AURORA SOFTWARE ASSOCIATES

SPRING / SUMMER 1981

Aurora Software Associates supplies quality software for Ohio Scientific computers at a reasonable price. We have programs for all OSI computers including serial systems. (Any program listed as "non-graphic" will run on your C2 or C3 serial system.)

If you have a disk system, you may order any program or programs in this catalog. In other words, you can create your own "disk package" with the programs that YOU want instead of the programs that a software vendor wants to sell you!

To order programs on disk, just check the appropriate box on the order blank and include $3.00 for a 5¼" or $4.00 for an 8" disk. All programs ordered will be sent on one disk unless you give us special instructions and include money for each additional disk.

Documentation is provided with all programs and listings are included with most BASIC programs.

S—FORTH — Now you can have FORTH! FORTH is a new language for your OSI. FORTH is over 10 times faster than BASIC and is just as fast as Pascal. The FORTH compiler uses much less memory than Pascal and allows any user with at least 20K to have an excellent FORTH system. (Compare this to Pascal that requires 48K or more memory to operate.)

We have versions for ALL OSI disk system computers, from the C1P to C3 Serial systems. S—FORTH adapts to the amount of memory that you have. S—FORTH is a full implementation of Fig—FORTH including editor, a virtual disk sub-system, and compatibility with OS65D—3. All OS65D commands are still usable. You can exit from FORTH to OS65D and then return to FORTH. S—FORTH comes on either 5¼" or 8" disks for only $34.95 (includes disk). Comes complete with instructions to get you started including explainations of special features of S—FORTH.

An 80 page source listing is available for those of you who would like to know how we interfaced FORTH and the OS65D operating system. The complete listing is yours for $24.95. You can buy both the listing and FORTH together for only $49.95. You won't find a full implementation of FORTH anywhere for less than you can get it from ASA!!

OSI HARDWARE — We can now offer you all OSI HARDWARE AT REDUCED PRICES ! ! ! If you can wait an extra week or two we can save you hundreds of dollars. We will sell ANY OSI computer for 5% less than the best published price that you can find. Just send us a copy of the published price with your check, money order, or charge card number, then allow 2-4 weeks for delivery. (Please allow 2-6 weeks for the new C1P Series II). No COD orders. Charge card orders may only deduct 3% from the published price.

UTILITY PROGRAMS

SCREEN TEXT EDITOR (requires disk system) — This is one of the most useful programs we have seen. Features eleven commands in the command mode for editing, including: I — enter insert mode, ESC — enter command mode, Q — return to BASIC, RUB OUT — destructive backspace, B — non-destructive backspace, D — deletes character at cursor position, SPACE BAR — moves cursor ahead one space, L — moves cursor to start of next line, T — moves cursor to top of screen, P — brings the next page of text to the screen, U — moves cursor up one line, S — moves cursor to start of text. This is a quality program that will save you alot of time by allowing you to correct mistakes or make additions directly rather than re-typing lines over again. In addition to editing programs, you can also edit and print out text files that you have created or down loaded with our Intelligent Terminal program.

SE—200 C4P, C8P . . . .$19.95 (includes disk)

NAME — This program allows you to assign a name to one or more disk tracks without zeroing out the tracks. This is most useful when you PUT a program out to a track number to see how much room it will take and then later decide to give it a name in the directory, which would not be directly possibly without this program. The program also allows you to RENAME a file, perform a standard CREATE, and DELETE a name from the directory.

NA—200 for systems with OS—65D V3.2 . . . .$6.95

INTELLIGENT TERMINAL — This program allows you to communicate with a host computer and send and receive files in a number of ways. All commands are combinations of pressing the CTRL key and another key at the same time.

SUMMARY OF COMMANDS: * D — Changes the duplex. * E — Returns to BASIC. * 1 & 2 — You can send two command streams of up to 256 bytes each. These commands can be used to log you on, set your terminal characteristics, run programs, log you off, etc... * 3 — Clears memory mapped video. * 4 — SAVE IN MEMORY. Incoming information is saved in the indirect file. *5 — SAVE ON DISK. Incoming information will be stored in the disk buffer and then written to disk when full. * 6 — SEND MEMORY. This command sends the indirect file to the remote computer. * 7 — SEND DISK FILE. This command can send files by file name or track number. * 8 — DOWN LOAD A PROGRAM INTO WORKSPACE. Use this command to down load OSI BASIC programs. * 9 — Clears the screen and prints the menu of commands. Come complete with instructions, memory map, and important pokes.

INTELL C4P, C8P . . . .$24.95 (includes disk)

CURSOR PLUS + — This program gives you full cursor control plus serveral other options. Gives you a true 'PRINT AT' capability for your programs. Write programs that look professional as you update the screen without scrolling. Since you do not have to use scrolling, the screen fills almost instantly. CURSOR PLUS + is an assembly language program. CURSOR PLUS + comes with a demo program that shows you how to use the program with your BASIC programs.

     CPLUS, C4PMF . . . .$19.95 (includes disk)

KEYBOARD CONTROLLED GAMES

ADVENTURE (32K or 48K non-graphic) — For the first time, you can now have ADVENTURE on your OSI without requiring a CP/M operating system! ! ! Explore the COLLOSSAL CAVE with its 100 rooms. This is an OSI version of the original ADVENTURE. ADVENTURE is for all OSI systems with at least 32K and a 5¼" or 8" disk drive.

     AD—32K . . . .$19.95 (includes disk)
     AD—48K runs faster than the 32K version . . . .$19.95 (includes disk)

DOG STAR ADVENTURE (32K non-graphic) — The evil General Doom and his Roche soldiers are ready to launch an attack against the Forces of Freedom, led by Princess Leya. Enroute to a secret command center on the planet Harris 7, Princess Leya's ship was attacked by Doom. She is now being held prisoner on one of his battle cruisers. Your mission is to rescue the Princess. This is an OSI version of a popular TRS—80 adventure that will run on all OSI computers with at least 32K and a 5¼" or 8" disk drive.

     DA—32K . . . .$15.95 (includes disk)

THE WIZARD'S CITY (8K - graphics) — You can be a fighter, dwarf, halfing, elf, or magic-user as you search for gold in the dungeons below the Wizard's city or in the forest that surrounds the city. You start out as a weak level one player \[...\] points from killing monsters and finding treasures. There is seemingly no end to the dungeon levels that take you deeper and deeper under the city. Each level brings more difficult monsters and greater treasurers. The forest, city, and dungeon levels are all graphically displayed (see picture in this catalog). Your character and all monsters are also displayed along with the battles that you will have. As an added feature, you have the chance to buy more armor when you return to the city, however, you have to dicker with the only armor dealer in town for a price that suits both of you. You will spend hours each time you play THE WIZARD'S CITY because no matter how many times you have played it before, THE WIZARD'S CITY is different every time. If you are successful with one character, you may restart the game where you left off if reality steals you away from THE WIZARD'S CITY.

     DN—100 C1P, Superboard
     DN—200 other OSI $12.95

LUNAR LANDER — in real time! (4K - graphics) — This program combines OSI's fine graphics with a favorite game for one player. Watch your spacecraft approach the moon at over 3000 MPH. You must use your retro-rockets to slow down. Once you have landed safely, you can try to get back to Earth — if you have enough fuel!

     LL—100 C1P, Superboard
     LL—200 other OSI $4.95
     LL—200s same as LL—200 with color & sound $5.95

WILD WEASEL II (8K - graphics) — Wild Weasel II is real time simulation of a Surface to Air Missile system during combat with up to nine 'wild weasel' aircraft. Radar operators control the guidance of HE armed missiles and must destroy the attacking aircraft before they can penetrate friendly airspace long enough to insure a SRAM kill. Particular attention to detail has been applied to the displayed graphics in order to authenticate the missile system. As a SAM operator, you will have both an azimuth and elevation scope, effecting a three-dimensional display that simulates "B" type scans. Ground clutter returns are prevalent and the aircraft will use them to evade the tracking SAM system.

     WW—100 C1P, Superboard
     WW—200 other OSI $8.95

FAILSAFE +2 (8K - graphics) — FAILSAFE +2 is a highly complex simulation of the electronic warfare environment encountered by combat crew members during nuclear war. You will journey as the EW officer of a heavy bomber penetrating enemy air defenses. After border penetration, your bomber is engaged by Anti-Aircraft Artillery batteries, Surface to Air Missile systems, and Aircraft Interceptors. Since each threat represents unique characteristics, you must rapidly determine the type and nature of the threat and counter it to insure survivability and delivery of the nuclear ordinance.

     FS—100 C1P, Superboard
     FS—200 other OSI. $8.95

RPV CONTROL (8K - graphics) — RPV Control is a simulation based on the control of Remotely Piloted Vehicles. You must fly the RPVs into a target area, heavily defended by Anti-Aircraft Artillery batteries and Surface to Air Missile systems. If manned aircraft were used, theoretical losses would be totally unacceptable.

     RV—100 C1P, Superboard
     RV—200 other OSI $8.95

WITCH HUNT (8K - graphics) — An enemy submarine is believed to have willfully violated your territorial waters. Although its purpose is not known, it must be assumed to be an act of aggression. WITCH HUNT is the naval code word for the operations to force the sub to surface and surrender in evidence of the border violation. You conduct search patterns with two types of sonar displays. You also have use of a mine net and depth charges to stop the sub.

    WH—100 C1P, Superboard
    WH—200 other OSI $6.95

TITANIC QUEST (8K - graphics) — Titanic Quest is a real time search for the Titanic. Your vessel and crew have been out for three months and have exhausted your supplies. The search patterns have isolated the probable location to a narrow area just off the continental shelf. You must gamble your remaining reserve supplies in hopes of locating the ship.

    TQ—100 C1P, Superboard
    TQ—200 other OSI $6.95

TREK (8K or 12K - graphics) — You command the Enterprise through the galaxy on an emergency mission to destroy an approaching Klingon attack force. Includes the standard 64 quadrants in the galaxy with 64 sectors in each quadrant. You can use your short range scans, long lange scans, shields, and phasers to seek out and destroy the enemy. You may refuel and have your ship repaired at any of the Starbases that are in the galaxy — if you find them in time. A must for every computer!
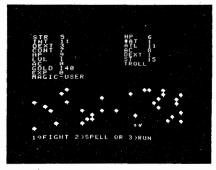
    TK—8K for all commanders with at least 8K. $6.95
    TK—12K also includes photon torpedoes, an on-board computer, and galatic
      record for those with at least 12K. $8.95

STELLAR DEFENDER (4K - graphics, sound) — You are in command of a fleet of five Steller Rangers which must defend a new base on the moon Titan until you can be reinforced. Small reinforcements do arrive during the battle after you fend off each squadron. The aliens will come in waves of five ships. If one of them gets by your defending fleet, you must face five more ships of the same type before facing the next type of ship. There are four waves of ships, each different, in a squadron. After you defeat a squadron you gain one reinforcement ship but must face a new squadron. Good luck.
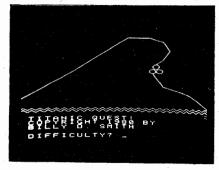
    SD—200 C2-4P, C28P, C4P, C8P $6.95

BLACKJACK (8K - graphics) — Blackjack will give the feel of Vegas without the risk or the payoff. Blackjack is an actual simulation of the game as played in Nevada Casinos. All current rules on insurance, double down, and splitting pairs are used. You can select to play with 1 to 4 decks.

    CPI—100 C1P, Superboard
    CPI—200 other OSI $6.95

HANGMAN & 15 SQUARES (4K - graphics) — This package includes two favorite children's games with excellent graphics! Hangman can be played against the computer or another person. 15 Squares is a game that asks you to put the letters A-N in order by moving one letter at a time. Each move is counted and total moves are displayed when the puzzel has been solved.
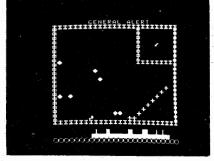
    HS—100 C1P, Superboard. $5.95

ETCH—A—SKETCH (8K - graphics) — Allows you to draw pictures, edit them and save them.
    ES—200 C2-4P, C2-8P, C4P, C8P $5.95

DOG FIGHT (8K - graphics) — You and your opponent fight each other in the sky. You control your speed, altitude and direction while avoiding the other player's shots and obstacles on the ground.
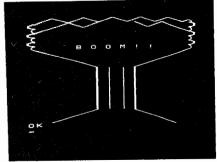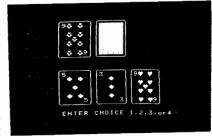
    DF—100 C1P, Superboard
    DF—200 other OSI $5.95

THE WIZARD'S CITY　　　　**TITANIC QUEST**　　　　**WITCH HUNT**

FAILSAFE +2   **BLACKJACK**   **ETCH–A–SKETCH**

APPLICATION PROGRAMS

TOUCH TYPING (8K - graphics) — Touch typing is essential for fast data entry on any computer that is accessed through a typewriter-type keyboard. This is an exellent program that will teach you to "touch type" with the aid of graphics and exercises. Some exercises are graded while other are ungraded. These exercises provide immediate and positive feedback on your performance.

    A 15 lesson set for tape or disk.
    TT–100 C1P, Superboard
    TT–200 other OSI $19.95

HAM/CB PACKAGE (8K - graphics) — This package contains three useful programs for the Ham or CBer:

STRESS ANALYSIS FOR BEAM ANTENNA SYSTEMS — This program will give you a stress analysis for your complete beam antenna system including the mast.

DESIGN 10 WIRE ANTENNAS — This program will give you the correct dimensions and pertinent information for ten different wire-type antennas.

DESIGN A YAGI ANTENNA — This program will give you the correct element length and spacing dimensions for a Yagi (beam) antenna at the frequency you have prescribed. The Yagi design may have zero to six directors, again as you have prescribed. All three programs only $15.95.

    HAM–100 C1P, Superboard
    HAM–200 other OSI

PERSONAL BUDGETING (8K - graphics) — This program graphically shows you how your monthly income was spent and gives you a percentage breakdown that shows where the money went. Now your OSI can help you answer the life long question of "Where has all the money gone to this month?". Also included is a routine that helps you plan for a future retirement income, that is if inflation comes down enough so that planning isn't a joke.

    PB–200 C2-4P, C2-8P, C4P, C8P $9.95

STOCK CHARTING (4K - graphics) — Included in the many methods of analyzing a stock is a method called stock charting. This program records and graphically displays daily high/low/close and volume figures for up to 23 days (or 23 weeks if you prefer to work with weekly averages.) The C1P will only display up to 10 days or weeks due to its more limited screen size. This program will help you to spot resistance or support points and determine accumulation or distribution for your stock. The disk version of this program allows you to easily keep data on as many stocks as you want by storing stock information on disk files.

    SC–100 C1P, Superboard
    SC–200 other OSI. $9.95

FUNCTION PLOTTER (8K - graphics) — This program allows you to plot functions on your OSI with a plotting resolution of 56 x 128 points. The program will magnify any portion of the graph, allow you to enter a new domain, will find all zeros of the function in the specified domain, redraw the graph, display in table form all values used in the calculations for graphing (the X and Y coordinates), and more.

    FP–200 C2-4P, C2-8P, C4P, C8P $12.95

ACCOUNTING HELPER PACKAGE I (4K) — This package contains two programs to help you solve financial problems written by an OSI hobbiest with a Master's degree in Accounting.

    Loan Amortization — This program will give you a complete breakdown of any loan or investment. All you have to enter is the principal amount, interest rate, and term of the loan or investment. The amount to principal and interest of each payment will be shown along with the remaining balance.

    Depreciation — You can choose one of five methods: straight line, sum of years digits, declining balance, units of production, or machine hours. Your OSI will display a list of your asset's useful life, annual depreciation, accumulated depreciation and remaining book value. As an added feature, you can specify any IRS approved rate for declining balance, ie. 2, 1.5, 1.25. The program also automatically switches from declining balance to straight line when the straight line rate exceeds the declining rate to maximize your tax benefits.
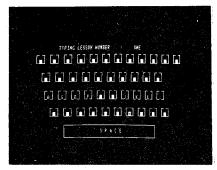
    AHPI–100 C1P, Superboard (graphics)
    AHPI–200 other OSI (non-graphic) $6.95

INVENTORY PACKAGE (8K non-graphic) — This inventory package contains three useful programs to aid in inventory control.

Economic Order Quantity: Price Break Approach — This program calculates the optimal order quantity when you are given one or more quantity price breaks.
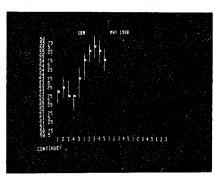
Reorder Point and Safety (Buffer) Stock — Knowing when to reorder and how much safety stock should be kept on hand can give you a competitive advantage. If orders are placed at the wrong time, total costs are increased either by having too many units on hand or by having a stock out. This program analyzes past inventory records to determine the probability of a stock out at various reorder points. Total costs (stock out costs plus carrying costs) are minimized to find the reorder point, safety stock level, and the probability of a future stock out.

Simultaneous Sales and Production for Two or More Items — Some manufacturing firms have special machinery that can produce two or more products. Changing from one product to another involves set up, change over, or re-tooling costs. This program determines the number of each product to be produced in each production run in order to minimize costs and still meet sales or usage demands for the output.
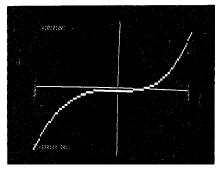   IN—OSI for ALL OSI. $14.95

SIMPLEX LINEAR PROGRAMMING (4K non-graphic) — Linear programming is one of the best known tools of management science. Perhaps the most general statement of its objective is that it is used to determine an optimal allocation of an organization's limited resources among competing demands. There are many managerial problems that can be considered allocation problems. These range from product-mix and blending problems to bus scheduling and dietary planning. This program can solve up to 30 equations with 50 variables or larger if you have more memory.
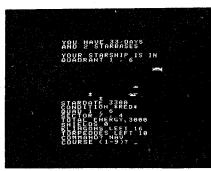   LP—OSI for ALL OSI computers $9.95

DEFINITE INTEGRAL (4K - graphics) — Find the definite integral of a function.
    DI—200 C2-4P, C2-8P, C4P, C8P. $4.95

TOUCH TYPING
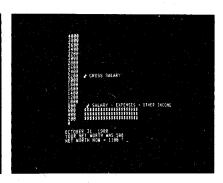

STOCK CHARTING

FUNCTION PLOTTER

WILD WEASEL II

TREK

PERSONAL BUDGETING

JOYSTICK GAME PROGRAMS

DUELING TANKS (4K - graphics) — Drive your tank anywhere on the battlefield, avoiding obstacles and being hit while trying to hit your opponent's tank. Eleven levels of difficulty. Requires joysticks to stay on top of all the action.

    DT—100 C1P, Superboard with JS—100
    DT—200 other OSI using JS—100 or JS—200 . . . .$4.95
    DT—200s same as DT—200 with color & sound. $5.95

JOYSTICK PACKAGE I (4K - graphics) — This package uses joysticks and graphics to provide you with hours of challenging fun.

Bomber — Release bombs from your jet fighter to destroy the other player's ship while avoiding anti-aircraft fire.
Jet Attack — Use your missiles to proctect your city from the other player's attacking jet.

    JPI—100 C1P, Superboard
    JPI—200 other OSI $6.95
    JPI—200s same as JPI—200 with color & sound. $7.95

JOYSTICK PACKAGE II (4K - graphics) — This joystick package can be used with our joysticks or can be used with the keyboard. Each program will ask you if you are playing with joysticks or not. Depending on your response, the program will configure itself for the proper input. The package is made up of two fast moving and challenging games.

Entrapment — The object of Entrapment is to trap your opponent so that escape is impossible. You can play against the computer or another player. Entrapment is similar to the Domino-type games seen in video arcades.
Battlestar — You command the only remaining Battlestar that now protects the planet Earth. You must destroy the invading Cylons now that they know where 'the last outpost of human civilization' exists.

    JPII—100 C1P, Superboard
    JPII—200 other OSI. $6.95
    JPII—200s JPII—200 with Entrapment in color & sound $7.95

METEORITES (8K - graphics, color & sound) — Move your ship in any direction as you are being bombarded from all directions by meteorites. You try to destroy the meteorites before they destroy you. For use with our joysticks or OSI joysticks.

    ME—200s C4P, C8P $6.95

EXTRAS

JOYSTICKS FOR OSI — Eight directional joysticks with fire button. Plug directly into most OSI home computers, and are easily attached to those without board cornectors. Also for use with C4 and C8 models — use plugs in back of computer. Compatable with other software vendors' joystick programs. Our joysticks are much easier to program than OSI joysticks. The joysticks are independent of each other, ie. one joystick will not interfere with the operation of the other. Documentation is provided to show how to use the joysticks after they are connected. A sample program is also included. Each assembled joystick has been tested.

JS—100 2 joysticks for C1P, Superboard
C2-4, C2-8P $26.95

JS—200 2 joysticks for C4P and C8P. $26.95

JS—KIT joystick kit includes: two eight axis joysticks, 10 diodes, necessary wires, connectors and instructions only $21.95
                  (please specify computer)

REFERENCE MANUAL FOR OSI BASIC—IN—ROM — This 68 page book was written by Edward H. Carlson. The strong points of this book are completeness, good organization, accurancy, and careful explanation of items that all BASIC users need (which OSI omits or describes too briefly or incorrectly). Many programs are listed including programs to make autoload machine language tapes, locate all branch statements (GOTO, GOSUB), a program compacter, and a trace program. Also includes instructions for making your programs run faster and use less memory.

    DS—RM. $9.95