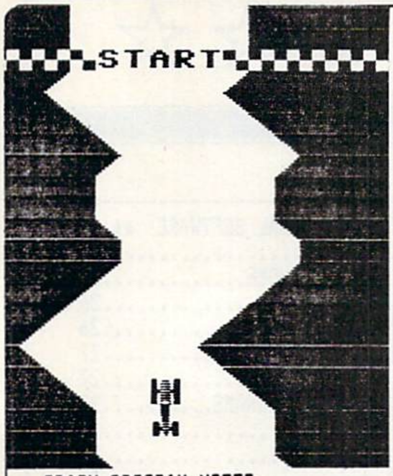
IN "CRASH", HANS GRAGE HAS PUT TOGETHER A PROGRAM WHICH CAN BE QUICKLY TYPED (FOR THOSE OF US WITH SHORT ATTENTION SPANS AT THE KEYBOARD) & WHICH ENCOMPASSES A NUMBER OF THE 64'S FEATURES INCLUDING SPRITES, SOUND, ANIMATION, JOYSTICK CONTROL, COLLISION PROCESSING, SCROLLING, RANDOM NUMBERS, AND MORE.

WHILE NOT LIKELY TO DIMINISH SALES OF "MOTOR MANIA", "CRASH" IS A GREAT LEARNING VEHICLE FOR THE NOVICE PROGRAMMER, AND A GOOD STARTING PLACE FOR A COMPLETE GAME. GO AHEAD; CHANGE THE SOUND, COLORS, SPEED, SHAPES, - ADD EXPLOSIONS & HAZARDS OF YOUR OWN DESIGN. IN FACT, SEND US A COPY WHEN YOUR DONE & IF IT'S ANY GOOD, WE MAY EVEN PUBLISH IT HERE IN A FUTURE ISSUE!



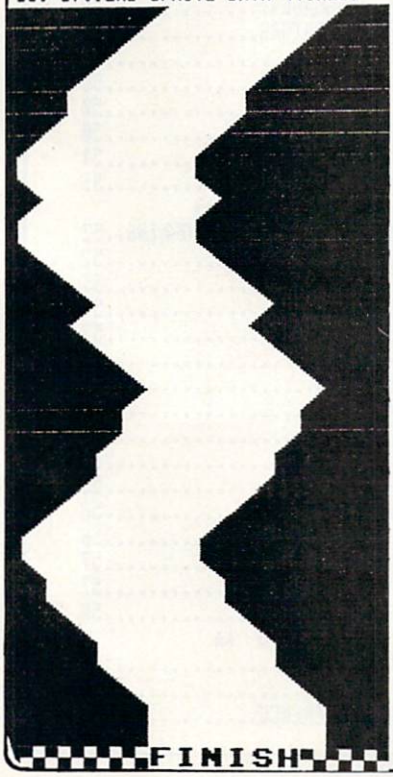
(CRASH HAS BEEN LISTED TWICE- ONCE IN SCREEN DUMP FORMAT, & ONCE TRANSLATED THRU CARDCO'S PRINTER INTERFACE. TYPE FROM THE LISTING THAT IS MOST COMFORTABLE FOR YOU, OR USE THEM BOTH.)

-EDITOR



CRASH PROGRAM NOTES

4-10....SET UP OPENING SCREEN
15-25...LOAD SPRITE DATA
26-27...SET SOUND REGISTERS
30-88...START RACE, INCLUDES:
30......MOVE UP CAR
35-36...REV-UP MOTOR
45......SET TIME OF START
46......BURN RUBBER
90-150..MAIN LOOP, INCLUDES:
96......CHECK FOR END OF RACE
100-144.DRAW RANDOM ROAD AT BOTTOM OF SCREEN & FORCE SCROLL
145.....DETECT IF CAR IS OFF RO ROAD AND PENALIZE
300-320.READ JOYSTICK, MOVE CAR
300-320.READ JOYSTICK, MOVE CAR AND CHANGE SOUNDS
400-440.FINISH OF RACE SEQUENCE
500-520.1ST SPRITE DATA (CAR)
550-570.2ND SPRITE DATA (TIRES)



```
4 POKE 53281,15:POKE53280,0:POKE53269,0:
PRINT"♥":POKE54296,0:K=0
5 FORI=1TO25:PRINT"▛▙                     ▬
▌▌  ▜                    ▬";:NEXT
6 PRINT"          ▙▚▚▚▚▚▚▚▚▚▚▚▚▚▚▚▚START▚▚▚▚▚▚▚
▚▚▚◻◻"
7 PRINT"◻◻◻◻◻◻◻◻◻◻◻◻◻◻◻◻◻◻▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮
▮▮--------"
8 PRINT"▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯"
10 POKE 53265,PEEK(53265)AND247
15 V=53248:POKE2042,13:FORN=0TO63:READQ:
POKE832+N,Q:NEXT:X=187
20 POKE V+4,X:POKEV+5, 0:POKEV+41,0
25 POKEV+42,4 :POKE2043,195:FORN=0TO63:R
EADQ:POKE12480+N,Q:NEXT:POKEV+6,X
26 S=54272:FORL=0TO24:POKES+L,0:NEXT:POK
ES+24,15:POKES+6,240:POKES+3,1
27 POKES+4,65:F=600:H=INT(F/256):L=F-H*2
56:POKES,L:POKES+1,H

30 POKE V+7,0:POKEV+21,12:FOR P=125TO385
:POKEV+5,P/5 :POKEV+7,P/5:NEXT:R=3000
35 FORT=1TO2:FORF=200TORSTEPF↑1.2/10:H=I
NT(F/256):L=F-H*256:POKES,L:POKES+1,H
36 NEXT:R=2*R:NEXTT
38 POKES+7,224:POKES+8,46:POKES+12,26:PO
KES+14,200:POKES+19,26
40 POKES+1,10:F=0:POKES,F
45 U=TI
46 POKE1206,225:POKE1204,225:POKE55476,1
1:POKE55478,11 :POKES+11,33:POKES+18,21
50 POKE211,18:A=18
88 PRINT"◻"
90 GOSUB300
94 IFF<220THENF=F+8 :POKES,F
95 PRINT"▛▙
      ▬◻"

96 IFTI>U+3600THENPOKE211,A:PRINT"▙▮▮▮▮▮▮
▚▚▚▚▚FINISH▚▚▚▚▚▚":GOTO400
97 K=K+1
100 ON(INT (RND(0)*3 ))GOTO 110,120:GOTO
130

110 IFPEEK(1930)=32 THENGOTO125
115 GOSUB300:A=A+1:POKE211,A:PRINT"▌▜◥▬
    ◥":GOTO140
120 IFPEEK(1905)=32 THENGOTO115
125 GOSUB300:A=A-1:POKE211,A:PRINT"◤
  ▜◤▬":GOTO140
130 GOSUB300:POKE211,A:PRINT"          ":GO
TO140
140 GOSUB300
144 IFF<240THENF=F+8 :POKES,F
145 IFPEEK(53279)>0THENPOKE1063,81:K=K-5
:F=0:FORP=0TO100:NEXT
150 GOTO90
300 J=PEEK(56320):J=(15-(JAND15))/4:ONJG
OTO310,320
305 IFK>1THENPOKES+11,0:POKES+18,0:RETUR
N
306 RETURN
310 X=X-2:POKE V+4,X:POKEV+6,X:F=0:POKES
+11,33:POKES+18,21:RETURN
320 X=X+2:POKE V+4,X:POKEV+6,X:F=0:POKES
+11,33:POKES+18,21:RETURN

400 FORE=1TO21:PRINT:GOSUB300:FORW=1TO25
:NEXTW:GOSUB300:FORW=1TO25:NEXT:GOSUB300

410 NEXTE:POKES+1,1:N=1 :FORP=83 TO500:P
OKEV+5,P/N:POKEV+7,P/N:N=N+.006
420 NEXT:POKES+24,0:PRINT"◻◻◻◻◻◻◻◻◻SCORE
";:PRINTK*49
425 PRINT"▯▯PRESS ANY KEY TO RESTART"
430 GETA$:IFA$=""THEN430
440 RUN4
500 DATA 0,0,0,60,1,224,60,1,224,60,1,22
4,60,1,224,62,3,224,60,1,224,60,1
510 DATA 224,60,1,224,60,1,224,0,112,0,0
,112,0,0,112,0,0,112,0,0,32,0,0,0,0,14
520 DATA 3,128,14,3,128,15,7,128,14,3,12
8,14,3,128,0,
550 DATA,0,0,248,0,1,252,0,1,252,0,1,252
,0,1,252,0,1,252,0,1,252,0,1,252,0
560 DATA 1,140,0,1,140,0,1,140,0,1,140,0
,1,220,0,0,248,0,0,248,0,0,248,0,0,248
570 DATA 0,0,248,0,0,248,0,0,112,0,0,0,0
```

PRODUCT ROUNDUP

WINTER '83

WHEN INFO-64 WAS FIRST CONCEIVED, AND SUBSEQUENTLY CREATED, OUR PURPOSE WAS TO HELP COMMODORE 64 ENTHUSIASTS FIND DECENT SOFTWARE AND OTHER PRODUCTS FOR THEIR MACHINES IN A WORLD DOMINATED BY OTHER PERSONAL COMPUTERS AND WHERE 64 PRODUCTS SEEMED SCARCE OR NON-EXISTENT. WE HOPE THE PREMIERE ISSUE FULFILLED THAT AIM, AND BY YOUR RESPONSE TO OUR HUMBLE FIRST OFFERING, WE SURMISE THAT IT DID.

IN THE 3 SHORT MONTHS SINCE INFO'S DEBUT, OUR MISSION HAS SUBSTANTIALLY CHANGED. THE PROBLEM, HAPPILY, FACING 64 USERS TODAY IS THE SUDDEN & OVERWHELMING AVALANCHE OF NEW PRODUCTS FOR A PERSONAL COMPUTER THAT HAS BECOME THE UNDISPUTED LEADER IN THE UNDER- $1000 ARENA!

IN THE FACE OF THIS "ELECTRONIC CORNUCOPIA", WE NO LONGER FEEL IT SERVES OUR READERS BEST FOR INFO-64 TO COLLECT EVERY POSSIBLE PRODUCT WITHIN THESE PAGES JUST BECAUSE IT HAS "FOR THE 64" STAMPED ON IT.

AND SO WE HAVE ADDED TO OUR EFFORTS THE GOAL (BEGUN IN THIS ISSUE, AND TO BE FURTHER DEVELOPED) OF SCREENING AS WELL AS COLLECTING PRODUCTS. WE THINK WE SHOULD BE ABLE TO HOLD THE ROUNDUP TO ABOUT 1000 OF THE BEST AND MOST INTERESTING PRODUCTS, ELIMINATING ONLY THOSE PRODUCTS WHICH REPRESENT OBVIOUS DUPLICATION (OUR FILES CONTAIN ABOUT 65 UNREMARKABLE MAILING LIST PROGRAMS WITH THE SAME BASIC DESCRIPTION AND PRICE - WE DON'T THINK YOU WOULD ENJOY READING THRU ALL THESE ANY MORE THAN WE DID- LET US KNOW IF WE'RE WRONG).

SOMETIMES A GREAT PRODUCT GETS OVERLOOKED. IF THE COMPANY DOESN'T SEND US INFORMATION OR SAMPLES, AND IF THEY ARE GETTING NO PUBLICITY ELSEWHERE, WE MAY COMPLETELY MISS WHAT THEY HAVE DONE. YOU CAN HELP OUT HERE BY WRITING US ABOUT ANY PRODUCTS NOT LISTED THAT YOU KNOW OF AND SEEM LIKE WORTHWHILE ADDITIONS.

HOW TO USE THE ROUNDUP >

PRODUCTS ARE ARRANGED BY CATEGORIES (SEE INDEX AT RIGHT). EACH PRODUCT TITLE IS ACCOMPANIED BY A 3-CHARACTER VENDOR CODE, A MEDIA ABREVIATION WHERE APPLICABLE (SEE LEGEND BELOW), PRICE, EXPECTED AVAILABILITY DATE, AND A RATING OF FROM ONE TO FIVE STARS (*). IF WE DON'T HAVE ONE OF THESE INFORMATION ITEMS, THE LETTERS "NA" WILL APPEAR INSTEAD. IF YOU WANT MORE INFORMATION ABOUT A PARTICULAR PRODUCT, USE THE 3- CHARACTER VENDOR CODE TO LOCATE THE VENDOR IN THE VENDOR ROUNDUP (BEGINNING ON PAGE 59).

LEGEND: (D)=DISK (T)=TAPE (R)=CARTRIDGE
(D/T)=DISK OR TAPE AVAILABLE
(T+D)=DISK VERSION INCLUDED ON TAPE
(R&D)=USES BOTH ROM AND DISK
Qn=FISCAL QUARTER (Q1,Q2,Q3,Q4)

RATINGS GUIDE >

★..........NOT WORTH MENTIONING (SO WE USUALLY DON'T)
★★........POOR: EITHER DOESN'T WORK RIGHT (SERIOUS BUGS), OR IS LACKING IN IMAGINATION, USEFULNESS, OR PERFORMANCE.
★★★......JUST FINE: NO SERIOUS BUGS, PERFORMS REASONABLY WELL - BUT NOTHING SPECIAL (THIS IS SOMETIMES A PRODUCT WHICH HAS BEEN DONE ENOUGH BY OTHERS, LIKE A PLAIN VANILLA MAILING-LABEL PROGRAM, OR SOME BLAST-'EM ARCADE GAMES)
★★★★....VERY GOOD: PROFESSIONAL, SOLID, CREATIVE, STANDS APART.
★★★★★..UNUSUALLY OUTSTANDING!: A LEADER IN ITS CATEGORY.

(PLUS AND MINUS SIGNS INDICATE SLIGHTLY HIGHER AND LOWER JUDGEMENTS, RESPECTIVELY)

WE DON'T RECOMMEND BUYING ANYTHING RATED BELOW 3 STARS- THERE'S TOO MUCH GOOD STUFF OUT THERE TO SETTLE FOR LESS.

ONLY PRODUCTS ACTUALLY TESTED BY INFO-64 OR OUR CONTRIBUTORS ARE RATED - OTHER PRODUCTS SHOW "NA" (NOT AVAILABLE) IN PLACE OF STARS.

☆ ☆ ☆ ☆ ☆

INDEX

CATEGORY PG
========------------------------------==

** BUS./PERSONAL SOFTWARE **

BUSINESS ACCOUNTING..................25
INTEGRATED BUSINESS/HOME.............25
PERSONAL FINANCES....................26
TAX PACKAGES.........................26
CHECKBOOK MANAGEMENT.................27
LOANS AND INVESTMENTS................27
MISCELLANEOUS HOME PROGRAMS..........27
SPREADSHEETS.........................28
WORDPROCESSING.......................28
SPELLING CHECKERS....................30
DATABASE MANAGEMENT..................30
MAILING LIST.........................31
GENERAL LIST AND FILING..............32
MISC. BUSINESS/PERSONAL..............32

** EDUCATION/ARTS **

CLASSROOM ADMINISTRATION.............33
TYPING & KEYBOARD MASTERY............33
PROGRAMMING INSTRUCTION..............34
GENERAL EDUCATION....................34
ADVANCED MATH AND SCIENCE............40
EDUCATIONAL COLLECTIONS..............40
GRAPHICS.............................41
PLOTTING & PRINTER GRAPHICS..........42
SPRITE / CHARACTER GRAPHICS..........42
MUSIC................................42
PERSONAL ENRICHMENT/SELF-DISCOVERY...43
MISCELLANEOUS........................43

** RECREATION **

ARCADE & ACTION GAMES................44
STRATEGY/SIMULATION/PARLOR/& CASINO..46
GAME COLLECTIONS.....................47
TEXT ADVENTURE GAMES.................47
GRAPHIC ADVENTURE GAMES..............48
OTHER GAMES..........................48

** OTHER SOFTWARE **

PROGRAMMING: LANGUAGES...............48
APPLICATIONS GENERATORS..............49
EXTENSIONS TO BASIC..................49
PROGRAMMING ENVIRONMENT..............50
COMPILERS............................50
COPY & BACKUP PACKAGES...............50
MISC. UTILITIES......................51
TELECOMPUTING........................51

** HARDWARE **

MULTI-PURPOSE INTERFACES/NETWORKING..52
A/D-D/A-DATA ACQUISITION.............52
STANDARD INTERFACES..................53
VIDEO ENHANCEMENT....................53
EXPANSION BOARDS.....................53
OTHER INTERFACES.....................53
PRINTER INTERFACES...................54
MASS-STORAGE.........................54
SENSORY PERIPHERALS..................55
MODEMS...............................55
USER INPUT DEVICES...................55
CABLES/GADGETS/MISCELLANY............56
FURNITURE & ENCLOSURES...............56
DOT MATRIX PRINTERS..................57
DAISYWHEEL PRINTERS..................57
DISPLAYS.............................58

** INFO **

INFORMATION SERVICES.................58
MAGAZINES............................58
BOOKS & MISC. REFERENCE..............58

BUSINESS ACCOUNTING >

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

====>>THE MANAGEMENT ACCOUNTING SYSTEM SERIES (MAS) FROM INFO DESIGNS (IDC) IS VERY THOROUGH AND PROFESSIONAL WITH EXTENSIVE REPORTING CAPABILITIES AND EXCELLENT DOCUMENTATION. ALL MODULES CAN PASS AND SHARE THE SAME DATA AND LINK TOGETHER THRU A MASTER MENU ROUTINE. THE FIVE MODULES BELOW ORIGINALLY RETAILED FOR $200 EACH. SINCE THEN MANY IMPROVEMENTS HAVE BEEN MADE (NOT THE LEAST OF WHICH IS THE NEW PRICING).

COMMODORE NOW OFFERS A VERSION OF THE INFO DESIGNS SERIES (IDC) LISTED BELOW. PRICED AT ABOUT $50 PER MODULE. THE COMMODORE VERSIONS ARE ESSENTIALLY THE SAME PRODUCTS WITH SOME REDUCTIONS IN MAXIMUM CAPACITIES

GENERAL LEDGER
IDC.........(D)..........79.95..........NOW..****
ACCOUNTS RECEIVABLE/BILLING
IDC.........(D)..........79.95..........NOW..****
ACCOUNTS PAYABLE/CHECKS
IDC.........(D)..........79.95..........NOW..****
INVENTORY
IDC.........(D)..........79.95..........NOW..****
PAYROLL
IDC.........(D)..........79.95..........NOW..****
TOTL.BUSINESS 3.6
TOT.........(D)..........95.00..........NOW..****
INTEGRATED SMALL-BUS. ACCOUNTING PACKAGE: A/R / A/P / INVENTORY / INVOICES / STATEMENTS / PURCASE ORDERS. NO GENERAL LEDGER. BUT EVERYTHING ELSE YOU NEED TO GET THE JOB DONE. WELL DOCUMENTED WITH MANY CONVENIENCE FEATURES.

GENERAL LEDGER
TEX.........(D).........129.95..........NOW..NA
PAYROLL SYSTEM
TEX.........(D).........129.95..........NOW..NA
ACCOUNTS PAYABLE
TEX.........(D).........129.95..........NOW..NA
ACCOUNTS RECEIVABLE
TEX.........(D).........129.95..........NOW..NA
CLIENT ACCOUNTING
TEX.........(D).........229.95..........NOW..NA
GA 1600 ACCOUNTING
DES.........(D).........395.00..........NOW..NA
COMBINED G/L, A/R, A/P: 2 DRIVES REQUIRED.
ASSORTED BOOK AND RECORD KEEPING
SOU.........(D)....(most under 100.00)..NOW..NA
INVENTORY PACKAGE
MSP.........(D).........99.95..........NOW..NA
FULL-FEATURED INVENTORY PACKAGE.
PAYROLL SYSTEM
MSP.........(D).........99.95..........NOW..NA
GENERAL LEDGER
MSP.........(D).........99.95..........NOW..NA
UP TO 75 ACCOUNTS.
INVENTORY
LUN.........(D).........49.95..........NOW..NA
INVENTORY
WRO.........(?).........30.00..........NOW..NA
GENERAL LEDGER
AAR.........(D).........69.95..........NOW..NA
INSTA-LEDGER
CIM.........(NA)........NA.............NA...NA
CYBER-FARMER
CYB.........(D).........195.00.........NOW..NA
GENERAL LEDGER / INVENTORY / BUDGET ANALYSIS / CASH FLOW / DEPRECIATION / LOAN MANAGEMENT

DATABOOKS
DMI.........(D).........395.00..........NA...NA
G/L A/R A/P BILLING, INVOICING. SINGLE DRIVE SYSTEM. MENU DRIVEN / WILL MERGE WITH THEIR DBMS (AVAILABLE LATER THIS YEAR) / INCLUDES COUPON FOR FREE INVENTORY MODULE / PASSWORD- PROTECTION / UNIQUELY PACKAGED IN BRIEFCASE WHICH ORGANIZES MANUALS, PAPERWORK, RECORDS & DISKETTES.

ACCOUNTS RECEIVABLE/PAYABLE
ECP.........(NA)........21.95..........NA...NA
THE ACCOUNTANT (G/L B/S P&L)
ECP.........(NA)........29.95..........NA...NA
INVOICE EASE 64
ENT.........(NA)........39.00..........NA...NA
SUPERBYTE BUSINESS PAK
POW.........(D).........100.00..........NA...NA
INCLUDES: G/L / INCOME STATEMENT / BALANCE SHEET, A/R, A/P, WORDPROCESSOR / SPREADSHEET / INVENTORY / CHECKBOOK MAINTENANCE / MAILLIST / 6 UTILITIES

==>> THE FOLLOWING ARE MODULES IN A SERIES WHICH ARE ALL: PASSWORD PROTECTED / MENU-DRIVEN / STAND-ALONE OR INTEGRATABLE WITH THE OTHER MODULES / FLEXIBLE REPORTING:

GENERAL LEDGER
TMW.........(D).........99.00..........NA...NA
CASH FLOW MANAGEMENT
TMW.........(D).........99.00..........NA...NA
PAYROLL MANAGEMENT
TMW.........(D).........99.00..........NA...NA
ACCOUNTS PAYABLE AND CHECKS
TMW.........(D).........99.00..........NA...NA
ACCOUNTS RECEIVABLE AND INVOICING
TMW.........(D).........99.00..........NA...NA
SALES ANALYSIS MANAGEMENT
TMW.........(D).........99.00..........NA...NA
INVENTORY MANAGEMENT
TMW.........(D).........99.00..........NA...NA

NEW ADDITIONS

MANAGEMENT SYSTEM 64
ENT.........(D).........69.95..........NA...NA
INTEGRATED BUSINESS PACKAGE: CALCULATES AND PRINTS INVOICES, PACKING SLIPS, MAILING LABELS/ TRACKS INVENTORY/ GENERATES RELATED REPORTS.
BUSINESS PACK
LOE.........(D).........179.95..........NA...NA
SINGLE-DISK ACCOUNTING SYSTEMS COVERS: RECEIVABLES, INVENTORY, SALES, INVOICING/ INCLUDES SPREADSHEET ROUTINES.

INTEGRATED BUSINESS/HOME >

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

====>> THE FOLLOWING 5 MODULES CAN BE USED STAND- ALONE OR LINKED IN VARIOUS COMBINATIONS.

FINANCE I
PGI.........(D/T).......39.95/34.95.....NOW..****
CHECKBOOK MAINTENANCE / CHART OF ACCOUNTS / CHECK SEARCH / CHECK WRITER
FINANCE II
PGI.........(D/T).......29.95/24.95.....NOW..****
NET WORTH/INCOME/EXPENSE STATEMENTS / DETAIL AND SUMMARY BUDGET ANALYSIS
FINANCE III
PGI.........(D/T).......29.95/24.95.....NOW..***
PAYMENTS CALENDER / APPOINTMENTS CALENDAR / MAILING LIST / COLOR GRAPH DESIGN PACKAGE

INT. BUS./HOME (CONTD.) >

FINANCE IV
PGI.........(D/T).......29.95/24.95.....DEC..NA
SPREADSHEET: COMPATIBLE WITH FINANCE I, II, & V.

FINANCE V
PGI.........(D/T).......59.95/54.95.....DEC..NA
INCOME TAX PACKAGE: PRINTS FORMS, HANDLES MOST SCHEDULES/ USES FINANCE I, II, & IV.

COMPLETE PERSONAL ACCOUNTANT (FORMERLY 'COLOR ACCOUNTANT)
PGI.........(D/T).......79.95/74.95.....NOW..****
INCLUDES ABOVE MODULES I THRU III: A SOLID SET OF PERSONAL FINANCE TOOLS/ INCLUDES A UNIQUE SELF-RUNNING DEMONTRATION PROGRAM ON THE FLIP-SIDE OF THE DISKETTE WHICH MAKES FIRST-TIME FAIRLY PAINLESS (WE WOULD LIKE TO SEE MORE OF THIS TYPE OF BUILT-IN TRAINING AID INCLUDED WITH 'SERIOUS' SOFTWARE.) SEE COMPLETE REVIEW ELSEWHERE THIS ISSUE.

BUDGETEER
ABA.........(T/D).......19.95/22.95.....NOW..NA
PART BUDGET MANAGER, PART SPREADSHEET. PRODUCES BAR CHARTS OF MONTHLY TOTALS AND AVERAGES. ALLOWS 999 COLUMNS BY 99 ROWS FOR WORKSHEET

NEW ADDITIONS

JANE
ARK.........(NA)........NA..............FEB..NA
MOUSE & ICON-BASED INTEGRATED SYSTEM: WORDPROCESSING, SPREADSHEET, FILING/ 'ALL ON ONE SCREEN AT THE SAME TIME'. WILL THIS BE THE 64-USER'S SCALED-DOWN ANSWER TO LOTUS' 1-2-3??

MAGIC DESK I
CBM.........(R).......<100.00...........NOW..NA
ICON-BASED 'SHELL' PACKAGE THAT WILL HELP THE USER ACCESS AND TRAVEL BETWEEN APPLICATIONS IN A MORE 'FRIENDLY' WAY THAN IS NOW USUALLY THE CASE. MAGIC DESK I INCLUDES WORDPROCESSING AND FILING FUNCTIONS/ MORE FUNCTIONS ARE SCHEDULED TO COME LATER ON ADDITIONAL CARTRIDGES.

SMART
DEE.........(D).........NA..............NA...NA
INCLUDES SIMPLIFIED WORDPROCESSING/ MONEY MANAGEMENT/ LOAN & SAVINGS ANALYSIS/MAIL LIST/ HOME INVENTORY/ TIME MGMNT CALENDAR & SCHEDULING/ ALL LOAD FROM ONE MENU

SUPERBYTE BUSINESS PACK
SPB.........(D).......100.00............NA...NA
INCLUDES: GL/ AR/ AP/ WORDPROCESSOR/ SPREADSHEET/ INVENTORY/ CHECKBOOK MNGR/ MAIL LIST/ & 6 UTILITY PROGRAMS

THE TRILOGY SERIES
TRI.........(NA)........NA..............NA...NA
FILING/ SPREADSHEET/ WORDPROCESSING

PERSONAL FINANCES >

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

HOME ACCOUNTANT
CON.........(D).........79.95...........NOW..**+
THIS COULD BE AN EXCELLENT PACKAGE, AND INDEED, IS HIGHLY THOUGHT OF IN ITS FORMATS FOR OTHER MICROS. UNFORTUNATELY, THE PRODUCT WAS RUSHED IN ITS CONVERSION TO THE 64 AND, IN ITS PRESENT CONDITION, CAN NOT BE RECOMMENDED. THE MOST SERIOUS PROBLEMS ARE THE SLOW DISK-ACCESSING ROUTINES WHICH RESULT IN UNACCEPTABLY LONG DELAYS DURING ROUTINE PROCESSING. (SEE COMPLETE REVIEW THIS ISSUE)

PERSONAL FINANCE ASSISTANT
RAI.........(NA)........59.95...........NA...NA

PERSONAL FINANCE 1
SPE.........(T).........19.95...........NA...NA
G/L & EXPENSE REGISTER- MENU DRIVEN

BUDGET AID
MIQ.........(NA)........69.95...........NA...NA
MENU DRIVEN / CHART OF ACCOUNTS / USER-DEF CATEGORIES / CHECKBOOK W/RECONCILIATION / COLOR GRAPH ANALYSIS

THE MONEY MANAGER (BUDGET AND CASH FLOW SYSTEM)
TM2.........(D/T).......24.95...........NOW..NA

HOME FINANCE MANAGER
SWC.........(D).........59.95...........NA...NA
BUDGETING / 3-ACCT CHECBOOK / DEDUCTION FLAGS / CHARTS & GRAPHS

FAMILY FINANCES
SOP.........(D).........33.95...........NA...NA
MENU-DRIVEN / BUDGETING / EXPENSES AND INCOME / CHECKBOOK MGR. / SUMMARIES & JOURNALS

CCI BOTTOM LINER
CCI.........(D).........98.75...........NOW..NA
HELPS FAMILIES OR SMALL BUSINESS CONSOLIDATE A WIDE RANGE OF INCOME AND EXPENSES. SUMMARIES GENERATED CAN BE USED FOR PROFIT- LOSS AND NET WORTH STATEMENTS AS WELL AS TAX DATA

LEDGER
MWS.........(D).........29.95...........NOW..NA
300 TRANSACTIONS / UNLIMITED ACCOUNTS

HOUSEHOLD FINANCE
CRE.........(D/T).......39.95/29.95.....NA...NA

ACCOUNT-MASTER
RAY.........(D/T).......24.95/24.95.....NOW..NA

NEW ADDITIONS

PERSONAL FINANCE FORECASTER
XAN.........(NA)........NA..............NA...NA
THIS PACKAGE EMPHASIZES THE FUTURE BASED ON DATA FROM THE PAST & PRESENT. GENERATES GRAPHS AND REPORTS FOR A WHAT-IF LOOK AT YOUR FUTURE FINANCES.

COMP-U-CHECK
HOT.........(D).........64.95...........NA...NA
CHECK WRITING/ ACCOUNT BALANCING/ UNLIMITED BUDGET CATEGS./ CREDIT ACCOUNTS/ AUTO-TELLER TRANSXS/ TAX SUMMARIES/ SUPPORTS ALL PRINTERS & INTERFACES. ALSO INCLUDES SIMPLE WORDPROCESSING FEATURES.

BUDGET AIDE
MIQ.........(NA)........69.95...........NA...NA
MENU-DRIVEN/ CHART OF ACCOUNTS/ CHECKBOOK WITH RECONCILIATION/ COLOR GRAPH ANALYSIS OF BUDGET MANAGEMENT.

THE FINANCIAL ASSISTANT
GAL.........(D).........49.95...........NA...NA
50 ACCOUNTS/ 100 CATEGORIES/ 3200 ENTRIES PER DISK/ SEARCH-SORT ON ANY FIELD/ REPORTS TO WIDE VARIETY OF PRINTERS.

BILLWRITER/SUMMARY
UHL.........(T).........29.95...........NA...NA
HOME ACCOUNTING & CHECK-WRITING/ PRINTS CHECKS ON REGULAR PRINTER PAPER.

TAX PACKAGES >

TAX HANDLER
PGI.........(T/D).......34.95/39.95.....1-84.NA
(1040, sched. A, sched. G)

TAX-MAN
SAU.........(D/T).......39.95...........NA...NA
COMPUTES TAX TABLE / SCHEDS X,Y,Z / INCOME AVERAGING / W/PRINTER FORMS

GATOTAX
GAT.........(T).........NA..............'84..NA

TAX HELPER
MAG.........(D/T).......NA..............'84..NA

STOCK PORTFOLIO MANAGER
BAB.........(D/T).......34.95/29.95.....NA...NA

STOCK HELPER (TRACK AND ANALYZE STOCKS)
MAG.........(NA)........NA..............NA...NA

TAX PACKAGES (CONTD.) >

NEW ADDITIONS

SUPERTAX (I, II, & III)
RDC.........(D)........$79/89/99........NA...NA
I: GENERATES SUMMARIES OF PAGE 1 & 3 AND SCHED. A. PRINTS OVERALL SUMMARY OF RETURN SHOWING ADJUSTED GROSS INCOME, ITEMIZED DEDUCTIONS, TAXABLE INCOME, REG. TAX, INCOME AVERAGING TAX, MIN. TAX, & PAYMENT OR REFUND DUE. ALSO COMPUTES: MOVING EXPENSE DEDUCTION, INVESTMENT CREDIT, TAXABLE CAPITAL GAINS, POLITICAL & CHILDCARE CREDITS, MEDICAL LIMITATIONS, & MORE. (SUPERTAX I IS ALSO AVAILABLE ON CASSETTE)
II: ALL FEATURES OF ABOVE BUT PRINTS ACTUAL INCOME TAX RETURN (PAGE 1, 2, SCHEDS. A, B, & G, FORM 3468) ON GOVERNMENT FORMS (WITH FRICTION-FEED PRINTERS) OR BLANK PAPER FOR USE WITH TRANSPARENCIES.
III: ALL FEATURES OF ABOVE TWO MODULES PLUS CALCULATES AND PRINTS SCHED. C ALONG WITH A STAND-ALONE DEPRECIATION PROGRAM.

THE TAX ADVANTAGE
CON.........(D).........59.95..........DEC..NA
HELPS WITH 1040 FORM/ SCHEDULES A,B,C,D,E,G,SE,4562, AND W. INCOME AVERAGING. HELP SCREENS.

FINANCE 5
PGI.........(D/T).......59.95/54.95.....DEC..NA
PRINTS FORMS/ MOST SCHEDULES/ USES DATA FROM PRGRAMMER'S INSTITUTE'S (PGI) HOME FINANCE PROGRAMS.

TAX FILE
S&G.........(D/T).......19.95/14.95.....NA...NA
ORGANIZES TAX DATA FROM 23 CATEGORIES/ DOES NOT PRINT FORMS.

CHECKBOOK MANAGEMENT >

CHECKBOOK MANAGER
MSP.........(D).........69.95...........NOW..NA

VICHECK
UMI.........(T&D).......29.95...........NOW..***
CHECKBOOK MANAGER WITH PRINTER OPTIONS

64 CHECKBOOK MANAGER
DES.........(D/T).......40.00/35.00.....NOW..NA

INSTA-CHECK
CIM.........(NA)........NA..............NA...NA

64 CHECKBOOK MANAGER
BSS.........(D/T).......39.95/34.95.....NOW..NA
PASSWORD PROTECTED / 250 CHECKS PER FILE / 100 DEPOSITS / 50 ACCOUNT CHARGES

64 CHECHBOOK MANAGER
DES.........(D/T).......40.00/35.00.....NOW..NA
PASSWORD PROTECTED / 400 CHECKS PER FILE / 200 DEPOSITS / 100 ACCOUNT CHARGES

CHECKBOOK ACCOUNTING ('UNLIMITED CHECKBOOK')
MIQ.........(NA)........24.95...........NA...NA

CHECKBOOK BALANCER (250 CHECK CAPACITY)
GAT.........(T).........9.95............NOW..NA

CHECK MANAGER
GOS.........(T).........29.95...........NOW..NA

CHECKBOOK BALANCER
GTR.........(T).........10.00...........NA...NA

CHEC K HELPER
MAG.........(D/T).......NA..............NOW..NA

CHECKEASE
T&F.........(D/T).......34.95/29/95.....NA...NA
OVER 600 CHECKS / INTERFACES WITH COMMODORE'S 'PERSONAL FINANCE' / RECONCILIATIONS / FORWARD & REVERSE REVIEW / DEDUCTABLE FLAGGING / PRINT BY CATEGORY

LOANS & INVESTMENTS >

LOAN ANALYZER
CRE.........(D/T).......19.95/14.95.....NOW..NA

LOAN CALC
FAN.........(D/T).......11.95/9.95......NA...NA

AMORTIZATION PROGRAM
INP.........(D).........30.00...........NOW..NA

NEW ADDITIONS

EASY FINANCE (I-V)
CBM.........(D)........<20.00.EACH......NOW..NA
SERIES OF FIVE LOAN AND INVESTMENT ANALYSIS PACKAGES: I-LOAN ANALYSIS/ II-BASIC INVESTMENT ANALYSIS/ III-ADVANCED INVESTMENT ANALYSIS/ IV-BUSINESS MANAGEMENT/ V-STATISTICS & FORECASTING.

THE INVESTORS PAK
USE.........(D).........39.95...........NA...NA
25 BUSINESS & INVESTMENT PROGRAMS IN REAL ESTATE, MORTGAGES, BONDS, LOANS, SHELTERS ETC.

HOME MATH ANALYZER
UHL.........(D).........19.95...........NA...NA
ANALYZES HOME LOANS, SAVINGS, AND SIMPLE STATISTICAL DATA.

HOW TO MAKE GOOD INVESTMENTS
TWZ.........(T).........39.95...........NA...NA
COMBINED 50 PAGE TEXT & PROGRAM CASSETTE DESIGNED TO INSTRUCT THE BEGINNING OR OCCASIONAL INVESTOR.

BEC
LAW.........(D/T).......89.95/79.95.....NA...NA
DESIGNED TO HELP THE ENTREPRENEUR FIND BREAK-EVEN POINT FOR NEW PRODUCT. COMPUTES TOTAL FIXED COSTS, VARIABLE COSTS, & SALES REVENUE AT BREAK-EVEN POINT.

INVESTMENT PORTFOLIO MANAGER
B&B.........(D).........14.95...........NA...NA
TRACKS STOCKS AND STOCK OPTIONS/ REPORTS ON 9 INVESTMENT CATEGORIES.

MISC. HOME PROGRAMS >

INSTA-SCHED
CIM.........(NA)........NA..............NA...NA

PERPETUAL CALENDAR
GTR.........(NA)........10.00...........NA...NA

THE MONTHLY MANAGER (TIME & BUDGET MGR.)
COC.........(NA)........29.95...........NA...NA

RECIPE BOX
ARI.........(D).........19.95...........NA...NA
MENU-DRIVEN 'KITCHEN DATA BASE': SEARCH BY INGREDIENT / SEARCH BY CATEGORY / SEARCH BY BOTH / MEASUREMENT & SERVING CALCULATIONS / DUMP TO PRINTER

DECISION MAKER
CRE.........(D/T).......19.95/14.95.....NOW..NA

CAR COSTS
CRE.........(D/T).......19.95/14.95.....NOW..NA

HOME INVENTORY SYSTEM
GAT.........(T).........9.95............NOW..NA

HOME INVENTORY
CRE.........(D/T).......19.95/14.95.....NOW..NA

HOME INVENTORY
MIQ.........(NA)........29.95...........NA...NA

UTILITY TRACKER & FORECASTER
MIQ.........(NA)........29.95...........NA...NA

NEW ADDITIONS

C*A*R*S
NLI.........(D/T).......27.50/24.50.....NA...NA
GRAPH & MONITOR CAR COST & EFFICIENCY/ INCLUDES INSURANCE, PAYMENTS, TAXES, LICENSE FEES & REPAIRS/ PRINTED OR SCREEN REPORTS.

MISC. HOME (CONTD.) >

ACTI-TRIP/ACTI-SPEND/ACTI-MENU

SEI.........(NA).......24.95...........NA...NA

3 PROGRAMS IN ONE PACKAGE: TRIP PLANNING, SPENDING, & MENU (FOOD) PLANNING.

COMPUTER MECHANIC

SFS.........(D/T).......26.95/21.95.....NOW..NA

ANALYZES WIDE RANGE OF SYMPTOMS BASED ON USER INPUT: TROUBLE-SHOOTING GUIDE / GENERATES MAINTENANCE SCHEDULES/ HI-RES GRAPHICS SHOW CAR LOCATIONS BEING REFERED TO

64 PAK

CSA.........(NA)........NA..............NA...NA

TEN-PROGRAM BUNDLE FOR THE WHOLE FAMILY: 'FLASH CARDS' USER-DEFINED FLASH CARDS FOR DRILLS ON MATH, VOCAB ETC. / 'SPEED READ' RE-TYPE PHRASES (USER-DEFINABLE) FLASHED BRIEFLY ON THE SCREEN / 'SIGN TALK' TEACHES THE SIGNING HAND-CODE OF THE HEARING-IMPAIRED / 'LIFE EXPECTANCY' / 'PERPETUAL CALENDAR' DISPLAY ANY MONTH FROM B.C. TO 9999 A.D. / 'WORLD CLOCK' / 'STATES & CAPITALS' / 'MORTGAGE CALCULATOR' / 'BIG TIME' LARGE ON-SCREEN COLOR DIGITAL CLOCK / 'CASH REGISTER' SHOPPING SIMULATION TEACHES CHILDREN TO MAKE CHANGE.

SPREADSHEETS >

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

CALC RESULT

BSS.........(R+D)......149.95...........NOW..****+

3-DIMENSIONAL SPREADSHEET SUPPORTS SPLIT SCREENS/ WINDOWS/ COLOR GRAPHING/ EXTENSIVE HELP SCREENS/ COMPLEX FORMULAS. SEARCH & SORT ROUTINES WOULD MAKE THIS POWERFUL PACKAGE 'PERFECT' (SEE REVIEW FALL ISSUE)

PRACTICALC

CSA.........(D/T).......54.95/49.95.....NOW..****

EASY TO USE SPREADSHEET. SEARCHING & SORTING FEATURES ADD EXTRA VALUE HERE.

SPREADSHEET ASSIST

RCC.........(NA).......125.00...........NA...NA

BUSICALC 1

SEW.........(NA)........69.00...........NOW..NA

INSTA-CALC

CIM.........(NA)........NA..............NOW..NA

FINANCE CALC

ENT.........(NA)........69.00...........NA...NA

BCALC

MTS.........(D/T).......44.95/39.95.....NOW..NA

NEW ADDITIONS

MICROSOFT MULTIPLAN
For Commodore 64

MULTIPLAN

HES.........(D).........99.95...........NOW..NA

MICROSOFT'S POPULAR ADVANCED SPREADSHEET PACKAGE IS NOW AVAILABLE FOR THE 64 AT A FRACTION OF ITS ORIGINAL PRICE AND WITH MOST OF ITS ORIGINAL POWER. SINCE MICROSOFT HAS TAKEN H.E.S. UNDER ITS WING, WE CAN LOOK FORWARD TO MANY MORE EXCELLENT OFFERINGS FOR THE 64!

OMNICALC

HES.........(R).........49.95...........NOW..NA

PS: THE PROGRAMMABLE SPREADSHEET

CSA.........(D).........79.95...........NOW..NA

ADVANCED SPREADSHEET USES THE PROGRAMMABILITY OF BASIC TO ALLOW COMPLEX OPERATIONS IN A SPREADSHEET FORMAT.

JANECALC

ARK.........(NA)........NA..............FEB..NA

SPREADSHEET PART OF 'JANE', A MOUSE-BASED INTEGRATED SOFTWARE BUNDLE.

BUSICALC 2

SEW.........(NA)........99.00...........NOW..NA

ESP>CALC

NLI.........(D/T).......47.50/43.50.....NA...NA

WORDPROCESSING >

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

WORDPRO 3 PLUS/64 (NOW INCLUDES SPELLRIGHT PLUS)

PRO.........(D).........99.95...........NOW..****

SOLID, FULL-FEATURED, AND A STANDARD OF THE INDUSTRY. WIDELY SUPPORTED BY OTHER VENDORS' PRODUCTS. COMPLETE WITH ALL USUAL FEATURES PLUS TRUE GLOBAL SEARCH/ SEARCH & REPLACE (THRU ENTIRE DISK IF DESIRED), LINKED DOCUMENTS FOR UNLIMITED LENGTH, NUMERICS, AND COMPATIBILITY WITH SEVERAL OTHER MAJOR PRODUCTS. THE ONLY FEATURES LACKING ARE ON-SCREEN FORMATTING, & MULTI-COLUMN CAPABILITY. (NOW INCLUDES 'SPELLRIGHT' (FORMERLY 'SPELLMASTER') WHICH SOLD FOR $89.95 BY ITSELF UNTIL RECENTLY. 'SPELLRIGHT' IS AN 18,000-WORD SPELLING-CHECKER WITH ROOM FOR 1500 ADDITIONAL USER-ENTERED WORDS.)

SCRIPT 64

RTC.........(D)........139.95...........NOW..****

FULL-FEATURED WITH SEARCH & REPLACE, NUMERICS, SCREEN FORMATTING, AND DICTIONARY SOFTWARE BUILT IN (YOU MUST BUILD THE VOCABULARY YOURSELF. SUPPORTS 80 COLUMNS WITH RICHVALE'S NEW COLOR-80 SOFTWARE (SEE VIDEO ENHANCEMENTS SECTION)

EASY SCRIPT
commodore 64
Easy Script
Word Processing
commodore

EASY SCRIPT

CBM.........(D)........<40.00...........NOW..****

RANGE OF CAPABILITIES SIMILAR TO WORDPRO 3 PLUS-FEATURES ON-SCREEN FORMATTING AND HORIZONTAL SCROLLING.

TOTL.TEXT 2.6

TOT.........(D/T).......44.00/40.00.....NOW..***+

WRITTEN SKILLFULLY IN BASIC WITH MACH. LANG. SUBROUTINES FOR INCREASED SPEED. FEATURES INCLUDE MERGING OF LABELS CREATED WITH TOTL.LABEL 2.6 FOR FORM LETTERS ETC. MENU-DRIVEN. NO SEARCH & REPLACE. CAN BE USED WITH TOTL'S NEW TOTL.SPELLER 3.6 FOR 'ELECTRONIC PROOFREADING'.

WORD MACHINE/NAME MACHINE

CBM.........(D).........19.95...........NOW..***

YOU GET A MINI WORDPROCESSOR AND MENU-DRIVEN MAILING LIST PROGRAM SUITABLE FOR LIGHT-WEIGHT LETTER WRITING AND MAILINGS. DEFINITELY WORTH THE MONEY IF THIS IS ALL YOU NEED. ALSO INCLUDED ARE DOS 5.1 AND A NICE PROGRAM THAT WILL ADD A 'SMART' DIRECTORY MENU TO ANY OF YOUR DISKETTES.

HESWRITER 64

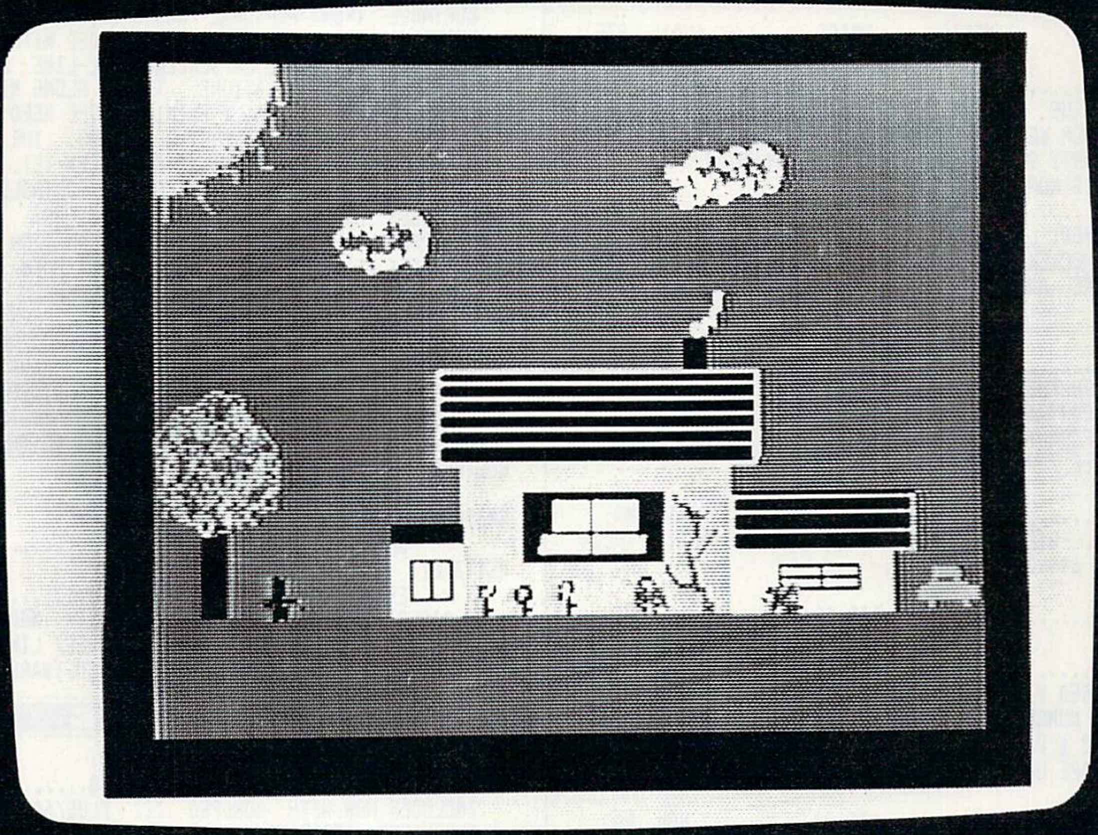
HES.........(R).........44.95...........NOW..***-

CARTRIDGE-BASED WORDPROCESSOR.

WORDPRO 1 PLUS/64

PRO.........(T).........39.95...........NA...NA

(WORDPRO 'JUNIOR' ON TAPE / SIMILAR FEATURES MINUS GLOBAL ROUTINES.)



SOPHISTICATED SOFTWARE
OF AMERICA™
PRESENTS

GRAFIX–ARTIST™
(Commodore 64™ version)

THE LATEST IN EDUCATIONAL GRAPHICS SOFTWARE
DESIGNED WITH THE CONSUMER IN MIND

CREATE EXTRAORDINARY
COLOR - GRAPHICS
USING THE:

- Joystick Mode ● Program Mode
- Program to Picture Utility (for your Basic or Machine - language programs)

GRAFIX-ARTIST™ provides comprehensive
● Reference Card ● Help Screens ● Introduction Tutorial ● Demo's

NO COMPUTER EXPERIENCE IS NECESSARY

Children, parents, artists, educators will enjoy the ease-of-use and options GRAFIX-ARTIST™ provides.

NOW AVAILABLE: GRAFIX - PRINTER™

Dealer and Distributor Inquiries Invited

198 Ross Rd
King of Prussia, PA 19406
(215) 265-2277

*Registered trademark of Commodore Business Machines, Inc.

WORDPROCESSING (CONT'D.) >

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

PAPER CLIP

BAT.........(D/T)......125.00...........NOW..NA

THIS HAS THE LONGEST LIST OF FEATURES OF ANY WORDPROCESSOR WE HAVE SEEN, AND IS GENERALLY GETTING THE SAME 3RD-PARTY SUPPORT AS WORDPRO III PLUS/64

MIRAGE CONCEPTS WORD PROCESSOR

MIR.........(D/R).......99.95...........NOW..NA

FULL-FEATURED: LINKS WITH THEIR DATABASE MANAGER AND SPELLING CHECKER / 40 OR 80 COLUMNS (80 COLUMN MODE DOES NOT REQUIRE ANY ADDITIONAL HARDWARE) / MANY MORE FEATURES

WORDMANAGER

DAT.........(R)....... * FREE...........NOW..NA

* FREE WITH THE PURCHASE OF ANY DATA-20 80-COLUMN VIDEO EXPANSION CARTRIDGE. FEATURES: 80 COLUMNS (NATURALLY) / ON-SCREEN FORMATTING / KEYBOARD 'FEATURE STRIP' / DISK & TAPE STORAGE / MAIL-MERGE

EASY SCRIPT

PRE.........(D).........99.00...........NA...NA

SAME NAME, DIFFERENT COMPANY. LINKS WITH THEIR 'SUPERBASE 64' DBMS SOFTWARE.

WORDCRAFT

UMI.........(NA).......149.00...........NA...NA

WRITE NOW

CAR.........(R).........49.95...........NOW..NA

FULL-FEATURED WITH GLOBAL SEARCH & REPLACE / ARABIC OR ROMAN PAGE NUMBERING / AUDIO CASSETTE INSTRUCTIONS WITH MANUAL / UP & DOWN SCROLLING / LINKS WITH 'MAIL NOW' / SAVES TO TAPE OR DISK.

COPY-WRITER

CGR.........(NA).......145.00...........NOW..NA

FEATURES INCLUDE DOUBLE COLUMNS & SHORTHAND.

QUICK BROWN FOX

QBF.........(R).........65.00...........NOW..NA

A POPULAR AND FULL-FEATURED WORDPROCESSOR

RAPIDWRITER

HDM.........(T+D).......59.95...........NOW..NA

LISTABLE BASIC PROGRAM: LACKS GLOBALS AND NUMERICS. EACH COPY IS CUSTOMIZED FOR YOUR PARTICULAR PRINTER & INTERFACE.

WRITER'S ASSISTANT

RCC.........(NA).......125.00...........NOW..NA

WORD CRAFT ULTRA 64

CIM.........(NA).......NA..............NA...NA

INSTA-WRITER

CIM.........(R).........NA..............NA...NA

MAXI-PROS

AAR.........(D/T).......24.95/19.95.....NA...NA

SOFT-WRITER

RAY.........(D/T).......24.95...........NOW..NA

GATOS LETTER

GAT.........(T).........12.95...........NA...NA

SCRIPT EASE

MWS.........(T).........39.50...........NA...NA

NEW ADDITIONS

JANEWRITE

ARK.........(NA)........NA..............NA...NA

WORDPROCESSING MODULE OF 'JANE'- A MOUSE-BASED INTEGRATED SOFTWARE BUNDLE.

HOMEWORD

SIE.........(D).........49.95...........DEC..NA

ICON-BASED, MENU/JOYSTICK-DRIVEN WORDPROCESSOR DESIGNED TO BE ESPECIALLY APPEALING TO OCCASIONAL USERS (EXPERIENCED USERS MAY ELECT TO USE FASTER DIRECT KEYBOARD CONTROL). INCLUDES AUDIOTAPE-BASED TUTORIAL AND 30-PAGE MANUAL

CIRCASCRIPT

CIR.........(D).........39.95...........NOW..****-

COPYABLE (FOR PERSONAL BACKUPS), MACHINE LANGUAGE WORDPROCESSOR IS VERY FAST AND LOADED WITH FEATURES: WE ESPECIALLY LIKE THE ON-SCREEN, ONE-LINE PROMPTS WHICH ACCOMPANY MOST OPERATIONS. THESE, ALONG WITH FULL-PAGE HELP SCREENS, VIRTUALLY ELIMINATE THE NEED TO REFER TO THE MANUAL AFTER THE FIRST READ-THRU. THE GLOBAL SEARCH & REPLACE IS THE FASTEST WE HAVE SEEN YET. SUPPORTS THE USUAL ARRAY OF EDIT & FORMAT CONTROLS ALONG WITH EMBEDDED PRINTER CONTROLS. PROBLEMS: THE PRINTER INTERFACING SECTION IS TOO TECHNICAL FOR MOST USERS. THE COPY WE TESTED HAD A PROBLEM WHEN USED WITH A GEMINI-10X AND CARDCO INTERFACE: UPPER CASE LETTERS APPEARED WHERE LOWER CASE SHOULD HAVE BEEN & VICE-VERSA! CIRCADIAN IS UPGRADING CIRCASCRIPT TO CORRECT THIS. IF YOU HAVE THE EARLIER VERSION, YOU CAN HAVE YOUR DISKETTE UPGRADED AT NO CHARGE (EXCEPT POSTAGE); IN FACT, CIRCADIAN'S POLICY (WHICH WE APPLAUD) IS TO PROVIDE ANY AND ALL SOFTWARE UPGRADES AT NO COST TO THEIR CUSTOMERS.

BUSIWRITER

SEW.........(?).........99.00...........NA...NA

SMITHWRITER

SFT.........(D/T).......NA..............NA...NA

BLITZTEXT

EPI.........(D/T).......89.00...........NOW..NA

4-DIRECTION SCROLLING/ 70 COMMANDS/ WORKS WITH MOST PRINTERS/ SENDS PRINTER CONTROL CODES/ LINK FILES ON UP TO 4 DISKETTES/ INTEGRAL TERMINAL SOFTWARE.

SPELLING CHECKERS >

SPELLRIGHT PLUS (FORMERLY SPELLMASTER)

PRO.........(D)........<50.00...........NOW..****

INCLUDED NOW WITH WORDPRO III PLUS/64, MAY ALSO BE PURCHASED SEPARATELY. (SEE WORDPRO III ABOVE FOR DESCRIPTION.)

TOTL.SPELLER 3.6

TOT.........(D).........35.00...........NOW..NA

CHECKS SPELLING OF DOCUMENTS CREATED WITH TOTL.TEXT 2.6/ COMPILED BASIC/ OPERATES UNATTENDED/ 10,000-WORD STARTER DICTIONARY IS EXPANDABLE TO 24,000 WORDS BY USER/ SUPPORTS MULTIPLE DRIVES & 80-COLUMN HARDWARE.

EASYSPELL 64

CBM.........(D)........<25.00...........NOW..NA

20,000-WORD DICTIONARY & SPELLING CHECKER/ WORKS WITH EASYSCRIPT 64.

MIRAGE CONCEPTS SPELLING CHECKER

MIR.........(NA)........NA..............NA...NA

QUICKSPELL

QBF.........(NA)........NA..............NA...NA

EASY SPELL

PRE.........(NA)........NA..............NA...NA

DATABASE MANAGEMENT >

FLEX-FILE 2.1

WEB.........(D)........110.00...........NOW..*****+

WE LIKE THIS DBMS (DATABASE MANAGEMENT SYSTEM)- SOME REASONS; FLOATING FIELD STRUCTURE/ CONFIGURES TO EVERY KNOWN COMBINATION OF COMMODORE & NON-COMMODORE EQUIPMENT (HARD DISKS INCLUDED)/ POWERFUL SEARCH AND REPORT OPTIONS/ WILD-CARDS & PATTERN MATCHING/ RUN-TIME ADDED FIELDS/ CALCULATED FIELDS & COLUMNS/ OUTPUT TO MANY POPULAR WORDPROCESSORS, ETC. (SEE REVIEW FALL ISSUE.)

M'FILE

DEE.........(D)........109.95...........NOW..****

MENU-DRIVEN / 32 FIELDS PER RECORD / 250 CHARS. PER RECORD / 78 CHAR. PER FIELD / 1000 RECORDS PER DISKETTE / CALCULATED FIELDS / SORT ON ANY FIELD / FAST KEY SEARCH / CREATE SEQUENTIAL FILES FOR WORDPROCESSORS / BUILT-IN BACKUP ROUTINE / DOES NOT ALLOW RE-STRUCTURING OF FILES.

DATABASES (CONT'D.) >

MIRAGE CONCEPTS DATABASE MANAGER
MIR.........(D).........99.95...........NOW..****
ALL MACH. LANG. / FREE FORM RECORD DESIGN AND INPUT / CALCULATED FIELDS / RESTRUCTURING / 2000 CHARS. PER RECORD / PRE-DESIGNED APPLICATIONS TEMPLATES TO BE AVAILABLE / CREATES SEQUENTIAL FILES FOR POPULAR WORDPROCESSORS / 250 CHARS. PER FIELD / 200 FIELDS PER RECORD / CALCULATED FIELDS / ENTIRE PROGRAM RESIDES IN RAM SO DISKS NEED NOT BE SWAPPED DURING OPERATION / WE FOUND THE MAILING LABEL AND REPORT ROUTINES SOMEWHAT RESTRICTIVE. WELL-DOCUMENTED WITH HANDS-ON TURORIALS.

DISK DATA MANAGER
MSP.........(D).........79.95...........NOW...***
UP TO 1200 RECORDS PER FILE / SORTS 2-DEEP / SEARCHES 3-DEEP / 18 FIELDS PER RECORD / 24 CHAR. PER FIELD / MENU-DRIVEN

DELPHI'S ORACLE
BAT.........(NA).......150.00...........NA...NA
8000 CHARS., 99 FIELDS, 9 SCREENS PER RECORD / REPORTS / MAIL LABELS / PASSWORD PROTECTION.

POWERFILE
CIS.........(D)........130.00...........NA...NA
MENU DRIVEN / APPLICATION TEMPLATES INCLUDED / 254 CHAR. PER RECORD / 254 CHAR. PER RECORD / SORT ON ANY FIELD / SORT 5 DEEP / CREATES SEQUENTIAL FILES FOR WORDPROCESSORS

ASERT
GTC.........(D).........NA..............NA...NA
MENU-DRIVEN WITH SAMPLE RECORDS INCLUDED. 30 FIELDS PER RECORD / 180 SEARCH WORDS / BUILT-IN STATISTICAL CAPABILITIES / SORT ON ANY FIELD / COMPILED BASIC WITH ML SORT ROUTINES

INSTA-FILE
CIM.........(NA)........NA..............NA...NA

CREATE-A-BASE
CDC.........(NA).......39.95............NA...NA
COMPILED BASIC / 8 DEEP SORTS / MENU-DRIVEN

MINI JINI
JIN.........(R).........89.95...........NOW..NA
ENTRY LEVEL DBMS / 500 RECORDS PER DISKETTE / SINGLE DEPTH SEARCH AND SORT (AD-ON MODULES ALLOW DEEPER SEARCH AND SORTS) / INTERFACES TO JINSAM 8.0 / AVAILABLE IN ENGLISH, SPANISH, AND FRENCH (GERMAN SOON) / APPLICATIONS TEMPLATES AVAILABLE FOR 14.95 EA.- 24 TO BE RELEASED OVER NEXT TWELVE MONTHS (GIFT CERTIFICATES AVAILABLE IN DENOMINATIONS EQUAL TO PRODUCT PRICES)

JINSAM 8.0 FOR THE 64
JIN.........(D).......199.95............NA...NA
64 VERSION OF THE WELL-KNOWN DATABASE MANAGER / 4 LEVELS OF SECURITY / RESTRUCTURABLE / UNLIMITED SORTS AND SEARCHES / 1000 RECORDS / 1500 CHAR. PER RECORD / 255 FIELDS PER RECORD

DATALOG
MWS.........(D).........39.50...........NOW..NA
DATABASE MANAGER- INTERFACES TO MOST WORDPROCESSORS

DATMAN
SWC.........(D).........59.95...........NA...NA
19 FIELDS / SEARCH, SORT, PRINT REPORTS AND LABELS / INTFCS TO WORDPRO ETC.

DATA BASE 64
ENT.........(NA)........69.00...........NA...NA

DATA/FILE PLUS
DIG.........(D).........99.95...........NOW..NA

SUPERBASE
PRE.........(?).........NA..............NOW..NA
IMPRESSIVE SOUNDING SPECIFICATIONS INCLUDE: 1000 CHARS. PER RECORD / UP TO 4 SCREENS PER RECORD / FILE SIZE TO 16 MILLION CHARS. / RESTRUCTURING / SPREADSHEET, CALENDAR, AND CALCULATOR FUNCTIONS / LINKS TO EASY SCRIPT WORDPROCESSOR / READY-MADE TEMPLATES AVAILABLE

NEW ADDITIONS

SOLIDEX
SOL.........(D).........99.95...........NOW..****-
REVOLUTIONARY DISK-ACCESS TECHNIQUES INCREASE THE SPEED OF 1541 DISK OPERATIONS BY AS MUCH AS 20 TIMES!/ MANAGE UP TO 625 'CARDS' PER DISKETTE/ LIGHTNING-FAST SEARCHES WITH SOPHISTICATED CONDITIONALS. THO WELL DOCUMENTED, THIS PACKAGE, LIKE ANOTHER SOLIDUS PRODUCT- SYSRES, HAS A RATHER COMPLICATED FEEL AND TENDS TO BE OVERWHELMING (DUE PARTLY TO THE EXTENSIVE OPTIONS, BUT ALSO TO SOLIDUS' UNIQUE STYLE OF STRUCTURING AND WRITING)/ DOES NOT GENERATE NECESSARY OUTPUT FOR USE BY WORDPROCESSORS.

THE MANAGER
CBM.........(D)........<50.00...........NOW..NA
DATA BASE MANAGER INTERFACES WITH WORDPROCESSORS/ CREATES SUBFILES/ SORTS ON ANY FIELD/ GENERATE REPORTS.

HOME FILE WRITER
DYT.........(D).........69.95...........NA...NA
THIS PACKAGE ACTUALLY GENERATES CUSTOM FILING-TYPE APPLICATIONS SOFTWARE (SORT OF A DATABASE MANAGER CONSTRUCTION KIT). ONCE CREATED, THE NEW PROGRAMS RUN INDEPENDENTLY AND CAN BE MODIFIED BY THE USER. INCLUDES A COUPON WHICH APPLIES TOWARD PURCHASE OF A COMPANION REPORTING PROGRAM.

DREAM-DB
CAN.........(D)........*99.95...........NA...NA
'HIGH-LEVEL RELATIONAL DATA BASE MANAGEMENT SYSTEM...ENGLISH-LIKE COMMAND LANGUAGE...GENERATE ALMOST ANY IMAGINABLE...APPLICATION.' INCLUDES: DATA RELATION GENERATOR/ REPORT GENERATOR/ INTERACTIVE COMMAND INTERPRETER/ SCREEN GENERATOR/ MENU GENERATOR/ PROGRAM EDITOR AND COMPILER.
*(MUST BE USED WITH COMPANION PRODUCT, 'DISK ACCESS MANAGER' (D.A.M.)- SEE PROGRAMMING SECTION.)

DREAM-DB APPLICATION CASEBOOK
CAN.........(D).........99.95...........NA...NA
TEN READY-TO-RUN APPLICATIONS FOR DREAM-DB (ABOVE): APPOINTMENT SCHEDULING/ CHECKBOOK BALANCING/ TELEPHONE DIRECTORY/ MAILING LIST/ BUDGET MANAGEMENT/ AR/ AP/ CHECK WRITER/ INVENTORY/ ORDER ENTRY. CAN BE USED AS-IS OR MODIFIED BY USER.

TOTL.INFOMASTER 3.6
TOT.........(D).........50.00...........DEC..NA
SORT & SEARCH/ COMPATIBLE WITH TOTL.TEXT, TOTL.LABEL, TOTL.TIME, RESEARCH ASSISTANT, AND TOTL.BUSINESS FILES/ BASIC WITH MACH. LANG. ROUTINES/ SUPPORTS MULTIPLE DRIVES, MOST PRINTERS, 80-COLUMN HARDWARE/ INCLUDES BUILT-IN BACKUP UTILITIES.

INFOBASE 64
KOL.........(D).........59.95...........NA...NA

DATABASE 64
MEL.........(D).........39.95...........NA...NA

DDB-ONE (RELATIONAL DATABASE)
MIQ.........(D).........89.95...........NA...NA

MAILING-LIST >

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

TOTL.LABEL 2.6
TOT.........(D/T).......24.00/20.00.....NOW..****+
MACH.LANG. SUBROUTINES SPEED CRITICAL OPERATIONS. COMMENT LINES / SORTING / BROWSE / MERGES WITH TOTL.TEXT 2.6

THE MAILER
SUS.........(D).........38.00...........NOW..***

MAILING LIST
MSP.........(D).........54.95...........NOW..NA
PRINTS 4-UP / 1200 ENTRIES PER DISK MAX

MAILING-LISTS (CONT'D.) >

MAIL NOW	CAR	(D)	39.95	NOW	NA	MACH. LANG. SORTS / ASSEMBLY LANGUAGE PROGRAM / MENU-DRIVEN / SUPPORTS 600 ENTRIES / 1 TO 3 LABELS ACROSS / COMMENT LINE / CATEGORY FIELD / SOR BY ZIP, CATEGORY, LAST NAME, OR STATE / SEARCH ANY FIELD- WILD CARDS SUPPORTED / INCLUDES DISK BACK-UP UTILITY / LINKS WITH 'WRITE NOW'
COMMODORE 64 MAILLIST	RAK	(D/T)	17.95/14.95	NA	NA	MAINTAINS 300 ENTRIES
MAILFILE	STE	(T)	14.95	NA	NA	MANAGES 200 ENTRIES PER FILE
MAILING LIST 64	ENT	(NA)	39.00	NA	NA	
DELUXE ADDRESSER	BRI	(T+D)	40.00	NA	NA	
ADDRESS MITE	NEL	(D/T)	16.95/14.95	NA	NA	
INSTA-MAIL	CIM	(NA)	NA	NA	NA	
MAIL IT 64	LIT	(NA)	NA	NA	NA	
QUICKMAIL	QBF	(NA)	NA	NA	NA	
64 MAILING LIST	DES	(T/D)	30.00/35.00	NOW	NA	
THE MAILING LIST	GAL	(T/D)	27.95/29.95	NOW	NA	
MAILING-LIST	LUN	(T/D)	39.95/44.95	NOW	NA	
MAILING LIST	LOG	(T)	24.50	NOW	NA	
MAILING LIST V2.0	SPE	(T)	19.95	NOW	NA	

NEW ADDITIONS

MAILPRO 64	PRL	(D)	129.95	NA	NA	'TOTAL FORMAT AND RECORD SELECTION CONTROL...WORDPRO COMPATIBLE...UP TO 4000 RECORDS ON 1541'

GENERAL LIST & FILING >

PRODUCT NAME	VENDOR CODE	MEDIA	PRICE	AVAIL	RTG.	
DIARY 64	CMS	(D/T)	39.95/34.95	NOW	NA	ELECTRONIC NOTEBOOK- KEEPS TRACK OF APPOINTMENTS, PHONE NUMBERS, MEETINGS, BIRTHDAYS, ETC. / ACCESS BY VARIOUS KEY (DATE, NAME, ETC.)
DATA MANAGER	TMW	(D/T)	24.95	NOW	NA	
SDB 64	SIP	(D)	39.95	NA	NA	GENERAL PURPOSE FILING SYSTEM FOR ADDRESSES, HOBBIES, ETC. SORT & RETRIEVE BY ANY FIELD. MENU- DRIVEN WITH PRINTOUT CAPABILITY
TAPEWORM	ECP	(NA)	12.95	NA	NA	TAILORED EXPECIALLY FOR KEEPING TRACK OF YOUR TAPES AND RECORDS
LIST HELPER	MAG	(NA)	NA	NA	NA	EDIT, ENTER, AND SORT VARIOUS LISTS
LIST MITE 2	NEL	(D/T)	16.95/14.95	NA	NA	GENERAL LIST MANAGEMENT FOR INVENTORIES, COLLECTIONS, ETC.
OMNIFILE	STG	(D/T)	19.95	NA	NA	
DATAFILE	FAM	(D/T)	17.95/15.95	NA	NA	
INVENTORY MANAGER	GOS	(NA)	19.95	NA	NA	
FILE/CARD	DIG	(D)	29.95	NOW	NA	
DATA/SCAN	DIG	(D)	29.95	NOW	NA	

NEW ADDITIONS

LOG	MES	(?)	9.95	NA	NA	EVENT LOGGING AID/ LIST BY DATE OR PERSON
THESIS MASTER	MCR	(D)	29.95	NA	NA	ORGANIZES RESEARCH NOTES AND CREATES BIBLIOGRAPHY/ REPORTS/ SORT & SELECT.
STAMP COLLECTOR	MCR	(D/T)	29.95	NA	NA	STORE UP TO 14 FIELDS FOR EACH ISSUE INCLUDING CAT. NOS., CAT. VALUES, COND.,PERF,WRMK.,COLOR.
HOME LIBRARIAN	MCR	(D)	29.95	NA	NA	PERSONAL ELECTRONIC CARD CATALOGUE FILE.

MISC. BUSINESS/PERSONAL >

PRODUCT NAME	VENDOR CODE	MEDIA	PRICE	AVAIL	RTG.	
TOTL.TIME 2.6	TOT	(T/D)	35.00/39.00	NOW	***+	USEFUL FOR SCHEDULING AND MANAGING PROJECTS
QUICK-CHART	ABA	(T/D)	14.95/17.95	NOW	N.A.	TOOL FOR CREATING BAR CHARTS OF VARIOUS DATA
RESEARCH ASST.	TOT	(T/D)	35.00/39	NOW	***+	UNIQUE CROSS-REF. TOOL FOR BIBLIOGRAPHIES ETC.
BIBLIOGRAPHER	GEM	(D)	50.00	NOW	N.A.	CROSS-REFERENCING PROGRAM
DATE DUE	MWS	(D)	39.50	NOW	NA	LIBRARY UTILITIES TO MANAGE OVERDUES ETC. PRODUCES HARDCOPY / SORTS & SEARCHES
MASTER LIBRARY PROGRAM	MWS	(D)	39.50	NOW	NA	INTERESTING PROGRAM FOR MANAGING LARGE COLLECTIONS OF COMPUTER DISKETTES. CATALOGS OVER 8000 TITLES / M.L. SORTING / SEARCHES AND FLAGS DUPLICATE TITLES / MORE
CCI RETAILER 64	CCI	(D)	1073.00	NA	NA	INTEGRATED HARDWARE/SOFTWARE POINT OF SALE SYSTEM. INCLUDES: IEEE-488 INTERFACE WITH BASIC 4.0 / COMPUTER CONTROLLED CASH DRAWER / TRANSACTION DISKETTE / INVENTORY DISKETTE / MACHINE LANG. MONITOR AND TERMINAL SOFTWARE / MONITOR- PEDESTAL / USER'S MANUAL
FARM MANAGER I (GENERAL BUSINESS)	CYB	(D)	49.95	NOW	NA	INCLUDES: INVESTMENT / LOAN ANALYSIS / LAND PURCHASE / MACHINE COST / AND BUSINESS STUDY PROGRAMS.
FARM MANAGER II (BEEF PRODUCTION)	CYB	(D)	49.95	NOW	NA	INCLUDES: BEEF CALF PRODUCTION / CATTLE FEEDER / HEAVY CATTLE / BEEF MARKETING / AND RATION ANALYZER PROGRAMS
FARM MANAGER III (PORK PRODUCTION)	CYB	(D)	49.95	NOW	NA	INCLUDES: PIG PRODUCTION / PIG FEEDER / HEAVY HOGS / AND RATION ANALYZER

MISC. BUS./PERS. (CONT'D)

NUMERIC KEYPAD (SOFTWARE)
CYB.........(D).........14.95...........NOW..***
CONVERTS PART OF YOUR KEYBOARD INTO A NUMERIC CLUSTER MORE SUITABLE FOR FINANCIAL AND ACCOUNTING WORK. STICK-ON LABELS INCLUDED FOR KEY-TOPS. 'KEYPAD' CAN BE TOGGLED ON AND OFF EASILY DURING OPERATION, AND ROUTINES MAY BE COPIED ONTO APPLICATION DISKETTES FOR CONVENIENCE.

FORM GENERATOR
SIM.........(NA)........19.95...........NA...NA

APPOINTMENTS
SIM.........(NA)........24.95...........NA...NA

TASK ORGANIZER
SIM.........(NA)........24.95...........NA...NA

PRO SPORTS STATS (FOOTBALL)
ECC.........(D).......*285.00...........NA...NA
AWESOME SOUNDING DATA BASE ON DISK WITH EVERY CONCEIVABLE STATISTIC FOR NFL AND USFL GAMES SINCE 1970. IMPLIES YOU WILL BE ABLE TO PICK WINNERS MORE OFTEN BY CONSULTING YOUR COMPUTER BEFORE A GAME. (WEEKLY UPDATES ARE INCLUDED FOR $15 PER MONTH.) IF YOU LIKE THIS PACKAGE, THEY HAVE SIMILAR SYSTEMS FOR BASEBALL, HOCKEY, AND BASKETBALL.

TENANT FILE
FAB.........(D/T).......27.95/24.95.....NOW..NA
ACTIVE AND CLOSED TENANT DATA FILES / OCCUPANCY AND RATE SPREADSHEETS.

UTILITY FILE
FAB.........(D/T).......32.95/29.95.....NOW..NA
'AN EXTENSIVE UTILITY CONSUMPTION DATA PROCESSING PROGRAM FOR DISPLAY, STORAGE, AND PRINTING WITH METER READING INPUTS.'

NEW ADDITIONS

ESI TIME PLANNER
ESI.........(D).........89.00...........NA...NA
USE ON-SCREEN DAILY OR MONTHLY CALENDAR TO SCHEDULE EVENTS. 40 COMMANDS ALLOW SCHEDULING BY 15 MIN., 30 MIN., DAILY, WEEKLY, OR MONTHLY INTERVALS. REPEAT, MOVE, & RESCHEDULE EVENTS/ FIND FREE TIME INSTANTLY. ON-LINE HELP, COLOR & SOUND, ON-SCREEN REAL-TIME CLOCK/ CROSS-REFERENCING/ PASSWORD-PROTECTION/ HARD-COPY REPORTS/ UP TO 8000 EVENTS PER DISK/ SCHEDULE THRU THE YEAR 2000/ UNLIMITED PERSONS AND COMMENTS PER DAY.

DISQALENDER
SUD.........(D).........49.95...........NA...NA
TIME MANAGEMENT: 12 MONTHS OF SCHEDULING AND APPOINTMENTS PER DISK.

MULTI-LEVEL MARKETING MANAGER
CDC.........(?).........NA..............NA...NA

INVENTORY
SUD.........(D).........79.95...........NA...NA
1200 RECORDS PER DISK/ BACKORDERS/ 3-LEVEL PRICING/ PRINTED REPORTS.

RESTAURANT MANAGER
SUD.........(D).........79.95...........NA...NA
POINT OF SALES RESTAURANT SYSTEM: HANDLES 60 TABLES/ 250 MENU ITEMS/ CREDIT CARDS & TIPS/ PRODUCES KITCHEN & SERVER REPORTS.

BARTENDER'S FRIEND
RLR.........(T)..........9.95...........NA...NA
CONTAINS HUNDREDS OF RECIPES & BAR TERMS.

RENTAL PROPERTY MANAGEMENT
MSP.........(D).........NA..............NA...NA

BLACKJACK TEACHER
SOT.........(D/T).......49.95...........NA...NA
FOR THE SERIOUS BLACKJACK STUDENT: SIMULATES CASINO PLAY IN REAL-TIME WITH COMPUTER CONTROLLED PLAYERS/ TEACHES SEVEN DIFFERENT STRATEGIES OF VARYING COMPLEXITY/ MONITORS YOUR PERFORMANCE AND CORRECTS YOUR BAD DECISIONS.

CLASSROOM ADMINISTRATION >

GRADEPRO
GEM.........(T/D).......25.00...........NOW..NA
FULL-FEATURED GRADING UTILIITY, ALLOWS WEIGHTED OR STRAIGHT AVGS., GENERATES BAR GRAPHS OF GRADE DISTRIBUTIONS, AUTOMATIC GENERATION OF PROGRESS REPORTS.

MASTER GRADES PROGRAM
MWS.........(D).........NA..............NA...NA
COMPREHENSIVE GRADES MANAGEMENT SYSTEM FOR TEACHERS. INCLUDES ATTENDANCE / POINT- SYSTEM, PERCENTAGE, AND LETTER GRADE TRACKING AND REPORTING / UP TO 200 STUDENTS

NEW ADDITIONS

COMPUGRADE
MES.........(D).........24.95...........NA...NA
MULTI-CLASS GRADEBOOK/ REPORTS TO SCREEN OR PRINTER.

THE ATTENDANCE MASTER
MES.........(D).........39.95...........NA...NA
KEEPS ATTENDANCE RECORDS FOR UP TO 39 STUDENTS PER CLASS/ UNLIMITED # OF CLASSES.

GRADECALC
TAM.........(D).........29.95...........NOW..NA
KEEPS FILES OF ALL RAW GRADES & ASSIGNMENT INFO/ AVERAGES GRADES IN VARIETY OF WAYS/ GENERATES REPORTS INCLUDING MISSING ASSIGNMENTS, GRADE TOTALS & AVERAGES, ASSIGNMENT SUMMARIES ETC./ ALSO MAINTAINS AND REPORTS ON ATTENDANCE.

TYPING & KEYBOARD MASTERY

TYPING TUTOR + WORD INVADERS
ACA.........(T).........21.95...........NOW..****+
THIS IS THE BEST TYPING TUTOR WE HAVE SEEN YET; IT CAN GET YOUR CHILDREN TOUCH- TYPING IN SHORT ORDER AND BRING AN OLD HAND UP TO SPEEED. INCLUDES EXCELLENT TRAINING MODULES AND AN ARCADE-TYPE MODE TO LIVEN THINGS UP AND PUT SOME PRESSURE ON.

HAPPY TUTOR
PAC.........(T).........19.95...........NOW..***+
THIS IS A PRETTY FAIR TYPING TUTOR WHICH USES A HAPPY FACE AND ANNOYING SOUND EFFFECTS TO PRESSURE YOU

MASTER TYPE
LIG.........(D).........39.95...........NOW..NA
EARNED INFOWORLD'S HIGHEST RATINGS. WE LIKE THE PITCH; "LEARN TO TYPE OR GET BLOWN TO BITS". COMBINES INSTRUCTION WITH ARCADE PLAY.

TOUCH TYPING TUTOR
TAY.........(T/D).......19.95/24.95....NOW..NA
19 LESSONS AND 12-PG. MANUAL.

QUICKFINGER
QBF.........(NA)........NA..............NA...NA
QUICK BROWN FOX'S TYPING TUTOR.

KIDS ON KEYS
SPI.........(R).........NA..............NA...NA
FROM SPINNAKER'S LEARNING GAMES SERIES.

NEW ADDITIONS

TYPING DRILLER
PID.........(D).........29.95...........NOW..***+
CHOSE SELECTIVE PRACTICE, RANDOM PRACTICE, OR MASSED DRILL MODES. WE EXPECIALLY LIKE THE DETAILED ANALYSIS OF USER'S PROGRESS AND PROBLEM AREAS. MINOR COMPLAINT: IN PRACTICE MODES, THE PROGRAM OCCASIONALLY LAGS A SPLIT SECOND BEHIND THE TYPIST IN DISPLAYING CHARACTERS TYPED, THIS CAN BE DISTRACTING.

TYPING (CONT'D) >

TYPING STRATEGY / LETTER MAN

BEH.........(D).........34.95 EACH......NOW..***+

BOTH OF THESE TYPING 'TUTORS' USE BEHAVIORAL ENGINEERING'S 'NEURO-LINGUISTIC PROGRAMMING' CONCEPTS TO '...INDUCE THE STRATEGY OF EXCELLENCE' IN THE USER'. WHILE THE TENETS OF NEURO-LINGUISTIC PROGRAMMING ARE MILDLY CONTROVERSIAL, AND BY NO MEANS A CORNERSTONE OF ESTABLISHMENT PSYCHOLOGY, WE LIKE THE THOUGHTFULNESS OF THE APPROACH (THO WE COULD NOT VERIFY ANY UNUSUAL BENEFITS TO OUR TYPING SKILLS). SEVERAL OTHER NLP-BASED PROGRAMS ON OTHER SUBJECTS ARE AVAILABLE FROM BEH AT SIMILAR PRICES.

TYPO

ROM.........(R).........NA..............NA...NA

DEVELOP SPELLING AND TYPING SKILLS WHILE ESCAPING FROM AN EVIL SPACESHIP.

PROGRAMMING INSTRUCTION >

INTRODUCTION TO BASIC: PART 1

CBM.........(T).........21.00...........NOW..***+

TWO CASSETTES, THOROUGH MANUAL, & FLOW-CHART TEMPLATE (!). WELL DONE PACKAGE TAKES THE BEGINNER THRU THE FUNDAMENTALS WITHOUT TEDIOUS TYPING IN OF EXAMPLE PROGRAMS.

COMMODORE 64 TUTORIAL VOL. 1

CYB.........(D).........24.95...........NOW..***+

SELF-CONTAINED LESSONS ON DISKETTE (NO MANUAL). INCLUDES INTRO TO KEYBOARD AND 7 INTRO TO BASIC LESSONS

COCO

HES.........(D/T).......49.95...........NOW..NA

PROGRAMMING INSTRUCTION SYSTEM

COCO II

HES.........(D/T).......44.95...........NOW..NA

UNIQUE APPROACH TO GAME PROGRAMMING INSTRUCTION: STEPS USER THRU THE STRUCTURE OF A SAMPLE GAME UNTIL THE USER IS ABLE TO ALTER OR TOTALLY RE-WRITE THE GAME.

STEP BY STEP

PDI.........(D).........59.95...........NA...NA

GRADUATED INSTRUCTION ON BASIC AND PROGRAMMING TECHNIQUE. ABOUT TWENTY HOURS OF INSTRUCTION WITH QUIZZES.

PROGRAMMING IN BASIC

LYN.......(VIDEO TAPE)..49.95...........NA...NA

CLOSE TO 2 HRS. OF PROGRAMMING INSTRUCTION (BASIC) ON VHS OR BETA CASSETTE.

NEW ADDITIONS

---

64 TUTORIAL VOL. 2

CYB.........(D).........24.95...........NOW..****

WELL DONE TOUR OF THE 64'S SOUND AND GRAPHICS ABILITIES AND HOW THEY WORK. NO MANUAL IS NEEDED AS THE INTERACTIVE CONTENT OF THE PROGRAM IS TOTALLY SELF-CONTAINED. EXPLAINS RASTER INTERUPTS, BIT-MAPPED AND MULTI-COLOR MODES, SPRITES, COLLISIONS, ALL SOUND PARAMETERS AND MORE. GOES AT USERS PACE AND HIGHLIGHTED BY VERY GOOD GRAPHIC & SOUND EXAMPLES / USER MAY TAKE OPTIONAL QUIZES AT THE END OF EACH SECTION/ INCLUDES SPRITE AND SOUND EDITORS WHICH ARE, BY THEMSELVES EASILY WORTH THE PRICE OF THE PROGRAM.

C64 TUTOR

CSS.........(?).........29.95...........NA...NA

TUTORIAL LESSONS PLUS SCREEN DISPLAY EDITOR, SPRITE EDITOR, MUSIC SYNTHESIZER, AND PROGRAMMER'S CALCULATOR (HAS HEX, BINARY, AND DECIMAL FUNCTIONS).

CODEPRO-64

SYS.........(D/T).......59.95...........NA...NA

COVERS PROGRAMMING IN BASIC, GRAPHICS, & MUSIC. INCLUDES SPRITE AND MUSIC EDITORS AS WELL AS DEMONSTRATION PROGRAMS. ONE UNIQUE FEATURE IS THE ABILITY TO SEARCH THRU THE TUTORIAL USING KEYWORDS TO FIND RELATED MATERIAL.

QUIZ-AUTHORING PACKAGES >

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

QUIZMASTER

RAY.........(T).........9.95...........NOW..NA

CREATE YOUR OWN QUIZZES OF ANY LENGTH ON ANY SUBJECT.

EASYQUIZ 64

CBM.........(D).........19.00...........NOW..***

CREATE LESSONS AND ADMINISTER MULTIPLE CHOICE QUIZZES.

QUIZ-KIT

LOG.........(T).........14.50...........NOW..NA

CREATE YOUR OWN QUIZZES OF ANY LENGTH ON ANY SUBJECT.

SPELL-IT!

LOG.........(T).........12.50...........NOW..NA

CREATE YOUR OWN SPELLING QUIZZES

MULTIPLE CHOICE

MWS.........(D+T).......29.50...........NOW..NA

CREATE UP TO 150 QUESTION AND ANSWER SETS PER DISK. ANY NUMBER MAY BE EXTRACTED FROM THESE AND SCRAMBLED. TESTS MAY BE CONDUCTED VIA THE SCREEN OR PRINTED OUT.

QUIZ ME

SIM.........(NA)........14.95...........NA...NA

OMNITEST

STG.........(D/T).......29.95...........NA...NA

DRILLMASTER

STG.........(D/T).......17.95...........NA...NA

QUIZ AND DRILL SYSTEM. COMES WITH STATE CAPITOLS AND VOCABULARY QUIZZES.

NEW ADDITIONS

CLAS

TOU.........(D).........89.95...........NA...NA

COURSEWARE AUTHORING SYSTEM ALLOWS TEACHERS AND PARENTS WITH NO COMPUTER EXPERIENCE TO CREATE CUSTOM COURSEWARE WHICH USES THE ADVANTAGES OF THE COMPUTER WITHOUT SACRIFICING INDIVIDUAL STYLE AND METHODOLOGY.

GENERAL EDUCATIONAL >

MATHPAK

LOG.........(T).........49.50...........NOW..NA

6 PROGRAMS (AVAILABLE INDIVIDUALLY FOR 12.50 EA.): STATISTICS, LINEAR EQUATIONS, DATA AND FUNCTION PLOTTING, FUNCTION ANALYSIS, COMPLEX FUNCTIONS, AND MATRIX OPERATIONS. SOME INCLUDE PLOT AND GRAPHING ROUTINES FOR PRINTER.

YOU CAN DO MATH!

MTS.........(D).........49.95...........NOW..NA

UNIQUE CONCEPT - DESIGNED TO OVERCOME "MATH ANXIETY" BY DETECTING YOUR PROBLEM AREAS AND GIVING THEM SPECIAL ATTENTION.

ADD/SUB

BOS.........(NA)........16.95...........NA...NA

SINGLE OR MULTIPLE DIGITS. OPTIONAL PICTORIAL REPRESENTATION. SHOWS BORROWING AND CARRYING. AUDIO FEEDBACK.

NUMER-BECI

BOS.........(NA)........16.95...........NA...NA

NUMBER RECOGNITION / COUNTING / GROUPING / SHAPE,SIZE, & NUMBER DISCRIMINATION

THE MATH TEACHER

CTC.........(T).........39.95...........NOW..***

FIRST GRADE THRU 9TH. (+ - * /)

MATH TUTOR

GTR.........(T).........15.00...........NA...NA

K-6 ADDITION AND SUBTRACTION

'ABC'

THO.........(D/T).......21.95/18.95.....NA...NA

THE ALPHABET FOR PRESCHOOLERS. GRAPHICS AND SOUND

PINBALL MATH

TAY.........(D/T).......24.95/19.95.....NA...NA

DEBUT: ERG-CARD CENTERFOLD

WE ARE PLEASED TO INTRODUCE THIS NEW FEATURE IN INFO-64! EACH ISSUE WILL CONTAIN A REMOVABLE CENTERFOLD OF REFERENCE MATERIALS WHICH WE HOPE WILL LESSEN YOUR TRIPS TO THE BOOK-SHELF FOR CHARTS, APPENDICES, AND CODE SUMMARIES. IF YOU ARE THE PROUD OWNER OF AN INFO-64 ERGBOARD (SEE NEXT PAGE FOR DETAILS), YOU WILL FIND THAT THESE CENTERFOLDS MAY BE TRIMMED INTO INDIVIDUAL CARDS WHICH WILL FIT HANDILY (& NOT ACCIDENTALY) IN THE REFERENCE WINDOW OF YOUR ERGBOARD, SUPPORTED BY THE STIFF CARDS THAT CAME WITH IT. WE HAVE STARTED WITH CONTROL SUMMARIES OF TWO VERY POPULAR PRODUCTS AND ADDED A BASIC REFERENCE CARD FOR GOOD MEASURE

GEMINI-10X™ PRINTER CONTROL CODES

ERG-CARD™ FOR THE INFO-64™ ERGBOARD™

COPYRIGHT © 1983 BY CYBERTECH

PRINTER CONTROL CODES (DECIMAL VALUES FOR CHR$(X) FORMAT)

0/128	ENDS TAB SETTINGS
7/135	SOUNDS BUZZER
8/136	PRINTS BUFFER DATA AND MOVES PH ONE SPACE LEFT
9/137	PRINT AT NEXT TAB SETTING
10/138	ONE LINE PAPER FEED
11/139	FEEDS PAPER TO NEXT VERTICAL TAB, DEFAULTS TO EVERY 6TH LINE
12/140	FEEDS PAPER TO START OF NEXT PAGE
13/141	PRINTS BUFFER
14/142	TURNS ON DOUBLE-WIDE MODE
15/143	COMPRESSED PRINT MODE
17/145	SELECTS PRINTER
18/146	CANCELS COMPRESSED MODE
19/147	DESELECTS PRINTER
20/148	CANCELS DOUBLE-WIDE MODE
30/158	ENDS MACRO INSTRUCTION
127/255	DELETE LAST CHARACTER SENT TO BUFFER
27/155	ESCAPE: INITIATES REMAINING CONTROL CODES IN THIS LIST
27;35	ACCEPTS 8TH BIT 'AS IS'
27;42;0	COPIES FONTS FROM CHARACTER ROM INTO DOWNLOAD RAM
27;42;1 n1n2m1m2	DEFINES DOWNLOAD CHARACTER INTO RAM
27;36;1	SELECTS DOWNLOAD CHAR. SET
27;36;0	CANCELS DOWNLOAD CHAR. SET
27;45;1	TURN ON UNDERLINING
27;45;0	CANCELS UNDERLINING
27;48	CHANGES TO 1/8" LINE FEEDS
27;49	CHANGES TO 7/72 LINE FEEDS
27;50	CHANGES TO 1/6" LINE FEEDS
27;51;n	CHANGES LINE FEEDS TO n/144 (n=1 TO 127)
27;52	SELECTS ITALIC CHARACTERS
27;53	CANCELS ITALIC CHARACTERS
27;55;n	SELECTS INTERNATIONAL CHARS (FOR n: 0=USA / 1=ENGLAND 2=GERMANY / 3=DENMARK 4=FRANCE / 5=SWEDEN 6=ITALY / 7=SPAIN)
27;56	OVERRIDE PAPER-OUT SWITCH
27;57	RE-ENABLE PAPER-OUT SWITCH
27;61	SETS 8TH BIT TO LOGIC-0
27;62	SETS 8TH BIT TO LOGIC-1
27;64	COMPLETELY RESETS PRINTER
27;33	SELECTS MACRO INSTRUCTION
27;97;n	ONE VERTICAL FEED: n LINES
27;98;n	ONE HORIZ. TAB: n COLUMNS
27;65;n	CHANGES LINE FEEDS TO n/72 (n=1 TO 127)
27;66;1	10 CHARACTERS PER INCH
27;66;2	12 CHARACTERS PER INCH
27;66;3	17 CHARACTERS PER INCH
27;67;n	SETS FORM LENGTH TO n LINES (n=1 TO 127)
27;67;0;n	SETS FORM LENGTH TO n IN. (n=1 TO 32)
27;68;n;n;0	CLEARS CURRENT TAB & SETS NEW TABS. (N=1 TO 255)
27;69	SELECTS EMPHASIZED MODE
27;70	CANCELS EMPHASIZED MODE
27;71	SELECTS DOUBLE-STRIKE MODE
27;72	CANCELS DOUBLE-STRIKE MODE
27;74;n	ONE LINE FEED OF n/144"
27;75;n1;n2	480 DOT PITCH BICS MODE (# OF COLUMNS = n1+n2#255)
27;76;n1;n2	960 DOT PITCH BICS MODE (# OF COLUMNS = n1+n2#255)
27;77;n	SETS LH MARGIN
27;78;n	SKIP OVER PERF n LINES
27;79	SKIP OVER PERF 0 LINES
27;80;n;n;0	SETS VERT. TAB POSITIONS
27;81;n	SETS RH MARGIN
27;82;n	SETS HEADER POS. (n=1-16)
27;43;30	DEFINES MACRO INSTRUCTION
27;83;0	SELECTS SUPERSCRIPT MODE
27;83;1	SELECTS SUBSCRIPT MODE
27;84	CANCELS SUPER/SUBSCRIPTS
27;85;1	SELECTS UNIDIRECTIONAL MODE
27;85;0	CANCELS UNIDIRECTIONAL MODE
27;87;1	SELECTS DOUBLE-WIDE PITCH
27;87;0	CANCELS DOUBLE-WIDE PITCH
27;89;1	ENABLES BUZZER
27;89;0	DISABLES BUZZER
27;121 n1n2m1m2	DUAL-DENSITY GRAPHICS WITH DOUBLE-SPEED
27;122 n1n2m1m2	QUADRUPLE-DENSITY GRAPHICS

GEMINI-10X
IS A TRADEMARK
OF
STAR MICRONICS INC.

BASIC REMINDER AND SYNTAX CHECKER

ERG-CARD™ FOR THE INFO-64™ ERGBOARD™

COPYRIGHT (C) 1983 BY CYBERTECH

ABS	A=ABS(X)
AND	IF A=B AND C=D THEN 10
ASC	A=ASC(X$)
ATN	A=ATN(X)
CHR$	A$=CHR$(X)
CLOSE	CLOSE A
CLR	CLR
CMD	CMD X
CONT	CONT
COS	A=COS(X)
DATA	DATA A,"B",C
DEF FN	DEF FNA(X)=N*(B-X)
DIM	DIM A$(X),A3(X,Y,Z)
END	END
EXP	X=EXP(A)
FN	PRINT FNA(X)
FOR	FOR X=0 TO 100
FRE	PRINT FRE(X)
GET	GET N$
GET#	GET#1,A$
GOSUB	GOSUB 750
GOTO	GOTO 750
IF	IF X<>0 THEN 100
INPUT	INPUT X INPUT"......":X$
INPUT#	INPUT#1,A INPUT#1"......";X$
INT	A=INT(X)
LEFT$	A$=LEFT$(X$,X)
LEN	A=LEN(X$)
LET	LET X=1 (OPTIONAL)
LIST	LIST LIST -1000 LIST 400- LIST 200-1000
LOAD	LOAD"NAME"
LOG	X=LOG(A)
MID$	X$=MID$(A$,N,A)
NEW	NEW
NEXT	FOR X=1 TO 50:NEXT X
NOT	N=NOT X
ON	ON N GOTO A,B,C,D
OPEN	OPEN A,B OPEN A,B,C
OR	IF X=1 OR B=0 THEN 10
PEEK	X=PEEK(N)
POKE	POKE X,A
POS	A=POS(X)
PRINT	PRINT A;B$;"XYZ"
PRINT#	PRINT#N,A;A$;"XYZ"
READ	READ A, B$
REM	REM...COMMENTS....
RESTORE	RESTORE
RETURN	RETURN
RIGHT$	A$=RIGHT$(X$,X)
RND	X=RND(N)
RUN	RUN RUN 1000
SAVE	SAVE"NAME"
SGN	A=SGN(X)
SIN	A=SIN(X)
SPC	PRINT SPC(X)
SQR	A=SQR(X)
ST	X=ST
STEP	FOR X=0 TO 10 STEP 5
STOP	STOP
STR$	A$=STR$(X)
SYS	SYS(X)
TAB	PRINT TAB(X)
TAN	X=TAN(N)
THEN	IF X<> 0 THEN 100
TI	X=TI
TI$	TI$="HHMMSS"
TO	FOR X=0 TO 100
USR	USR(X)
VAL	A=VAL(X$)
VERIFY	VERIFY"NAME"
WAIT	WAITX,Y,Z
	C= D
?	? "NAME";A

f1
f2
f3
f4
f5
f6
f7
f8

CODE SUMMARY FOR *WORDPRO 3 PLUS/64*™

ERG-CARD™ FOR THE INFO-64™ ERGBOARD™

COPYRIGHT (C) 1983 BY CYBERTECH

CONTROL CODES

( ) = SHIFTED KEY

<CTRL>A	APPEND FROM EXTRA TEXT
<CTRL>B	PRINT VARIABLE BLOCK
<CTRL>C	CLEAR TAB
<CTRL>(Q)	EXIT TO BASIC
<CTRL>DW	DELETE WORD
<CTRL>DS	DELETE SENTENCE
<CTRL>EA	ERASE ALL
<CTRL>ER	ERASE REMAINDER
<CTRL>EL	ERASE LINE
<CTRL>F	FIND STRING
<CTRL>G	GOTO LINE #:
<CTRL>H	HUNT (CONT. SEARCH)
<CTRL>I	FILL VARIABLE BLOCKS
<CTRL>K	CLEAR ALL TABS
<CTRL>L	DUPLICATE LINES IN RANGE
<CTRL>M	MODIFY SEARCH & REPLACE
<CTRL>N	NUMERIC MODE TOGGLE
<CTRL>O	OUTPUT +C = CONTINUOUS OUTPUT +XN= OUTPUT N COPIES +L = PRINT VARIABLE BLOCKS FROM EXTRA TEXT
<CTRL>R	SETS RANGE OF LINES
<CTRL>S	SET TAB
<CTRL>T	TRANSFER RANGE OF LINES
<CTRL>V	APPEND VARIABLE
<CTRL>X	SWITCH TO/FROM EXTRA TEXT
<CTRL>Z	ENTER LIST DELIMITER
<CTRL>$	COPY LINKED FILES TO A SECOND DRIVE
<CTRL>;	SPECIAL CHARACTER (SENDS CONTROL CODE TO PRINTER)
<CTRL>,	READ ERROR CHANNEL
<CTRL>.	DISK WEDGE MODE
<CTRL>-	HYPHEN SYMBOL
<CTRL>([)	UNDERLINE ON
<CTRL>(])	UNDERLINE OFF
<CTRL>8	BOLD TYPE ON
<CTRL>9	BOLD TYPE OFF
<CTRL>←	FIND VARIABLE BLOCK
<CTRL>↑	EMPTY A VARIABLE
<CTRL>HOME	HOME DATA
<CTRL>(R/S)	RESTART
<CTRL>0	DIRECTORY DRIVE 0
<CTRL>4	SUPERSCRIPTS
<CTRL>6	SUBSCRIPTS
<CTRL>CRS/RT	RESTART GLOBAL FIND
<CTRL>@L	REPLACE LOCAL
<CTRL>@G	REPLACE GLOBAL
<CTRL>=	COLUMN ADD/SUBTRACT
<CTRL>?or/	FORMAT CHECK MARK
<CTRL>DEL	LINE DELETE
<CTRL>INST	LINE INSERT
<CTRL>£	AUDIO ON/OFF
(<CTRL>)	INSERT MODE ON/OFF
<CTRL>F1	CHARACTER COLOR
<CTRL>F3	SCREEN COLOR
<CTRL>F5	BORDER COLOR
£	LINE READ (ALSO TOGGLES ALL-CAPS)

FORMAT CODES

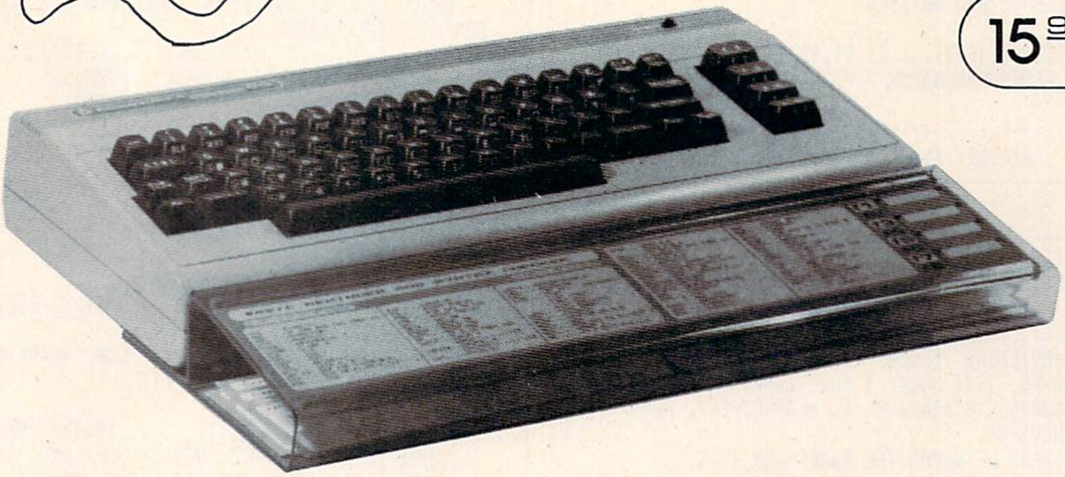
cm	COMMENT
cn	CENTERING........1=ON 0=OFF
fa	FORM ADVANCE.....4,6,8,12
fp	FORCED PAGING....(1-255)
ft	PAGE FOOTER
hd	PAGE HEADER
hl	HEAD L. MARGIN...1-165
hr	HEAD R. MARGIN...2-165
ju	JUSTIFICATION....1=ON 0=OFF
lf	ADD LINE FEEDS...1=ON 0=OFF
lm	LEFT MARGIN......1-165
ln	LINE FEEDS.......1-255
ma	MARGIN RELEASE...1-165
nx	LINK NEXT FILE...FILENAME
p#	SET PAGE NUMBER..2 OR GREATER
pg	SET PAGING.......LESS THAN PP
pp	SET PAGE LENGTH..PAGE LENGTH
ps	PAUSE
pt	SET PITCH........8,10,12,15
ra	RIGHT ALIGNMENT..1=ON 0=OFF
rm	RIGHT MARGIN.....2-165
sp	SET LINE SPACING.1,2,3
vp	VERT. POSITION...1-PP

WordPro 3 Plus/64
is a trademark of
Professional Software Inc.

Introducing: The INFO-64

Ergboard™

15.95 U.S.



** REDUCE FATIGUE 2 WAYS !!
1) PUTS HANDS IN NATURAL POSITION
2) ERG-CARDS REDUCE EXCESSIVE REACHING FOR REFERENCE MANUALS

** ADDS CLASS TO YOUR C64!!

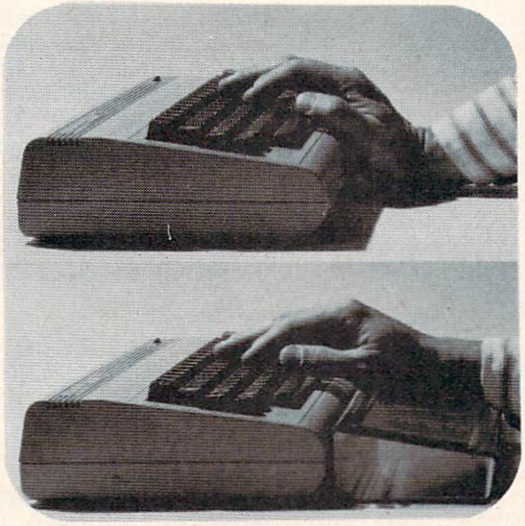
** FREE REFERENCE CARDS IN EVERY CENTERFOLD OF INFO-64!!

** STYLISH SMOKE-BRONZE ACRYLIC!!

** COMES WITH 2 SLIDE-IN REFERENCE CARDS!!

** MAKES AN IDEAL GIFT FOR 64 OR VIC OWNERS!!

** "IT'S ERGONOMIC!"



The INFO-64 ERGBOARD:

SEND ME ☐ ERGBOARD(S) @ $15.95 +$3 HANDLING EACH.
ENCLOSE CHECK OR MONEY-ORDER
PAYABLE TO: INFO-64
PO BOX 958
AUBURN, WA 98071

NAME: ____________________

ADDRESS: ____________________

CITY: ____________ STATE: ____ ZIP: ____

(Washington residents add 8% tax)

"IT'S ERGONOMIC !"

GEN. EDUCATIONAL (CONT'D)

TRIVIA!
DIG.........(T/D).......14.95/19.95....NOW..NA
YOUR CHOICE OF GENERAL & MOVIES / SCIENCE & HISTORY / LITERARY & QUOTATIONS.

VOCABULARY MASTER
GAT.........(T).........20.00...........NA...NA
500- WORD VOCABULARY BUILDER.

LANGUAGE TUTOR
DIG.........(T).........14.95...........NOW..NA
3 LEVELS EACH; GERMAN OR SPANISH - OR ALL 3 ON ONE DISK FOR 29.95.

CONSTELLATION QUIZ
GAT.........(T).........15.00...........NA...NA
ASTRONOMY LESSONS AND QUIZZES

EDUCATION PAK
COMPUTERMAT.(D/T).......29.95/24.95.....NOW..NA
4 PROGRAMS: GEOGRAPHY MATCH / MATH ADVENTURE / RULER / MICRO

NEW ADDITIONS

64-S.A.T.
CRQ.........(R&D)......129.95...........JAN..NA
AID PROSPECTIVE COLLEGE ENTRANTS IMPROVE S.A.T. SCORES/ CONTAINS A COMPLETE 18-HR. S.A.T. PREPARATION COURSE.

COMPUTER SAT
HBJ.........(D).........79.95...........NA...NA
1000 VOCAB-BUILDING FLASH CARDS/ 540 DRILL ITEMS/ COMPLETE 470 PG. TEXT BOOK/ 4 FULL-LENGTH EXAMS/ SCORES & TIMES/ DIAGNOSES STRENGTHS & WEAKNESSES/ PRESCRIBES DRILLS AND REVIEWS.

LEARNINGWARE/WIZARD OF WORDS/THE GAME SHOW (ETC.)
CAI.........(D).........NA..............NA...NA
COMPREHENSIVE-SOUNDING LINE OF EDUCATIONAL SOFTWARE: ALL INCLUDE COLOR ANIMATION, BUILT-IN LIBRARY OF SUBJECTS, AND AUTHORING FEATURES FOR INDIVIDUAL TAILORING. FREE BACKUP DISK & GUARANTEED. (WE ARE INTRIGUED WITH THE GAME-SHOW FORMAT OF THREE OF THESE PACKAGES- THE STUDENT BECOMES A GUEST ON A TV GAME SHOW PRESUMABLY MASTERING THE SUBJECT IN THE COURSE OF PERFORMING WELL ON THE 'TV SHOW'- SOUNDS LIKE A GREAT APPROACH!)

EARLY GAMES SERIES
CSI.........(?).........NA..............NA...NA
FUN LEARNING ACTIVITIES FOR 2 1/2 TO 12 YRS. THESE USE PICTURE MENUS AND GRAPHICS AND COVER SHAPE, NUMBER, & LETTER EXPOSURE/ MUSIC/ ELEM. MATH/ FRACTIONS ETC.

ROMAN NUMERALS
CRQ.........(R&D).......79.95...........NA...NA
CLASSROOM PACKAGE INCLUDES INSTRUCTOR NOTEBOOK AND STUDENT HANDOUTS.

THE VISIBLE SOLAR SYSTEM
CBM.........(R)........<15.00...........NOW..***+
GRAPHIC TOUR THRU THE SOLAR SYSTEM INTRODUCES MANY PLANETARY CONCEPTS EFFECTIVELY AND COLORFULLY.

THE SPEED READER II (2 DISKS)
DAV.........(D).........69.95...........NA...NA
HIGH SCHOOL, COLLEGE, & ADULTS.

ADVANCED MATH & SCIENCE >

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

NUMBER CRUNCHER
HIN.........(D).........59.95...........NOW..***+
MENU-DRIVEN STATISTICAL PACKAGE: USER BUILDS DATABASE OF UP TO 3000 LABELED ITEMS/ FOURTEEN TRANSFORMATIONS AVAILABLE/ HANDLES MISSING VALUES/ SECTIONS INCLUDE: UNIVARIATE & BIVARIATE STATISTICS, SCATTER PLOTS, FREQUENCY TABLES & HISTOGRAMS, T TESTS, ONEWAY ANALYSIS OF VARIANCE, MULTIPLE REGRESSION, STEPWISE REGRESSION, & CHI-SQUARE CONTINGENCY TABLE ANALYSIS. CHARACTER GRAPHICS ONLY- WOULD BE MUCH NICER WITH HI-RES GRAPHING.

ALGEBRA ARCADE
WEP.........(D).........49.95...........NOW..****-
GRAPHING OF ALGEBRAIC EQUATIONS (UP TO 40 CHARACTERS) IN HI-RES ON COORDINATE SYSTEM. GAME-MODE HAS YOU ZAPPING 'ALGEBROIDS' WITH THE GRAPHS OF EQUATIONS YOU WRITE. MUCH MORE FUN AND USEFUL THAN IT MAY SOUND.

STAT
MES.........(D).........24.95...........NA...NA
PACKAGE FOR TEACHING STATISTICS INCLUDES: BINOMIAL FREQUENCIES, CONFIDENCE INTERVALS, COMPARISON OF MEANS, CHI-SQUARE, CORRELATION COEFFICIENT, LINEAR REGRESSION, CENTRAL LIMIT THEOREM, ANALYSIS OF VARIANCE, AND BAR GRAPH GENERATOR.

COMP
MES.........(D/T).......19.95/14.95.....NA...NA
DRILL PROGRAM COVERS DECIMALS AND NEGATIVE NUMBERS.

COMPUTER CALCULATOR
PIO.........(D).........29.95...........NOW..NA
DESIGN AND STORE COMPLEX FORMULAE/ USE 64 LIKE PROGRAMMABLE SCIENTIFIC CALCULATOR.

'MASTER MATH' SERIES (#1-6)/($150.00 FOR SET)
PMI.........(D).........30.00 EACH......NOW..NA
1- LOGS & ANTILOGS
2- ALGEBRA & SETS
3- AREAS & VOLUMES
4- TEST PROBLEMS: FACTORS, INTEREST, TRIG, CALCULUS, PERCENTS, BASES AND EXPONENTS
5- TEST PROBLEMS: ALGEBRA, GEOMETRY, STATISTICS, RATIOS, EXPONENTS
6- TEST PROBLEMS: GEOMETRY, LCM, MAPPINGS, FRACTIONS, ALGEBRA, CURRENCY.

C-64 WORLD CLOCK
RAK.........(D/T).......10.95/7.95......NA...NA
SHOWS HI-RES GRAPHIC WORLD MAP AND CALCULATES WORLD TIMES/ CORRECTS FOR DAYLIGHT SAVING TIME & PLOTS APPARENT POSITION OF SUN RELATIVE TO EARTH.

FAST FOURIER TRANSFORM
RED.........(D)........*79.95...........NA...NA
(* 59.95 FOR STUDENTS/PROFESSORS) FOR STUDYING OR USING THE FFT./ MULTI-MODE INPUT, TRANSFORM, SAVE, AND HI-RES DISPLAY PLUS UTILITIES AND SAMPLE DATA CASES.

COLLEGE PAK
USE.........(D).........29.95...........NA...NA
25+ PROGRAMS ASSIST IN STUDY OF COLLEGE-LEVEL MATH, PHYSICS, CHEMISTRY, ENGINEERING, LANGUAGE, HISTORY, & MEDICINE.

EDUCATIONAL COLLECTIONS >

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

64 PUBLIC DOMAIN
CBM.........(D)........250.00...........NOW..***
646 PROGRAMS ON 52 DISKS WITH INDEX. COVERS BROAD RANGE OF SUBJECTS AND AGE-GROUPS. MOSTLY EDUCATIONAL WITH SOME ENTERTAINMENT, ADMINISTRATIVE, AND DEMONSTRATION SELECTIONS. NOT ORIGINALLY AVAILABLE TO INDIVIDUAL CONSUMERS, EXCEPT THRU SCHOOLS AND CLUBS, THE SET IS BEGINNING TO SHOW UP FOR SALE AT SOME DEALERS NOW.

EDUCATIONAL ASSORTMENT
MED.........(T).....from 7.95...........NOW..***
150+ SELECTIONS: GRADES K THRU COLLEGE. LIMITED USE OF GRAPHICS: THESE ARE MOSTLY RE-WRITES OF OLDER PET PROGRAMS

EDUCATIONAL ASSORTMENT
MGR.........(T).........12.95-EA........NOW..NA
OVER 100 PROGRAMS ON WIDE RANGE OF ACADEMIC SUBJECTS GRADES 1 - ADULT. PRICES COME DOWN FOR SIX OR MORE SELECTIONS. DISKS AVAILABLE FOR EXTRA CHARGE.

EDUCATIONAL ASSORTMENT
PGI.........(T)..........8.95...........NA...NA
FOR AGES 3-9, SOUND AND GRAPHICS, MOST INTERFACE WITH PGI's EDUMATE LIGHT PEN. ENTIRE SET AVAILABLE ON DISKETTE FOR $79.95

EDU. COLLECTIONS (CONT'D)

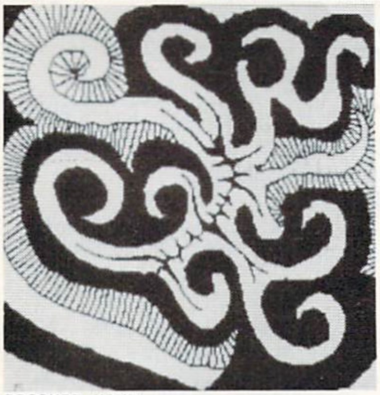
EDUCATIONAL ASSORTMENT
MPH.........(D/T).......NA..............NA...NA
GRADES 4 THRU COLLEGE. ALL SUBJECTS INCLUDING SAT ANALOGIES, ANAGRAMS, CALCULUS, PHYSICS, AND CHEMISTRY.

NEW ADDITIONS

EDUCATIONAL ASSORTMENT
RSL.........(D/T).......19.95 TO 49.95..NA...NA
GRAMMAR, PHONICS, ELEMENTARY MATH, FUN PACKS (EDUCATIONAL GAMES).

ASSORTED EDUCATIONAL
DAB.........(D/T).......29.95 TO 39.95..NA...NA
AGES 3 TO COLLEGE/ WELL-ROUNDED SELECTION/ SELF-DIRECTING PROGRAMS NEED NO ADULT SUPERVISION/ SELF-CORRECTING & SELF-MOTIVATING. (WE ESPECIALLY LIKE THE SOUND OF 'DISCOVER' FOR 3-5 YRS. AND 'PERPLEXITY'-PROBLEM SOLVING, LOGIC, & ORGANIZATIONAL SKILLS FOR 7 YRS.+)

GRAPHICS



DRAWN WITH INKWELL SYSTEMS' "FLEXIDRAW" LIGHT-PEN

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

SORCERER'S APPRENTICE
EHS.........(D).........49.95...........NOW..****
SEE REVIEW FALL '83 ISSUE

'64 GRAFIX SAMPLER
MID.........(T).........19.95...........NOW..**
SIMPLE SPRITES AND SIMPLER HIGH-RES. ROUTINES. THE PUBLIC DOMAIN STUFF GOING AROUND IS MUCH MORE IMPRESSIVE.

'64 PENCIL
DUN.........(D/T).......24.95...........NA...NA
M.L. HIGH-RES DRAWING. SINGLE-KEY COMMANDS / JOYSTICK 'PENCIL' / 10 SPEEDS / BLOCK DUPLICATION / ERASE / 1525 PRINTER DUMP / SAVE TO DISK OR TAPE

SCRIBBLER
SNX.........(T).........35.95...........NOW..NA
HIGH-RES. DRAWING IN MULTI-COLOR MODE, MAGNIFY, PAINT, & CIRCLE COMMANDS; JOYSTICK REQUIRED.

PAINT WIZARD
DM0.........(R/D).....< 40.00...........NOW..NA
DRAW ON THE SCREEN. AUTOMATIC CIRCLES, LINES, PATTERNS.

DOODLE
OMN.........(T/D).......29.95...........NOW..NA
MACHINE LANG. DRAWING ROUTINES INCLUDE PAINT & ERASE WITH 8 BRUSH SIZES, DUPLICATE, ENLARGE, REDUCE, REVERSE, MIRROR. MENU- DRIVEN / COLOR NOT SUPPORTED.

DELTA DRAWING
SPI.........(R).........NA..............NA...NA

SKETCH PAD 64
DIG.........(D).........19.95...........NOW..***
"WORKS LIKE A SPIROGRAPH AND AN ETCH-A-SKETCH..." SAVE TO DISK. "SLIDE- SHOW" MODE.

SCREEN-GRAPHICS-64
ABA.........(T/D).......24.95/27.95.....NOW..NA
ADDS 20+ COMMANDS TO BASIC ALLOWING SIMPLE MEANS FOR DRAWING POINTS, LINES, BOXES, AND SPRITES. DISPLAYS CAN BE SAVED TO TAPE OR DISK.

'64 PANORAMA
MID.........(T).........19.95...........NA...NA
19 PRE-DIGITIZED DRAWINGS AS WELL AS A HIGH-RES. DRAW ROUTINE FOR JOYSTICK AND DUMP TO CBM PRINTER.

NEW ADDITIONS

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

PENWARE
INK.........(D).........150.00..........NOW..****
COMPREHENSIVE LIGHT-PEN DRAWING PACKAGE INCLUDES HI-QUALITY LIGHT-PEN/ SEE REVIEW THIS ISSUE.

GRAFIX-ARTIST
SPH.........(D).........39.95...........NOW..***
INCLUDES JOYSTICK DRAWING ROUTINES AS WELL AS A PROGRAMMING MODE AND SELF-RUNNING DEMO MODE WITH WHICH THE USER MAY MAKE A CUSTOM "SLIDE-SHOW" PRESENTATION/ 16 COLORS/ HELP SCREENS/ SAVE DRAWINGS TO DISK. LACKS AUTOMATIC SHAPES (CIRCLE, BOX, ETC) AND HAS NO ZOOM OR MAGNIFICATION FACILITIES.

3-D GRAPHICS DEVELOPMENT PACKAGE.
PIO.........(D)........<100.00...........JAN..NA
2-D OR 3-D DRAWINGS EASILY CONSTRUCTED/ FINISHED DRAWING CAN BE VIEWED FROM ANY PERSPECTIVE, EVEN FROM 'INSIDE' 3-D OBJECT LOOKING OUT! FINISHED 'FRAMES' MAY BE SHOWN IN SUCCESSION FOR 3-D ANIMATION (UP TO 1/2 HOUR-LONG SEQUENCES). ROUTINES MAY BE LINKED TO OTHER PROGRAMS, & FRAMES MAY BE EDITED WITH THE KOALA PAD OR A LIGHT-PEN FOR EXCEPTIONAL FLEXIBILITY.

PICTURE PERFECT
MWE.........(D).........24.95...........NOW..NA
JOYSTICK DRAWING/ 15 COLORS/ AUTO CIRCLES, LINES, BOXES/ MIX WITH TEXT/ SAVE PICTURES TO DISK

COLORING BOOKS 1 & 2
KOA.........(D).........24.95 EA........NOW..NA
PRE-DRAWN DESIGNS WHICH MAY BE COLORED IN USING THE KOALA-PAD.

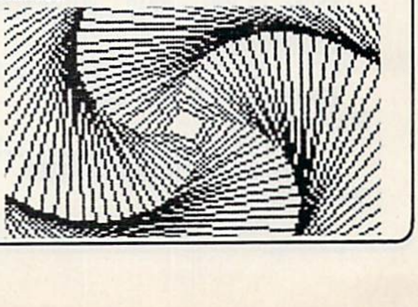
LOGO DESIGN MASTER
KOA.........(D).........NA..............NA...NA
GRAPHICS & PROGRAMMING LANGUAGE

MEGA DRAW
MEG.........(D/T).......15.95/12.95.....NA...NA
16 COLOR 'HI-RES' DRAWING - JOYSTICK OR KEYBOARD, HARDCOPY.

SLIDE SERVICE FOR KOALA PICTURES
VIS.........(NA)........NA..............NOW..NA
THIS OUTFIT WILL MAKE COLOR SLIDES OF YOUR KOALA-PAD SCREENS. SIMPLY MAIL IN THE DISKETTES CONTAINING THE PICTURES YOU WANT...GET BACK SLIDES!

COMPUTER CRAYONS
PLA.........(D/T).......29.95...........NA...NA
'ELECTRONIC COLORING BOOK' READY TO PAINT PICTURES ON THE SCREEN PLUS ROUTINES FOR DRAWING YOUR OWN: AUTO LINES, CIRCLES, BOXES, ERASING/ STORE & SAVE.

TRI GRAPH
TRI.........(NA)........34.95...........NA...NA
SKETCH IN COLOR/ CREATE CHARTS/ ANIMATE CHARACTERS/ BUILD SHAPE-SCREEN LIBRARIES



PLOTTING/PRINTER GRAPHICS

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

QUICK CHART
ABA.........(D/T).......17:95/14.95.....NOW..NA
PRESENTATION CHART- MAKER

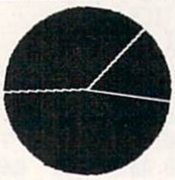
MATH GRAPH
SIM.........(NA)........19.95...........NA...NA

PRINTER UTILITY PROGRAMS
CAR.........(D/T).......24.95/19.95.....NOW..***
ALLOWS SCREEN DUMPS (NORMAL OR REVERSED) TO ALMOST ALL DOT MATRIX PRINTERS. ALSO ALLOWS PRINTING OF ENTIRE CBM CHARACTER SET (GRAPHICS SYMBOLS TOO). ALSO INCLUDES TWO LARGE PRINTER FONTS FOR BANNERS OF VARIOUS SIZES.

'64 BANNER/HEADLINER
MID.........(T).........19.95...........NA..NA
USE TO CREATE LARGE BANNERS ON A VARIETY OF PRINTERS.

BOLDFACE
LOG.........(T).........18.00...........NOW..NA
ALLOWS USE OF 3 CUSTOM FONTS FOR SPECIAL EFFECTS PRINTING.

NEW ADDITIONS



THE GRAPHICS ASSISTANT
RAI.........(D).........79.95...........NA...NA
BUSINESS GRAPHICS PACKAGE INTERFACES WITH RAINBOW'S BUSINESS SOFTWARE FOR CHARTS, GRAPHS, ETC. BAR, LINE, & PIE CHARTS GENERATED FROM BUSINESS DATA/ MIXED TEXT & GRAPHICS SUPPORTED.

THE BANNER MACHINE
VIR.........(D/T).......49.95...........NA...NA
PRODUCES 8 SIZES OF TEXT PRINT-OUT TO YOU EPSON, COMMODORE, OKIDATA, OR PRO-WRITER PRINTER. TEXT FROM 3/4" TO 8" HIGH. ALSO PRINTS BORDERS.

INSTA-GRAPH
CIM.........(NA)........NA..............NA...NA

SPRITE/CHARACTER EDITORS

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

SPRITE DESIGNER
ACA.........(NA)........16.95...........NOW..NA
BOASTS ELABORATE MANIPULATIONS FOR SPRITES INCLUDING: MERGE, ROTATE, SHEAR, TRANSLATE, REVERSE, REFLECT, INTERSECT, ETC.

SPRITE-64
CRO.........(NA)........49.95...........NA...NA
ASSEMBLY LANG. / SUPPORTS 64 SPRITES ON SCREEN AT ONE TIME / USE JOYSTICK OR PADDLES / ADDS VARIABLES TO BASIC (SPRITE %, SX%, SY% ETC.) NO POKES NEEDED.

SPRITE-AID
ABA.........(T/D).......14.95/17.95.....NOW..NA
FULL-FEATURED SPRITE EDITOR: SAVES SPRITES AS READY-TO-USE DATA STATEMENTS. SUPPORTS JOYSTIKS, KEYBOARD, AND MULTI-COLOR.

DELUXE SPRITE SHAPER
QUA.........(T/D).......29.95/31.95.....NOW..***
MULTI-COLOR SPRITE EDITOR.

SPRITE EDITOR
LUN.........(T).........32.95...........NOW..NA
CREATE MULTI-COLORED SPRITES.

SPRITE WRITER
ACS.........(NA)........19.95/24.95.....NOW..NA

SPRITEWRITER
PIX.........(T).........18.95...........NOW..NA

SPRITE FUN 64
ENT.........(NA)........30.00...........NA...NA

SPRITE GEN
FAN.........(D/T).......17.95/15.95.....NA...NA

SPRYTEBYTER
FOX.........(D/T).......34.95/29.95.....NOW..NA
MENU-DRIVEN / SUPPORTS MULTI- COLOR / JOYSTICK OR KEYBOARD / M.L. ROUTINES / OVER 60 COMMANDS / ROTATE, INVERT, OBVERT, SYMMETRY, AND/OR, REVERSE, MOVIE ETC. / CREATE UP TO 128 SPRITES PER FILE. INCLUDES 'GAMEMAKER' ROUTINE TO AID GAME DEVELOPMENT.

SPRITEMAKER
GTR.........(T).........10.00...........NA...NA

SUPER SPRITE
LIT.........(D).........NA..............NA...NA

MULTI-COLOR CHAR. EDITOR
JUS.........(D/T).......21.95/19.95.....NA...NA
CREATE YOUR OWN CHARACTER SETS. LOAD AND SAVE / 192 CHARS. AT A TIME / ROTATION AND SHIFTS / CURSOR CONTROLLED

NEW ADDITIONS

SPRITEMASTER 64
ACC.........(D).........35.95...........NOW..****
JOYSTICK OR KEYBOARD SPRITE CREATION/ MULTI-COLOR/ SAMPLES INCLUDED/ ANIMATION ROUTINES INCLUDED/ SPRITES MAY EASILY BE APPENDED TO USER PROGRAMS.

CHARACTER GENERATOR/EDITOR
WEO.........(D).........24.95...........NA...NA
"...POWERFUL HI-RES GRAPHICS & TEXT THRU REDEFINED CHARACTERS."

SPRITE GENERATOR
WEO.........(D).........24.95...........NA...NA

GAME DESIGNER 64
ENT.........(D/T).......35.95...........NA...NA
DESIGN GAME CHARACTERS, BACKGROUNDS, SCREENS/ ANIMATE UP TO 16 SPRITES/ LINK WITH OTHER PROGRAMS/ COMBINES WITH ENTECH'S STUDIO 64 (FOR ADDING SOUND ROUTINES).

SPRITE GRAPHICS DEV. PACKAGE
TSI.........(D/T).......19.95...........NA...NA
EDIT 128 NORMAL OR MULTI-COLOR SPRITES/ 'HELP' FEATURE/ 35 COMMANDS/ MACHINE CODE ROUTINES/ 32 SPRITES DISPLAYABLE AT ONE TIME.

MUSIC

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

SOUND SHAPER
QUA.........(T/D)........9.95/11.95.....NOW..***
KEYBOARD CONTROL OF SOUNDS. ALL FEATURES OF SID MAY BE MANIPULATED FROM GRAPHIC SCREEN MENUS. SOUNDS ARE AUTOMATICALLY CONVERTED INTO READY TO USE POKES AND DATA STATEMENTS FOR YOUR OWN PROGRAMS AT THE PUSH OF A KEY.

NOTE PRO I
ELI.........(D/T).......27.95/24.95.....NOW..***
SIMILAR TO NOTE PRO II BUT WITHOUT TRANSPOSE AND ARRANGE / 4 OCTAVES / ONE MEASURE INPUT DISPLAY / NO FILE JOIN

NOTE PRO II
ELI.........(D/T).......49.95/46.95.....NOW..****
HIGH SPEED PLAY / 8 MEASURE TREBLE CLEF INPUT DISPLAY / VARIABLE DURATIONS / LEGATO OR STACCATO / TRANSPOSE / 8 OCTAVE / RE-SEQUENCE / SID CONTROLS / FILE JOINING / TONE PRESETS

NOTE PRO BRIDGE
ELI.........(D/T).......27.95/24.95.....NOW..NA
M.L. SUBROUTINE WHICH MAY BE COPIED AND ADDED TO USER'S PROGRAMS ALLOWING ACCESS FROM BASIC TO NOTE PRO FILES. FULL DOCUMENTATION.

MUSIC (CONT'D) >

THE STAFF

PMS.........(T/D).......14.95/19.95.....NOW..NA

"POLYPHONIC MUSIC EDITOR AND GENERATOR. ENTER UP TO 93 MEASURES OF 3 PART HARMONY ON EASY TO USE GRAPHIC DISPLAY."

SYNTHY-64

ABA.........(T/D).......29.95/32.95.....NOW..NA

CREATES VARIOUS SOUNDS AND MELODIES WITHOUT POKES VIA SIMPLIFIED COMMANDS ADDED TO BASIC.

(6502 machine code listing...25.00)
(manual only...................5.00)

MUSIC MAGIC

ACS.........(T/D).......19.95/24.95.....NOW..NA

DIRECT KEYBOARD CONTROL OF SOUNDS.

EARLY GAMES MUSIC

COU.........(NA)........NA..............NA...NA

ASSORTMENT OF GAMES THAT INTRODUCE 4 TO 12 YEAR OLDS TO THE BASICS OF MUSIC.

MUSIC MAKER

COM.........(D/T).......24.95/19.95.....NOW..NA

ENTER SHEET MUSIC NOTES FOR PLAYBACK IN 3 VOICES. INCLUDES SAMPLE TUNES.

MUSIC MAKER 64

ENT.........(NA)........39.00...........NA...NA

SUPER 64 MUSIC MAKER

SEY.........(T).........19.95...........NA...NA

PLAY, MODIFY, SAVE, AND LOAD MUSIC.

DELTA MUSIC

SPI.........(R).........NA..............NA...NA

NEW ADDITIONS

MUSICOMP

COA.........(NA)........39.95...........NA...NA

COLOR GRAPHICS/ MENU MODE/ BASIC-LIKE CODE EDITOR/ SHEET MUSIC ENTRY/ 50 PG. MANUAL.

INSTA-MUSIC

CIM.........(R/D/T).....NA..............NA...NA

WRITE, STORE, PLAY MUSIC.

MUSICWRITER - 64

DEE.........(D).........NA..............DEC..NA

FROM THE MAKERS OF " M'FILE": CREATE, EDIT, PLAY 3-VOICE MUSIC/ COMPLETE CONTROL OF SID CHIP/ GENERATES SHEET MUSIC

STUDIO 64

ENT.........(D/T).......39.95...........NA...NA

GENERATES GRAPHIC DISPLAY OF NOTES AS YOU PLAY/ 3 VOICES/ VARIABLE SPEED PLAYBACK/ PRINTS LEAD SHEETS.

SONGWRITER

SCA.........(NA)........39.95...........NA...NA

SIMULATED PIANO ROLL GRAPHICS/ WRITE, EDIT, VARIABLE TEMPO PLAYBACK/ COMES WITH 28-SONG LIBRARY.

EAR-TRAINER

HOR.........(D).........29.95...........NA...NA

6 PROGRESSIVE LEVELS TO HELP YOU SING ON-KEY!

DANCING FEATS

SFS.........(NA)........NA..............NA...NA

"THE ONE-MAN JOYSTICK BAND": CREATE, SAVE, PLAYBACK MUSIC.

PERSONAL ENRICHMENT & SELF-DISCOVERY >

DIET CALC

MYS.........(D/T).......24.95/19.95.....

TELL THE COMPUTER WHAT YOU ATE AND WHAT YOU DID, AND IT WILL CALCULATE YOUR GAIN (OR LOSS)

NEW ADDITIONS

MODEL DIET

SFS.........(NA)........NA..............NA...NA

"ANALYZES YOUR DIET...BASED ON GOVERNMENT RESEARCH...TRACKS CALORIE INTAKE..."

AEROBICS

SPI.........(D).........NA..............NA...NA

LEADS YOU THROUGH WARM-UPS, STRETCHES, AEROBICS, & COOL-DOWN.

TOTAL HEALTH

CSA.........(NA).......<30.00...........Q1...NA

GUIDE TO DIET & EXCERCISE: MONITOR FOOD INTAKE/ PLOT EFFECTS OF VARIOUS EXCERCISE & EATING COMBINATIONS/ DATA ON 200 FOODS INCLUDES COVERING CALORIES, CARBOHYDRATES, SODIUM, FAT, AND PROTEIN/ CALCULATES DAYS TO REACH WEIGHT GOAL BASED ON USERS PLAN.

BIORHYTHM+

NLI.........(T).........14.50...........NA...NA

CLASSIC BIORHYTHM WITH AUDIO FEEDBACK & COMPATABILITY COMPARISONS/ GENERATES PRINTOUTS.

EXPANDO-VISON PROGRAMS

STI.........(NA)........39.95 EA........NA...NA

SUBLIMINAL PROGRAMMING SYSTEM (REQUIRES $89 INTERFACE). CHOOSE FROM 8 PROGRAMS: WEIGHT CONTROL/EXERCISE, SMOKING/CALM NERVES, STRESS/POSITIVE THINKING, DRINKING/RESPONSIBILITY, ATHLETIC CONFIDENCE/GOLF, STUDY HABITS/MEMORY, CAREER/SUCCESS, SEXUAL CONFIDENCE. SYSTEM FLASHES MESSAGES TO YOUR TELEVISION FOR 1/30 SECOND WHILE WATCHING YOUR FAVORITE SHOWS - TOO FAST TO NOTICE, BUT LONG ENOUGH TO BE ABSORBED BY THE SUBCONSCIOUS. MESSAGES MAY BE VIEWED IN SLOW-MOTION IF YOU WANT TO KNOW WHAT YOU'VE BEEN 'READING'.

THE HYPNOTIST

PSY.........(D/T).......87.95/79.95.....NA...NA

INTENDED FOR SELF-ADMINISTERED BEHAVIOR MODIFICATION/ PROGRAM YOUR OWN POST-HYPNOTIC SUGGESTIONS/ INCLUDES PSYCOM'S BIOFEEDBACK DEVICE.

PERSONALITY ANALYZER

PSY.........(D/T).......32.95/S7.95.....NA...NA

ANALYZE SELF & OTHERS REGARDING PERSONALITY TYPE, CAREER POTENTIAL, TENDENCIES, COMPATIBILITIES ETC. - REQUIRES JOYSTICK.

I-CHING PROGRAM

CYG.........(D/T).......29.95/24.95.....NA...NA

HAVE YOUR 64 'THROW' AND INTERPRET HEXAGRAMS FROM THE ANCIENT CHINESE 'BOOK OF CHANGES'

IQ64

SNS.........(D/T).......24.95/19.95.....NA...NA

45-MINUTE, 60-QUESTION PROGRAM FOR AGES 9 & UP TESTS AND CALCULATES IQ/ INCLUDES EXPLANATIONS/ CLAIMS TO HELP IMPROVE IQ TEST PERFORMANCE.

MISCELLANEOUS >

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

PRO-BOWL

ACS.........(D)........199.95...........NA...NA

RECORD KEEPING AND HANDICAPPING FOR BOWLING LEAGUES (....WE WOULD ADD 'WELL-FUNDED' BOWLING LEAGUES)

BASKETBALL STATS

MWS.........(D).........39.50...........NA...NA

MENU-DRIVEN AID FOR COACHES: TRACK 18 PLAYERS THRU 30 GAMES / REPORTS ON FIFTEEN STATISTICS (ELEVEN ARE PRE-DEFINED) / PRINTER SUPPORTED

MISCELLANEOUS (CONT'D) >

FOOTBALL SCOUT
MWS.........(D).........79.50............NA...NA
GET THE JUMP ON YOUR RIVALS: ANALYZE OTHER TEAM'S OFFENSE / UP TO 50 PLAYS PER GAME STORED / 6 GAMES MAY BE LINKED FOR A 300- PLAY COMPOSITE REPORT. 3 REPORTS: INDIVIDUAL PLAYS, TENDENCIES, ZONE- HASH- DOWN- DISTANCE CHART.

ASSORTED RANGE OF PROGRAMS
MIO.........(SEND FOR CATALOG)..........NA...NA

ASSORTED RANGE OF PROGRAMS
PTM.........(NA)........NA..............NA...NA

NEW ADDITIONS

PRO-GENY
ACS.........(?).........49.95............NA...NA
GENEALOGY PROGRAM/ CONFORMS TO LDS STANDARDS/ RECORDS FOR 4 GENERATIONS OF UP TO 10 CHILDREN EACH GENERATION.

ARCADE & ACTION GAMES >

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

JUMPMAN
EPY.........(D).........39.95...........NOW..*****
(SEE "GALLERY" FALL ISSUE.)

DAVID'S MIDNIGHT MAGIC
BRO.........(D).........34.95...........NOW..*****+
(SEE "GALLERY" FALL ISSUE.)

GRIDRUNNER
HES.........(R).........39.95...........NOW..*****+
(SEE "GALLERY" FALL ISSUE.)

MOTOR MANIA
UMI.........(D/T).......29.95...........NOW..****
(SEE "GALLERY" FALL ISSUE.)

FROGGER
SIE.........(D).........34.95...........NOW..****
(SEE "GALLERY" FALL ISSUE.)

REPTON
SIR.........(NA)........39.95...........NOW..****
NOW THIS IS A FIRST-RATE DEFENDER TYPE GAME! M.L. OF COURSE. GREAT ACTION, ANIMATION, SOUND, AND PLAY FEATURES.

FORT APOCALYPSE
SYN.........(D/T).......34.95...........NOW..****-
TAKE YOUR JET COPTER DOWN THRU TUNNELS AND CAVE. GOOD ARCADE ACTION: JOYSTICK.

RETRO BALL
HES ....(R).........39.95...........NOW..***+
M.L. AIR-HOCKEY SIMULATION, JOYSTICKS REQ'D.

PAKACUDA
CDC.........(T/D).......19.95/23.95.....NOW..***+
(SEE "GALLERY" FALL ISSUE.)

CENTROPODS
CDC.........(T/D).......19.95/23.95.....NOW..***+
CENTIPEDE THEME/ M.L. / JOYSTICK.

NEUTRAL ZONE
ACC.........(D/T).......34.95...........NOW..***+
DEEP SPACE COMBAT/ ALL M.L. HI-RES. SMOOTH SCROLLING (360 DEG.) / 3-D REALISM / GREAT SOUND EFFECTS.

KONGO KONG
VCT.........(NA)........19.95...........NOW..***+
ROLLING BARRELS, LADDERS, & THE FAMOUS GORILLA.

ATTACK OF THE PHANTOM KARATE DEVILS
PHA.........(D/T).......34.95...........NOW..***+
LOVE THE NAME! MARTIAL-ARTS THEME/ SEND YOUR BLACK-BELTED WARRIOR UP AGAINST DEADLY NINJAS. PUNCHES, KICKS & LEAPS CONTROLLED BY JOYSTICK/ LOOK OUR FOR ASSORTED DEADLY PROJECTILES. GOOD SPRITE ANIMATION.
(SEE 'GALLERY' THIS ISSUE)

KILLER PILLER
CAS.........(D/T).......12.75/9.99......NOW..***+
SIMILAR TO 'CENTIPEDE' WITH SOME INTERESTIN TWISTS/ GOOD GRAPHICS AND SOUND (NO, THE PRICE IS NOT A MISPRINT).
(SEE 'GALLERY' THIS ISSUE)

LASER STRIKE
ISI.........(D/T).......29.95/24.95.....NOW..***+
ORIGINAL GRAPHICS ADD APPEAL TO THE FAMILIAR CRUISE, SHOOT, & BOMB THEME.
(SEE 'GALLERY' THIS ISSUE)

FAST EDDIE
SIR.........(D).........34.95...........NOW..***
CUTSIE GAME GETS OLD FAST. NONETHELESS, THE GRAPHICS ARE SMOOTH AND EVERYTHING WORKS.

TORPEDO
SUS.........(T/D).......25.95/27.95.....NOW..***
SUB-HUNT GAME WITH GAUGES AND A SONAR SCREEN.

RUNWAY 64
SUS.........(T/D).......25.95/27.95.....NOW..***
INSTRUMENT-BASED FLIGHT SIMULATOR GAME. NOT ANIMATED.

ANNIHILATOR
VCT.........(NA)........19.95...........NOW..***
SMART-BOMBS & BLASTERS, ANIMATION

CANDY-MAN
STA.........(T).........24.95...........NOW..***
MUNCH THRU THE FAMILIAR MAZE. M.L. W/ SCROLLING WINDOW. USES KEYBOARD GRAPHICS.

ARCADE PAK
COM.........(T).........24.95...........NOW..***
3 GA,ES: HEAD ON, ALIEN INVASION, & TARGET COMMAND.

GAME PAK
COM.........(T).........14.95...........NOW..***
3 GAMES: DRAGON CHASE, DEFLECT, & FLIP-IT.

CRUSH-CRUMBLE-CHOMP
EPY.........(D).........29.95...........NOW..NA
DINOSAURS VISIT YOUR CITY- YOU ASK THEM TO LEAVE.

EVOLUTION
SDP.........(NA)........NA..............NA...NA
99 LEVELS, ARCADE SOUND & GRAPHICS.

PROTECTOR II/ SHAMUS/ THE PHARAOH'S CURSE/ SURVIVOR/ SLAM BALL/ DRELBS
SYN.........(T/D).......34.95 EA........NOW..NA
HIGH-RES. M.L. ANIMATED ARCADE GAMES.

TWERPS/ TURMOIL/ DEADLY DUCK/ FANTASTIC VOYAGE/ ALPHA/ BLADE OF BLACKPOOL/ CRITICAL MASS/ SNAKE BYTE/ SPIDER CITY/ SQUISH/ TYPE ATTACK
SIR.........(NA)........39.95 EA........NOW..NA

"BLADE OF BLACKPOOL"

SPORE WAR
DIG.........(T/D).......14.95/19.95.....NOW..NA
ARCADE SHOOT-EM-UP.

MAZE-BLOCKADE
DIG.........(T/D).......14.95/19.95.....NOW..NA

COLLISION
TOP.........(T/D).......12.95/15.95.....NOW..NA

RENEGADE F-16/ FIREFIGHTER/ MONEY MINEFIELD/ MOONLANDER/ PEDESTRIAN
LUN.........(NA)........19.95 EA........NOW..NA

SUBWAR 64
CCI.........(D/T).......23.95/19.95.....NOW..NA
SUB-HUNT SIMULATION GAME WITH GAUGES, PERISCOPE VIEW, AND SONAR.

STELLAR TRIUMPH
INT.........(NA)........24.95...........NOW..NA

SKIER 64
ABA.........(T/D).......14.95/17.95.....NOW..NA
JOYSTICK OR KEYBOARD. SOUND & SPRITES.

ARCADE GAMES (CONT'D) >

SHOOTING GALLERY
EME.........(NA)........21.95..........NOW..NA
M.L. ARCADE GAME.

SEAWOLFE
AAR.........(D/T).......24.95/19.95.....NA...NA
M.L. SEA- WAR GAME / JOYSTICK.

ZEUS
AAR.........(D/T).......24.95/19.95.....NA...NA
M.L. / THUNDERBOLTS, GODS, & SHIELDS.

LAZER BLAZER
ACS.........(D/T).......24.95..........NA...NA
FAST-MOVING CYCLE GAME/ JOYSTICKS

4-GAME PACK
ADA.........(D/T).......29.99..........NA...NA
SERPENTS/ ATOMIC MAN/ ALIEN INVASION/ HEAD ON.

VOYAGER 64
BIL.........(D/T).......24.95..........NA...NA
M.L. MULTI- SCREEN.

MISSION 64
BRI.........(T+D).......19.95..........NA...NA
SPACE SHOOT-EM-UP / JOYSTICK OR KEYS.

SERPENTINE
BRO.........(R).........39.95..........FALL.NA
M.L. HUNGRY SNAKES / JOYSTICK.

CHOPLIFTER
BRO.........(R).........44.95..........FALL.NA
A POPULAR HOME ARCADE GAMES. NOW FOR THE 64 / JOYSTICK.

ATTACK OF THE MUTANT CAMELS
HES.........(R).........44.95..........NA...NA
SEQUEL TO 'GRIDRUNNER' / FAST AND FUN / JOYSTICKS.

APE CRAZE / LOGGER / SUPERCUDA / PEGASUS ODYSSEY / ESCAPE MCP
CDC.........(D/T).......27.95.EA.......NOW..NA

MOONDUST / TRASHMAN / ASTROBLITZ / SAVE NEW YORK (ALL REQUIRE JOYSTICK)
CRE.........(R).........34.95.EA.......NOW..NA

POOYAN / MOON SHUTTLE
DAS.........(D).........34.95.EA.......NA...NA

AIR STRIKE / JET BOOT JACK / VENUS VOYAGERS / TOPSEE TURVEE / MONSTER SMASH
DMO.........(R/D).....< 40.00.EA.......NA...NA

SHOOTING GALLERY
EME.........(NA)........21.95..........NA...NA

ALL-STAR BASEBALL / PITSTOP
EPY.........(NA)........NA.............NA...NA

STAR LEAGUE BASEBALL
GAM.........(NA)........NA.............NA...NA

ARMADA / INTERCEPTOR
GTR.........(T).........10.00 EA.......NA...NA

VOYAGER
GTR.........(T).........15.00..........NA...NA

FINAL CONFLICT
MIS.........(NA)........NA...
.........NA...NA

ROADTOAD / CHICKEN CHASE
M&B.........(T).........19.95..........NA...NA
M.L. / HI-RES COLOR GRAPHICS & SOUND.

3-D MAN
NUF.........(T).........19.95..........NOW..***
HOW PAC-MAN WOULD LOOK FROM THE 'GRID' / SPRITES, SOUND / JOYSTICK.

KOOKY CLIMBER
REN.........(D/T).......24.95..........NA...NA

SHOOTING GALLERY
REN.........(D/T).......23.95..........NA...NA

CROSSFIRE / JAWBREAKER
SIE.........(D/T).......34.95..........NA...NA

CYCLONS
SNX.........(D/T).......31.95/27.95.....NA...NA
ALL M.L. HI-RES GRAPHICS & SOUND.

SKI-RUN / BUNNY
STC.........(T).........20.00 EA........NA...NA

METEOR
STC.........(T).........12.00..........NA...NA

ZWARK
SWC.........(D/T).......24.95/19.95.....NA...NA
ALL M.L. HI-RES / SPRITES / SOUND

SPACE SENTINEL
T&F.........(D).........29.95..........NA...NA
SPRITE & CHAR. GRAPHICS WITH 3-VOICE SOUND.

SUICIDE STRIKE / JUICE / KID GRID
TRO.........(NA)........34.95 EA.......NA...NA

CHOMPER MAN
VCT.........(NA)........19.95..........NA...NA

FIRE ANTS AND KILLER BEES
WIZ.........(D/T).......24.95/22.95.....NA...NA
ALL M.L. / 2-PLAYER MULTI- LEVEL

NEW ADDITIONS

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

Q*BERT
PAR.........(R).........NA.............NOW..*****
ABSOLUTELY FAITHFUL RENDITION OF THE COIN-OP FAVORITE. THE 64 VERSION SURPASSES ALL OTHERS/ SUPERB ANIMATION, SOUND, GRAPHICS AND GAME-PLAY.
(SEE 'GALLERY' THIS ISSUE)

DONKEY KONG
ATA.........(R).........44.95..........NOW..*****
THE ORIGINAL NINTENDO ARCADE GAME BROUGHT TO COMMODORE BY ATARI! IF YOU NEED THIS GAME DESCRIBED, YOU HAVE BEEN OFF THE PLANET FOR THE LAST COUPLE OF YEARS. THE 64 VERSION OUTSHINES EVEN THE ATARI VERSION.
(SEE 'GALLERY' THIS ISSUE)

CENTIPEDE
ATA.........(R).........44.95..........NOW..*****
ONCE AGAIN, A COMPLETELY CONVINCING ADAPTATION OF THE CLASSIC, WITH ALL THE NUANCES OF THE ORIGINAL.

ROBOTRON:2084
ATA.........(R).........44.95..........NOW..****+
IF YOU LIKED IT IN THE ARCADES, YOU'LL BE HAPPY WITH THIS ATARI CONVERSION OF THE WILLIAMS GAME FOR THE 64.
(SEE 'GALLERY' THIS ISSUE)

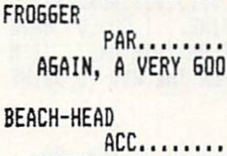
PAC-MAN
ATA.........(R).........44.95..........NOW..****+
IT'S THE 'REAL' THING. WHAT ELSE CAN WE SAY?

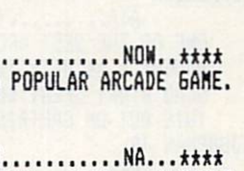
HARD HAT MACK
ELE.........(D).........35.00..........NOW..****
ENTERTAINING ARCADE GAME, ALONG THE LINES OF, BUT NOT QUITE AS GOOD AS 'JUMPMAN'.

FROGGER
PAR.........(R).........NA.............NOW..****
AGAIN, A VERY GOOD TRANSLATION OF A POPULAR ARCADE GAME.

BEACH-HEAD
ACC.........(D).........34.95..........NA...****
FIRST-RATE NAVAL BATTLE SIMULATION WITH MULTIPLE SCREENS, SMOOTH 3-D MACHINE-LANG. ARCADE-QUALITY ANIMATION AND SOUND.
(SEE 'GALLERY' THIS ISSUE)

WAYOUT
SIR.........(D).........39.95..........NOW..****
BEST 3-D MAZE GAME WE HAVE SEEN/ FLOWING ANIMATION/ FREE 'WAYOUT' GLASSES!





BANDITS
SIR.........(D).........39.95..........NOW..****
GOOD SPACE GAME OF THE 'GALAXIAN' GENRE.

ARCADE GAMES (CONT'D) >

METAMORPHOSIS
VCT.........(D/T).......19.95...........NOW..***+
MULTI-SCREEN GAME REMINISCENT OF 'ROBOTRON'
(SEE 'GALLERY' THIS ISSUE)

PURPLE TURTLES
QUI.........(T).........29.95...........NOW..***+
ENTERTAINING WELL-ANIMATED NON-VIOLENT GAME HAS YOU CROSSING A STREAM ON THE BACKS OF UNPREDICTABLE DIVING TURTLES (SORT OF LIKE 'FROGGER' IN CROSS-SECTION)
(SEE 'GALLERY' THIS ISSUE)

GALACTIC BATTLES
CYB.........(D).........19.95...........NOW..***+
THIS SPACE ARCADE GAME HAS SOME OF THE MOST UNUSUAL AND PLEASING SOUND-EFFECTS WE HAVE HEARD ON THE 64. NICE GRAPHICS.
(SEE 'GALLERY' THIS ISSUE)

SUPERCYCLES
PIO.........(D).........31.95...........NOW..***+
'TRON' THEME/ DRIVE YOUR LIGHT-CYCLE PAST THE BADDIES WITHOUT RUNNING OUT OF FUEL/ TWO SCREENS/ JOYSTICK.
(SEE 'GALLERY' THIS ISSUE)

TOWERING INFERNO
PIO.........(D).........34.95...........NOW..***+
THIS IS A CUTE GAME: CATCH THE LEAPING CHARACTERS IN YOUR FIREMAN'S NET/ LOOK OUT FOR THE LARGE ONES, THEY'LL SQAUSH YOU!
(SEE 'GALLERY' THIS ISSUE)

GRIDDER
MDG.........(D/T).......24.95/19.95.....NOW..***
MOVE ALONG THE VARIOUS GRIDS, AVOIDING THE TWO BADDIES.
(SEE 'GALLERY' THIS ISSUE)

WORMS
ELE.........(D).........35.00...........NOW..NA
UNIQUE GAME IN WHICH PLAYERS (UP TO 4) PROGRAM THEIR COLORFUL, MUSICAL "WORMS" TO TAKE OVER AND DOMINATE THE GAME GRID. THE 64 WILL PLAY THE PARTS OF ANY MISSING PLAYERS.

AXIS ASSASSIN
ELE.........(D).........35.00...........NOW..NA
SURVIVE THE WEB-SPINNING 'MASTER ARACHNID' AND RESCUE EXTRA MEN FROM ITS NEST.

DIG-DOUG
ATA.........(R).........44.95...........NOW..NA
ATARI IS ESPECIALLY PROUD OF THIS CONVERSION TO THE 64/ I LIKE THIS GAME IN THE ARCADES AND AM LOOKING FORWARD TO 'TESTING' THE HECK OUT OF IT ON A 64!

DEFENDER
ATA.........(R).........44.95...........NOW..NA
ONE OF THE BEST ARCADE GAMES OF ALL TIME. I COULD HAVE BOUGHT A 64 WITH THE QUARTERS I SPENT ON THIS ONE...(I'M GLAD ATARI SPENT SOME OF MY QUARTERS ON THE R&D TO BRING THIS OUT ON CARTRIDGE FOR THE 64!)

JUMPMAN JR.
EPY.........(D).........NA..............NOW..NA
SEQUEL TO THE POPULAR "JUMPMAN"/ ADDS MANY MORE SCREENS, PUZZLES, AND CHALLENGES.

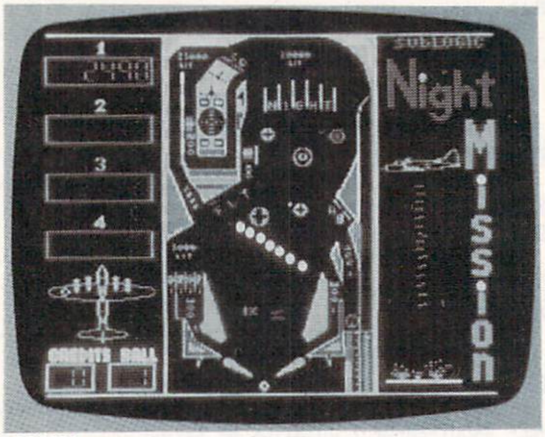
SNOKIE
FUN.........(D/T).......34.95...........NA...NA
15-SCREEN ARCADE GAME WITH GOOD-LOOKING COLOR GRAPHICS AND A FRIENDLY LOOKING PENQUINOID IN THE STARRING ROLE.

FLIP AND FLOP
FIR.........(NA)........NA..............NA...NA
GOOD-LOOKING GRAPHICS IN THIS NEW ARCADE GAME.

WATERLINE
TRO.........(D).........NA..............NA...NA
RESCUE PASSENGERS AND GOLD FROM YOUR SINKING SHIP.

QUEST OF THE EAGLE
FER.........(D/T).......28.75...........NA...NA
PERHAPS THE ONLY SOFTWARE YET TO COME OUT OF CEDAR RAPIDS IOWA/ AN INTERESTING- LOOKING STAR-TREK TYPE SPACE GAME.

NIGHT MISSION PINBALL
SUB.........(D).........49.95...........NOW..NA
AWARD-WINNING PINBALL SIMULATION WITH TEN LEVELS OF PLAY/ ALSO FEATURES AN EDITOR FEATURE FOR CUSTOMIZING THE GAME.



MINER 2049ER
RES.........(NA)........NA..............NA...NA

SAMMY LIGHTFOOT
SIE.........(NA)........NA..............NA...NA

STRATEGY/SIMULATION/ PARLOR/ & CASINO >

PRODUCT NAME
VENDOR CODE   MEDIA   PRICE   AVAIL RTG.

RENAISSANCE (OTHELLO)
UMI.........(T).........29.95...........NOW..****
(SEE "GALLERY" FALL ISSUE)

GRANDMASTER (CHESS)
UMI.........(T).........32.95...........NOW..****
(SEE "GALLERY" FALL ISSUE)

WORDRACE
DON.........(D/T).......24.95/19.95.....NOW..****
FOR 1-4 PLAYERS/ 2000 WORDS AND DEFINITIONS/ MULTIPLE CHOICE GUESSING GAME/ WORDS, SPORTS, & FAMOUS PERSONS SECTIONS.

==>> ODESTA'S "MIND OF MAN" SERIES (CHESS 7.0 / CHECKERS 2.1 / ODIN) ARE HIGHLY REGARDED IN APPLE, ATARI, AND TRS-80 CIRCLES. SOON TO BE AVAILABLE FOR THE 64, THESE ARE THE BEST! (THE WHOLE SET MAY BE PURCHASED TOGETHER IN A CLASSY BOX AT A REDUCED PRICE.)

CHESS 7.0
ODE.........(D).........69.95...........NA...NA

CHECKERS 2.1
ODE.........(D).........49.95...........NA...NA

ODIN (OTHELLO)
ODE.........(D).........49.95...........NA...NA

COMPELLO
FAN.........(D/T).......17.95/15.95.....NA...NA

PSI WARRIOR
EPY.........(NA)........NA..............NA...NA
3-D CHESS-LIKE GAME.

==>> AVALON HILL GAME COMPANY HAS SEVERAL GAMES WRITTEN FOR THE PET WHICH RUN FINE ON THE 64 (CHARACTER GRAPHICS ONLY). TITLES INCLUDE: TELENGARD / ANDROMEDA QUEST / PLANET MINERS / NORTH ATLANTIC CONVOY RAIDER / MIDWAY CAMPAIGN / B-1 NUCLEAR BOMBER / DRAW POKER / NUKEWAR / COMPUTER FOOTBALL STRATEGY / COMPUTER STOCKS AND BONDS.
AHG.........(T).........16.00 TO 24.00...NOW..***

BANDIT (SLOT MACHINE SIMULATION)
CAS.........(NA)........15.99...........NA...NA

CASINO CRAPS
GPM.........(T).........12.95...........NOW..NA

STRATEGY/SIMULATION/ >
PARLOR/ & CASINO (CONT'D) >

64 BLACKJACK
DES.........(T).........18.00..........NOW..NA
64 KENO
DES.........(T).........16.00..........NOW..NA
ROCKY LARUE'S CASINO
GAT.........(T).........29.95..........NA...NA
SLOTS / BLACKJACK / KENO / POKER / CRAPS / & MADAM MAGENTA'S LOUNGE! ALL INCLUDED.
BACKGAMMON
STC.........(T).........24.00..........NA...NA
64 YAHTZEE
GAT.........(T).........20.00..........NA...NA
SPRITES AND SOUND FOR UP TO 10 PLAYERS.
MONOPOLY
MYS.........(D/T).......24.95/19.95.....NA...NA
KENTUCKY DERBY
SIM.........(NA)........19.95..........NA...NA
KONNECT FOUR
GPM.........(T).........10.95..........NOW..NA
CODEBREAKER
GTR.........(T).........20.00..........NA...NA
EUCHRE
HUT.........(D/T).......29.95..........NA...NA
FOUR HANDED EUCHRE: YOU VS. THE 64- GOOD LUCK!
CRIBBAGE 64
LIT.........(D/T).......NA.............NA...NA
CRIBBAGE
ABA.........(T/D).......14.95/17.95.....NOW..NA
SEARCH SERIES
T&F.........(T).........19.95..........NA...NA
FIND WORDS IN GRIDS OF LETTERS: 3 PACKAGES, EACH WITH 3 CATEGORIES: WORDSEARCH (CAPITALS/ JUMBLED/ ANIMALS) - SPORTSEARCH (PRO TEAMS/ COLLEGE TEAMS/ SPORT GAMES) - ARCADESEARCH (HOME VIDEO GAMES/ ARCADE VIDEO GAMES/ FAMOUS VIDEO GAME CHARACTERS).
64 MIND BOGGLER
DES.........(T).........15.00..........NA...NA
SPELLATHON
FAN.........(D/T).......21.95/19.95.....NA...NA
WORDLORD
GTR.........(T).........15.00..........NA...NA
WORD MATCH
SIM.........(NA)........14.95..........NA...NA
SCRAMBLERS (3 WORD GAMES)
RAM.........(T).........19.95..........NA...NA
NUMBER JOTTO
SIM.........(NA)........14.95..........NA...NA
64 FINANCE
DES.........(T).........20.00..........NOW..NA
STOCK MARKET SIMULATION
WALL STREET
TMW.........(T/D).......24.95..........NOW..NA
FUR TRAPPER
BRI.........(T).........14.95..........NA...NA
HIGH SEAS
BRI.........(T).........14.95..........NA...NA

NEW ADDITIONS

FLIGHT SIMULATOR II
SUB.........(D).........49.95..........NOW..NA
HI-RES REAL-TIME COLOR ANIMATED FLIGHT SIMULATOR: PRACTICE TAKEOFFS, LANDINGS, & AEROBATICS IN YOUR PIPER 181 CHEROKEE ARCHER, OR FLY INTO A WORLD WAR I DOGFIGHT. INCLUDES 80 AIRPORTS IN N.Y., CHICAGO, SEATTLE, AND L.A./ ADJUSTABLE WEATHER CONDITIONS/ COMPLETE INSTRUMENTATION.
HELLCAT ACE
MPS.........(R/T).......29.95..........NA...NA
3-D COMBAT FLYING SIMULATION.
WINGMAN / MIG ALLEY ACE
MPS.........(R/T).......34.95.EACH.....NA...NA
"PLAYER VS. PLAYER, HEAD TO HEAD, SPLIT SCREEN 3-D COMBAT FLYING SIMULATIONS
JURY TRIAL
NAV.........(NA)........29.00..........NA...NA
YOU ARE THE PROSECUTOR/ THE COMPUTER IS THE JURY/ THOUSANDS OF CASES POSSIBLE IN THIS COURTROOM SIMULATION.
SARGON II
HAY.........(D/T).......NA.............NA...NA
ONE OF THE OLDEST COMPUTER CHESS PACKAGES
CHAMPIONSHIP GOLF
HAY.........(D/T).......NA.............NA...NA
GO
HAY.........(D/T).......NA.............NA...NA
THE CLASSIC ORIENTAL BOARD GAME.
EAGLES
STR.........(D).........39.95..........NOW..NA
FLY THE CLASSIC WAR-PLANES, OR DESIGN AND FLY YOUR OWN
RINGSIDE SEAT
STR.........(D).........39.95..........NOW..NA
SEMI-ANIMATED BOXING SIMULATION- ARRANGE THE MATCH-UPS OF THE CENTURY, SEE WHO WOULD HAVE WON.
QUIZAGON
CSI.........(NA)........NA.............NA...NA
"6000 QUESTIONS EXPLORE YOUR KNOWLEDGE" IN THE AREAS OF SCIENCE, SPORTS, ENTERTAINMENT, AND POTPOURRI.

COLLECTIONS >

CURSOR 64 (#1-#5)
CUR.........(T).........12.95 EACH......NOW..***
64 COLLECTION (#1 & #2)
PUB.........(T/D).......10.00 EACH......NOW..***

TEXT ADVENTURE GAMES >

====>> THE INFOCOM ADVENTURE SERIES ARE THE LEADING TEXT-BASED ADVENTURE GAMES. THEY ALL INCORPORATE A VERY POWERFUL LANGUAGE INTERPRETER (PARSER) WHICH HAS A VOCABULARY OF ABOUT 600 WORDS, ALLOWING INPUT OF WHOLE AND MULTIPLE SENTENCES INCLUDING ADJECTIVES (IE: TAKE THE ROUGH OBJECT AND THE LONG DEVICE. PUT THE OBJECT AND THE DEVICE IN THE OPEN CONTAINER.). THIS IS VERY IMPRESSIVE TO EXPERIENCE AND GIVES AN UNCANNY SENSE OF INTELLIGENCE IN THE MACHINE. (INFOCOM EMPHASIZES THAT GRAPHICS HAVE BEEN DELIBERATELY OMMITTED TO ENHANCE THE USE OF THE IMAGINATION. WE FEEL IT IS MORE LIKELY DUE TO THE DIFFICULTY & EXPENSE OF WRITING GRAPHICS ROUTINES FOR THE WIDE NUMBER OF SYSTEMS WHICH THEIR GAMES WILL RUN ON NOW. WE FEEL THAT SIMPLE GRAPHIC ON-SCREEN MAPPING WOULD AD TREMENDOUSLY TO THESE OTHERWISE EXCELLENT GAMES AND NAIL A 5-STAR RATING TO BOOT!)

ZORK-I
INF.........(D).........39.95..........NOW..****
THE ORIGINAL ADVENTURE CLASSIC.
ZORK-II
INF.........(D).........39.95..........NOW..****
ZORK-III
INF.........(D).........39.95..........NOW..****
DEADLINE
INF.........(D).........49.95..........NOW..****+
YOU ARE THE DETECTIVE SOLVING A MURDER IN THIS EXCITING ADVENTURE. VERY REALISTIC CHARACTERS WITH DISTINCT PERSONALITIES
STARCROSS
INF.........(D).........39.95..........NOW..****
SCIENCE FICTION THEME.
SUSPENDED
INF.........(D).........49.95..........NOW..****+
(SEE "GALLERY" FALL ISSUE.)

TEXT ADV. GAMES (CONT'D) >

```
DUNGEONS OF DEATH / ESCAPE FROM MARS / PYRAMID
        AAR.........(D/T).......19.95/14.95.EA..NA...NA
TREASURE PAK (ADVENTURE / CAVES OF SILVER / SHUTTLE VOYAGE)

        COM.........(D/T).......19.95/14.95.....NOW..NA
CARNAC CAVERNS
        LIT.........(NA)........NA..............NA...NA
EERIE MANSION
        MYS.........(D/T).......24.95/19.95.....NA...NA
WHO-DUN-IT / BANSHEE CASTLE
        RAM.........(NA)........19.95 EA........NA...NA
ADVENTURE PAK 1 (JACK AND THE BEANSTALK  / COMPUTER
ADVENTURE / MOON BASE ALPHA
        VCT.........(T).........19.95...........NA...NA
ADVENTURE PAK 2 (AFRICAN ESCAPE / HOSPITAL ADVENTURE / BOMB
THREAT)
        VCT.........(T).........19.95...........NA...NA
```

NEW ADDITIONS

```
INFIDEL/ ENCHANTER/ THE WITNESS/ PLANETFALL
        INF.........(D).........49.95 EACH......NOW..NA
   4 MORE "INTERACTIVE FANTASIES" FROM THE COMPANY THAT
   WROTE THE BOOK ON INTERACTIVE FANTASY.
```

GRAPHIC ADVENTURE GAMES >

```
PRODUCT NAME
 VENDOR CODE            MEDIA      PRICE            AVAIL  RTG.

TEMPLE OF APSHAI
        EPY.........(D/T).......39.95...........NOW..*****+
   (SEE "GALLERY" FALL ISSUE.)
UPPER REACHES OF APSHAI
        EPY.........(D/T).......19.95...........NOW..****
   EXPANSION MODULE FOR "TEMPLE" ABOVE.
CURSE OF RA
        EPY.........(D/T).......10.95...........NOW..****
   EXPANSION MODULE FOR "TEMPLE" ABOVE.
GATEWAY TO APSHAI
        EPY.........(D/T).......NA..............NA...NA
   NEWEST SEQUEL TO "TEMPLE" SERIES.
SWORD OF FARGOAL
        EPY.........(D/T).......29.95...........NOW..****
   "JUNIOR" VERSION OF TEMPLE GAMES.  SIMPLER COMMAND
   INTERFACE FOR YOUNGER OR LESS PATIENT PLAYERS.
ROBBERS OF THE LOST TOMB
        TMW.........(T/D).......24.95...........NOW...N.A.
WARRIOR OF RAS SERIES (DUNZHIN / KAIV / WYLDE / ZIGGURAT)
        INS.........(D/T).......39.95 EA .......NA...NA
   REAL-TIME ADVENTURES IN M.L. WITH HI-RES COLOR GRAPHICS,
   SOUND.
GOTHMOG'S LAIR
        PRG.........(D/T).......39.95...........NOW..NA
GYPSUM CAVES
        ADI.........(D/T).......16.95/14.95.....NA...NA
THE WIZARD'S TOWER
        AAR.........(D/T).......19.95/14.95.....NA...NA
MOUNTAIN KING
        CBS.........(NA)........NA..............NA...NA
GRAVE ROBBERS
        VCT.........(T).........14.95...........NOW..***+
```

NEW ADDITIONS

```
MURDER ON THE ZINDERNEUF
        ELE.........(D).........40.00...........NOW..NA
QUIZARDRY
        PIO.........(D).........36.95...........NOW..NA
   GRAPHICS ADVENTURE GAME IS SORT OF A CROSS BETWEEN
   'TRIVIAL PURSUIT', AND DUNGEONS AND DRAGONS.  ADVANCE
   THRU THE GAME AND FIND THE SIX KEYS USING YOUR KNOWLEDGE
   OF THE OBSCURE.
```

OTHER GAMES >

```
PRODUCT NAME
 VENDOR CODE            MEDIA      PRICE            AVAIL  RTG.
UP FOR GRABS
        SPI.........(R).........34.95...........NOW..****
   FUN CROSSWORD-TYPE PUZZLE FOR UP TO FOUR PLAYERS OF
   VARIOUS AGES AND SKILLS.  JOYSTICKS OR PADDLES.  GOOD
   GRAPHICS.
FRACTION FEVER
        SPI.........(R).........34.95...........NOW...***
MOONDUST
        CRE.........(R).........34.95...........NOW..NA
   UNUSUAL GAME WHICH CREATES MUSIC AND PLEASING GRAPHICS
IN SEARCH OF THE MOST AMAZING THING
        SPIN........(D).........39.95...........SEP..NA
   ANOTHER UNUSUAL GAME WHICH EXPOSES CHILDREN TO
   PROBLEM-SOLVING (WITH ALIENS), ECONOMICS, NAVIGATION,
   ETC.
FACEMAKER
        SPI.........(R/D).......34.95...........NA...NA
STORY MACHINE
        SPI.........(R/D).......34.95...........NA...NA
KINDERCOMP
        SPI.........(R/D).......29.95...........NA...NA
COSMIC LIFE
        SPI.........(R).........NA..............NA...NA
BABIES OF THE DIRT
        ENT.........(NA)........35.00...........NA...NA
ESCAPE FROM SIMON CITY
        GTR.........(T).........15.00...........NA...NA
MAGGIE ('ARTIFICIAL INTELLIGENCE')
        RAM.........(T).........19.95...........NA...NA
VECTRON
        SIM.........(NA)........14.95...........NA...NA
SPACE CADET
        FAN.........(D/T).......17.95/15.95.....NA...NA
GUNSLINGER
        FAN.........(D/T).......17.95/15.95.....NA...NA
```

NEW ADDITIONS

```
PINBALL CONTRUCTION SET (BILL BUDGE)
        ELE.........(D).........40.00...........NOW..*****
   INFO-64'S CHOICE FOR RECREATIONAL SOFTWARE OF THE YEAR .
   MUCH MORE THAN A GAME, WE WANT TO SEE MORE OF THIS  GOLD
   FROM ELECTRONIC ARTS! (WE SHOULDN'T HAVE TO  WAIT  LONG-
   'MUSIC CONSTRUCTION SET'- BELOW- SHOULD BE AVAILABLE  BY
   THE TIME YOU READ THIS.
MUSIC CONSTRUCTION SET
        ELE.........(D).........40.00...........DEC..NA
```

PROGRAMMING- LANGUAGES >

```
PRODUCT NAME
 VENDOR CODE            MEDIA      PRICE            AVAIL  RTG.

LOGO
        CBM.........(D).........99.95...........NOW..****
   A NATURAL FOR THE 64!
VANILLA PILOT
        TAM.........(D/T).......29.95...........NOW..***+
COMAL
        CIG.........(D).........15.00...........NA...NA
   LEN LINDSAY HAS BEEN WRITING FERVENTLY ABOUT THIS
   RELATIVELY UNKNOWN LANGUAGE FOR SOME TIME NOW.  WE LIKE
   HIS ENTHUSIASM AND DEDICATION AND HOPE THE LANGUAGE
   BECOMES AVAILABLE IN IT'S FINAL 64 VERSION SOON.  IT
   SOUNDS LIKE A VERY WORTHY HIGH- LEVEL LANGUAGE (FAST.
   STRUCTURED, SUPPORTING GRAPHICS AND SOUND DIRECTLY)
   WHICH MAY YET TAKE A PLACE BESIDE BASIC, FORTH, AND
   PASCAL.  FOR A THOROUGH TREATMENT OF THE SUBJECT, SEE
   'COMMODORE' MAGAZINE- VOL4, NUMBER 3 (FALL '83).
```

PROGRAMMING- LANGUAGES >

C64 FORTH

PER.........(D).........99.95...........NOW..NA

FORTH 79 WITH EXTENSIONS, FULL SCREEN EDITOR AND ASSEMBLER, SUPPORTS HI-RES, CHARACTER, AND SPRITE GRAPHICS, SOUND CAPABILITIES. FULL I/O, IEEE AND BASIC DATA FILE COMPATABILITY, MANUAL WITH EXAMPLES OF BASIC TO FORTH CONVERSIONS, TRACE FOR DEBUGGING.

FULLFORTH+

MCT.........(D).........100.00...........NOW..NA

ENHANCED FIG FORTH: STRINGS, FLOATING POINT, EDITOR, COND. ASSEMBLER, INTERPRETER. TARGET COMPILER AVAILABLE FOR 50.00.

64-FORTH

BSS.........(D).........59.95...........NOW..NA

FIG FORTH WITH EXTENSIONS: VIRTUAL MEMORY / COMPILED CODE / TEXT EDITOR AND MACRO ASSEMBLER / DISK & PRINTER I/O / DOUBLE PRECISION MATH / FILE HANDLING WORDS / COMES WITH 400 WORDS.

FORTH

MIN.........(D/T).......37.95...........NA...NA

FIG-FORTH WITH ASSEMBLER / EDITOR / FLOATING POINT / GRAPHICS / SOUND / TUTORIAL / SUPPORT. (ALSO AVAILABLE ARE TWO TUTORIALS FOR $13 EA.: GAMES, GRAPHICS, AND SOUND / ARTIFICIAL INTELLIGENCE.)

64 FORTH

HES.........(R).........59.95...........NOW..NA

FIG-TYPE IMPLEMENTATION WITH FULL-SCREEN EDITOR AND HORIZONTAL-SCROLLING WINDOW.

KMMM PASCAL

MCT.........(D).........85.00...........NOW..NA

"...TRUE COMPILER THAT GENERATES MACHINE CODE FROM PASCAL SOURCE...EDITOR, COMPILER, TRANSLATOR INCLUDED."

Z-80 VIDEO PAK (CP/M)

DAT.........(R&D)......299.95...........NOW..NA

CP/M OPERATING SYSTEM AND Z80 MICROPROCESSOR WITH 80-COL. DISPLAY GENERATOR ALL IN ONE PACKAGE.

ACTION

OSS.........(R).........99.00...........NA...NA

SOON TO BE RELEASED FOR THE 64. CLAIMS TO BE FASTEST 8-BIT LANGUAGE (OVER 100 TIMES SPEED OF BASIC). 128-COLUMN SCREEN EDITOR / MONITOR MODE / ONE-PASS COMPILER.

TURTLE GRAPHICS II

HES.........(R).........59.95...........NOW..NA

NEW ADDITIONS

CRYSTAL

CYB.........(D)........<60.00...........Q2...NA

DEVELOPEMENT LANGUAGE ALLOWS INTERMEDIATE LEVEL BASIC PROGRAMMERS TO CREATE SOPHISTICATED GAMES USUALLY NOT POSSIBLE WITHOUT ASSEMBLY OR MACHINE-LANG. PROGRAMMING SKILLS. GAIN MASTERY OVER SPRITES, INTERRUPTS, SOUND, ANIMATION, AND MORE. USES NO BASIC & GENERATES STAND-ALONE INDEPENDENT CODE WHICH CAN THEN BE RUN ON ANY OTHER 64.

NEVADA COBOL

CBM.........(D)........<60.00...........NOW..NA

ZOOM PASCAL

ABA.........(D).........39.95...........NOW..NA

PRODUCES 6502 MACHINE CODE/ FEATURES: FLOATING POINT, INTEGERS, STRINGS, FILE HANDLING.

TINY FORTH

ABA.........(D/T).......27.95/24.95.....NOW..NA

PILOT II

TAM.........(D).........49.95...........NOW..NA

ENHANCED VERSION OF VANILLA PILOT: 25 EDITING COMMANDS, 29 TURTLE GRAPHIC COMMANDS, AND 23 PROGRAM COMMANDS/ SIMPLIFIED ROUTINES FOR SPRITES, HIRES, & SOUND/ MIXED TEXT AND HI-RES TURTLE GRAPHICS/ INTEGRAL SPRITE EDITOR.

CP/M 2.2

CBM.........(R).......<100.00...........NOW..NA

TURNS THE 64 INTO A DUAL-PROCESSOR MACHINE RUNNING UNDER DIGITAL RESEARCH'S CP/M OPERATING SYSTEM.

CP/M

EST.........(R).........349.00...........NA...NA

TRI FORTH

TRI.........(?).........NA..............NA...NA

SUPER FORTH 64

PAE.........(D).........89.00...........NA...NA

SUPPORTS SOUND, HI RES, COLOR, & SPRITES/ "SAVE TURNKEY" GENERATES DISTRIBUTABLE APPLICATIONS DISKS/ CONDITIONAL MACRO ASSEMBLER/ SUPPORTS ALL I/O AND 64 PERIPHERALS.

APPLICATIONS GENERATORS >

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

THE LAST ONE

BSS.........(D).........99.95...........NOW..NA

THIS PROGRAM IS A PROGRAM THAT WRITES BASIC PROGRAMS FOR THE USER BASED ON THE USERS CONCEPTS WHICH ARE EXTRACTED BY THE COMPUTER THRU A QUESTION & ANSWER PROCESS. WHEN "THE LAST ONE" HAS ALL THE INFORMATION IT NEEDS, IT WRITES THE (SUPPOSEDLY BUG-FREE) PROGRAM! ALSO GENERATES FLOW CHARTS AND DOCUMENTATION FOR YOUR NEW PROGRAM. IF YOU HAVE AN APPLE II OR IIE, THIS SAME SOFTWARE COSTS $395; ON EVERYTHING ELSE IT IS $495! WE HAVE OBTAINED A COPY OF THIS INTERESTING SOFTWARE & WILL REVIEW IT IN A FUTURE ISSUE.

NEW ADDITIONS

CODEWRITER

DYT.........(D).........NA..............NA...NA

WRITES FINISHED STAND-ALONE APPLICATIONS IN BASIC. 'WORK IN PLAIN ENGLISH...DRAW ANY SCREEN LAYOUT, ADD ANY CALCULATIONS...OR HELP MESSAGES YOU NEED...CODEWRITER WRITES ALL THE BASIC CODE.'

HOME FILEWRITER

DYT.........(D).........69.00...........NA...NA

APPARENTLY A HOME VERSION OF CODEWRITER (ABOVE)/ LACKS MENU AND REPORT GENERATING CAPABILITIES, THO THESE CAN BE ADDED LATER VIA EXPANSION SOFTWARE.

EXTENSIONS TO BASIC >

SYSRES

SOL.........(D).........95.00...........NOW..****-

ABSOLUTELY LOADED WITH FEATURES; FAST-SCROLLING/ RE-DEFINE KEYS/ AUTO & RE-NUMBER/ TRUE MERGES/ FIND-CHANGE WITH WILD-CARDS/ SPACE AND REM REMOVAL/ 3 TRACE MODES TO NAME A VERY, VERY FEW. MAY NOT BE SUITABLE FOR THE CASUAL USER DUE TO COMPLEXITY (THO WE KNOW SEVERAL PEOPLE WHO USE ONLY THREE OR FOUR OF THE SCORES OF COMMANDS AND FUNCTIONS AND FEEL THEY HAVE GOTTEN MORE THAN THEIR MONEY'S WORTH).

GRAPHDOS

INT.........(D).........39.95...........NA...NA

ADDS 12 DOS COMMANDS / 11 HI-RES GRAPHICS COMMANDS / 5 LO-RES GRAPHICS COMMANDS / & 12 MISC. COMMANDS TO BASIC. INCLUDES 20-COMMAND MINI-MON.

BASIC AID

MTS.........(D).........29.95...........NA...NA

DISK UTILITIES INCLUDE: RENUMBER/ SEARCH & REPLACE/ SUBROUTINE EXTRACT/ PROGRAM MERGE/ LINE NUMBER & VARIABLES CROSS-REF.

SCREEN GRAPHICS 64

ABA.........(D/T).......27.95/24.95.....NOW..NA

ADDS OVER 20 COMMANDS TO BASIC FOR DRAWING LINES, BOXES, PLOTTING POINTS, MANIPULATING SPRITES. HI-RES & MULTI-COLOR MED.-RES. MODES.

EXTENSIONS TO BASIC

SIMON'S BASIC
CBM.........(R).........NA.............NOW..NA

WE ARE HEARING RAVES FROM OUR CANADIAN FRIENDS WHO HAVE USED THIS PACKAGE. ADDS 114 COMMANDS TO BASIC. HI-RES / STRUCTURED PROGRAMMING / MUSIC COMMANDS / & PROGRAMMING AIDS SECTIONS.

NEW ADDITIONS

PROGRAM EDITOR
WEO.........(?).........29.95...........NA...NA

REWRITE, TROUBLESHOOT & DEBUG: WALKTHRU & QUICKTRACE/ USER-DEFINED FUNCTION KEYS.

POWER 64
PRL.........(D).........99.95...........NA...NA

D.A.M. (DISK ACCESS MANAGER)
CAN.........(D).........99.95...........NA...NA

PROVIDES FOR ADVANCED DISK-ACCESSING: SUPPORTS SEQUENTIAL ACCESS WITH FIXED AND VARIABLE LENGTH RECORDS/ DIRECT ACCES BY RECORD #/ INDEXED ACCESS/ KEYS TO 256 BYTES/ MULTIPLE INDICES PER FILE/ RECORDS TO 32,000 BYTES/ 65,000 RECORD PER FILE/ MULTIPLE VOLUMES EXCEDING DISKETTE CAPACITY/ FILE UTILITIES/ INTERFACES TO BASIC, ASSEMBLER, & OTHER LANGUAGES.

ADVANCE SCREEN AND CHARACTER SET
WEO.........(D).........49.95...........NA...NA

'EXPANDS SCREEN ACCESS. SCROLL 50 ROWS VERTICALLY, 40-120 HORIZONTALLY. FREES 4K OF MEMORY WITH IMPROVED CHARACTER SET'.

SUPER BASIC
RTC.........(D)........<35.00...........NOW..NA

ADDS: BASIC 4.0 COMMANDS/ ADDS EXTENDED GRAPHICS & SOUND COMMANDS/ ADDS "B"-SERIES BASIC EXTENSIONS

PROGRAMMING ENVIRONMENT

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

MAE (MACRO ASSEMBLER EDITOR)
EAS.........(D).........99.95...........NOW..NA

COMPLETE 6502 DEVELOPMENT SYSTEM/ WIDELY USED IN THE SOFTWARE INDUSTRY. INCLUDES WORDPROCESSOR.

6502/6510 PROFESSIONAL DEVELOPMENT SYSTEM
HES.........(T).........29.95...........NOW..NA

ONE- OR TWO-PASS ASSEMBLER USING STANDARD MOS MNEMONICS AND OPERAND FORMATS.

HESMON 64
HES.........(R).........39.95...........NOW..****+

6502/6510 M.L. MONITOR WITH MINI-ASSEMBLER.

MINI-MON
INT.........(T/D).......24.95...........NOW..NA

CMAR 64
CIM.........(NA)........NA..............NA...NA

DEVELOP 64
FRE.........(D/T).......59.95/54.95.....NA...NA

PTD-6510
PTE.........(D).........65.10...........NOW..NA

ADVANCED DEBUGGER: STEP, BREAKPOINTS, WINDOWING, SUPER COMPLEX CONDITIONAL BREAKS, SYMBOLIC DEBUGGING, PATCH, SHOW PRIOR 128 STEPS, COMPILED BASIC-LIKE LANGUAGE

DECMON
GOS.........(NA)........14.95...........NA...NA

EDIT & INSPECT CONTENTS OF MEMORY. CONVERT BETWEEN FOUR NUMBER BASES.

NEW ADDITIONS

MACROFIRE
EPI.........(?).........89.00...........NA...NA

70-COMMAND SCREEN EDITOR/ 3-PASS ASSEMBLER WITH MACRO- 1000+ LABLES/ M.L. MONITOR.

COMPILERS

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

PETSPEED
SMA.........(D)........150.00...........NOW..NA

POPULAR COMPILER USED BY MANY SOFTWARE DEVELOPERS CURRENTLY. CBM APPROVED.

TINY BASIC COMPILER
ABA.........(T/D).......19.95/22.95.....NOW..NA

FLOATING POINT COMPILER SUPPORTS IF/THEN, END, INPUT, GOSUB, GOTO, PRINT, REM, RETURN, STOP, USR, PEEK, AND ALL MATH FUNCTIONS. PRODUCES A COMMENTED LISTING OF EQUIVALENT 6502 CODE TO SCREEN OR PRINTER.

BASM (COMPILER/ ASSEMBLER)
COA.........(D).........99.95...........NOW..NA

"...UP TO 130 TIMES FASTER THAN BASIC...USES THE SYNTAX OF BASIC WITH ASSEMBLY LANGUAGE DATA TYPES AND ADDRESSING MODES."

DTL COMPILER 64
CIM.........(NA)........NA..............NA...NA

64 COMPILER
DES.........(NA)........100.00..........NA...NA

NEW ADDITIONS

BASIC COMPILER
JOU.........(?).........29.95...........NA...NA

INSTA-SPEED
CIM.........(?).........NA..............NA...NA

COPY & BACKUP PACKAGES

DISKIT 64
PTE.........(D).........75.00...........NA...NA

FAST SINGLE DISK BACKUP WITH UTILITIES.

64 DISK CLONE
DES.........(D).........15.00...........NA...NA

ONE-PASS BACKUP FOR 2 SINGLE DRIVES.

COPY CAT 64 (DISK BACKUP W/ UTILS.)
VIM.........(D).........19.95...........NA...NA

COPYMAKER
CGR.........(D).........30.00...........NA...NA

FAST SINGLE DRIVE BACKUP ROUTINE.

BACKUP V1.0
SWP.........(T).........24.95...........NA...NA

CASSETTE BACKUP ROUTINES.

NEW ADDITIONS

THE CLONE MACHINE
MWD.........(D).........39.95...........NOW..****

SINGLE & TWIN 1541 BACKUP ROUTINES/ COPIES ALL FILE TYPES, INDIVIDUALLY OR ENTIRE DISK/ EXAMINE & BACKUP (EVEN MANY PROTECTED DISKS)/ SUPPORTS UP TO FOUR DRIVES. WE FOUND THE OPERATION CONVENIENT AND DEPENDABLE (THO NO FASTER THAN MOST STANDARD BACK-UPS)/ THE EDITING FEATURES ARE WONDERFUL: DETAILED DIRECTORIES ARE DISPLAYED WITH TRACK, FILE, & RECORD INFO- CHANGES ARE MADE TO TITLES, ID'S, HEADERS ETC. BY SIMPLY TYPING OVER OLD TEXT- MANY OTHER FUNCTIONS AVAILABLE USING SPECIAL FUNCTION-KEY ASSIGNATIONS/ THIS IS MUCH MORE THAN A COPY PROGRAM.

DISK DUPLICATOR
H&H.........(D)..........9.95...........NOW..***

NO-FRILLS MACHINE LANG. COPY ROUTINE. 6-PASSES FOR FULL DISKETTE. RELIABLE AND PRICED RIGHT.

COPY & BACKUP PACKAGES

SUPER COPY 64

RTC.........(D).........39.95...........NOW..****-

IT IS HARD TO RATE THIS COPY PACKAGE: ON THE ONE HAND, IT IS THE FASTEST WE HAVE SEEN- BACKING UP A FULL DISKETTE IN LESS THAN 10 MINUTES! ON THE OTHER HAND, THE TWIN SINGLE DRIVE OPTION WOULD NOT WORK FOR US AT ALL, NECESSITATING SWAPPING DISKS THRU FOUR PASSESS (THIS STILL BEATS THE 6 PASSESS USUALLY REQUIRED BY CONVENTIONAL BACKUPS). THE OTHER (MINOR) ANNOYANCE WAS THAT WE GENERALLY HAD TO INITIALIZE THE DRIVE TO GET SUPERCOPY TO LOAD PROPERLY. THE SPEED, HOWEVER, IS THE BOTTOM LINE HERE, & OUTWEIGHS THESE OTHER CONSIDERATIONS.

MISC. UTILITIES

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

MENU MAGIC

SIM.........(NA)........19.95...........NA...NA

DISKETTE FILER

SIM.........(NA)........24.95...........NA...NA

CASSETTE FILER

SIM.........(NA)........14.95...........NA...NA

PRINTER UTILITY PROGRAMS

CAR.........(T).........19.95...........NOW..***+

ALLOWS SCREEN DUMPS TO EPSON, GEMINI, OR PROWRITER PRINTERS. REVERSE DUMPS / FROM PROGRAM OR KEY-TRIGGERED. ALSO PROVIDES FOR PRINTING OF GRAPHICS CHARACTER SET. INCLUDES LARGE-FONT BANNER ROUTINES FOR PRINTER.

PET LOADER

ECI.........(T).........23.95...........NOW..NA

PET EMULATOR

CBM.........(D).........19.95...........NOW..***+

NEW ADDITIONS

AXE/RECOVER

HAC........*(D).........23.99...........NOW..****

* THIS IS A COMBINATION HARDWARE & SOFTWARE PRODUCT. THE AXE IS A SMALL CARTRIDGE WHICH PLUGS IN WHERE YOUR MODEM USUALLY GOES- IT HAS A PUSHBUTTON SWITCH WHICH IS PUSHED TO REACTIVATE THE 64 WITHOUT CLEARING MEMORY. THE M.L. RECOVER SOFTWARE ALLOWS RECOVERY OF PROGRAM IN MEMORY AT THE TIME THE AXE IS ACTIVATED. USES: 'UN'NEW A PROGRAM, CIRCUMVENT PROTECTED PROGRAMS (FOR LEGITIMATE PURPOSES OF COURSE) WHICH USE LIST, SAVE, & RUN/STOP DISABLING/ STOPPING 'RUNAWAY' DISKS/ RESTARTING CARTRIDGES & SIMILAR OPERATIONS.

DISK SUPPORT 64

H&H.........(D).........14.95...........NOW..***

RE-CREATE

RTC.........(D)........<35.00...........NOW..NA

READS ANY ASCII FILES AND CONVERTS THEM TO FORM READABLE BY RICHVALE'S "SCRIPT-64" WORDPROCESSOR.

ADDS TWELVE DISK COMMANDS (SIMILAR TO COMMODORE WEDGE).

ADVANCE SERIAL DOS

WEO.........(D).........49.95...........NA...NA

PROMISES TO LOAD & SAVE PROGRAMS TWICE AS FAST ON YOUR 1541 THRU REPROGRAMMING OF DRIVE.

EZ/DISK

SFT.........(D).........29.95...........NA...NA

DISK UTILITIES/ SIMILAR FEATURES TO COMMODORE WEDGE.

DISK RETRIEVER

H&H.........(D).........9.95...........NOW..NA

ALLOWS FOR RECOVERY OF ACCIDENTALLY SCRATCHED FILES AND PROGRAMS FROM DISK.

FASTFIND FOR THE DATASETTE

WEO.........(D).........14.95...........NA...NA

'LOAD & SAVE PROGRAMS AT 'FAST FORWARD'

ADVANCE 1500 PRINTER PROGRAM

WEO.........(D).........49.95...........NA...NA

'SPEEDS OPERATION OF 1515/1525 PRINTER TO 50 CPS. ADDS FULL DESCENDERS.'

SOFTLOC

SFP.........(D).........29.95...........NA...NA

WITH THIS PACKAGE, USERS MAY MODIFY THEIR DISKS TO BE COPY- & LIST-PROTECTED. 3 SYSTEMS: 7-DIGIT ACCESS CODE, ENCODED PROGRAMS, MODIFIED DISKETTE DIRECTORY.

TELECOMPUTING

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

SMART 64 TERMINAL

MTS.........(NA)........39.95...........NOW..****

USER-DEFINED PARAMETERS (BAUD, PARITY ETC.) / COMPILED BASIC/ ONE-KEY LOG-ON / UP & DOWN-LOAD / 28k SAVE BUFFER / BASIC TO TEXT TO BASIC CONVERSION / PRINTER SET-UPS / BUILT-IN WEDGE COMMANDS / TIMER / WORDPRO- COMPATIBLE / FORMATTED END-OF-LINE / ENTIRE 28K BUFFER DUMPS TO DISK IN 3.5 MIN. / VISUAL INDICATION OF BUFFER SPACE REMAINING / ECHO OF TRANSMITTED DATA / SPECIALLY DESIGNED TO OPTIMIZE ACCESS TO COMPUSERVE & COMMODORE'S COMPUSERVE DATABASE. (THIS IS THE WAY YOU GET FREE SOFTWARE WITH YOUR MODEM.)

KTERM VERSION 2

KAT.........(NA)........14.95...........NOW..***+

30K SAVE BUFFER/ LISTABLE BASIC/ AUDIBLE KEY-CLICK/ KEEP- DISCARD KEYS/ ONE-KEY LOG-ON / UP, DOWN-LOADING.

'64 TERMINAL

MID.........(NA)........29.95...........NOW..***

SMOOTH SCROLLING/ 24K SAVE BUFFER/ FULL-SPEED XMIT AND RECEIVE/ MENU SELECTABLE TERM. CONFIGURATION (PARITY, BAUD, ETC)/ DUMP TO PRINTER OR SCREEN ONLY. (NO UP/DOWN LOAD)

AVCOR VIDEOTEX SOFTWARE PACKAGE

AVC.........(D)..UNDER 100.00...........FALL.NA

THIS PROMISES A WHOLE NEW DIMENSION TO TELECOMPUTING AS WE KNOW IT NOW. NAPLPS COMPATIBLE COMMANDS IMPLEMENTED INCLUDE: DOMAIN/ TEXT (SUBCOMMANDS; ROTATION, PATH, INTER-CHARACTER SPACING, INTER-ROW SPACING, CHARACTER FIELD DIMENSIONS) / TEXTURE/ SET COLOR/ SELECT COLOR/ WAIT/ RESET/ POINT/ LINE/ ARC/ RECTANGLE/ POLYGON/ FIELD/ INCREMENTAL POINT/ UNDERLINING/ CANCEL/ NULL/ 8 & 7 BIT MODE/ UNPROTECTED FIELDS. INTERPRETS INCOMING COLORS TO THE NEAREST 64 COLOR. USES FULL 320 X 200 HI-RES. PERMITS EITHER 300 OR 1200 BAUD COMMUNICATIONS. THIS SYSTEM APPARENTLY DOES WITH SOFTWARE WHAT COSTS $400- $1000 TO DO WITH HARDWARE ON OTHER PERSONAL COMPUTERS.

SUPERTERM '64

MID.........(T).........99.00...........FALL.NA

SIMILAR TO '64 TERMINAL (ABOVE) WITH UP AND DOWN LOADING.

COMPACK

CGR.........(NA).......129.00...........NOW..NA

THIS IS A SERIAL INTERFACE, CABLE, AND SOFTWARE PACKAGE FOR TELECOMPUTING; FEATURES DOWNLOAD AND FILE-CONVERSIONS (ASCII, BASIC, BINARY, & MAE). YOU SUPPLY THE MODEM.

CTE ("DUMB" TERMINAL SOFTWARE, SELECTABLE BAUD RATE)

MSD.........(NA)........NA..............NA...NA

SMART TERMINAL

BYR.........(D/T).......18.95/16.95.....NA...NA

SMOOTH SCROLLING / TRANSMITS ALL ASCII CONTROL CODES / KEY REPEAT / 4 PRE-LOAD LINES / MENU DRIVEN / TRANSMITTED AND RECEIVED CHARACTERS IN DIFFERENT COLORS.

OMNICOMM

STG.........(D/T).......34.95...........NA...NA

UP-DOWN LOAD / DUMPS TO PRINTER.

TELECOMPUTING (CONT'D) >

NEW ADDITIONS

COMPUSERVE EXECUTIVE FOR THE 64

CSV.........(D).........49.95...........NOW..****

COMPUSERVE'S VIDTEX PROGRAM IS A FULL-FEATURED SMART TERMINAL PACKAGE. THO OPTIMIZED FOR COMPUSERVE'S OWN INFORMATION SERVICE, TERMINAL PARAMETERS CAN BE EASILY MODIFIED FOR USE WITH A WIDE RANGE OF HOST COMPUTERS. SOME FEATURES: 32K SAVE BUFFER/ DUMP TO PRINTER/ DEFINABLE FUNCTION KEYS/ INTERPRETS COMPUSERVE'S COMMANDS FOR SPECIAL VIDEO TEXT AND GRAPHICS EFFECTS/ AUTO LOGON/ "B" PROTOCOL ERROR-PROTECTED FILE TRANSFER.

MOUTHPIECE

EHS.........(D).........39.95...........NOW..NA

UP/DOWNLOAD- 30K BUFFER- SUPPORTS VARIOUS PRINTERS- DEFINABLE FUNCTION KEYS- ON-SCREEN HELP & STATUS DISPLAYS- SUPPORTS 110 TO 1200 BAUD MODEMS- MACHINE LANG.

INTEL-TERM

RTC.........(D)........<50.00...........NA...NA

SMART TERMINAL SOFTWARE FROM RICHVALE TELECOMMUNICATIONS INCLUDES "COLOR 80" (SEE 'DOUBLE-TAKE' THIS ISSUE), AND EMULATES THE POPULAR VT-100 TERMINAL.

COMMANDER ULTRA TERMINAL-64

CRQ.........(R).........69.95...........NA...NA

SELECTABLE TERMINAL PARAMETERS/ DOWNLOAD TO DISK/ DUMP TO PRINTER/ ELAPSED-TIME INDICATOR

TRANS-TERM

DAY.........(D).........29.95...........NA...NA

'SMART' TERMINAL PROGRAM/ DOWNLOAD TO DISK

DIAL-FILE

DAY.........(D).........14.95...........NA...NA

STORE, RETRIEVE, AND DIAL 140+ PHONE NUMBERS FROM SOFTWARE.

MAGIC WAND 64

WED.........(?)........109.95...........NA...NA

THIS SMART TERMINAL PROGRAM CLAIMS TO ENABLE COMMODORE MODEMS (1600 AND 1650) TO COMMUNICATE AT 1200 BAUD (OR MORE)! UP & DOWNLOADING.

MULTI-PURPOSE INTERFACES > & NETWORKING >

C64-LINK

RTC.....................150.00...........NOW..****

DATA TRANSFER BETWEEN ANY DEVICE AND ANY OTHER DEVICE (IE: SERIAL-PARALLES, IEEE-SERIAL, PARALLEL-SERIAL ETC. / BASIC 4.0 COMMANDS / SIMPLE NETWORKING OF SEVERAL 64's / M.L. MONITOR / RESIDENT TERMINAL SOFTWARE / CP/M COMPATIBILITY.

BUSCARD

BAT.....................199.00...........NA...NA

ADDS 'BASIC 4' COMMANDS / IEEE INTERFACE / FULLY COMPATIBLE WITH OTHER SOFTWARE / BUILT-IN CENTRONICS PRINTER PORT / RESIDENT M.L. MONITOR.

VICTREE

SEW......................89.95...........NOW..NA

ADDS BASIC 4.0 COMMANDS: PROVIDES PRINTER INTERFACE FROM USER-PORT.

INTERPOD

LIM.....................180.00...........NOW..NA

ACCESS UP TO 30 RS232 AND IEEE DEVICES THRU SERIAL PORT OF 64.

VIC/64 SWITCH

BSS.....................149.95...........NA...NA

LINKS UP TO 8 64'S WITH SHARED DISK DRIVE AND PRINTER.

CEENET

SEW.....................NA...............NA...NA

NETWORKS UP TO 64 CBM 64'S TOGETHER. ALL MAY SHARE COMMON PERIPHERALS. APPLICATIONS SOFTWARE SUPPORTS INTER-NETWORK MAIL, TEMINAL LINKING, FILE PROTECTION, AND DATABASE SUPPORT. UP TO 255 CEENETs CAN BE INTERCONNECTED.

NEW ADDITIONS

MULTI-LINK

RTC..........ABOUT $100 PER COMPUTER...Q1...NA

WILL CONNECT UP TO SIXTY-FOUR 64'S IN A LOCAL NETWORK UNDER CONTROL OF ONE 'MASTER' 64/ ESPECIALLY SUITED FOR EDUCATIONAL ENVIRONMENT.

OCTOPUS

COB......................79.95...........NA...NA

ALLOWS AS MANY AS 8 64'S TO SHARE THE SAME DISK DRIVE OR PRINTER/ MANUAL SWITCHING CONTROLS ACCESS PRIORITY.

A/D-D/A-DATA AQUISITION >

UNIVERSAL LABORATORY INTERFACE

GEM.....................750.00...........NA...NA

2 12-BIT ANALOG OUTPUTS AND INPUTS / 1 8-BIT DIGITAL OUTPUT AND INPUT. PROGRAMMABLE FROM BASIC WITH PEEKS AND POKES.

TEMPERATURE MEASUREMENT AND CONTROL

AME.....................129.00...........NA...NA

DISPLAY GRAPHICS / HARD COPY OUTPUT / ALARMS AND SET POINTS / DISK FILE DATA STORAGE / 1 - 256 SENSORS / .01 DEG. ACCURACY.

SEQUENCER

GLO.....................299.00...........NA...NA

M.L. ROM SOFTWARE WITH A PLUG-IN HARDWARE INTERFACE CONTAINING 16 OPTO-ISOLATED INPUTS AND OUTPUTS WHICH CAN BE INDIVIDUALLY ADDRESSED. SOFTWARE PROVIDES FOR TESTING OF INPUTS AND OUTPUTS FOR VARIOUS LOGIC AND ACTIVITY STATES. STEPPER MOTOR DRIVE ROUTINES UNDER TIMED INTERRUPTS / 3 COUNTDOWN TIMERS (1 SEC. TO 18 HRS)

VIC/64 RELAY CARTRIDGE

BSS......................59.95...........NOW..NA

PLUGS INTO USER PORT: 6 RELAY OUTPUTS / 2 OPTOCOUPLERS FOR INPUTS. TURN APPLIANCES ON/OFF UNDER PROGRAM CONTROL.

VICONTROLLER

GEN......................59.95...........NA...NA

CONTROL UP TO 256 LIGHTS, APPLIANCES, ETC. COMMANDS: ON / OFF / ALLON / ALLOFF. USES BSR REMOTE SWITCHES / PLUGS INTO USER PORT.

AUTO CLOCK

PRG.....................129.95...........NA...NA

SOFTWARE CONTROL OF AC DEVICES / 256 YEAR CALENDAR / 2K CMOS BATTERY BACKED RAM / MENU-DRIVEN SOFTWARE / 19 USER ACCESSIBLE SUBROUTINES

BUSSTER A64

CMC.....................495.00...........NA...NA

DIGITAL LINE INPUT MODULE / SELF CONTAINED IEEE BUS-COMPATIBLE DEVICE / READS AND STORES DATA FROM UP TO 64 DIGITAL TTL LEVEL LINES, THEN SENDS INFORMATION BACK TO COMPUTER/ PROGRAMMABLE THRU BASIC.

NEW ADDITIONS

MW-311C UNIVERSAL INPUT-OUTPUT BOARD

MWE.....................225.00...........NA...NA

16-CHANNEL A/D: 1-CHANNEL D/A OUTPUT: 16 HIGH-CURRENT DISCRETE OUTPUTS.

MULTI-LAB

COB.....................239.95...........NA...NA

"LAB ON A CARD...MAKE VOLTMETERS...CONVERTERS...DIGITAL SENSORS...FREQUENCY SYNTHESIZERS...MORE"

COMSENSE

GCC......................39.95...........NA...NA

"READS INPUT FROM THE OUTSIDE WORLD."

COMPUTER-CONTROLLED HOME SECURITY SYSTEM

JAN.....................195.00...........NA...NA

KIT POVIDES SOFTWARE AND CARTRIDGE FOR CONNECTING AND CONTROLLING SWITCHES AND ALARMS

A/D-D/A ETC. (CONT'D) >

HOME AUTOMATIC WEATHER STATION (HAWS)
VAI....................199.95...........NA...NA
COMMERCIAL WEATHER-SENSOR PACKAGE AND SOFTWARE FOR TRACKING & FORECASTING THE WEATHER. PLOTS HISTORICAL TRENDS AND GRAPHICALLY DISPLAYS TRENDS/ MONITORS: DEEW POINT, TEMP, HUMIDITY, & ATMOS. PRESSURE. MANUAL PLUS METEOROLOGY INSTRUCTIONAL MATERIALS ON DISK & PRINTED. SIMPLE CONNECTION/DISCONNECTION.

STANDARD INTERFACES >

CIE (IEEE 488 INTERFACE)
MSD....................NA..............NA...NA
C232 (RS232 INTERFACE)
MSD....................NA..............NA...NA
CX-6402 RS232 INTERFACE
ECX....................59.95...........NA...NA
ADA 6410 (RS232 INTERFACE)
CMC....................79.00...........NA...NA
MODEM INTERFACE
BMT....................21.95...........NA...NA

VIDEO ENHANCEMENT >

VIDEO PAK 80
DAT....................179.95...........NOW..****
40 COL. COLOR/ 80 COL. MONOCHROME: INCLUDES TERMINAL AND SCREEN-PRINT SOFTWARE.
Z-80 VIDEO PAK
DAT....................299.95..........NOW..NA
ABOVE FEATURES PLUS CP/M COMPATIBILITY VIA BUILT-IN Z-80 MICROPROCESSOR.
COLOR-80 SOFTWARE.
RTC.........(DISK)......39.95...........NOW..***
80 COLUMNS FROM SOFTWARE. USES NO BASIC RAM / COMPATIBLE WITH C-64 LINK. (SEE 'DOUBLE-TAKE' THIS ISSUE).
SCREENMAKER
CGR....................179.95...........NA...NA
80 COL. BOARD WITH SOFTWARE LINK.
VID (VIDEO IMPROVEMENT DEVICE)
CAC....................29.95............NOW..***
PLUG THIS LITTLE WIDGET INTO YOUR 5-PIN VIDEO PORT AND HOOK YOUR T.V. TO THE USUAL RF PLUG. VISIBLE IMPROVEMENT OF PICTURE QUALITY ON MANY TV'S (SEE FALL ISSUE.)

NEW ADDITIONS

PICTURE PERFECT VIDEO ENHANCER
PIC....................11.95...........NA...NA
WAVE 80-COLUMN VIDEO BOARD
WCI....................139.95...........NOW..NA

EXPANSION BOARDS >

CARDBOARD 5
CAR....................69.95...........NOW..****
ATTRACTIVE, FUSE-PROTECTED 5-SLOT EXPANSION BOARD FOR THE 64. EACH SLOT HAS 4 LED STATUS INDICATORS AND TWO SWITHCHES TO DIRECTLY CONTROL VARIOUS MEMORY AND ACCESS FUNCTIONS. TWO MASTER SWITCHES AND INDICATORS ALLOW OVERRIDE AT ANY TIME. CAN BE USED TO SIMPLY ELIMINATE CONSTANT INSERTION AND REMOVAL OF CARTRIDGES, OR WITH SWITCHES AND IMAGINATION, SOME MORE INTRIGUING APPLICATIONS BECOME POSSIBLE.
EXPANDOPORT 4
MSD....................NA..............NA...NA
4 PORTS WITH FUSE AND RESET.
4-SLOT EXPANDER
PTI....................69.95...........NA...NA
4 SLOTS, 4 TOGGLE SWITCHES, RESET & FUSE.
SOFTAWARE BOX
SAW....................149.00...........NA...NA
8 SLOTS, EACH SWITCHED, 110 V. OUTLETS, RESET, OPTIONAL 5 V. POWER SUPPLY.
BUSMASTER (6-SLOT, SWITCH SELECT, FUSED, LEDS)
RAN....................79.95...........NA...NA
BUSMASTER-II
RAN....................99.95...........NA...NA
SAME AS ABOVE ONLY W/ SOFTWARE SELECTABLE SLOTS (ALLOWS MEMORY PAGING TO 6X64 K)
7-SLOT EXPANDER BOARD
BAZ....................69.00...........NA...NA
4-SLOT EPROM CARD
BAZ....................59.00...........NA...NA
PQ/64
GLO....................299.00...........NA...NA
64 VERSION OF 'PROMQUEEN'- READS, PROGRAMS, EDITS, & RUNS 2500 & 2700 SERIES EPROMS. W/ SOFTWARE.
PQ/64 RS
GLO....................49.00...........NA...NA
PERFORMS RS-232 VOLTAGE CONVERSIONS FOR PQ/64.
ROM PACKS (FOR ABOVE)
GLO....................39.00...........NA...NA

NEW ADDITIONS

DATASPAN (3 SLOTS/ ROTARY SWITCH)
COB....................59.95...........NA...NA
SMARTSLOT (THE INTELLIGENT EXPANSION BUS)
GAL....................99.95...........NA...NA

OTHER INTERFACES >

PROMETHIUS I
VID....................49.95...........NA...NA
SOFTWARE AND INTERFACE ALLOW 64 TO CONTROL A PANASONIC 6500 VCR.
CARDETTE
CAR....................39.97...........NOW..***
INTERFACE ALLOWS USE OF NON-CBM CASSETTE DECKS. IT SEEMS THAT THE ECONOMY TYPE TAPE DECKS ACTUALLY WORK BETTER WITH THIS THAN THE PREMIUM TYPES.
CBM 64 RABBIT CARTRIDGE
EAS....................39.95...........NA...NA
CLAIMS 6X NORMAL CASSETTE LOAD & SAVE. WITH 12 ADDITIONAL COMMANDS.
GRIZZLY
EPD....................NA..............NA...NA
UNINTERRUPTABLE POWER SYSTEM: KEEP COMPUTING FOR TWENTY MINUTES AFTER A TOTAL POWER OUTAGE. GIVES YOU TIME TO SAVE YOUR FILES, ETC.
LEMON / LIME / PEACH / ORANGE
EPD....................NA..............NA...NA
LINE OF AC FILTERS AND SURGE PROTECTORS TO PROTECT COMPUTER EQUIPMENT.

OTHER INTERFACES (CONT'D)

NEW ADDITIONS

AP MODULAR PAK (3-PART APPLE EMULATOR SYSTEM)
PIO..............ABOUT 600.00...........JAN..NA

WE'VE HEARD IT BEFORE, BUT THIS APPEARS TO BE THE REAL THING. CONSISTS OF 3 MODULES:

1) AP BUSS: CONTAINS 8 STANDARD APPLE II PERIPHERAL SLOTS AND 4 C64 EXPANSION SLOTS PLUS A POWER SUPPLY WHICH REPLACES THE 64'S AND HAS ENOUGH MUSCLE FOR ALL EXPANSION SLOTS.
2) AP "CPU" CARD: THE HEART OF THE SYSTEM, PLUGS INTO THE AP BUSS AND HANDLES ALL APPLE II TO C64 CONVERSION.
3) AP DOS CARD: TRANSFORMS THE 1541 DISK DRIVE INTO AN APPLE II COMPATIBLE DRIVE.

WITH THE COMPLETE MODULAR PAK YOU MAY RUN ALL APPLE II SOFTWARE ON YOUR 64 AND HAVE IT RUN EXACTLY AS IF IT WERE ON THE APPLE II. YOU MAY ALSO USE ANY PERIPHERALS DESIGNED FOR THE APPLE II (INCLUDING ADDITIONAL MICROPROCESSORS LIKE THE 6809, 6800, 8088, 8086 ETC.) OR, USE A RANA DISK DRIVE WITH YOUR 64 (AND, IF YOU HAVE AN APPLE, THE DOS CARD ALLOWS YOU TO USE IT WITH A 1541!). LOOK FOR A REVIEW IN THE SPRING (MARCH) ISSUE OF INFO-64.

VIAC
INC......................34.95...........NA...NA

NON-CBM CASSETTE INTERFACE.

1540 UPGRADE ROM
CBY.....................<40.00...........NOW..NA

AS FAR AS WE KNOW, THIS IS THE ONLY PUBLIC SOURCE OF THIS PRODUCT. TURNS A 1540 DISK DRIVE INTO A 1541.

SUPER BLOCKSAVER
COB......................34.95...........NA...NA

SOFTWARE AND CARTRIDGE ALLOWS MAKING BACKUP COPIES OF C64 CARTRIDGES TO DISK.

CB-2
COB......................39.95...........NA...NA

ALLOWS MAKING BACKUPS OF CASSETTE SOFTWARE- USES ONE OR TWO CASSETTE DRIVES.

PRINTER INTERFACES

PRODUCT NAME
VENDOR CODE MEDIA PRICE AVAIL RTG.

CARD/PRINT + G (FOR GRAPHICS)
CAR......................79.95...........NOW .NA

FULL COMMODORE CHARACTER SET TRANSLATION (AS WELL AS ASCII VALUES FOR NON-IMPLEMENTED CHARACTERS) IN A NEWLY DESIGNED PACKAGE. THIS AT THE SAME PRICE THAT MADE THE OLD CARD/PRINT A GREAT VALUE IN PRINTER INTERFACES. (SUITABLE FOR USE WITH: OKIDATA 82,94,92,94, EPSON MX 80, RX 80, FX 80, GEMINI 10X, PROWRITER, CITOH 8510, NEC 8023, AXIOM GP 100, AND BANANA PRINTERS.)

CARD/PRINT B
CAR......................49.95...........NOW..****

ENHANCED REPLACEMENT FOR THE OLD CARD/PRINT AT A MUCH LOWER PRICE. FEATURES INCLUDE NEW HOUSING WHICH MOUNTS NEATLY TO BACK OF 64 INTEAD OF HANGING OUT AT THE END OF THE CABLE / 3 MICRO-SWITCHES FOR LOCKING THE PRINTER AND INTERFACE IN VARIOUS CONFIGURATIONS.

MW-302 PRINTER INTFC.
MWE.....................119.95...........NOW..NA

CONNECTS 64 SERIAL PORT TO CENTRONICS-TYPE PARALLEL PRINTERS. TRANSLATES CBM ASCII TO STANDARD ASCII.

DATA 20 PRINTER INTERFACE (CONNECTS TO MODEM PORT)
DAT......................69.95...........NA...NA

CX-6401 SERIAL TO PARALLEL PRINTER INTFC.
. ECX......................89.95...........NA...NA

CPI (PARALLEL PRINTER INTFC.)
MSD......................79.95...........NA...NA

TYMAC 'CONNECTION'
MWD.....................119.00...........NA...NA

INTELLIGENT PARALLEL INTFC. USES DISK/SERIAL PORT / DISPLAYS FULL GRAPHICS SET OR CONVERTS TO TEXT EQUIVALENT / PRINTER RESET SWITCH / LED INDICATORS/ FACTORY CONFIGURED TO YOUR PRINTER MODEL.

TYMAC PARALLEL CABLE W/ DRIVER
MWD......................29.95...........NA...NA

PRINTER SPECIFIC 'ECONOMY' INTERFACE: SOFTWARE AVAILABLE ON DISK TO SUPPORT GRAPHICS PRINTING.

SMART ASCII
MID......................59.95...........NOW..NA

USES THE MODEM PORT, SO YOU CAN'T CONVEIENTLY USE YOUR PRINTER MODEM AT THE SAME TIME. WE CONSIDER THIS TO BE A SERIOUS LIMITATION.

NEW ADDITIONS

PRINTMASTER-64
COB......................89.95...........NA...NA

CENTRONICS-TYPE PARALLEL INTERFACE FOR EPSON OR GEMINI: PRINTS THE FULL COMMODORE GRAPHICS SET/ ADDS 16 COMMANDS TO BASIC/ TEXT & GRAPHIC SCREEN DUMPS/ UN NEW COMMAND.

PRINT-64
COB......................69.95...........NA...NA

SIMILAR TO PRINTMASTER ABOVE/ PRINTS GRAPHICS CHARACTERS.

SPOOL-Z-Q 32K PRINTER BUFFER (SPOOLER)
JVB.....................279.95...........NA...NA

A SPOOLER TAKES PRINTER DATA VERY QUICKLY FROM THE COMPUTER, HOLDS IT, AND FEEDS IT TO THE PRINTER AT THE PRINTERS PACE- MEANWHILE, THE COMPUTER IS IMMEDIATELY FREE TO CONTINUE WITH OTHER TASKS. LARGER BUFFER SIZES AVAILABLE (TO 128K) AT HIGHER COST.

MICRO SPOOLER
CNS.....................NA.............NA...NA

COMPLETE RANGE OF SPOOLERS WITH VARYING FEATURES, CAPACITIES, & PRICES.

ADVANCE 1500 PRINTER PROGRAM (SOFTWARE)
WEO......................49.95...........NA...NA

CLAIMS TO INCREASE SPEED OF 1515 AND 1525 PRINTERS TO 50 CPS. ADDS FULL DESCENDERS.

L&L PRINTER INTERFACE CARD
L&L......................70.00...........NA...NA

FOR GEMINI 10X PRINTER/ INCLUDES COMMODORE SPECIAL CHARACTER LISTING MODE.

MASS STORAGE

PRODUCT NAME
VENDOR CODE PRICE AVAIL RTG.

PETDISK II (3",5",8",8" DUAL)
CGR.....................895.00.(5")......NOW..NA

CLAIM 10 X SPEED OF 1541 DRIVES. CHECK COMPATIBILITY WITH COMMERCIAL SOFTWARE BEFORE BUYING.

MSD DISK DRIVE
MSD.....................NA...............NA...NA

CLAIMS COMPATIBILITY WITH 1541 DISK SOFTWARE / SOFTWARE-RECONFIGURABLE OPERATING SYSTEM / SERIAL & IEEE INTERFACES.

ESF-20/64 STRINGY-FLOPPY
EXATRON.....................199.00..........NOW..NA

THIS DEVICE PROMISES TO BE AN ECONOMICAL ALTERNATIVE TO DISK DRIVES; PRICE AND PERFORMANCE FALLING SOMEWHERE BETWEEN DISK AND TAPE. THE MAJOR PROBLEM IN THE PAST HAS BEEN LACK OF SOFTWARE IN THIS FORMAT. NOW IT SEEMS SOME SOFTWARE HOUSES ARE FINALLY BEGINNING TO PRODUCE "WAFER".PRODUCTS.

MASS STORAGE (CONT'D) >

UNITRONICS WAFERDRIVE MODULE
UNI.............UNDER 100.00...........FALL.NA

THIS IS AN IMPLEMENTATION OF THE EXATRON TECHNOLOGY IN A 64-COMPATIBLE PLUG-IN (USER PORT) WAFER DRIVE. CLAIMS SOME OPERATIONS AS FAST AS 1541. COMES WITH 2 BLANK WAFERS AND ONE GAME (MINER 2049ER) ON WAFER. COMPANY HOPES TO HAVE 30-40 COMMERCIAL PROGRAMS AVAILABLE ON WAFER THIS FALL.

NEW ADDITIONS

ACCESS-M (MEMORY EXPANSION TO 1 MEGABYTE)
MOS....................250.00...........FEB..NA

COMES WITH 64K RAM WHICH MAY BE EXPANDED IN 64K INCREMENTS UP TO 1 MEGABYTE. PROPRIETARY MEMORY-MANAGEMENT TECHNIQUE (NOT BANK SWITCHED)/ COMES WITH DISK- EMULATION SOFTWARE (RAMDISK) AND MEMORY MANAGEMENT SOFTWARE. PLUGS INTO CARTRIDGE SLOT AND PROVIDES 2 FREE EXPANSION SLOTS PLUS 4 RAM BOARD SLOTS (EACH RAM BOARD CAN HOLD 256K (4 64K CHIPS). SOME 3RD PARTY SOFTWARE HOUSES ARE ALREADY WORKING WITH MOSAIC ON NEW SOFTWARE PACKAGES WHICH WILL TAKE ADVANTAGE OF THIS HUGE AMOUNT OF RAM.

SENSORY PERIPHERALS >

MICRON EYE CAMERA
MTI...............295.00/485.00.........NOW..****

TWO MODELS OF SOLID STATE IMAGING DEVICE (THE DIFFERENCE BEING IN THE MAXIMUM DISTANCE DEVICE MAY BE FROM COMPUTER). BOTH CONNECT TO EXPANSION PORT OF 64, SOFTWARE INCLUDED ALLOWS DISPLAY OF IMAGES TO SCREEN. GRAY- SCALE / SOFTWARE CONTROLLED SHUTTER / FRAME STORE & RECALL.

DIGI/CAM
FOV....................395.00...........NA...NA

SOLID STATE IMAGING SYSTEM / 4 GRAY SCALE LEVELS / RS232 INTERFACING / FRAME STORE AND COMPARE.

SPEAKEASY (WITH 64 ADAPTER)
PPP.....................91.95...........NA...NA

COMVOICE
GEN....................149.00...........NA...NA

TEXT-TO-SPEECH CONVERSION / UNLIMITED VOCABULARY / 4 LEVELS OF INFLECTION / PLUGS DIRECTLY INTO EXPANSION PORT.

VOTRAX PERSONAL SPEECH SYSTEM
VOT....................395.00...........NOW..****

255 PROGRAMMABLE FREQUENCIES FOR SOUND EFFECTS / 16 AMPLITUDES / SIMULTANEOUS SPEECH AND EITHER MUSIC OR SOUND EFFECTS / 8-OCTAVE 3-VOICE MUSIC / SERIAL AND PARALLEL INTFCS. INCLUDED / BUILT-IN PROGRAMMABLE CLOCK / EXEPTION TABLES / PROGRAMMABLE RATE AND INFLECTION / 3500 CHAR. BUFFER / REAL TIME CLOCK WITH 8 USER-DEFINED ALARMS / BAUDS FROM 75 TO 9600 / MORE!

NEW ADDITIONS

S.A.M. (SOFTWARE ACTIVATED MOUTH)
DON..........(D)........59.95...........NOW..NA

SOFTWARE SPEECH SYNTHESIZER: NATURAL SOUNDING SPEECH/ VARIABLE PITCH, SPEED, INFLECTION/ ENGLISH TEXT-TO-SPEECH CONVERSION/ EASY TO USE IN PROGRAMS.

VOICEBOX
ALI.....................95.00...........NOW..NA

"WORLD'S ONLY SINGING SPEECH SYNTHESIZER": UNLIMITED VOCABULARY/ NATURAL SOUNDING/ INFLECTION CONTROL/ TEXT-TO-SPEECH & PHONEME INPUT/ PLUGS INTO USER PORT/ INCLUDES BUILT IN SPEAKER, VOLUME & PITCH CONTROLS. (ALSO AVAILABLE AT ADDITIONAL COST: HIGH-RES TALKING HUMAN FACE PROGRAM AND A 'COMPREHENSIVE MUSIC AND SINGING SYSTEM ON CASSETTE- $25.00)

MODEMS >

PRODUCT NAME
VENDOR CODE PRICE AVAIL RTG.

HESMODEM
HES.....................69.95...........NOW..****

FUNCTIONALLY SIMILAR TO VICMODEM / TERMINAL SOFTWARE INCLUDED FOR 64.

VICMODEM
Commodore Bus. Machines......49.95...........NOW..****

MIGHTY MODEM
PPP.....................79.95...........NA...NA

300 BAUD MODEM W/ TERMINAL SOFTWARE
BAZ.....................89.00...........NA...NA

HERMES I (300/ 600/ 1200/ & 2400 BAUD)
VID.....................99.00...........NA...NA

THIS MODEM WILL HAVE SPECIAL CAPABILITIES INTENDED TO MAKE IT FUNCTION WITH SATELITE-BASED COMMUNICATIONS NETWORKS.

AIR-1
MIL....................199.00...........NA...NA

CARTRIDGE CONVERTS SHORTWAVE RADIO MORSE CODE OUTPUT TO PRINTED TEXT ON SCREEN / INCLUDES ON-SCREEN TUNING FEATURE.

NEW ADDITIONS

1650 AUTO-DIAL / AUTO-ANSWER
CBM...................<120.00...........NOW..****

300 BAUD/ INCLUDES AUTO-DIAL, AUTO-ANSWER SOFTWARE AND TERMINAL SOFTWARE (TERMINAL SOFTWARE ALLOWS SETTING TERMINAL PARAMETERS, BUT HAS NO SAVE BUFFER OR UP/DOWN-LOADING)

AM FM LOADER
MIP....................<70.00...........NOW..NA

THIS UNIQUE RECEIVE-ONLY MODEM IS CAPABLE OF ACCEPTING COMPUTER DATA FROM COMMERCIAL RADIO OR CABLE TV TRANSMISSIONS AT SPEEDS UP TO 4800 BAUD USING PROPRIETARY TECHNOLOGY. THEORETICALLY, SPEEDS OF 9600 BAUD CAN BE ACHEIVED- ALLOWING DOWNLOADING OF A TYPICAL VIDEO GAME IN ABOUT 4 SECONDS. (THIS OPENS UP A WHOLE NEW MARKET FOR CABLE TV.)

AUTO-PRINT MICROCONNECTION
MIP....................149.00...........NA...NA

DIRECT CONNECT, AUTODIAL, AUTOANSWER MODEM SIMULTANEOUSLY DIRECTS DATA TO YOUR PRINTER AS WELL AS YOUR SCREEN. INCLUDES TERMINAL SOFTWARE.

USER INPUT DEVICES >

KOALA PAD (WITH SOFTWARE)
KOA.....................99.00...........NOW..*****

MEDIUM-SIZED INPUT PAD RESPONDS TO FINGER OR STYLUS PRESSURE. RUGGED PLASTIC/ COMES WITH STYLUS AND 'KOALA PAINTER' COLOR DRAWING SOFTWARE. 'KOALA PAINTER' IS AN EXCELLENT IMPLEMENTATION OF AUDIO LIGHT INC.'S 'MICRO-ILLUSTRATOR' SOFTWARE: USES THE 64'S 16 COLORS PLUS 136 MIXED-COLORS. FEATURES 'OOPS' MISTAKE CORRECTION, SOPHISTICATED BLOCK MOVES, QUAD-SYMMETRIC MIRROR MODE, COLOR SWAPS, & MANY OTHER DAZZLING EFFECTS! THIS IS ONE OF THE 10 BEST PRODUCTS OF 1983!

KoalaPad
KoalaWare

INPUT DEVICES (CONT'D) >

CIRCES (GRAPHICS TABLET)
VID....................499.00...........NA...NA
FEATURES CLAIMED: .005" DISCRIMINATION/ PRODUCES SMOOTH LINES / USES 200 COLORS X 200 TEXTURES ON A 1701 MONITOR / INTERNAL MEMORY, AND INTERACTIVE COMMUNICATIONS MODULE.

DATAWAFER
DIC....................NA.............NA...NA
UNIQUE PACKAGE IS SAID TO REPLACE JOYSTICKS, LIGHT PENS, TRACKBALLS, AND CONVENTIONAL 'MICE'. WIRELESS MOUSE WORKS ON SENSITIVE TABLET (UP TO 20" X 20" AVAILABLE).

JOY*SENSOR
SUN....................34.95...........NA...NA
STICK-LESS JOYSTICK. TOUCH-SENSITIVE FLAT- PANELS ACCOMPLISH BOTH MOVEMENT AND 'FIRE- BUTTON' TASKS. ACCOMMODATES RIGHT OR LEFT HANDED PLAYERS.

KRAFT JOYSTICK
KSC....................14.95...........NA...NA

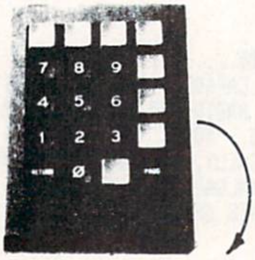
QUICKSHOT JOYSTICK (SUCTION-CUP BASE / DUAL FIRE BUTTONS)
SVI....................12.95...........NOW..****

ENJOYSTICK (RIGHT OR LEFT- HAND JOYSTICK)
TGP....................NA.............NA...NA

ZIRCON TRACKBALL
ZIR....................29.95...........AUG..NA

CARDKEY/1
CAR....................39.95...........FALL.NA
16 KEYS / CAN BE PLUGGED INTO JOYSTICK PORT OR PIGGY-BACKED WITH KEYBOARD CONNECTOR ELIMINATING THE NEED FOR DRIVER SOFTWARE, AND AVOIDING SOFTWARE COMPATIBILITY PROBLEMS.

7 8 9 X
4 5 6 ÷
1 2 3 -
. Ø ENTER +
cardkey



FLEXIKEY SYSTEM
GSS....................69.95...........NOW..NA
20- KEY NUMERIC PAD. EACH KEY MAY BE DEFINED TO HAVE 3 VALUES/ DRIVER SOFTWARE IN BASIC

10-KEY PAD
QUA....................69.95...........NA...NA

NUMERIC KEYPAD
COP....................69.95...........NA...NA

HES STICK 1
HES....................7.95............NA...NA

EDUMATE LIGHT PEN
PROGRAMMER'S INSTITUTE.......29.95...........NOW..NA
THIS PEN IS COMPATIBLE WITH P.I.'s CHILDREN'S EDUCATIONAL SOFTWARE.

TOUCH-N-LIGHT PEN
SUNSHINE PERIPHERALS.........59.95...........NOW..NA
CONNECTS TO USER PORT.

NEW ADDITIONS

FLEXIDRAW LIGHT PEN (WITH 'PENWARE ' DRAWING SOFTWARE)
INK....................<150.00..........NOW..*****
PROFESSIONAL GRADE LIGHT PEN (WITH SINGLE PIXEL RESOLUTION). THIS IS NOT A TOY (ALTHOUGH IT IS LOTS OF FUN & THE SOFTWARE IS EXTREMELY EASY TO USE). INCLUDES SOPHISTICATED MACHINE LANG. DRAFTING SOFTWARE/ A SEPARATE BASIC ROUTINE FOR PROGRAMMABLE GRAPHICS/ SPRITE EDITOR AND ANIMATOR/ READY-TO-USE TEMPLATES FOR ELECTRONIC CIRCUITS, GREEK SYMBOLS,& MUSIC COMPOSITION, LIGHT PEN MUSIC SYNTHESIZER/ AND A LIBRARY OF SAMPLE DRAWINGS.

POWERPAD
CBI....................99.95...........NOW..NA
12" X 12" TOUCH-SENSITIVE INPUT PAD USES OVERLAYS ALONG WITH ASSORTED APPLICATIONS CARTRIDGES COVERING A WIDE RANGE OF ART, MUSIC, AND EDUCATIONAL PROGRAMS. THE PAD HAS A UNIQUE SENSING ARANGEMENT THAT RECOGNIZES SIMULTANEOUS ACTIVATION OF MULTIPLE POINTS ON THE ACTIVE SURFACE.

HI-RES LIGHT PEN
SYM....................150.00..........NOW..NA
INDUSTRIAL LIGHT PEN. TOUCH-TIP & PUSH-TIP MODELS.

CABLES/GADGETS/MISCELLANY

SOUND BOX
HES....................14.95...........NOW..NA
PROVIDES STANDARD RCA PHONO CONNECTIONS FOR EASY HOOK UP TO STEREO ETC.

VIDEO CABLE (5-PIN TYPE)
DAT....................12.95...........NOW..NA

AUDIO/VIDEO CABLE (5-PIN TYPE)
QUA....................9.95............NA...NA

MONITOR CABLE (5-PIN/ CHROMA, LUMA, AUDIO, AUDIO RETURN)
MSD....................29.95...........NOW..****

UNIVERSAL TAPE INTERFACE & DUPLICATOR
MWD....................49.50...........NA...NA

FREEDOM (5' REMOTE KEYBOARD KIT)
PRS....................39.95...........NA...NA

POWERMASTER (RUN YOUR 64 OFF YOUR CIGARETTE LIGHTER)
RAN....................NA.............NA...NA

SOFTWARE PROTECTION DEVICES
SOF....................5.98 TO 18.60.........NA...NA
LINE OF SECURITY 'DONGLES' WHICH USE THE SECOND JOYSTICK PORT.

THE SIGNAL
ZAX....................29.95...........NA...NA
CONVENIENCE DEVICE GIVES AUDIO SIGNAL WHEN VARIOUS CASSETTE OPERATIONS ARE COMPLETED/ ALLOWING UNATTENDED CASSETTE USE.

NEW ADDITIONS

VAAB
INC....................19.95...........NOW..NA
PROVIDES FOR EASY CONNECTION TO AUDIO AND VIDEO COMPONENTS- USES STANDARD RCA PLUGS.

FIREFLY- PORTABLE POWER FOR COMPUTERS
GMA....................NA.............NA...NA

FURNITURE & ENCLOSURES >

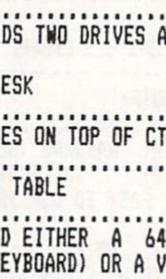
CS1632 STORAGE CABINET
HYT....................89.95...........NOW..NA
LOCKING CABINET WITH ROOM FOR YOUR KEYBOARD AND DISK-DRIVE.

DESKTOPPER
MAD....................49.95...........NOW..NA
OAK STAND HOLDS TWO DRIVES ABOVE KEYBOARD. TV OR MONITOR GOES ON TOP.

CT130 COMPUTER DESK
BUS....................169.95..........NOW..****

CTA131 HUTCH (GOES ON TOP OF CT130)
BUS....................99.95...........NOW..****

CT120 ROLL-ABOUT TABLE
BUS....................79.95...........NOW..****
THIS WILL HOLD EITHER A 64 AND DISK DRIVE (MONITOR RAISED OVER KEYBOARD) OR A VERY LARGE PRINTER.



FURNITURE & ENCLOSURES >

CTA132 MONITOR/PRINTER PLATFORM

BUS....................17.95..........NOW..****

SYSTEM ORGANIZER

CPI....................79.95..........NA...NA

(ADD $20 FOR MONITOR TURNTABLE) THIS UNIT HOLDS MONITOR AND DISK DRIVES ABOVE KEYBOARD WITH EXTRA CUBBY-HOLES FOR OTHER GOODIES. OAK VENEER.

PRINTER STAND (OAK VENEER / MATCHES ORGANIZER)

CPI....................44.95..........NA...NA

DISK-DEX (MATCHING OAK VENEER- HOLDS 50 DISKETTES)

CPI....................29.95..........NA...NA

COMPUMATE 101 (OVER-KEYBOARD ACRYLIC MONITOR STAND)

PCT....................39.95..........NA...NA

SOUND TRAP

TRC....................129.00..........NOW..****

WELL-DESIGNED AND ATTRACTIVE SOUND REDUCTION ENCLOSURE FOR WIDE RANGE OF PRINTERS. FITS EPSON & GEMINI. SOUND ATTENUATION IS GOOD. CAN BE POSITIONED TO DO DOUBLE DUTY AS A COPY HOLDER.

TRAVELMASTER

SOC....................79.00..........NOW..****

LOCKING MOLDED POLYETHELENE CASE SIZED & FOAM-PADDED FOR ONE 64 AND DRIVE.

CM703 CASE (HOLDS 64 AND DISK DRIVE)

CCC....................129.00..........NA...NA

DISKBANK

AMA....................7.95..........NOW..****

HANDY INTERLOCKING DISK- STORAGE MODULES.

NEW ADDITIONS

ROLLTOP 100

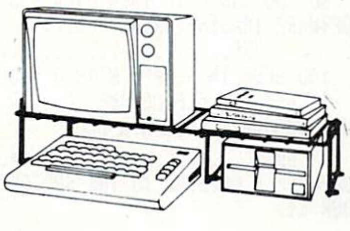
MCA....................36.00..........NOW..*****

WE HAVE TRIED THEM ALL, AND THIS IS THE MOST CONVENIENT AND SPACE-EFFICIENT LARGE-CAPACITY DISK STORAGE SYSTEM WE HAVE SEEN. HOLDS 100 DISKETTES BETWEEN 11 DIVIDERS. LOCKING SECURITY VERSION ALSO AVAILABLE ($46.00).

MAG-RAK

R&L....................34.95..........NOW..NA

HANDY-LOOKING GADGET FOR HOLDING MAGAZINES & BOOKS NEAR YOUR WORK-STATION.



THE ORGANIZER

BRG....................29.95..........NA...NA

WIRE-FRAME STYLE HOLDER FOR MONITOR ETC.

SOLID OAK FURNITURE

FIN..................VARIES............NOW..NA

VERY HANDSOME- SEND OR CALL FOR THEIR BROCHURE.

DOT MATRIX PRINTERS >

GEMINI 10-X

SMI....................399.00..........NOW..****

120 CPS / DOWNLOADABLE CHARACTER SETS / FRICTION, TRACTOR, & ROLL FEEDS / USER- REPLACEABLE PRINT-HEAD / STANDARD RIBBONS / WIDE VARIETY OF FONTS & CHAR. SIZES / EPSON FX-80 CODE COMPATIBLE.

GEMINI DELTA 10

SMI....................649.00.........NOW...NA

160 CPS / SERIAL & PARALLEL INTFCS. INCLUDED.

GEMINI STX-80

SMI....................199.00..........NOW..NA

THERMAL / 80-COLUMN / GRAPHICS CAPABLE.

CARDPRINTER/DM1

CAR....................149.05..........SEPT.NA

DOT MATRIX IMPACT / 40 COLUMN / 50 CPS / STANDARD ADDING MACHINE (NOT THERMAL) PAPER / 2-COLOR PRINTING / BUILT-IN 64 INTERFACE / FULL CBM GRAPHICS CHARACTER SET INCLUDING REVERSED / HI-RES GRAPHICS / EXPANDED PRINT / UTILITY SOFTWARE INCLUDED.

TRANSTAR 315 COLOR

TRA....................599.00..........NA...NA

30 SHADES OF COLOR IN A SINGLE (IF SOMEWHAT SLOW (50 CPS)) PASS.

MANNESMANN TALLY MT 160

MAN....................699.00..........NOW..****

A FAST, HIGH-QUALITY PRINTER WITH VERY GOOD CORRESPONDENCE- GRADE PRINT & GRAPHICS.

VP42 THERMAL PRINTER

ALP....................209.95..........NOW..****

IMP

ICD....................129.95..........NA...NA

30 CPS / 64 INTERFACE BUILT-IN / 24 COLUMN / PRINTS ENTIRE CBM GRAPHICS SET / GRAPHICS CAPABLE.

PRINTELEX

CPE....................145.00..........NA...NA

COMPACT 40-COLUMN, 160 CPS THERMAL PRINTER. SERIAL-PARALLEL BUILT-IN / DOT GRAPHICS.

EPSON FX-80

EPS....................695.00..........NOW..****

160 CPS/ WIDELY-SUPPORTED POPULAR PRINTER WITH VARIOUS FONTS AND PITCHES/ DOT-GRAPHICS/ DOWNLOADABLE FONTS/ SHEET AND PIN-FED PAPER HANDLING.

NEW ADDITIONS

RITEMAN

INR....................NA..............NA...NA

EPSON WORK-ALIKE, LOOK-ALIKE WITH 120 CPS.

IMPACT "40" THERMAL PRINTER

FID....................160.00..........NA...NA

DIRECT-CONNECT TO 64: NO EXTRA INTERFACING/ 40-CHARACTER LINE/ USES STANDARD ADDING MACHINE PAPER/ 65 CPS PRINT SPEED.

DAISYWHEEL PRINTERS >

TRANSTAR 130

TRA....................895.00..........NOW..NA

16 CPS / BI-DIRECTIONAL / DIABLO CODE COMPATIBLE / WORDPRO-3 FEATURES COMPLETELY SUPPORTED / FRICTION FEED

TRANSTAR 120

TRA....................NA..............NOW..NA

14 CPS / DIABLO CODE COMPATIBLE / WORDPRO-3 FEATURES COMPLETELY SUPPORTED / FRICTION FEED

CARDPRINTER/LQ1

CAR....................599.95..........NOW..NA

14 CPS DAISY WHEEL / COMES FULLY INTERFACED FOR 64 AS WELL AS STANDARD PARALLEL / SUPPORTS UNDERLINING, BOLD & SHADOW PRINT / TRUE PROPORTIONAL CHARACTER SPACING. SOFTWARE SUPPLIED FOR TYPEWRITER EMULATION / CAN ALSO BE USED AS A TWO COLOR DOT GRAPHIC PRINTER FOR CUSTOM LETTER HEADS AND LOGOS.

TTX-1014

TTX....................649.00..........NA...NA

COMPACT DAISYWHEEL / 140 WPM / SERIAL & PARALLEL INTERFACES BUILT-IN

DISPLAYS

1702 COLOR MONITOR
CBM....................299.00...........NOW..*****
THIS IS ONE OF THE NICEST THINGS COMMODORE HAS DONE SINCE INTRODUCING THE 64. MAKE SURE YOU TAKE ADVANTAGE OF THE HI-PERFORMANCE BACK-PANEL INPUTS. ONE OF THE TOP TEN PRODUCTS OF THE YEAR.

PANASONIC CT-160 (10" COLOR MONITOR)
PAN....................350.00...........NOW..***+

AMDEK COLOR-1 (12" COLOR MONITOR)
AMD....................399.00...........NOW..***

PANASONIC CT-1112 (10" COLOR MONITOR/ T.V.)
PAN....................399.00...........NOW..***+

AMDEK VIDEO 300 (12" 80-COL. GREEN MONITOR)
AMD....................199.00...........NOW..***+

AMDEK VIDEO 300A (12" 80-COL. AMBER MONITOR)
AMD....................215.00...........NOW..***+

GORILLA MONITOR (12" 80-COL. GREEN SCREEN)
LEP.....................99.00...........NA...NA

TRANSTAR 20 (12" 80-COL. GREEN SCREEN)
TRA....................170.00...........NA...NA

INFORMATION SERVICES

COMPUSERVE
CSV............30.00.......6.00.............****

SOURCE
SRC...........100.00.......7.75.............****

DELPHI INFORMATION SERVICE
DEL............49.95.......5.00.............NA

MAGAZINES

COMPUTE! (COVERS MANY MICROS, 64 GETS PRETTY GOOD COVERAGE)
CPU...............2.50...........12.......****

COMPUTE!'S GAZETTE (VIC & 64 MAG)
CPU...............2.00...........12.......****

COMMANDER (COMMODORE ONLY)
MSS...............2.95...........12.......***+

OPTIMIZER 64
PAL...............2.50...........12.......***
CANADIAN 64-ONLY PUBLICATION. USEFUL INFORMATION, LISTINGS, & ARTICLES. INTERESTING FORMAT IDEA: EACH ISSUE COMES IN A PLASTIC COVER WITH ONE OF THOSE PLASTIC RIB-CLAMPS WHICH MAY BE REMOVED SO THE ISSUES MAY BE KEPT IN ONE LARGE 3-RING BINDER.

TRANSACTOR (COMMODORE ONLY)
TRX...............NA.............24.......****

BOOKS & MISC. REFERENCE

PROGRAMMER'S REFERENCE GUIDE
CBM....................19.95..................*****

THE ELEMENTARY 64
DMO....................14.95..................****

THE MASTER MEMORY MAP
EDU....................NA.....................NA
GUIDE TO 64'S MEMORY, AND HOW TO CONTROL IT WITH PEEKS AND POKES.

INSIDE THE COMMODORE 64
FRE....................FREE (*)..............NA
(*) FREE WITH PURCHASE OF DEVELOP-64 SOFTWARE. GUIDE TO MACHINE LANGUAGE, ASSEMBLY LANGUAGE, MACHINE ARCHITECTURE / SAMPLE PROGRAMS WITH EXPLANATIONS.

HOW TO MAKE MONEY WITH YOUR CBM 64
PRA....................4.95..................NA

PRINTER PROGRAMMING MANUALS
REH....................15.00.................NA
MANUAL FOR GETTING THE MOST OUT OF YOUR EPSON PRINTER AND 64. (WOULD PROBABLY APPLY TO GEMINI TOO)/ SCREEN DUMPS / SIDEWAYS PRINTING, ETC.

PAL
PMP....................9.95..................****
YOU REALLY GET YOUR MONEY'S WORTH WITH THIS PAD OF PRINTED AIDS. KEYBOARD TEMPLATES / SCREEN LAYOUT GRIDS / LOG SHEETS / BASE CONVERSION CHARTS / SPRITE GRIDS / SOUND AND BASIC LANGUAGE REFERENCES.

KEYBOARD OVERLAY (PLASTIC WITH BASIC REFERENCES.)
ROT....................8.95..................NA

PC-DOCUMATE (BASIC REFERENCE OVERLAY)
SYS....................12.95.................NA

THE PROMPTER (PLASTIC FUNCTION KEY OVERLAYS)
TRN....................3.95 (PKG OF 4).....***

NEW ADDITIONS

YOUR COMMODORE 64
OSB....................12.95...........NOW..****

I SPEAK BASIC TO MY COMMODORE 64
HAS....................NA..............NOW..***+

THE ELEMENTARY COMMODORE 64
DMO....................14.95...........NOW..***+

======= TOTALLY MISCELLANEOUS ==========================

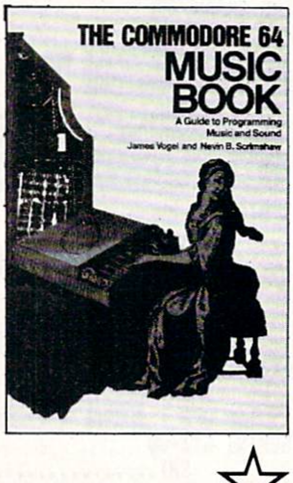
PRODUCT NAME
VENDOR CODE PRICE AVAIL RTG.

DATA LOSS INSURANCE
ACU....................NA..............NA...NA

DISK DOUBLER
LIN....................9.95............NA...NA
CUTS A JUST-RIGHT NOTCH IN YOUR DOUBLE SIDED DISKETTES SO YOU CAN FLIP THEM OVER AND USE THE OTHER SIDE.

SOFTWARE TRADING GROUP
TSE....................9.95............NA...NA
YOU SEND IN A TAPE WITH A PROGRAM YOU WROTE, THEY COPY IT AND ADD 5 PROGRAMS TO YOUR TAPE AND RETURN IT TO YOU.

THE COMMODORE 64 MUSIC BOOK
BDB....................14.95...........NOW..NA
COMPLETELY DEVOTED TO THE SUBJECT OF MAKING MUSIC WITH YOUR 64.


THE COMMODORE 64
MUSIC
BOOK
A Guide to Programming Music and Sound
James Vogel and Nevin B. Scrimshaw

VENDOR INDEX

CODE	COMPANY	CITY	STATE	PHONE #
36C-	36 COMPANY INC.	GASTON	OR	(503)357-9889
AAR-	AARDVARK	WALLED LAKE	MI	313-669-3110
ABA-	ABACUS SOFTWARE	GRAND RAPIDS	MI	616-241-5510
ABC-	A B COMPUTERS	COLMAR	PA	215-822-7727
ACA-	ACADEMY SOFTWARE	SAN RAFAEL	CA	414-499-0850
ACC-	ACCESS SOFTWARE	SALT LAKE CITY	UT	801-532-1134
ACS-	A-1 COMPUTER SERVICES	KENNEWICK	WA	509-783-4980
ACU	ASSOCIATION OF COMPUTER USERS	BOULDER	CO	
ADA-	ADVANCED ARCADEWARE	THOMASVILLE	NC	919-431-3231
ADI	ADVENTURES INC.	ALEXANDRIA	VA	800 835 2222
ADV-	ADVENTURE INTERNATIONAL	LONGWOOD	FL	305-862-6917
AHG-	AVALON HILL GAME CO.	BALTIMORE	MD	301-254-5300
AIR-	ARTIFICIAL INTELLIGENCE RESEARCH GROUP	LOS ANGELES	CA	213 656 7368
ALI-	ALIEN GROUP	NEW YORK	NY	
ALP-	ALPHACOM	CAMPBELL	CA	
AMA-	AMARAY CORPORATION	LOS ALTOS	CA	415 968 2840
AMD-	AMDEK CORP.	ELK GROVE VILLAGE	IL	312-364-1180
AME-	AMERICAN DATA CABLE INC.	PLACERVILLE	CA	916-622-3465
AMI-	AMIGA CORPORATION	SANTA CLARA	CA	408 748 0222
ANI-	ANIMAX COMPUTER	LAS VEGAS	NV	702 384 0746
ARB-	ARBUTUS TOTAL SOFT INC.	BELLINGHAM	WA	206-733-0404
ARI-	ARIES MARKETING CO.	BALTIMORE	MD	
ARK	ARKTRONICS	ANN ARBOR	MI	800 CALL ARK
ART-	ARTWORX SOFTWARE CO. INC.	FAIRPORT	NY	800 828 6573
ATA	ATARISOFT	SO. SAN FRANCISCO	CA	408 745 2000
AVC-	AVCOR	TORONTO	ON CANADA	416 864 9240
B&B	BYTES & BITS	PHOENIX	AZ	602 942 1475
B&P-	BYTES & PIECES	WAUWATOSA	WI	414 257 3562
BAB-	BASIC BYTE INC.	SOUTHFIELD	MI	800-835-2246
BAN	BANED SOFTWARE	WEST KEANSBURG	NY	
BAT-	BATTERIES INCLUDED	TORONTO	ON CANADA	416-596-1405
BAZ-	BAZ ELECTRONICS	FEDERAL WAY	WA	206 874 3029
BDB-	B. DALTON BOOKSELLER	MINNEAPOLIS	MN	
BEH-	BEHAVIORAL ENGINEERING	SCOTTS VALLEY	CA	408 438 5649
BES-	BOSTON ELECTRONIC SYSTEMS TRAINING	NEWTONVILLE	MA	
BFD-	INFO-64	AUBURN	WA	206 939 0582
BFD-	INFO-64	AUBURN	WA	
BIB-	BIBLE SOFTWARE	ALBANY	OR	
BIT	BITCARDS	PLANTATION	FL	305 473 4741
BIZ-	BIZWARE INC.	LILBURN	GA	800 221 7171
BLU	BLUE CHIP SOFTWARE	TARZANA	CA	
BMT-	BYTESIZE MICRO TECHNOLOGY	SEATTLE	WA	206 236 BYTE
BOS-	BOSTON EDUCATIONAL COMPUTING INC.	BOSTON	MA	617-536-5116
BRA-	ROBERT J. BRADY CO.	BOWIE	MD	301 262 6300
BRG	B.R. GREEN	LOS ANGELES	CA	800 824 7888
BRI-	BRILEY SOFTWARE	LIVERMORE	CA	
BRO-	BRODERBUND SOFTWARE	SAN RAFAEL	CA	
BSS-	BLUE SKY SOFTWARE	VOORHEES	NJ	609-795-4025
BUB	BUBBLE BUS	TONBRIDGE/KENT	ENG	
BYR	BYTE-RYTE	MONTREAL	PQ CANADA	
BYT-	BYTEMARK	SOUTH BEND	IN	219 232 4662
CAC-	COMPUTER ACCESSORIES	BAKERSFIELD	CA	805 872 4488
CAI-	COMPUTER ADVANCED IDEAS	BERKELEY	CA	415 526 9100
CAN	COMPUTER ANTICS INC.	YORKTOWN HEIGHTS	NY	
CAR-	CARDCO INC.	WICHITA	KS	316-267-6525
CAS	CASTLE SOFTWARE	NEW CASTLE	DE	302 429 8565
CBI-	CHALK BOARD INC.	ATLANTA	GA	800 241 3989
CBM-	COMMODORE BUSINESS MACHINES	WEST CHESTER	PA	215 431 9100
CBS-	CBS SOFTWARE	GREENWICH	CT	203 622 2503
CBY-	CBM SYSTEMS	VAN NUYS	CA	
CCC-	COMPUTER CASE COMPANY	COLUMBUS	OH	614 868 9464
CCI-	CLOCKWORK COMPUTERS	ROCKVILLE	MD	301 924 4157
CDC-	COMM$DATA COMPUTER HOUSE	MILFORD	MI	313-685-0113
CDS-	COMMERCIAL DATA SYSTEMS LTD.	REGINA	SK CANADA	306 525 3386
CGR-	CGRS MICROTECH	LANGHORNE	PA	215-757-0284
CIM-	CIMARRON CORP.	SANTA ANA	CA	714-662-2801
CIR-	CIRCADIAN SOFTWARE INC.	MELBOURNE	FL	305 723 5717
CIS-	CITY SOFTWARE			414-277-1230 (C)
CMC-	CONNECTICUT MICROCOMPUTER	BROOKFIELD	CT	203-775-4595
CMX-	COMREX INTERNATIONAL INC.	TORRANCE	CA	213 373 0280
CNS-	CONSOLINK CORP.	LONGMONT	CO	800 525 6705
COA-	COMPUTER ALLIANCE	CHATSWWORTH	CA	213-368-4089
COB	COMPUTRON BUSINESS SYSTEMS	PORTLAND	OR	503 224 2220
COC-	COMPUTER CENTER	SACRAMENTO	CA	916 366 3609

CODE	COMPANY	CITY	STATE	PHONE #
COM-	COMPUTERMAT	LAKE HAVASU CITY	AZ	602-855-3357
CON-	CONTINENTAL SOFTWARE CO.	LOS ANGELES	CA	213-417-3003
COP-	COMPUTER PLACE	TORRANCE	CA	213-325-4754
COU	COUNTERPOINT SOFTWARE INC.	MINNEAPOLIS	MN	
CPE-	COMPUTER PERIPHERALS	LOS ANGELES	CA	213 298 1297
CPI-	COMPUTER POWER INT'L	HEMET	CA	800-258-7862
CPU	COMPUTE! PUBLICATIONS INC.	GREENSBORO	NC	919 275 9809
CRE-	CREATIVE SOFTWARE	SUNNYVALE	CA	408-745-1655
CRO-	CROSSTECH GRAPHICS	CHICAGO	IL	312-871-3555
CRQ	CREATIVE EQUIPMENT	MIAMI	FL	305 261 7866
CSA-	COMPUTER SOFTWARE ASSOCIATES	RANDOLPH	MA	800-343-1078
CSI-	COUNTERPOINT SOFTWARE INC.	MINNEAPOLIS	MN	800 328 1223
CSS	COMPREHENSIVE SOFTWARE SUPPORT	REDONDO BEACH	CA	213 318 2561
CSV-	COMPUSERVE	COLUMBUS	OH	800-848-8199
CTC-	COMPUTECH	REDONDO BEACH	CA	
CUE-	CUESTA SYSTEMS INC.	SAN LUIS OBISPO	CA	805 541 4160
CUG-	COMMODORE 64 USERS GROUP	LISLE	IL	312 369 6525
CUR-	CURSOR 64	SANTA BARBARA	CA	805-683-1585
CYB-	CYBERIA INC.	AMES	IA	800 247 3900
CYG-	CYGNUS EXPERT SYSTEMS INC.	WATER MILL	NY	
DAB-	DAYBREAK SOFTWARE	BALDWIN	NY	800 645 3739
DAS	DATASOFT INC.	CHATSWORTH	CA	213 701 5161
DAT-	DATA 20 CORP.	LAGUNA HILLS	CA	714 770 2366
DAV-	DAVIDSON & ASSOCIATES	RANCHO PALOS VERDES	CA	213 378 7826
DAY-	DAYPROM COMPUTER INC.	DAYTON	OH	513 299 8555
DEE	DOUBLE E ELECTRONICS INC.	OMAHA	NE	402 334 7870
DEL-	GENERAL VIDEOTEX CORP.	CAMBRIDGE	MA	617-491-3393
DES-	DATA EQUIPMENT SUPPLY CORP.	DOWNEY	CA	213-923-9361
DIA-	DIALOGUE INFORMATION SERVICES	PALO ALTO	CA	800 528 6050/415
DIC-	DISPLAY INTERFACE CORP.	MILFORD	CT	203 877 7661
DIG-	DIGITAL ARTS CORP.	CINCINNATI	OH	513-891-1217
DIL-	DILITHIUM SOFTWARE	BEAVERTON	OR	800 547 1842
DIS-	DIGITAL INTERFACE SYSTEMS CO.	PORTLAND	OR	503 230 1130
DLM-	DEVELOPMENTAL LEARNING MATERIALS	ALLEN	TX	800 527 4747
DLX-	DELUXE COMPUTER FORMS	ST. PAUL	MN	800 228 5666
DMI-	DMI SOFTWARE INC.	SAN DIEGO	CA	619-223-4496
DMO-	DATAMOST INC.	CHATSWORTH	CA	213-709-1202
DOC-	DOCUTEL/OLIVETTI CORP.	TARRYTOWN	NY	
DON-	DON'T ASK COMPUTER SOFTWARE	LOS ANGELES	CA	213-477-4514
DOW-	DOW JONES NEWS	PRINCETON	NJ	800 222 0081
DTB	DATABAR CORPORATION	EDEN PRAIRIE	MN	612 944 5700
DTK-	DATA TREK	ENCINITAS	CA	619 436 5055
DUS-	DUNGENESS SOFTWARE	SEQUIM	WA	
DYM	DYMARC INDUSTRIES INC.	BALTIMORE	MD	800 638 9098
DYN-	DYNACOMP INC.	ROCHESTER	NY	716 442 8960
DYT	DYNATECH MICROSOFTWARE INC.	NILES	IL	800 621 4109
EAS-	EASTERN HOUSE	WINSTON-SALEM	NC	919-924-2889
ECC	EASTERN COMPUTER CONSULTING ASSOCIATES	WORCESTER	MA	
ECI-	EDUCATION CIRCUIT INC.	LANDING	NJ	201-398-6185
ECP-	EMBASSY COMPUTER PRODUCTS	LITTLE NECK	NY	
ECX-	ECX COMPUTER COMPANY	WALNUT CREEK	CA	415-944-9277
EDU-	EDUCATIONAL SOFTWARE INC	SOQUEL	CA	800 692 9520
EHS-	EVENT HORIZON SOFTWARE	NEW YORK	NY	212-535-0697
ELC-	ELECTRA CONCEPTS	BOHEMIA	NY	
ELE-	ELECTRONIC ARTS	SAN MATEO	CA	415 571 7171
ELI-	ELECTRONIC LAB INDUSTRIES	BALTIMORE	MD	301 366 8138
EME-	EMERALD SOFTWARE	LINDENHURST	NY	516-226-5849
ENG-	ENGLISH SOFTWARE	REDONDO BEACH	CA	213 372 3440
ENT-	EN-TECH SOFTWARE	SUN VALLEY	CA	213-764-6833
EPD-	ELECTRONIC PROTECTION DEVICES INC.	WALTHAM	MA	617-891-6602
EPI-	ELCOMP PUBLISHING INC.	PAMONA	CA	714 623 8314
EPS-	EPSON AMERICA INC.	TORRANCE	CA	213-539-9140
EPY-	EPYX/ AUTOMATED SIMULATIONS INC.	SUNNYVALE	CA	
ESI-	ELECTRONIC SOFTWARE INC.	BLOOMFIELD HILLS	MI	
EST	ESTES ENGINEERING INC.	SALINA	KS	913 827 0629
EXA-	EXATRON	SUNNYVALE	CA	408-737-7111
F/2	F/22 PRESS	LEONIA	NJ	201 568 6250
FAB-	FABTRONICS	BROCKPORT	NY	
FAN-	FANTASY COMUTERWARE	SIOUX FALLS	SD	605-335-7684
FER-	FERIN ENTERPRISES	CEDAR RAPIDS	IA	
FID-	FIDELITY ELECTRONICS LTD.	MIAMI	FL	305 888 1000
FIN-	FINETECH FURNITURE INC.	WOODBURY	TN	615 765 5021
FIR	FIRST STAR SOFTWARE INC	NEW YORK	NY	212 532 4666
FOV-	FOXVILLE COMMUNICATIONS CORP.	SCOTTSDALE	AZ	602 948 9817
FOX-	FOXSOFT (DIVISION OF FOXFIRE SYSTEMS)	DEER PARK	TX	713-473-6723
FRE-	FRENCH SILK SMOOTHWARE	CANNON FALLS	MN	507-263-4821

CODE	COMPANY	CITY	STATE	PHONE #
FRO-	FRONTLINE PRODUCTS	GLENDALE	CA	213 845 8139
FUN-	FUNSOFT	AGOURA	CA	213 991 6540
GAL-	GALACTIC SOFTWARE	SAN JOSE	CA	408-247-4434
GAM	GAMESTAR INC.	SANTA BARBARA	CA	805 963 3487
GAT-	GATOS INTERNATIONAL	SAN FRANSISCO	CA	
GCC-	GENESIS COMPUTER CORP.	BETHLEHEM	PA	215-861-0850
GEM-	GEMTECH LABORATORIES	RURAL HALL	NC	
GLO	GLOUCESTER COMPUTER	GLOUCESTER	MA	
GMA-	GAMMA RESEARCH	LOS ANGELES	CA	213 463 2345
GNT-	GENTRY SOFTWARE	CHATSWORTH	CA	800 423 5916
GOS-	GOSUB INTERNATIONAL INC.	WICHITA	KA	316 265 9992
GPM-	GP MICROSYSTEMS	GLENDALE	NY	
GRA-	GRAPEVINE SOFTWARE INC.	LENEXA	KS	913 888 0501
GSS-	GOSUB OF SLIDELL	SLIDELL	LA	504-641-8307
GTC-	GENEVA TECHNOLOGIES CORP.	CRANFORD	NJ	201 276 1144
GTR	GATOR SOFTWARE	LAKEWOOD	CA	
H&H-	H&H ENTERPRISES	MILWAUKEE	WI	
HAC-	HACKER'S HARDWARE	SAN DIEGO	CA	
HAS	HAYDEN BOOK COMPANY INC.	ROCHELLE PARK	NJ	800 631 0856
HAY-	HAYDEN SOFTWARE	LOWELL	MA	
HBJ-	HARCOURT BRACE JOVANOVICH INC.	SAN DIEGO	CA	800 543 1918
HES-	HUMAN ENGINEERED SOFTWARE	BRISBANE	CA	800 227 6703
HIN-	DR. JERRY L. HINTZE	KAYSVILLE	UT	801 546 0445
HOR-	HORIZON SOFTWARE	ASTORIA	NY	
HOT	HOT DATA	SANTA MONICA	CA	213 393 6405
HTE-	HIGH TECH ENTERPRISES	NEWPORT BEACH	CA	
HUT-	HUTCHCRAFT ASSOCIATES	ITHACA	NY	607-347-4782
HYT-	HYTEC SYSTEMS	WEST LINN	OR	503-636-6888
IDC-	INFO-DESIGNS	BIRMINGHAM	MI	313-540-4010
INC-	INTEGRATED CONTROLS	COSTA MESA	CA	714 641 0181
INF-	INFOCOM INC.	CAMBRIDGE	MA	617-492-1031
INI	INFINITY SOFTWARE	SAN JOSE	CA	408 629 6208
INK	INKWELL SYSTEMS	SAN DIEGO	CA	619 268 8792
INP-	INPUT SYSTEMS INC.	HOMESTEAD	FL	305 245 3141
INR	INFORUNNER CORPORATION	SANTA MONICA	CA	800 824 3044
INS	INTELLIGENT STATEMENTS			800 334 5470
INS	INSTITUTIONAL COMPUTER DVLPMNT. CORP.	BELLMORE	NY	800 645 4710
INT-	INTERESTING SOFTWARE	TORRANCE	CA	213-328-9422
IPF-	IPF PUBLICATIONS	POMONA	NY	914 354 5585
ISI-	ISIS HATHOR DIGITAL PRODUCTIONS	GOLETA	CA	805-964-6335
JAN	JANCE ASSOCIATES INC.	EAST TEXAS	PA	
JAS-	JASON-RANHEIM	SAN JOSE	CA	800 421 7731
JIN-	JINI MICRO-SYSTEMS	RIVERDALE	NY	212-796-6200
JOU-	JOU LABORATORIES	RICHARDSON	TX	
JUS-	JUST ANOTHER SOFTWARE CO.	PALO ALTO	CA	
JVB-	JVB ELECTRONICS	SACRAMENTO	CA	916 483 0709
KAT-	KATTWINKEL KOMPUTING	INDIAN HARBOUR BEACH	FL	
KID	KIDWARE	IDAHO FALLS	ID	
KOA-	KOALA TECHNOLOGIES CORP.	LOS ALTOS	CA	800-227-6703
KOL	KOLOB MARKETING INC.	SALT LAKE CITY	UT	
KRE-	KRELL SOFTWARE CORP.	STONY BROOK	NY	516-751-5139
KSC-	KRAFT SYSTEMS COMPANY	VISTA	CA	619-724-7146
L&L	L&L ENGINEERING	KENT	WA	206 631 3383
LAW	LAWCO LTD.	CUPERTINO	CA	408 733 0739
LEP-	LEADING EDGE PRODUCTS INC.	CANTON	MA	800 343-6833
LIM-	LIMBIC SYSTEMS INC.	PALO ALTO	CA	415 964 8788
LIN-	LINK MARKETING	SEATTLE	WA	800 323 1717 (OP-515)
LIT-	LITTLE WIZARD MANUFACTURING	MILWAUKEE	WI	414 968 2558
LOE	LOGISTIC ENGINEERING ASSOCIATES			619 562 1047
LOG-	LOGOS SOFTWARE	SANTA BARBARA	CA	805-687-0205
LON-	LONDON SOFTWARE	PIEDMONT	CA	415 893 1090
LUN-	LUNA SOFTWARE	SAN JOSE	CA	408-378-7793
LYN	LYNN COMPUTER SERVICE	TINLEY PARK	IL	312 429 1915
MAC	MAGIC CARPET	PHOENIX	AZ	
MAD-	MADISON COMPUTER	MADISON	WI	608 255 5552
MAG-	MAGREEABLE SOFTWARE INC.	PLYMOUTH	MN	612-559-1108
MAN-	MANNESMANN TALLY	KENT	WA	206 251 5500
MAX-	MAXELL CORPORATION OF AMERICA	MOONACHIE	NJ	201-440-8020
MCA-	MICROCOMPUTER ACCESSORIES	LOS ANGELES	CA	213 477 4216
MCL-	MICOL SYSTEMS	WHITTIER	CA	
MCR-	MICROCLEAR	RAYTOWN	MO	
MCS-	MASTER CONTROL SOFTWARE INC.	SALT LAKE CITY	UT	800 624 5596
MDG-	MICRODIGITAL	WEBSTER	NY	800 833 7384
MED-	MICRO-ED INC.	MINNEAPOLIS	MN	612-926-2292
MEG-	MEGA SOFTWARE	KLAMATH FALLS	OR	

CODE	COMPANY	CITY	STATE	PHONE #
MEL-	MELCOMP	MELBOURNE	FL	
MER-	MERRITT SOFTWARE INC.	FAYETTEVILLE	AR	501 442 0914
MES	MELCHER SOFTWARE	MIDLAND	MI	
MGR-	MICROGRAMS INC.	LOVES PARK	IL	815-965-2464
MIC-	MICRO SOLUTIONS INC.	NEW YORK	NY	212-222-6687
MID-	MIDWEST MICRO INC.	KANSAS CITY	MO	816-333-7200
MIF-	MICROCRAFT SYSTEMS INC.	ANN ARBOR	MI	313 996 1297
MIL-	MILTON BRADLEY	EAST LONGMEADOW	MA	413 525 6411
MIN-	MINDWORKS	WINTERS	CA	916 795 2322
MIO-	MIDNIGHT-OIL	BEAVERTON	OR	
MIP-	MICROPERIPHERAL CORP.	REDMOND	WA	206 881 7544
MIQ-	MICROTECHNIQUES	CHESTERFIELD	MO	
MIR-	MIRAGE CONCEPTS INC.	FRESNO	CA	209 227 8369
MIS-	MIS	BOULDER CREEK	CA	408-338-9546
MLI-	MICROLAB INC.	HIGHLAND PARK	IL	312 433 7550
MLP-	MISSING LINK PRODUCTS	COLORADO SPRINGS	CO	303 473 8909
MMG	MMG MICRO SOFTWARE	MARLBORO	NJ	201 431 3472
MOS	MOSAIC	OREGON CITY	OR	800-223-3726
MPH-	MICROPHYS PROGRAMS	BROOKLYN	NY	212-375-5151
MPS-	MICROPROSE SOFTWARE	PARKTON	MD	301 357 4739
MRS-	MICHAEL RILEY SOFTWARE	PHILADELPHIA	PA	215-923-9663
MSA-	MSA	ATLANTA	GA	
MSD-	MICRO SYSTEMS DEVELOPMENT INC.	DALLAS	TX	800-527-5285
MSM-	MICRO SIMULATIONS	HOUSTON	TX	
MSP-	MICROSPEC	PLANO	TX	214-867-1333
MSS-	MICRO SYSTEMS SPECIALTIES	TACOMA	WA	
MTI-	MICRON TECHNOLOGY INC.	BOISE	ID	208-383-4000
MTS-	MICROTECHNIC SOLUTIONS INC.	NEW HAVEN	CT	203-389-8383
MWD-	MICRO-WARE DISTRIBUTING INC.	BUTLER	NJ	201-838-9027
MWE-	MICRO WORLD ELECTRONIX INC.	LAKEWOOD	CO	303-934-1973
MWS-	MIDWEST SOFTWARE	FARMINGTON	MI	313-477-0897
MXI-	MAXIMUS INC.	MCLEAN	VA	800 368 2152
MYS-	MYSTIC SOFTWARE	LAKESIDE	CA	619-443-9976
N&B-	NIBBLES & BITS INC.	ORCUTT	CA	
NAN	NANOS SYSTEMS CORPORATION	SPEEDWAY	IN	317 244 4078
NAP-	NATIONAL PROGRAMMING AND SOFTWARE	RENTON	WA	206 228 1249
NAV-	NAVIC SOFTWARE	NORTH PALM BEACH	FL	800 327 2133
NDC-	NDC	INDEPENDENCE	MO	816-254-0400
NEB-	NEBS COMPUTER FORMS	TOWNSEND	MA	800 225 9550
NEL-	NELSON SOFTWARE	ST. PAUL	MN	612 738 1080
NEW-	NEWPORT CONTROLS	BISHOP	CA	408 358 3430
NLI	NEW LEAF INC.	BELLEVILLE	IL	
NUF-	NUFEKOP	SHADY COVE	OR	503-878-2113
ODE-	ODESTA CORPORATION	NORTHBROOK	IL	800 323 5423
OEM	O.E.M. INC.	FORT PIERCE	FL	
OMN-	OMNI UNLIMITED	PASADENA	CA	213-795-6664
ORI	ORION SOFTWARE	AUBURN	AL	800 821 8088
OSB	OSBORNE/MCGRAW-HILL	BERKELY	CA	800 227 2895
OSS-	OPTIMIZED SYSTEMS SOFTWARE INC.	CUPERTINO	CA	408-446-3099
OTT-	OTTO SYSTEMS	SAN DIEGO	CA	
PAC-	PACIFIC COAST SOFTWARE CORP.	DIAMOND BAR	CA	714-594-8210
PAE	PARSEC RESEARCH	FREMONT	CA	415 651 3160
PAL-	PALAMINE LTD.	VANCOUVER	BC	604-879-9171
PAN-	PANASONIC COMPANY	SEACAUCUS	NJ	201 348 7000
PAR-	PARKER BROTHERS INC.	SALEM	MA	617 927 7600
PAS-	PALACE SOFTWARE	LONDON	WB	LONDON 937 6258
PCT-	PC TECHNOLOGY	BALLWIN	MO	314-968-6557
PDI-	PROGRAM DESIGN INC.	GREENWICH	CT	203 661 8799
PEK	PEEK MAGAZINE	CLEVELAND	OH	
PER-	PERFORMANCE MICRO PRODUCTS	CANTON	MA	617-828-1209
PES-	PERSIMMON PERIPHERALS	CLAYTON	GA	
PGI-	PROGRAMMER'S INSTITUTE	CHAPEL HILL	NC	919-967-0861
PHA	PHANTOM SOFTWARE	MANHATTAN BEACH	CA	213 379 8686
PHP-	PRENTICE HALL PUBLISHING	ENGLEWOOD CLIFFS	NJ	201 592 2663
PIC-	PICTURE-PERFECT	LOS ANGELES	CA	
PIO-	PIONEER SOFTWARE INC.	VICTORIA	BC CANADA	604 381 3211
PIX-	PIXELL SOFTWARE	LAKEWOOD	CO	303-922-9197
PLA	PLAYGROUND SOFTWARE	CHAPEL HILL	NC	800 334 SOFT
PMI-	PMI	BUCKFIELD	ME	207 336 2500
PMP-	PM PRODUCTS	TORRANCE	CA	
PMS-	PROFESSIONAL MICRO SERVICE	BALTIMORE	MD	301-366-0010
POR	POWERLINE SOFTWARE	NEW HARTFORD	NY	
POW-	POWERBYTE SOFTWARE	WEST BERLIN	NJ	609-346-3063
PPP-	PERSONAL PERIPHERAL PRODUCTS	AURORA	IL	312-961-2347
PRA-	PRACTICAL APPLICATIONS	EDWARDSBURG	MI	
PRE-	PRECISION SOFTWARE LIMITED	SURREY	KT4 7JZ	01-330-7166

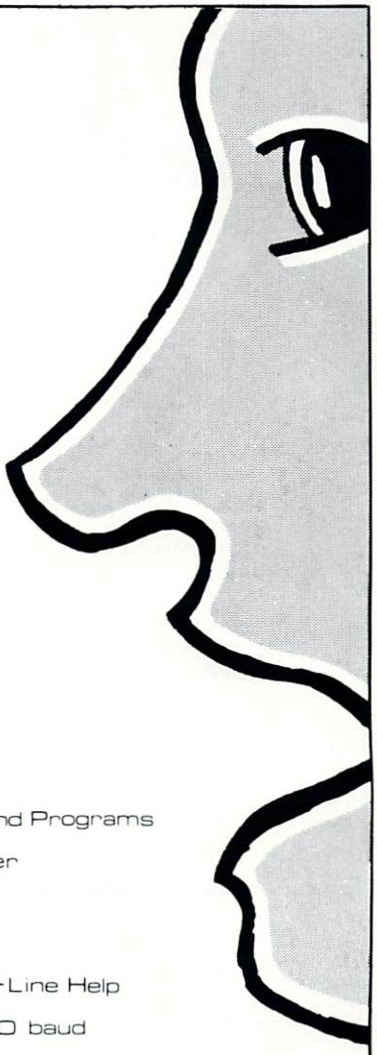
CODE	COMPANY	CITY	STATE	PHONE #
PRG-	PROGRESSIVE PERIPHERALS & SOFTWARE	LAKEWOOD	CO	303 863 7533
PRI	PRINCETON EDUCATIONALG SOFTWARE	PRINCETON	NJ	201 683 0044
PRL-	PRO-LINE SOFTWARE	MISSISSAUGA	ON CANADA	416 273 6350
PRO-	PROFESSIONAL SOFTWARE INC.	NEEDHAM	MA	617-444-5224
PRS-	PRS	AMARGOSA VALLEY	NV	
PRU	PROGRAMMERS GUILD	LACRESCENT	MN	
PSY-	PSYCOM SOFTWARE INTERNATIONAL	CINCINNATI	OH	513-474-2188
PTE-	PTERODACTYL SOFWARE	FAIRFAX	CA	415-485-0714
PTI-	PRECEISION TECHNOLOGY INC.	SALT LAKE CITY	UT	801-487-6266
PTM	PACIFIC TRI MICRO	ORANGE	CA	714 771 4038
PUB-	PUBLIC DOMAIN INC.	W. MILTON	OH	513 339 1725
PYR	PYRAMID SOFTWARE INTERNATIONAL		CA	415 459 1333
QBF-	QUICK BROWN FOX	NEW YORK	NY	212-925-8290
QUA-	QUALITY COMPUTER	VENTURA	CA	805-656-1330
QUI-	QUICKSILVA INC.	SAN ANTONIO	TX	512 492 8054
R&L	R&L PRODUCTS	LOS ANGELES	CA	
RAI-	RAINBOW COMPUTER CORP.	FRAZER	PA	215-296-3474
RAK-	RAK ELECTRONICS	ORANGE PARK	FL	
RAM-	RAMIAK	AURORA	CO	303-690-3088
RAN-	RANDOM ACCESS MARKETING	NEWPORT BEACH	CA	714-640-5119
RAP-	RAPIDWRITER	LEVERETT	MA	413-549-3744
RAY-	RAYMAC SOFTWARE GROUP	BOULDER CREEK	CA	408-338-9848
RDC	ROCKWARE DATA CORPORATION	DALLAS	TX	1 800 527 4171
RED	RED-SHIFT SOFTWARE	SEATTLE	WA	
REH-	R. E. HUFFMAN	MUNSTER	IN	
REN	RENSOFT SOFTWARE SYSTEMS	CORAM	NY	
RES-	RESTON SOFTWARE	RESTON	VA	800 336 0338
RHI-	RHIANNON	RICHMOND	VA	804 272 7770
RLR-	RAYMOND L. REYNOLDS	FALL RIVER	MA	
ROM-	ROMOX INC.	CAMPBELL	CA	
ROT-	ROYAL OAK TRADING	MOHNTON	PA	
RSL-	REES SOFTWARE LABORATORIES	CUCAMONGA	CA	714 981 5925
RTC-	RICHVALE TELECOMMUNICATIONS	RICHMOND HILL	ON CANADA	416-884-4165
S&G-	S&G CONSULTING	BENSALEM	PA	
SAK-	SAKATA U.S.A. CORP.	ELK GROVE VILLAGE	IL	800 323 6647
SAU-	SAURA COMPUTER SOFTWARE & CONSULTING	ANCHORAGE	AK	907-272-1373
SAW-	SOFT-AWARE	GLENDORA	CA	
SCA-	SCARBOROUGH SYSTEMS INC.	TARRYTOWN	NY	800 882 8222
SCH-	SCHOLASTIC INC.	HICKSVILLE	NY	
SCI-	SCIENTIFIC & EDUCATIONAL SOFTWARE INC.	DAYTON	OH	
SCR-	SCREENPLAY	CHAPEL HILL	NC	800 334-5470
SDP-	SYDNEY DATA PRODUCTS INC.	SAN DIEGO	CA	619-298-5886
SEI	SEI ENTERPRISES INC	HIGHLAND MILLS	NY	
SEN-	SENTIENT SOFTWARE INC.	ASPEN	CO	303 925 9293
SEW-	SKYLES ELECTRIC WORKS	MOUNTAIN VIEW	CA	800-227-9998
SEY-	SEYAU-KAUN LOKE	SANTA ANA	CA	
SFP-	SOFTPEOPLE INC.	SAINT PAUL	MN	800 447 3273
SFS-	SOFTSYNC INC.	NEW YORK	NY	212 685 2080
SFT-	SOFTSMITH INC.	UNION CITY	CA	800 341 4000
SFT-	SOFTRON INC.	NEW YORK	NY	212 490 0077
SIE-	SIERRA ON-LINE INC.	COARSEGOLD	CA	209-683-6858
SIM-	SIM COMPUTER PRODUCTS INC.	WHITEMARSH	PA	215-825-4250
SIP	SIMPLEWARE	ROCHESTER	NY	
SIR-	SIRIUS SOFTWARE INC.	SACRAMENTO	CA	916-366-1195
SMA-	SMALL SYSTEMS ENGINEERING	PALO ALTO	CA	415-964-8201
SMI-	STAR MICRONICS INC.	DALLAS	TX	214-631-8560
SMN-	SIEMENS COMMUNICATION SYSTEMS INC.	ANAHEIM	CA	714 991 9700
SMO-	SMOKY MOUNTAIN SOFTWARE	BREVARD	NC	704 883 2595
SMS-	SPELLMASTER SYSTEMS SOFTWARE	GULFPORT	FL	813-347-6733
SMX-	SIMPLEXSOFT LTD.	MARION	IA	
SNS-	SUNSOFT	ALTURAS	FL	
SNX-	SYNTAX SOFTWARE INC.	WILLOWDALE	ON CANADA	416-221-8008
SOC-	SOUTHERN CASE INC.	RALEIGH	NC	800 334 0551
SOE	SOUND EXPANSIONS	HOUSE SPRINGS	MO	314 677 4295
SOF-	SOFTLOCK TECHNOLOGY	NORWALK	CA	213 868 7820
SOL-	SOLIDUS INTERNATIONAL CORP.	BELLINGHAM	WA	206-734-3744
SOP-	SOPHWARE	RESEDA	CA	
SOR-	SOURCE TELECOMPUTING	MCLEAN	VA	800 336 3330
SOT	SOTA ENTERPRISES INC.	SOUTH PASADENA	CA	
SOU-	SOUTHERN SOLUTIONS	MCKINNEY	TX	214-542-0278
SOW	SOFTWAVE	SUMMERTOWN	TN	800 251 8066
SPB	SUPERBYTE	WEST BERLIN	NJ	609 346 3063
SPH	SOPHISTICATED SOFTWARE OF AMERICA	KING OF PRUSSIA	PA	215 265 2277
SPI-	SPINNAKER SOFTWARE	CAMBRIDGE	MA	617-868-4700
SSP-	STERLING SWIFT PUBLISHING CO.	AUSTIN	TX	512 282 6840
STA-	STAR SOFTWARE	MERRICK	NY	516-379-0280

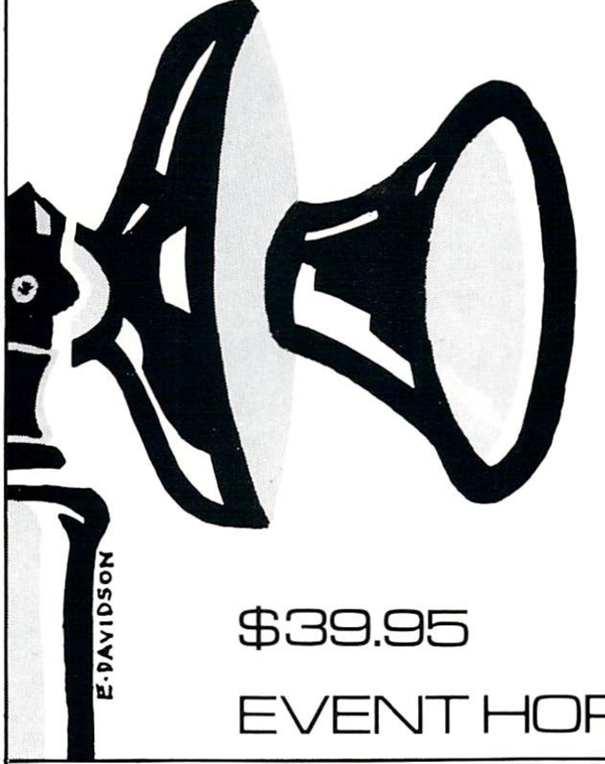
CODE	COMPANY	CITY	STATE	PHONE #
STC-	STARTECH INC.	MARINA DEL REY	CA	
STE-	STEP INDUSTRIES	HOUSTON	TX	
STG-	SOFTWARE TO GO	OAK RIDGE	TN	615-482-9592
STI	STIMUTECH INC.	EAST LANSING	MI	800 821 2424
STP	STARPOINT SOFTWARE	GAZELLE	CA	916 435 2386
STR-	STRATEGIC SIMULATIONS INC.	MOUNTAIN VIEW	CA	800 227 1617
SUB-	SUBLOGIC CORP.	CHAMPAIGN	IL	217 359 8482
SUD	SUNDIAL SOFTWARE ASSOCIATES	ROCHESTER	NY	716 654 7107
SUN-	SUNCOM INC.	NORTHBROOK	IL	312-291-9780
SUP	SUPERIOR GRAPHICS EMPORIUM	TACOMA	WA	206 845 5903
SUS-	SUSIE SOFTWARE	MT PROSPECT	IL	312-394-5165
SVI-	SPECTRA VIDEO INC.	NEW YORK	NY	201 664 8611
SWC-	SOFTWARE CONSULTANTS	SALT LAKE CITY	UT	801-566-3901
SWP-	SOFTWARE PLUS	CITRUS HEIGHTS	CA	
SYD	SYDNEY DEVELOPMENT CORP			619 231 1775
SYF	SYSTEM VII FURNITURE	LAFAYETTE	OR	800 547 8888
SYM-	SYMTEC	DETROIT	MI	313 272 2950
SYN-	SYNAPSE SOFTWARE	RICHMOND	CA	415-527-7751
SYS-	SYSTEMS MANAGEMENT ASSOCIATES	RALEIGH	NC	919-787-7703
T&F-	T&F SOFTWARE COMPANY	NORTH HOLLYWOOD	CA	213-501-5845
T&M	T&M PRODUCTS	DE SOTO	TX	
TAM-	TAMARACK SOFTWARE	DARBY	MT	406 821 4596
TAU-	TAURUS COMPUTER PRODUCTS INC.	BUFFALO	NY	603 673 6662
TAY-	TAYLORMADE SOFTWARE	LINCOLN	NE	402-464-9051
TCN-	THE COMPUTER NETWORK	FOUNTAIN VALLEY	CA	714 855 4366
TEA-	TEACHING TOOLS	PALO ALTO	CA	
TEL-	TELEGAMES SOFTWARE	HAMPTON	ON CANADA	416 263 8064
TEX-	TEXAS TECHNICAL SERVICES INC.	HOUSTON	TX	713-965-9977
TGP	TG/PRODUCTS	PLANO	TX	214 424 8568
THO	THOR SOFTWARE	MERRICK	NY	
TIS-	TOTAL INFORMATION SERVICES INC.	LOS ALAMOS	NM	
TLS-	TELELEARNING SYSTEMS	SAN FRANCISCO	CA	800 225 3276
TMQ-	TMQ SOFTWARE INC.	BUFFALO GROVE	IL	
TMW-	TIMEWORKS INC.	DEERFIELD	IL	800-323-9755
TOP-	TOPOLOGIC	BURLINGTON	IA	319-754-5291
TOT-	TOTL SOFTWARE INC.	WALNUT CREEK	CA	415-943-7877
TOU	TOUCH TECHNOLOGIES	ESCONDIDO	CA	619 743 0494
TPU-	TORONTO PET USERS GROUP	TORONTO	ON CANADA	
TRA-	TRANSTAR	BELLEVUE	WA	206-454-9250
TRC-	TRACE	MOUNTAIN VIEW	CA	800-24TRACE
TRI-	TRIMICRO	ORANGE	CA	714 771 4038
TRN-	TRANSIERRA TECHNOLOGY	MADERA	CA	
TRO-	TRONIX	INGLEWOOD	CA	213 215 0529
TSE-	THE SOFTWARE EXCHANGE	HOOD RIVER	OR	
TSI	TRILOBYTE SERVICES INC.	PORTLAND	OR	
TTX-	TELETEX COMMUNICATION CORP.	FOSTER CITY	CA	415 341 1300
TWZ	THE WIZARDS	THE WOODLANDS	TX	
UHL	U.H.L. RESEARCH ASSOCIATES INC	LONG BEACH	CA	213 493 1955
UMB-	UMBRELLA SOFTWARE INC.	BRAMALEA	ON CANADA	
UMI-	UNITED MICROWARE INDUSTRIES	PAMONA	CA	714-594-1351
UNC-	UNICORN SOFTWARE	LAS VEGAS	NV	702 798 2727
UNI-	UNITRONICS	OAKLAND	CA	415 536 6655
USE	USEFUL SOFTWARE	SCARSDALE	NY	
VAD-	VADEM	SANTA CLARA	CA	408 738 0571
VAI-	VAISALA INC.	WOBURN	MA	800 227 3800 /HAWS
VCP-	VIDEO & COMPUTER PLACE INC.	MEDINA	OH	216 722 0770
VCT-	VICTORY SOFTWARE	PAOLI	PA	215-296-3787
VIC	VIDEOCONCEPTS	NILES	IL	800 621 4109
VID-	VIDEOBOOK CORPORATION	SEATTLE	WA	206 282 3636
VIR-	VIRGINIA MICRO SYSTEMS	WOODBRIDGE	VA	703 491 6502
VIS-	VISUAL HORIZONS	ROCHESTER PARK	NY	
VIV-	VIDEO VALUE	ROLLING HILLS ESTATES	CA	800 227 3800/528
VOM-	VILLAGE OFFICE MACHINES	ROLLING MEADOWS	IL	312-991-0880
VOT-	VOTRAX	TROY	MI	800 521 1350
WCI-	WAVE COMPUTERS INC.	FEDERAL WAY	WA	206-839-WAVE
WEB-	WEBBER SOFTWARE	SOUTHEASTERN	PA	215 687 5607
WEO	WESOFT	MINNEAPOLIS	MN	612 922 5808
WEP	WEPCO	BELMONT	CA	800 831 6996
WIC	WICO	NILES	IL	
WIZ	WIZARD WARE	BOLINGBROOK	IL	
WRI-	WRITE ON PROGRAMS	GREENLAWN	NY	516 271 3177
WRO-	WILLIAM ROBBINS	SAN RAFAEL	CA	
XAN	XANA DATA SYSTEMS			213 410 9884
ZAX-	ZAXIS	SAN CARLOS	CA	415-592-4334
ZIR	ZIRCON INTERNATIONAL INC.	CAMBELL	CA	

MOUTHPIECE™

THE COMMUNICATIONS SYSTEM

By David Barron & Michael Kleinert





- Upload/Download of Text and Programs
- 30K Send/Receive Buffer
- Full Printer Support
- Function Key Macros
- On-Screen Status and On-Line Help
- Talk Fast from 110 to 1200 baud
- Disk Access with no DOS needed
- 100% Machine Language

$39.95

EVENT HORIZON SOFTWARE

SORCERER'S APPRENTICE

By Adam Bellin

FOR THE ARTIST WITHIN YOU!

- 16 Color Palette
- On-Line Help
- Automatic Area Fill
- Microview
- Memory Move
- Load/Save Screens and Fonts from Disk
- Automatic Lines
- Rectangles
- Triangles
- Circles
- Ellipses

Design Custom Type Fonts and Symbols
Use Screens in your own Basic Programs

$49.95 DISK ONLY
PLUS $2.00 SHIPPING

P.O. BOX 1327 NEW YORK, NY 10028 212 535-0697
EVENT HORIZON SOFTWARE

© 1983 Event Horizon Corporation All Rights Reserved

CIRCASCRIPT WORD PROCESSOR $39.95

FOR COMMODORE 64®

Packed with Features You'll Like
at a Price You'll Love

INCLUDES:

- ★ No Glare, Light Gray Background with Black Letters
- ★ Prompt Line in White Letters
- ★ Four Help Screens
- ★ 40 Page Manual with Complete Index
- ★ Multiple Line Spacing
- ★ Delete and Retrieve Characters, Words & Paragraphs
- ★ Global Search/Search and Replace
- ★ Format New Disk from Editor Menu
- ★ Tabbing
- ★ Modify Margins Anywhere in Text
- ★ Block Save and Move
- ★ Indentation
- ★ Underlining
- ★ Page Headings & Numbering
- ★ Conditional and Unconditional Paging
- ★ Center Text
- ★ Supports Printers through User or Serial I/O Ports
- ★ List Files on Disk

Circadian Software, Inc.

FOR FASTER SERVICE CALL — (305) 723-5717
P. O. BOX 1208
MELBOURNE, FLORIDA 32902

VISA

MasterCard

Commodore 64® is a registered trademark of Commodore Business Machines, Inc.

Let The SMART 64 Terminal

COMMODORE 64*

Do The DRIVING

No matter which direction you wish to travel in, experience the advantage of computer communications with The SMART 64 Terminal. Discover the program that puts you on the Right Road to: Public-Access Networks, University Systems, Private Company Computers and Financial Services.

The SMART 64 Terminal designed with Quality-Bred features, Affordable Pricing . . . And Service.

So why not travel the communications highways the SMART way!

Suggested
$39.95
Retail

Accessories included:

- ☐ *Selective Storage of Received Data.*
- ☐ *Alarm Timer.*
- ☐ *40 or 80 Col. Operation*.*
- ☐ *Auto-Dial.*
- ☐ *User-Defined Function Keys, Screen Colors, Printer and Modem Setting.*
- ☐ *Screen Print.*
- ☐ *Disk Wedge Built-In!*
- ☐ *Formatted Lines.*
- ☐ *Review, Rearrange, Print Files.*
- ☐ *Sends/Receives Programs and Files of ANY SIZE.*
- ☐ *Adjustable transmit/receive tables allow custom requirements. These and other features make The SMART 64 Terminal the best choice for grand touring telecommunications.*

*Commodore 64 registered trademark of Commodore Business Machines Inc.
*Supports 80-column cartridge by Data 20 Corporation.

Dealer Availability
Call (203) 389-8383

MICROTECHNIC© SOLUTIONS
P.O. BOX 2940, New Haven, Ct. 06515

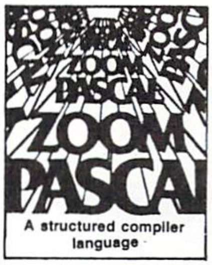
GET THE MOST OUT OF YOUR COMMODORE-64 OR VIC-20 COMPUTER

ULTRABASIC
64

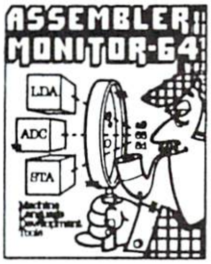
ALSO AVAILABLE:
3 outstanding
Music Albums to
go with Synthy-64
Classical
Christmas and
Rag/Sing Along
See below

Synthy-64
MUSIC AND SOUND SYNTHESIZER

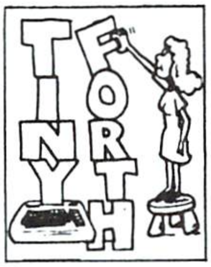
CHARTPAK-64
LINE CHART


ZOOM PASCAL
ZOOM PASCAL
A structured compiler language

SUPER DISK UTILITY 64


ASSEMBLER MONITOR-64
LDA
ADC
STA

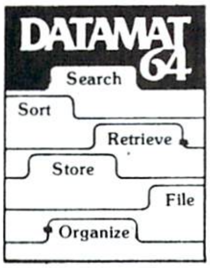
GRAPHICS DESIGNER 64



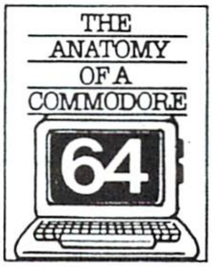
SKI-ER 64
BY JEFF HANSON

POOL
COMMODORE 64 VIC 20

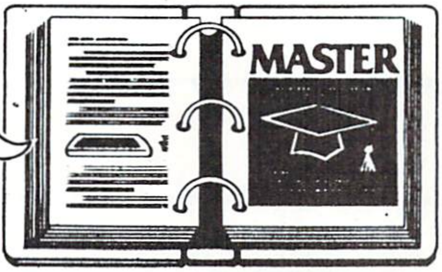
SCREEN GRAPHICS 64


DATAMAT 64
Search
Sort
Retrieve
Store
File
Organize

CHECKBOOK MANAGER 64


THE ANATOMY OF A COMMODORE
64

BRAND NEW!
PROFESSIONAL DEVELOPMENT SOFTWARE FOR QUALITY APPLICATIONS
See below



ULTRABASIC-64... Add 50 commands: graphics, music, TURTLE and game features. Tutorial, demo plus. **TAPE $39.95 DISK $42.95**

ASSEMBLER-MONITOR-64 High speed language development. Eleven function monitor. Screen editing of source file. **DISK $32.95**

DATAMAT-64... Simple powerful data base management with search, sort, report capability at low price. **DISK $32.95**

SYNTHY-64... Sets the standard for all of the rest. Best 64-synthesizer anywhere. Samples and manual. **CASSETTE $29.95 DISK $32.95.** Also available: 3 great companion music albums; **Classical, Christmas,** and **Ragtime Sing-Along. DISK $12.95 Each.**

GRAPHICS DESIGNER-64... Menu-driven drawings, floor plans and illustrations etc.. Slide program capability. **DISK $32.95**

CHECKBOOK MANAGER-64 Simple check account maintainance. Optional screen or printer report and backup. **DISK $22.95**

TINY FORTH-64/20... Exciting language-low price. Powerful, extensible, 200 + word vocabulary. **TAPE $24.95 DISK $27.95**

ANATOMY OF A COMMODORE-64 Complete guide. Full comment ROMS list, detailed internals, descriptions. **300 PAGE BOOK $19.95**

CHARTPAK-64... Professional qualtiy pie, line and bar charts. Menu driven, interactive, hardcopy. **DISK $42.95**

SKIER-64... This arcade-quality game adds hours of action and excitement to your Commodore-64. **TAPE $14.95 DISK $17.95**

ZOOM PASCAL-64... Produces 6502 machine code for speed. Floating point, Integers, strings File handling. **DISK $39.95**

POOL-64/20... Play Fullrack or nine ball using hires graphics. Vic-20 required 8K expander. **TAPE $14.95 DISK $17.95**

SUPER DISK UTILITY-64... Speed copy 4 ways: Total, Bam, Append or File. Dump or modify sectors. More. **DISK $22.95**

SCREEN GRAPHICS-64 Adds 24 hires, multicolor, sprite commands to 64-BASIC. Demo, tutorial and manual. **TAPE $24.95 DISK $27.95**

MASTER-64... Full ISAM file management; powerful screen management; excellent printer generator; programmer's aid; BASIC 4.0 commands; machine language monitor; Software developers: NO RUNTIME ROYALTIES; With 150 page manual in three-ring binder and development software. **SOFTWARE ON DISK $84.95**

✱ DEALER INQUIRIES INVITED

FREE CATALOG Ask for a listing of other Abacus Software for Commodore-64 or Vic-20

DISTRIBUTORS

Great Britain:
ADAMSOFT
18 Norwich Ave.
Rochdale, Lancs.

West Germany:
DATA BECKER
Merowingerstr 30
4000 Dusseldorf
0211/312085

Great Britain
CCI Software
167 Great Portland St.
London WI
01-636-6354

Sweden:
TIAL TRADING
PO 516
34300 Almhult
476-12304

Canada East:
KING MICROWARE LTD.
5950 Cote des Neiges
Montreal, Quebec H3S 1Z6
514/737-9335

Australia:
CW ELECTRONICS
416 Logan Road
Brisbane, Queens.
07-397-0808

Canada West:
L.S.I. Distributors Ltd.
810 W Broadway #163
Vancouver, BC V5Z 4C9
604/733-0211

New Zealand:
VISCOUNT ELECTRONICS
306-308 Church Street
Palmerston North
63-86-696

AVAILABLE AT COMPUTER STORES, OR WRITE:

Abacus Software

P.O. BOX 7211 GRAND RAPIDS, MICH. 49510

For postage & handling, add $1.50 (U.S. and Canada), add $3.00 for foreign. Make payment in U.S. dollars by check, money order or charge card. (Michigan Residents add 4% sales tax).

FOR QUICK SERVICE PHONE 616-241-5510

the SOFTWARE connection

EPROM CARTRIDGE BOARD
WITH CASE $14.95

Allows for 4k, 8k, 12k or
16k configurations
Eproms not included
(add $.75 for socketts)
Call for Quantity Discounts

Available for

VIC 20 ATARI 400/800
COMMODORE 64

VIC 20 Ram Expansion Kit 8k $25.95 16k $39.95
TI 4016 2k x 8 (200NS) $4.00
6560 2A (2 MHE) $14.00

800-828-2838

IN CALIFORNIA CALL 916-989-3174

COMMODORE 64 IBM

FREE CATALOG
Comprehensive Listing of
Business and Entertainment
Software and Accessories

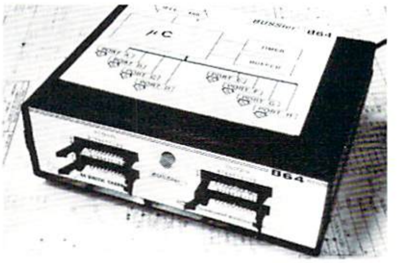
ATARI APPLE VIC 20

5133 VISTA DEL ORO
FAIR OAKS, CA 95628

BUSSter™ COMPUTER INTERFACES IEEE — 488 RS — 232

ANALOG AND DIGITAL INPUT/OUTPUT MODULES

The BUSSter line of analog and digital products was designed to collect data and to output signals to laboratory and industrial equipment in conjunction with a microcomputer system. These powerful self-contained modules reduce a computer's workload by providing read or write operations to external devices. They are controlled as slave interfaces to real-world physical applications. Control is over an IEEE-488 (GPIB) bus or RS-232 port. BUSSter modules are available in several digital and analog configurations. The internal buffer and timer provide flexibility by allowing the BUSSter to collect data while the host computer is busy with other tasks.



BUSSter A64—64 channel digital input module to read 64 digital signals. Built-in buffer **$495.00**

BUSSter B64—64 channel digital output module to send 64 digital signals **$495.00**

BUSSter C64—64 channel digital input/output module to read 32 and write 32 digital signals. Built-in buffer **$495.00**

BUSSter D16—16 channel analog input module to read up to 16 analog signals with 8 bit resolution (¼%) Built-in buffer **$495.00**

BUSSter D32—32 channel version of the D16 **$595.00**

BUSSter E4—4 channel analog output module to send 4 analog signals with 12 bit resolution (.06%) **$495.00**

BUSSter E8—8 channel version of the E4 **$595.00**

BUSSter E16—16 channel version of the E4 **$695.00**

Add the suffix -G for IEEE-488 (GPIB) or -R for RS-232.

All prices are USA only. Prices and specifications subject to change without notice.

30 DAY TRIAL—
Purchase a BUSSter product, use it, and if you are not completely satisfied, return it within 30 days and receive a full refund.

US Dollars Quoted
$10.00 Shipping & Handling
MASTERCARD/VISA

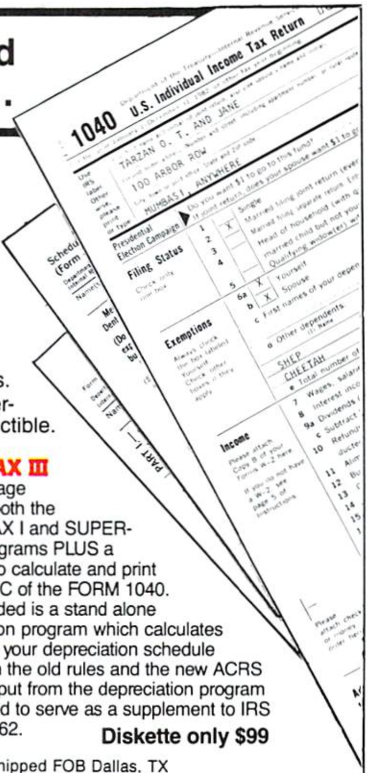
CmC

Connecticut microComputer, Inc.
INSTRUMENT DIVISION
36 Del Mar Drive
Brookfield, Ct. 06804
(203) 775-4595 TWX: 710-456-0052

SUPERTAX™ **Get Supertax now and relax on April 15th . . .**

SECOND SUCCESSFUL YEAR! • THOUSANDS ALREADY IN USE!

Use SUPERTAX personal income tax programs to calculate your tax liability now and have plenty of time to make year-end investment decisions to improve your position. SUPERTAX was specifically created for Commodore 64 users by a practicing CPA with a Master's degree in tax accounting. Highly acclaimed by tax pros, SUPERTAX is easy to understand and a pleasure to work with.



- SUPERTAX PROGRAMS are fully screen-prompted and include a manual loaded with valuable tax information and guidance.
- SUPERTAX instantly recalculates your entire return when you change any item.
- SUPERTAX is available on cassette and diskette.
- SUPERTAX DATA can be stored on cassette and diskette.
- SUPERTAX is available at 50% off to prior purchasers for all subsequent year's programs.
- SUPERTAX is an essential addition to your personal software library—best of all it's tax deductible.

SUPERTAX I

Using either screen or printer output, SUPERTAX I generates clear and concise summaries of Page 1 and 3 and Schedule A of FORM 1040 allowing you to see at a glance and to quickly comprehend your tax situation. This program also prints an OVERALL SUMMARY of the return showing Adjusted Gross Income, Itemized Deductions, Taxable Income, Regular Tax, Income Averaging Tax, Minimum Tax and Payment Due or Refund—all of which are calculated by the program. SUPERTAX I also calculates the moving expense deduction, investment credit, taxable capital gains, political and child care credits, medical limitations, and much more. Input is fast and easy and changes can be made in seconds. This program actually makes tax planning a breeze.

Cassette or Diskette $79

SUPERTAX II

Includes the efficient SUPERTAX I program as well as the more detailed SUPERTAX II program which makes all of the SUPERTAX I calculations, but which also PRINTS THE INCOME TAX RETURN. This program prints page 1, page 2, Schedules A, B, and G (income averaging) of the FORM 1040 as well as FORM 3468 (investment tax credit) on standard government forms or on blank computer paper for use with transparencies. Any input item can be changed in seconds and the entire return is recalculated almost instantly.

Diskette only $89

NOTE: Printing on government forms requires friction feed printer.

SUPERTAX III

This package includes both the SUPERTAX I and SUPERTAX II programs PLUS a program to calculate and print Schedule C of the FORM 1040. Also included is a stand alone depreciation program which calculates and prints your depreciation schedule using both the old rules and the new ACRS rules. Output from the depreciation program is designed to serve as a supplement to IRS FORM 4562.

Diskette only $99

Products shipped FOB Dallas, TX
Commodore 64 is a trademark of Commodore Business Machines

TO ORDER Call Toll Free 1-800-527-4171 In Texas Call 214-739-1100
MasterCard, VISA, Money Orders, Bank Checks and COD Orders Accepted
(add 3% surcharge for credit card processing) (add $5.00 for COD)

For Free Brochure WRITE
Rockware Data Corporation
10525 Barrywood Drive
Dallas, Texas 75230

NEW!

IFR
FLIGHT SIMULATOR
CARTRIDGE FOR THE VIC 20
by Ron Wanttaja
ACADEMY
SOFTWARE

IFR

(FLIGHT SIMULATOR)

CARTRIDGE FOR THE VIC 20

$39.95

COMMODORE 64
DISK OR TAPE

$29.95

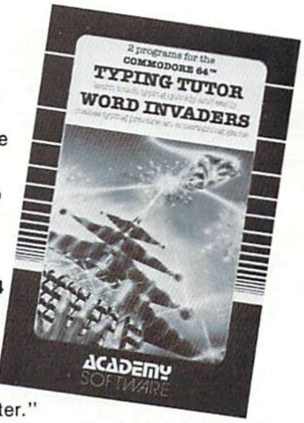
JOYSTICK REQUIRED

Put yourself in the pilot's seat! A very challenging realistic simulation of instrument flying in a light plane. Take off, navigate over difficult terrain, and land at one of the 4 airports. Artificial horizon, ILS, and other working instruments on screen. Full aircraft features. Realistic aircraft performance — stalls/spins, etc. Transport yourself to a real-time adventure in the sky. Flight tested by professional pilots and judged "terrific"!

An IFR (Flight Simulator) customer writes . . .

"Excellent program . . . will be used regularly I am sure for almost everyone I know is a pilot – including myself. I fly 747's to Hong Kong and Stockholm and dozens of cities between each month, as do all my buddies . . . I will strongly recommend it to my peers."

Still the Best!



Rated **THE BEST** educational program for the VIC 20™ by ***Creative Computing*** magazine.

Commodore 64 version: "This is the best typing tutor we have seen yet; it can get your children touch typing in short order and bring an old hand up to speed. Includes excellent training modules and an arcade type mode to liven things up and put some pressure on; ★★★★+" **INFO-64**

Our customers continue to tell us of their success. . . .

". . delighted with my son's progress . . . he is the only one in his second grade class who touch types at the computer."

(58 year old man writes) . . . "great, excellent. To me a source of great learning . . . I just can't express how much I have enjoyed it!"

In daily use by schools across the USA.

"Computer aided instruction at its best" ***Commander*** magazine

TYPING TUTOR + WORD INVADERS

The proven way to learn touch typing.

COMMODORE 64 Tape $21.95
COMMODORE 64 Disk $24.95
VIC 20 (unexpanded) Tape $21.95

MORE NEW PROGRAMS

VIDEO VAN GOGH

by Peter Kazlouski

Use your joystick to create incredibly detailed hi-res multicolor drawings and then save them to disk. View drawings again later or use them in your own programs.

Commodore 64 (disk only) $21.95

THINK TWICE

by James E. Slater

2 educational programs on one tape. MEMORY FUN is a game of concentration in which 1 to 4 players test their memory by matching pairs of pictures, words, designs, or musical tones. Great fun! FLASHCARD lets the user make his own study material easier to learn. 50 States and Capitals sample quiz included.

Commodore 64 (tape only) $16.95

SPRITE DESIGNER

by Dr. Lee T. Hill

Create sprites easily and then transform them automatically for views from different perspectives or for animated effects. Options include: copy any previous sprite, reflection, rotation, translation, shearing, reverse image, merge & intersect. Saves sprite data for merge into your own program.

Commodore 64 (tape) $16.95 (disk) $21.95

Shakespeare Writer

by James W. Sullivan

Old English typestyle print and simple word processor package. With this program and a VIC-1525 printer (or other graphic printer and a VIC-1525 graphic emulating interface) you can automatically print in Old English typeface. Great for party invitations, announcements, advertisements, and other attention getting notices. The heading above was printed on a VIC-1525 printer (original copy reproduced half-size in this ad). Use also as a simple word processor for letters, short reports, etc. in normal, double width or Old English typeface.

Commodore 64 (tape) $16.95 (disk) $21.95

VISA Shipping and handling $1.00 per order. CA residents add 6% tax. MasterCard

ACADEMY
SOFTWARE

P.O. Box 6277, San Rafael, CA 94903 (415) 499-0850

Programmers: Write to our New Program Manager concerning any exceptional VIC 20™ or Commodore 64™ game or other program you have developed.

IN THE QUEUE >

WITH THE SPEED AT WHICH PRODUCTS FOR THE 64 ARE BEING INTRODUCED, WE WOULD BE LIMITING OURSELVES TOO MUCH TO ANNOUNCE PROJECTS FOR THE SPRING ISSUE (MARCH '84) AT THIS TIME. WE CAN SAY THAT INFO-64 WILL CONTINUE TO LOOK FOR AND SHARE WITH OUR READERS THE BRIGHTEST AND THE BEST IN PRODUCTS FOR THE 64.

SOME OF THE PRODUCTS WHICH WE HOPE TO INVESTIGATE BY NEXT ISSUE INCLUDE: THE APPLE EMULATOR FROM PIONEER SOFTWARE, MOSAIC'S ACCESS-64 RAM EXPANSION, THE EXECUTIVE 64 PORTABLE (IF WE CAN EVER GET OUR HANDS ON ONE), THE MIND CONTROL DEVICE FROM BEHAVIORAL ENGINEERING, APPLICATIONS GENERATORS ("THE LAST ONE" OR "CODEWRITER"), AND THE POWERPAD FROM CHALKBOARD.

IF YOU HAVE PRODUCTS IN MIND THAT YOU WOULD LIKE TO SEE REVIEWED (EITHER SPECIFIC OR GENERAL TYPES), DROP US A CARD AND LET US KNOW- WE WANT TO HEAR FROM READERS AND WILL LISTEN, & RESPOND TO YOUR REQUESTS.

INFO-64 (READER MAIL)
PO BOX 958
AUBURN, WA 98071

WE WISH TO THANK ALL OF YOU WHO HAVE SENT VALUABLE SUGGESTIONS AND GREATLY APPRECIATED ENCOURAGEMENT. WE WELCOME ALL CORRESPONCENCE, AND READ EVEY LETTER AND CARD.

WE ARE ALSO INTERESTED IN PUBLISHING A CERTAIN AMOUNT OF READER-SUPPLIED ORIGINAL PROGRAMS (NO MORE THAN 2 PAGES), ARTICLES, ANECDOTES, CARTOONS, GRAPHICS CREATIONS, POETRY, ETC. IF YOU ARE INTERESTED, AND HAVE SOMETHING INTERESTING, SEND US YOUR IDEA TO THE BOX ABOVE. THE PAY ISN'T STAGGERING, BUT YOUR NAME COULD BE IN PRINT!

REGARDS, UNTIL NEXT MONTH-

BENN DUNNINGTON
-EDITOR

☆

ADVERTISERS >

ABACUS SOFTWARE......................67
ACADEMY SOFTWARE.....................69
BLUE SKY SOFTWARE................C2/C3
CARDCO, INC..........................C4
CIRCADIAN SOFTWARE, INC..............66
CONNECTICUT MICROCOMPUTER, INC.......68
EVENT HORIZON SOFTWARE...............65
H&H ENTERPRISES......................70
INFO-64..............................39
MICRO-WARE DISTRIBUTING INC...........4
MICROTECHNIC SOLUTIONS...............66
PROFESSIONAL MICRO SERVICES..........70
ROCKWARE DATA CORPORATION............68
SOPHISTICATED SOFTWARE OF AMERICA....29
THE SOFTWARE CONNECTION..............68

HUGE SELECTION

Software & Accessories
Upgrades & Repairs

COMMODORE 64

Send or Call for
FREE CATALOG

Dept. I

PROFESSIONAL MICRO SERVICES
100 W. 22nd St.
Baltimore, MD 21218
(301) 366-0010

DISK UTILITIES
FOR COMMODORE COMPUTERS

****DISK SUPPORT ($14.95 postage paid)****
This program, written for the VIC-20 and COMMODORE 64, provides a 1K machine language extension which adds twelve new commands to your computer's operating system. Not to be confused with the cumbersome "wedge", DISK SUPPORT offers 12 separate, easy to use, two-keystroke commands which WORK! You can SAVE with *automatic VERIFY*, SAVE-WITH-REPLACE (eliminating Commodore's DOS bug), LOAD, VERIFY, DELETE, and RENAME disk files with just two keystrokes. Also provided are commands which INITIALIZE, FORMAT and VALIDATE a diskette, EXECUTE any program on the diskette, print the ERROR message to the screen, and list the diskette's directory to the screen (formatted for your computer's display) without affecting the contents of the computer's memory; all with only two keystrokes. DISK SUPPORT is compatible with all memory expansion cartridges, the SUPER EXPANDER and PROGRAMMERS' AID cartridges, and Micro Systems Development's VIE-20 and CIE-64 IEEE interface cartridges. DISK SUPPORT is designed to work equally well with both single and dual disk drives and is a MUST for all disk drive users!

*****DISK DUPLICATOR ($14.95 postage paid)*****
DISK DUPLICATOR is a machine language program which provides you (the owner of a 1540, 1541 or 2031 single disk drive) a fast and convenient way to make back-up copies of your precious, irreplaceable diskettes. DISK DUPLICATOR is 100% MACHINE LANGUAGE, 100% FAST, and most importantly, 100% AFFORDABLE! Diskettes are copies verbatim with as few as 4 exchanges (using a COMMODORE 64). Don't let an accident or a mistake catch you without back-up copies of all your diskettes. ORDER "DISK DUPLICATOR" TODAY!

*****DISK RETRIEVER ($9.95 postage paid)*****
If you have ever accidentally "SCRATCHED" a program or a data file from one of your diskettes and wished there were only some way to recover that precious file, DISK RETRIEVER is the program you've been waiting for! DISK RETRIEVER is a 100% machine language program that will "UNSCRATCH" all of your disk files and restore them to their original status. Let DISK RETRIEVER turn back the clock and help you recover your "lost" programs and files!

*****SPECIAL*****
Order all three programs at one time and SAVE $5.00! If you order the three disk utility programs, you need only send a check or money order for $34.95. We will pay postage and handling.

H&H ENTERPRISES
5056 North 41st Street,
Milwaukee, WI 53209

SCRIPT 64

SCRIPT 64™ Makes Your World Letter Perfect

SCRIPT 64 moves you into the exclusive neighborhood of sophisticated word processing for an amazing $99.95.

In addition to all the standard text editing features most higher priced systems offer, SCRIPT 64 also gives you an 80 column format and a built-in spelling dictionary...all in one program for the Commodore 64™.

To make your world letter perfect, ask your dealer for a demonstration of SCRIPT 64 today.

Developed by:

RTC

Richvale
Telecommunications,
LTD.

A Product of:

Blue Sky Software
Ashland Office Center
Evesham & Alpha Avenues
Voorhees, NJ 08043
609-795-4025

Distributed by:

Warehouse 1, Inc.
Eastern U.S. 800-253-5330
Western 800-255-0056

Computer Marketing Services, Inc.
800-222-0585

DES-Data Equipment Supply
213-923-9361

Also available for the IBM-PC.

Script 64, Commodore 64 and IBM-PC are registered trademarks of Richvale Communications LTD., Commodore Electronics Limited, and International Business Machines, Corp. respectively.

Circle No. 157

The ULTIMATE Printer Interface?

We hope so, but because we have 2-1/2 technicians answering four incoming customer service phone lines, we have learned that just when you think the product is perfect some programmer finds a new way to do things and proves you wrong! When we at CARDCO, Inc. are told of a problem, we try to incorporate the cure in all future production. And as our customers will attest, we do not leave owners of older versions out in the cold. When an upgrade is made in the production version of our interface, we make the upgrade available to all owners of that interface, AT NO CHARGE! Free technical support, no charge product upgrades and a lifetime guarantee, we dare anyone to do a better job of customer support.

That's all very nice, but what's all this about the ULTIMATE printer interface? While answering your technical questions our customer service technicians listened to what you wanted. You wanted to be able to print the full Commodore character set with Commodore graphics, reversed characters and reversed graphics. You wanted compatability with Commodore's normal tab functions and high resolution dot space tab functions. You wanted to be able to use the Commodore high resolution dot addressable graphics commands. And you wanted to run all existing programs without modification and without giving up the extra features and special functions of your printer.

Card/?+G - $89.95
Card/?B - $49.95

The CARD/?+G has DIP switch selection for the following fine printers:

- Prowriter
- C-Itoh 8510
- NEC 8023
- Epson MX-80/100
- Epson RX-80/100
- Epson FX-80/100
- Star Gemini 10X
- Okidata 82/83/84
- Okidata 92/94
- Axiom GP/100
- Gorilla Banana

In response to your demand CARDCO, Inc. proudly presents the CARD/?+G (CARDPRINT+G). Why is it the ULTIMATE printer interface? Because it is "state of the art" today and because of our strong committment to customer service it will stay that way for all your tomorrows.

The CARD/?+G is available now from your local retailer. Suggested retail $89.95.

If you own a version of the original CARD/?A, we are sorry the CARD/?+G is a totally new product and you will not be allowed a free upgrade. But if you want the capabilities of the new CARD/?+G we do have a trade up policy, please contact our customer service department for details.

If you don't need the graphics capabilities of the CARD/?+G be sure to check out the new CARD/?B. The "B" model offers all of the same features that have made the CARD/?A the #1 selling printer interface in an economy package. The CARD/?B is compatible with programs not requiring graphics functions (ie. Word Processors, Spread Sheets, etc.) and fully supported by our customer service department and the suggested retail price is only $49.95.

313 Mathewson • Wichita, Kansas 67214 • (316) 267-6525

cardco, inc.

Commodore ™ is a registered trademark of Commodore Business Systems, Inc.