

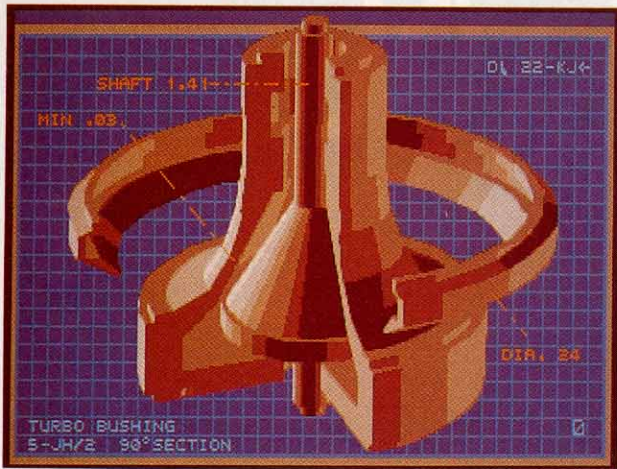




# THE CYBER STUDIO™ (2-program set)



The first affordable integrated 3D video production workstation.



## Tom Hudson's STEREO CAD-3D 2.0™

Supports (optional) STEREO TEK 3D Glasses

Hidden within your Atari ST is a professional 3D workstation. A 3D design system that is intuitive—yet powerful enough for professional artists, advertising agencies, or design firms.

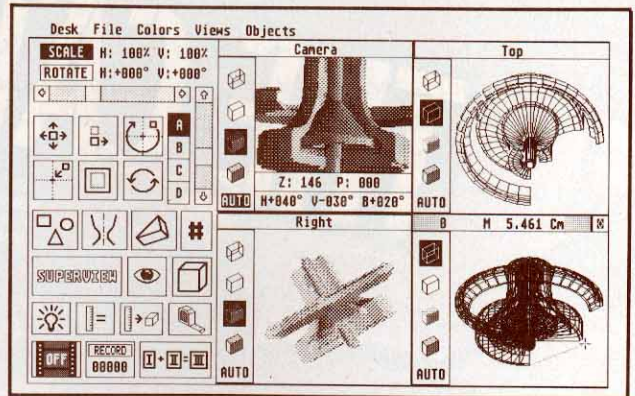
We've taken every suggestion from graphics professionals who loved version 1.0, but wanted more designing power and speed. And then we made version 2.0 an open-architecture system, so that any programmer can easily write custom applications for CAD-3D 2.0 that run as desk accessories: motion control choreography, advanced rendering/ray tracing, finite element analysis, texture mapping, custom modeling tools. . . There's no limit. CAD-3D 2.0 will never become obsolete.

Let your creativity soar with all these new features:

- Icon control panel—fast, intuitive interface
- All new, DEGAS-style color design system permits custom-color lines, edges and backgrounds, multi-colored objects
- Real-time display mode for instant response (uses 3D math developed by Jez San for Starglider™)
- Supports (optional) STEREO TEK 3D glasses for 3D viewing
- Dimensioning (feet/inches or meters/centimeters)
- Graphic lighting control—drag lights anywhere
- GDOS output supports laser and dot matrix printers
- Load/Save 2D object templates (from other CADD systems)
- Customized rendering system plus Z-buffer accuracy
- User-selectable pivot points for articulated rotations
- Enhanced Spin, Extrude, and Join tools
- Load DEGAS pics into CAD-3D background

"Antic's CAD-3D is one of the best programs I've seen for the Atari or anything else."

—Jerry Pournelle  
Byte Magazine



## Mark Kimball's CYBERMATE™

Supports (optional) STEREO TEK 3D Glasses

The CAD-3D Animation/Editing language

You need powerful tools to produce a professional 3D digital animation. Important things like editing, special effects, and sound are critical elements in a high-quality presentation. CYBERMATE is a full-featured animation language that gives you control over:

- Sequence looping, cuts, fades, wipes & dissolves
- Color shifting
- Sound effects (created with the G.I.S.T.™ editor, on pg. 11)
- Acceleration & deceleration
- Title generation and text display

CYBERMATE features editing power comparable to a Hollywood post-production studio, plus full programmability. At your fingertips is the most efficient real-time playback system for 3D graphics ever on a microcomputer. And it's fast!

How does it work? At the heart of CYBERMATE lies our exclusive delta compression format, which transforms your one-meg ST into a TEN-MEGABYTE frame buffer. Up to a thousand frames of animation can be held in RAM at once. And because it's a real programming language, CYBERMATE can adapt to new technologies, like the new digital video tape recorders from Japan, RGB-to-NTSC converters, MIDI, and SMPTE time code.

### THE CYBER STUDIO

STEREO CAD-3D 2.0 plus CYBERMATE  
2-disk set (requires one-megabyte RAM)

Upgrade from CAD-3D 1.0 for only \$60 (plus original disk and \$5 shipping)

Starglider™ Firebird Software  
DEGAS™ Batteries Included

ST0236 \$89.95

"A remarkably powerful modeling system."  
—Computer Graphics World

The Original...

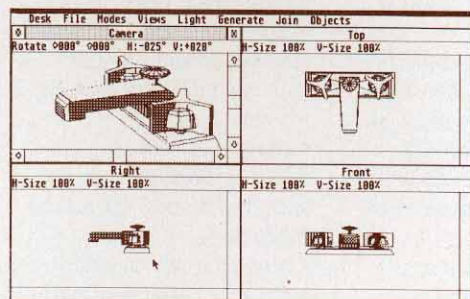
## Tom Hudson's CAD-3D™ 1.0

520ST-compatible

If you own a 520ST and are interested in computer graphics, many of the features of CAD-3D 2.0 are included in this original version—you even get a basic animation system.

(requires 512K RAM)

ST0214 \$49.95







Now you can write the next hit 3D program!

### 3D DEVELOPERS DISK

For CAD-3D 2.0  
by Tom Hudson

**NEW!**

While Tom was rewriting CAD-3D, he quickly realized that it was impossible to add *everything* and still release a product in this century. Plus, who wanted CAD software that required a 4 megabyte machine? So he opened up the system—by providing a programmers 'pipeline' through desk accessories.

#### Opportunity Knocks!

The 3D DEVELOPERS DISK clearly explains to programmers and developers how to access the pipeline. Included on the disk are full-featured example source and object code examples, plus detailed instructions by Tom Hudson showing you how to hook into CAD-3D 2.0. Create your own 3D applications—with no knowledge of 3D math. There's no licensing fee required.

(Requires CAD-3D 2.0)  
(works with most popular ST C's plus machine language)  
**3D DEVELOPERS DISK**  
**ST0244 \$29.95**  
**AVAILABLE JUNE**

### CYBERSCAPE®

A 3-D "feature film" on disk by Darrel Anderson. Skim the fantastic, 3-dimensional terrain of the mind! Metamorphosing metallatons and transforming tubular time slots! This full-color, animated feature was created by **professional artist** Darrel Anderson, to show what can be done with CYBERMATE—The CAD-3D Animator. An incredible **tour de force** of computer graphic power, this demo is a guaranteed auto-lobotomy of the very first order!

**CYBERSCAPE DS**  
(1 double-sided disk)  
**SB0104 \$10.00**

**CYBERSCAPE SS**  
(2 single-sided disks)  
**SB0105 \$12.00**  
(Both versions require 1 megabyte RAM)

### 3D-FONT PACKAGE

by Tom Hudson

Design your own 3D greeting cards, signs, logos, and letterheads with CAD-3D. Or create sophisticated 3D animated title sequences for your home videos.

At the heart of this **packed** disk is Tom Hudson's new **SUPER EXTRUDER TOOL**. With it, you can create new kinds of complex, **multicolored 3D objects** that can't be built with CAD-3D alone. Plus, it

doubles as a 3D FONT EDITOR, and Tom has built **two incredible fonts** just for you (serif and sans-serif, upper and lower case—over 250K of fonts!).



(requires CAD-3D)  
**3D-FONT PACKAGE**  
**ST0224 \$24.95**

### PLOTTER AND PRINTER DRIVERS

Plot your 3D drawings on a high-resolution pen plotter for a truly professional look! Supports Hewlett-Packard (and HP compatible) plotters. Multi-plots on a single page—best fit system.

(requires CAD-3D)  
**PLOTTER DRIVERS**  
**ST0225 \$24.95**

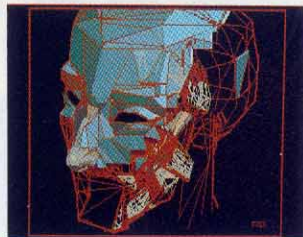
Also, dot matrix printers supported: GEMINI/STAR, EPSON, OKIDATA, IBM, COLOR (Radio Shack, Epson, Canon), NEC, PANASONIC, C-ITOH, and more.

## THE CAD-3D DESIGN DISK LIBRARY

Darrel Anderson and Richard Berry  
YOUR FOUNDATION FOR THE BEST IN CAD-3D ART

### HUMAN DESIGN DISK™ **NEW!**

Populate the CAD-3D Universe. Bring life to your CAD-3D creations with the CAD-3D HUMAN DESIGN DISK. Complete modular male and female prototypes, in skeletal and surface anatomy forms, are included. A variety of complex heads and hands add detail and realism to your figures. Modify your figures to create the infinite variety of the human form, pose your figures, detail the images with any popular paint program, or



bring them to life with the CYBERMATE Animation System. Includes:

- Blueprints
- Tips on the dynamics of human anatomy.

### ARCHITECTURAL DESIGN DISK™ **NEW!**

Create CAD-3D renderings of your Dream House or build an entire CAD-City from the ground up. Component parts including: Doors, Windows, Arches, Roofs, Walls, Stairways, and a wide variety of architectural accoutrements. Create your own CAD structures and populate them with HUMAN DESIGN figures. Build "sets" for your CYBERMATE animated movies.



visualize and render real world architecture. It is not intended for use as an architectural engineering tool. Includes:

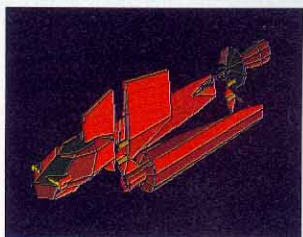
- Blueprints
- Complete Models
- Design Tips

NOTE: The ARCHITECTURAL DESIGN DISK can be used to

### FUTURE DESIGN DISK™

Get a fast start on your three-dimensional explorations with the CAD-3D FUTURE DESIGN DISK. Everything you need to create SPACECRAFT, STATIONS, BASES, VEHICLES, ROBOTS, and ANDROIDS. Model your future then populate it with androids and CAD-People. Bring it to life with CYBERMATE; detail it with any popular paint program.

- Includes:
- Blueprints
  - Complete models
  - Component parts



- Construction tips

\*HUMAN DESIGN DISK  
**ST0242 \$29.95**  
\*ARCHITECTURAL DESIGN DISK  
**ST0243 \$29.95**  
FUTURE DESIGN DISK  
**ST0232 \$24.95**  
(All Design disks require CAD-3D)  
\*AVAILABLE JUNE

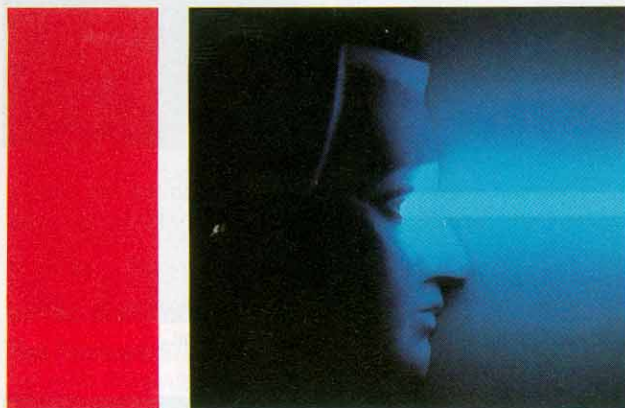
**24 hours-a-day** **800-443-0100, ext. 133**  
(Continental U.S. and Hawaii) Visa/MC Only  
**ORDER TOLL FREE**



True stereoscopic 3D graphics for your Atari ST.

## STEREOTEK™ 3D GLASSES

by LC Technologies



© Michel Terevorkoff/TIB West

Put on the STEREOTEK glasses and jump into a new universe. Discover a magical world that you always knew existed. That *extra* dimension—DEPTH. Now you can add depth to your computer graphics with the STEREOTEK Liquid Crystal glasses. Solid, realistic, 3D images you want to reach out and touch. STEREOTEK glasses plug into your ATARI ST cartridge port to provide absolutely realistic 3D graphics in full color or hi-res monochrome.

NOW! AVAILABLE FOR USE WITH STEREOTEK GLASSES

### LCS WANDERER™

by Pyramide Software  
Deep space has never been so real!

LCS WANDERER is the first ST game designed for full-depth stereo. Written in France, but set in outer space, this stunning arcade adventure transports you through galactic Space sectors, Black holes, and Limbo. Startlingly realistic, stereo point-of-view animation puts you in the cockpit as you swoop and dive through star fields while dodging enemy craft.

This is no ordinary space shoot-em-up. The bizarre, complex plot involves the ruthless kidnapping of every cat on earth. As you wander through space, collecting purloined pussycats, you run across the Heads of State of the Planetary sectors with

whom you must play interstellar poker. LCS WANDERER is a complex, multimodular program—really several games in one. Journey from the dogfights in the Space sectors to the interstellar poker strategies, from the Battlezone-style of the Planetary sectors to the stereo tunnel of the Black holes, and Limbo... well, there's always Limbo.

The liquid-crystal clarity of the StereoTek glasses transforms LCS WANDERER into a multi-colored micro universe within your monitor. Includes a completely redesigned solid-surface cockpit, full 16-color displays, and reduced eye-fatigue compared to the original red/blue version.

(Requires color monitor and StereoTek glasses)  
**LCS WANDERER**  
**ST0238 \$39.95**

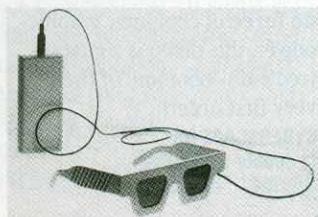
Battlezone™ Atari Corp.

Your STEREOTEK depth-view system includes:

- One pair electronic Liquid Crystal Shutter glasses with four-foot cable (can be comfortably worn over eyeglasses).
- ST cartridge interface unit—supports two sets of glasses (second set optional).
- DEGAS Elite Stereo Desk Accessory.
- Stereo CAD-3D animation and stereo slide show by Tom Hudson.
- For programmers: Complete developer's instructions plus sourcecode for adding stereo to your own programs. (C or GFA BASIC)

The secret to full-color stereo images on a computer screen is electronic Liquid Crystal Shutter (LCS) glasses. Two optical shutters in eyeglass frames are connected electronically to the ST. Every time the ST screen refreshes (60hz/color, 70hz/mono), one shutter closes and the other opens. The monitor displays alternating right and left eye views synchronized with the shutters. The alternating views appear faster than the eye can see, and your brain translates the normally flat monitor image into one of startlingly realistic depth.

**STEREOTEK 3D SYSTEM**  
**TH9020 \$149.95**  
**ADD-ON GLASSES ONLY**  
**TH9021 \$99.95**  
**STEREOTEK 3D SYSTEM**  
Manufacturer's Sugg. List: \$189.95  
Catalog Price: You pay only \$149.95

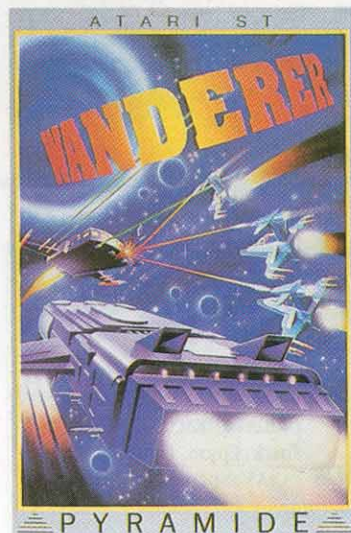


LC Technologies is a venture of Tektronix, Inc.

## \$5,000 CONTEST

Antic and LC Technologies are co-sponsoring a competition to search for the MOST INNOVATIVE STEREO APPLICATION PROGRAM. We're going to pay \$5,000 in cash (advance against royalties) for the winner, plus a continuing royalty upon publication here in The Catalog.

For an official entry blank and competition details, write to: STEREO COMPETITION; The Catalog, 544 Second St., San Francisco, CA 94107, or call (415) 957-0886.







NOW! A PROFESSIONAL FLIGHT PLANNER FOR THE ST!

**THE NAVIGATOR™**

by Scott D. Stephenson

- Works with MAPS AND LEGENDS

*NEW!*

Sometimes, you really need to know *exactly* where you're going. Have you ever wondered, while boarding your plane, how the pilot will find his way to your destination? The answer is navigation. The pilot follows a detailed flight plan created by his navigator.

Now, accurate computerized navigational planning is available on the Atari ST. THE NAVIGATOR is a professional, automated flight planner created specifically for the ST by professional navi-

gator Scott D. Stephenson. Private pilots, military pilots, navigators (ocean-going as well as air), and commercial operators can use this amazing program to create accurate, detailed flight plans.

Amateurs, arm-chair flyers, teachers and students of navigational theory can discover how the professional navigator plans his flight, compensates for wind direction, establishes waypoints, and calculates times and distances. And we've included a special MAPS AND LEGENDS overlay function which creates custom map overlays, graphically displaying your flight paths.

- PRIVATE PILOTS: You'll love THE NAVIGATOR'S printed flight plan and extensive ICAO waypoint database.
- ARMCHAIR PILOTS: Generate your own flight plans for sub-Logic's FLIGHT SIMULATOR II.
- TEACHERS: Show your students the rudiments of navigation. Use THE NAVIGATOR plus MAPS AND LEGENDS to measure the earth!
- SAILERS: Plan for currents or winds—taking fuel flows and times into consideration.
- THE NAVIGATOR comes complete with these databases: European ICAO, Asian ICAO, and US ICAO.

**TWO PROGRAMS IN ONE!**

Included with THE NAVIGATOR is THE NAVIGATION TOOLKIT a bonus program of computer navigation tools which performs sophisticated data management operations on your waypoint databases. Create new data files or modify existing files using its advanced random-search technique.

**THE NAVIGATOR**  
ST0245 \$49.95

THE WORLD ON A DISK.  
MAPS FOR EVERYBODY!

**MAPS AND LEGENDS™**

The Cartographer

Enhanced Version  
Supports (optional)  
StereoTek Glasses  
by Harry Koons and  
David Chenette

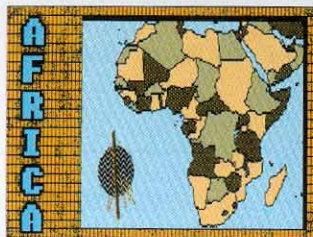


Hold on a second. Now that you've word-processed, spreadsheeted, databased and telecommunicated with your Atari ST, aren't you looking for **something different?**

How about Cartography? Until now, mapmaking has been a unique art mastered by only a few talented people. Not anymore. With MAPS AND LEGENDS, your Atari ST becomes a personal desktop cartography system.

Show your children exactly

what the world looks like— with or without political boundaries. And in STEREO, the world globes appear



to be floating **in front** of your monitor. Or print an impressive custom map to go with your travel itinerary. We use MAPS AND LEGENDS all the time at the office for sales and marketing maps. And since it's based on the GEM interface, it's GEM-easy to use!

**MAPS AND LEGENDS 3.0**  
ST0202 \$34.95  
(upgrade is \$15)



**LET'S-GET-TECHNICAL BOX**  
Packed with features, including: STEREO COMPATIBILITY, BUILT-IN 9000-COORDINATE DATABASE, 11 DIFFERENT MAP PERSPECTIVES, PLOTTING FROM ANY ALTITUDE, WORKS IN ALL 3 SCREEN MODES, BUILT-IN PAINT SYSTEM (and compatible with DEGAS and NEO), MULTI-FONT LABELLER, CUSTOM OVERLAY PLOTTER (create your own maps—build your own map databases), AUTO-LOCATE MODE (reads coordinates, distance and bearing from maps) and so many more that we don't have room to list them all.

**DATAMAP COLLECTION I**

Expand Your Maps and Legends Database!

**NATIONAL POLITICAL BOUNDARIES**

Europe, Latin America, S. America, Asia, Africa

**PROVINCIAL BOUNDARIES**

Australia, Canada, China, U.S.S.R.

(requires Maps and Legends 2.0 or greater)

**DATAMAPS**  
ST0227 \$24.95

**PLUS HISTORICAL MAPS AND MORE!**



24 hours-a-day **800-443-0100, ext. 133**  
(Continental U.S. and Hawaii) Visa/MC Only  
**ORDER TOLL FREE**



# BASE TWO™

The GEM Database by the Authors of DBMASTER ONE

THE NEXT STEP IN DATABASES, BY THE AUTHORS OF DB MASTER ONE™!

## BASE-TWO™

Dan Matejka and Stanley Crane

It's no fun re-learning your database commands every time you boot it up. And those simplistic "filecard" databases just don't have the power to do the job. Or, maybe you've just created your custom database, entered 5,000 records, and now you want to print a report. . . Good luck. You need a degree in programming just to get some decently formatted hardcopy!

Dan Matejka and Stanley Crane have eight combined years of experience writing databases on computers ranging from the IBM PC to the Apple Macintosh. And their databases range in complexity from the extremely powerful and complex IBM PC DB MASTER to the familiar, introductory DB MASTER ONE on the Atari ST. They've watched the ST database market grow—and they've spotted a gap: Until now, ST databases have been either too simple, or too complex. Until now, ST owners were limited to easy-to-use, inflexible "mailing lists," or involved, programmable "throw-backs" to the

CP/M or MS-DOS world. Until now, there was no intuitive, yet powerful database featuring an adaptable report generator. *Until now.*

BASE-TWO fills the gap. Entirely GEM-operated, DB MASTER-ONE owners will find it familiar, yet far more powerful. Look over some of the features and see if it solves your problem:

- Variable field types:
  - Implicit (default)
  - Alpha
  - Numeric
  - Date (calculable)
  - Formula
- Formula fields automatically calculate results from several fields in same record
- Adjustable numeric decimal placement
- Re-edit database at any time without losing data
- User-definable .DIF file creation for software compatibility (with A-CHART, for example)
- DB MASTER-ONE conversion program
- On-line Help screens
- Optional mouse or keyboard control
- 64 character label length
- 100 fields per record
- Multi-level Search and Sort
- Totally RAM-based for instant action
- Format disks from within program

The intuitive BASE-TWO

**Report generator** includes:

- Multi-line field word-wrap; screen and printer
- Completely adjustable label or column-format report

- Place "comment" text anywhere
- Customize with printer control codes
- "Soft" field borders for auto-field truncation

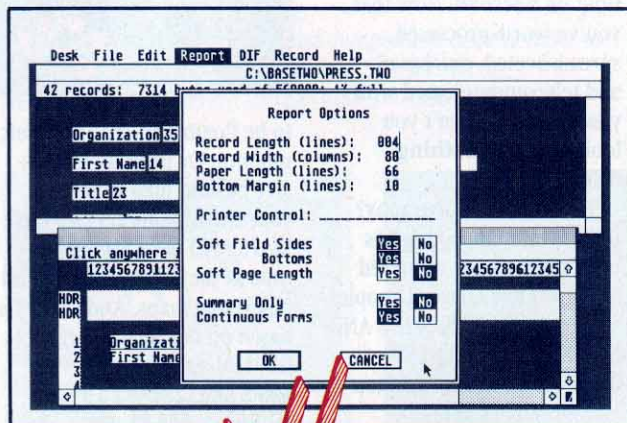
### INSTANTANEOUS SORTING!

size	# records	sort time
512K	5,000	5.1 sec
1 Meg	10,000	9.7 sec
2 Meg	20,000	19.2 sec
4 Meg	50,000	46.1 sec

Using a sample eight-field mailing list.

- Optional, automatic date, time, and page numbering
- Print reports to screen, printer, or ASCII disk file for word-processor editing
- Optional subtotal printout
- Adjust number of records per page
- Double-line report headers
- Single-sheet or continuous feed option
- Store 10 custom reports for each file
- Up to 100 unique fields per report

**BASE-TWO**  
**ST0246 \$59.95**



**NEW!**

**800-443-0100,**  
**ext. 133**

(Continental U.S. and Hawaii)  
Visa/MC Only

**ORDER TOLL FREE**

**24 hours-a-day**



PHASAR IS THE STANDARD BY WHICH OTHER FINANCIAL PACKAGES WILL BE MEASURED

IBM AND AMIGA USERS SAY:

"The first home accounting package I have found in five years that is actually usable."  
—Mark Baldwin, Littleton, CO

"I am enjoying your tutorial almost as much as I admire the power and versatility of the software itself."  
—Joe Joyce, Huntington, VT

# PHASAR

Professional Home Accounting System and Register  
by Marksman Technology

WHAT PHASAR IS: A friendly, GEM-based, single-entry accounting system that will make your life easier. PHASAR is fast, sophisticated and contains the best interface programming design we've seen in any ST applications program.

## GENERAL FEATURES

- 130 expense/income categories
- 40 accounts (VISA, checking, etc.)
- Up to 500 transactions per month
- Custom check printing
- A.I. parser predicts input, minimizes typing
- Instant help messages with right mouse button
- Relational design integrates financial data

## TRANSACTIONS

- Automatic transfers between accounts
- Split-category transactions
- Create transaction macros for repetitive entries
- Point-and-type spreadsheet-style relational summary update

## FINANCIAL ANALYSIS

- Easy budget setup and maintenance
- Analyze loan/savings plans
- Display multiple loans simultaneously for easy comparison

## DATE/ADDRESS ORGANIZER

- Store up to 250 names, addresses and phone numbers
- Integrated scheduler stores special occasions
- Display calendar with highlighted special occasions
- Optional auto-alert reminds you of important events

## RECONCILIATION

- Display outstanding transactions for any account
- Confirm transactions with single keystroke

## REPORTS

- Clearly formatted printed reports include:
  - Account Summaries
  - Category Summaries
  - Net Worth Statement
  - Tax Calculations
  - And more...
- Display or print total income/expenses, monthly or year-to-date
- Sort categories in any order
- Built in data graphing
- Compatible with A-CHART

## TAX

- Design your own tax forms—never out of date
- Calculate tax liability in less than one minute
- Project tax liability at any time

PHASAR  
ST0237 \$89.95

THE CATALOG ST 7





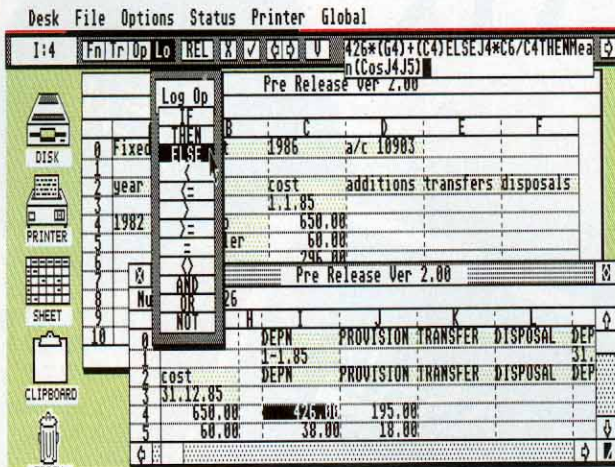
BYTE TESTS SHOW A-CALC ALMOST TWICE AS FAST AS MICROSOFT MULTIPLAN ON THE MAC PLUS!

**A-CALC PRIME™ by Kuma**

Kuma Computers, Ltd. UK

That's right! In the February 1987 review of the Atari 1040ST, BYTE magazine selected A-CALC 1.0 to test the Atari against the Amiga and the Macintosh Plus. On recalculation of a 25×25 cell spreadsheet, A-CALC was the clear winner at 4.7 seconds, compared to 7.5 on the Mac Plus, and 6.5 on the Amiga (using Late Unicalc).

And now, you can have all the speed of the original GEM-based spreadsheet plus the powerhouse features of the next generation: A-CALC PRIME—it blows away the competition.



Features that made the original A-CALC 1.0 the easiest-to-use spreadsheet ever:

- Up to five windows open at once
- WIDE-VIEW option to see 50 percent more of your worksheet at once
- SEARCH for character strings
- Powerful PRINTER FORMATTING commands

*"This is the easiest to use spreadsheet that I've ever seen."*

—W. Krieger

Computer Shopper Magazine

- .DIF file compatibility
- Exclusive A-CHART compatibility
- Sparse-matrix design maximizes available RAM

And now, PRIME adds dozens of special features:

- Row and column lock.
- Conditional expressions (IF, THEN, ELSE, etc.)
- MACROS
- Labels
- 8192 rows×256 columns
- Color/pattern coding of formula, text, value, etc.
- SORT and FIND
- Trig functions
- Sideways printing (for Epson compatibles)
- High-speed SMOOTH screen updating
- Complete printer control from **within** the spreadsheet
- Password-protected cells (hide and unhide)
- Additional ease-of-use features:
  - Off-screen scrolling with the mouse
  - Out-of-the-way convenient edit window
  - Cell and range reference by **pointing with the mouse** (even reference cells in inactive windows!)
  - Ten clipboards
- Illustrated manual and on-disk examples



In short, PRIME gives you premium spreadsheet power for the rock-bottom price of \$59.95. And, for A-CALC 1.0 owners, the upgrade is only \$20.00 (plus \$5.00 shipping. Enclose your original ver. 1 disk).

**A-CALC PRIME**  
**ST0235 \$59.95**

Make your next presentation the one they remember.

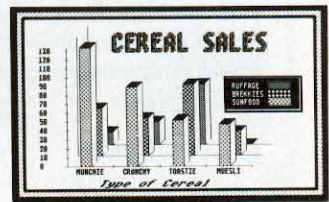
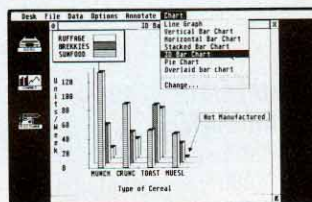
**A-CHART™ by Kuma**

Kuma Computers, Ltd. UK

When was the last time you were excited about your spreadsheet? A-CHART makes working with figures fun and intuitive.

A-CHART automatically turns your A-CALC (or A-CALC PRIME) spreadsheets into beautiful graphs that are DEGAS-compatible. And, if you don't have a spreadsheet, A-CHART's built-in editor will help you organize those numbers into a super-sharp presentation.

View your data in **eight different chart styles**—change styles instantly with one mouse click. **Drag and size multiple**

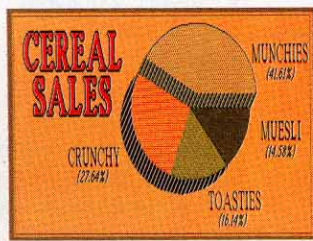
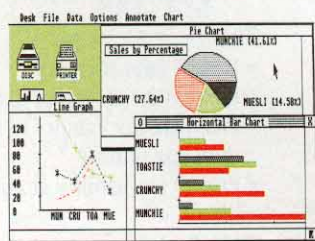


**A-CHART**

**DEGAS ENHANCED**

charts in each window, **define your own fill patterns and line styles.** The flexibility of the graphic presentation of your numbers will give you an **entirely new perspective on your business or home budget.** And A-CHART grows as you do, with the capability of storing up to 50,000 data points in a 512K machine and 150,000 datapoint in a 1 meg machine. **Full statistics menu** for detailed analysis includes Mean, Median, Variance, Standard Deviation, Skewness, T-test, F-test, and much more.

**A-CHART**  
**ST0230 \$39.95**  
Epson-compatible from A-CHART.  
Multi-printer compatible from DEGAS.  
File compatible with BASE-TWO, PHASAR, and A-CALC PRIME



**A-CHART**

**DEGAS ENHANCED**



**F**LASH is my #1 choice on the Atari ST."

—Ron Luks, Founder of CompuServe's SIG\* Atari and Atari Developers Forum.

THE MOST POPULAR  
TERMINAL PROGRAM FOR  
THE ATARI ST.

## FLASH™

Version 1.1  
by Joe Chiazzese and  
Alan Page

If you own a modem, you should be using FLASH. Why? Because FLASH is the best. It will simplify your online time and make telecommunicating more enjoyable and less expensive.

### TOTALLY PROGRAMMABLE PLUS BUILT-IN WORD PROCESSING

Imagine turning on your ST and, with **one click** from the GEM Desktop, beginning an online session on your favorite BBS. Watch FLASH

dial the number, log on, and **automatically** browse through the most recent messages or files. Then, edit some email in the **built-in message editor**, and upload it right from the capture buffer. Instantly! It's your personal telecom droid. So programmable that you have **total control**, and so GEM-intuitive that you feel right at home the first day you use it. No wonder FLASH is the most popular Atari terminal program of all time.

### TERMINAL EMULATION PLUS BULLETPROOF FILE TRANSFERS

Of course, FLASH has a barrel full of terminal-emulation features, such as DEC VT100/VT52 and CompuServe Vidtext graphics, so you can use it with **every** mini or mainframe editor. And talk about

bulletproof file transfers! It's got the most **reliable** Xmodem around—never lose a file during transmission again!

### PACKED WITH FEATURES!

Here are just a few of the most useful features. Shop around and see if any other terminal program can even come close!

- Built-in GEM word processor with cut & paste
- Programmable "script" language (70 commands)
- Mainframe terminal emulation
- Xmodem (CRC), ASCII and DC2/DC4 file transfers
- Totally configurable to **your** needs!
- \$15 online time and CIS membership

Ask your local telecom guru's opinion. FLASH is the winner... **hands down!**

**FLASH**  
**ST0220** \$39.95

**FLASH COMMAND CARDS** **FLASH-CARDS** **TH9025** \$7.95



**FREE!** Try FLASH now and get \$15.00 of CompuServe access time, **FREE**.

Order now and you'll receive a CompuServe Intro-Pak; your free introductory subscription to the CompuServe Information Service with a 46-page CompuServe mini-manual. Plus \$15.00 worth of CompuServe access time, free.

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POWER OF  
YOUR **FLASH!**  
TRANSFORM  
IT INTO A BBS!  
ADD KERMIT!

SOUP UP YOUR  
MODEM... IN  
SOFTWARE!

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**F**LASH is to the Atari ST what Lotus 1-2-3 is to the IBM PC."

—Ken Wolburn **Microtimes Magazine**

### REMOTE CONTROL ACCESSORY & KERMIT PROTOCOL™

by Joe Chiazzese and  
Alan Page

**One mouse-click transforms FLASH into a password-protected BBS.** You can send and receive files while you're in another room or even away from home!

Plus, you can now use the

powerful KERMIT protocol with FLASH. With **KERMIT**, you can transfer up to 128 different files without touching your keyboard! More powerful than the version shipped with the Atari Developer's Kit—total automation for less than \$25!

Works with any Hayes-compatible modem.

(Remote/Kermit requires FLASH™)  
**ST0226** \$24.95

### QUICKTRAN™

The Modem Accelerator Adrian Jovanovich Your 1200-baud modem can now transfer files at over 2000 baud. . . 2400 baud now flies at 4000 baud. . . The telephone company can't stop you. It's totally legal!

**The Buddy System** QUICKTRAN comes to you as two identical disks. Each contains a desk accessory that works by itself (as a VT52 emulator), or with FLASH. The QUICKTRAN accessory auto-

matically shrinks a file when you're sending it—in real time, smaller than ARC.TTP. And on the receiving end, the file is expanded back into its original size as it's coming in over the phone lines. Why spend hundreds of dollars on a faster modem when you can transfer files in almost half the time with QUICKTRAN? Get together with a friend and start a modem conspiracy!

**QUICKTRAN**  
**ST0247** \$34.95  
(2-disk set)



**ARTIFICIAL INTELLIGENCE**  
Teach your ST, then let it teach you!

### EXPERT OPINION™

by Mind Soft

Curious about expert systems and artificial intelligence? Discouraged because most expert systems tools are either for the IBM PC or Macintosh? And usually cost over \$700?

Transform your ST into an expert on any subject. EXPERT OPINION creates production-rule knowledge bases with more power than the average university system. And you don't need to know a programming language like Prolog or LISP—EXPERT OPINION is totally GEM-based... so you already know how it works.

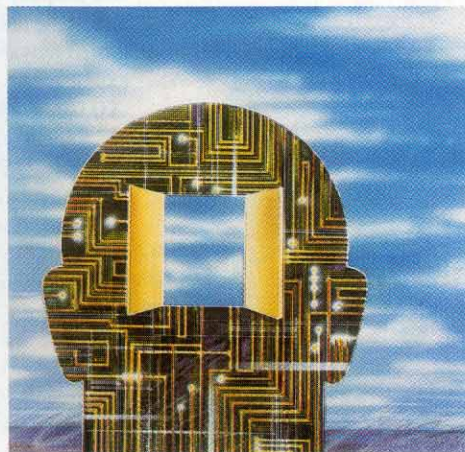
Create your own expert

systems for classification of Horticulture, Animal Husbandry, Gemology, Medical diagnosis, Economics—any subject you want. Be a part of the first wave of knowledge engineers!

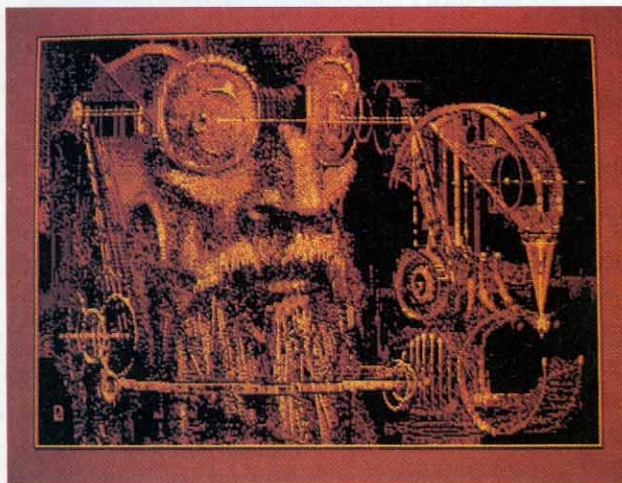
EXPERT OPINION's "Inference Engine" solves problems three ways: **DEDUCTION** (forward chaining); **VERIFICATION OF A HYPOTHESIS** (backward chaining); or a unique combination of both modes. **CERTAINTY LEVELS** allow you to fine-tune your knowledge base with heuristic control. Plus, the clear, well-written documentation includes a tutorial by Harvard expert and START contributing editor Christopher Chabris.

**FREE BONUS!** To get you started, we've included a disk packed with knowledge bases about a typical application... Gemology. The six linked knowledge bases will guide you through the classification of over eighty kinds of rocks and minerals.

Perfect for studying how an expert system is built.  
**EXPERT OPINION (2-disk set)**  
**ST0219 \$99.95**  
**WARNING:** This is a sophisticated computer science tool requiring study to use it effectively.



## BATTERIES INCLUDED



ANYTHING THIS MUCH FUN IS USUALLY ILLEGAL.

### D.E.G.A.S. ELITE™

by Tom Hudson

The best-selling graphics software on the Atari ST just got **ten times better!** D.E.G.A.S. ELITE has all the power of the original, **plus:**

- 1) Multi-color fill patterns
- 2) Special effects like scaling, perspective distort, rotating, outlining, and color animation
- 3) Multiple screens in RAM at once (up to 8)—cut and paste between them
- 4) Color search and replace

**DEGAS ELITE**  
**TH9036 \$79.95**



### INTEGRATED FINANCIAL SOFTWARE FROM BATTERIES INCLUDED

#### THE ISGUR PORTFOLIO™

**THE ISGUR PORTFOLIO** is three programs in one: Portfolio manager, telecommunications, and calendar/memo pad. Receive Dow Jones stock quotes, CompuServe, The Source, and InfoGlobe financial information, automatically. Consolidate multiple stock portfolios. Hands on management of stocks, bonds, options, commodities, mutual funds—your key to financial success.

A real value for your investment. Plus, **THE ISGUR PORTFOLIO** includes **I•S TALK**. Invest in your future... today.

**TH9009 \$199.95**

### A SPELLING CHECKER THAT IS LIGHTNING FAST! THUNDER™

**THUNDER** gives you a powerful spelling checker accessible from within your favorite application program. Your

accuracy will skyrocket, so the time spent proofing will plummet.

It's so simple. Here's how it works. Example: you're happily writing away and you make a "mistake" and BEEP (**THUNDER** picks up the error with lightning-fast speed). Now **THUNDER** will display a list of similarly spelled words (stake, mistake, etc.).

**TH9011 \$39.95**

### TAKE A SECOND FOR TIME MANAGEMENT TIMELINK™

**TIMELINK** is a great GEM-based scheduling and time-keeping tool for home and business. Your day, week, month and year appointments are only a mouse-click away. Useful for messages, reminders and much more. There are many incredible uses for this handy elegant, time-saving tool.

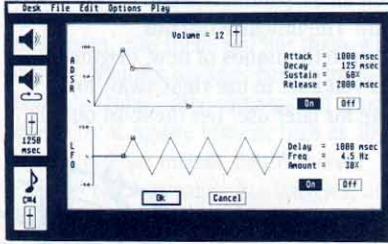
**TH9010 \$49.95**



CREATE NEAR-SYNTHESIZER-QUALITY SOUND EFFECTS WITH OUR **SOUND LABORATORY**.

**G.I. Sound Tool**  
**G.I.S.T.™**

by Lee Actor & Gary Levenberg for Synthetic Software  
If **sound** has always fascinated you... or if you're a programmer or developer... take a look at G.I.S.T., the sound editor. G.I.S.T. was created to establish a standard of sound generation on the Atari ST that far surpasses the abilities of the built-in sound chip.



G.I.S.T.'s power is dynamic control of the GI chip. Each voice has three ADSR (envelope) controls and three LFO's (low frequency oscillators). You'll be creating sounds like a profes-

G.I.S.T. is really two programs:  
1) GEM-based editor  
2) Sound Driver

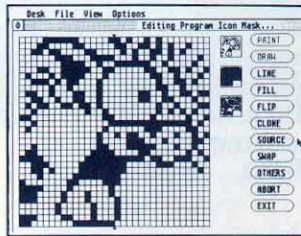
As you can see from the screen display, the G.I.S.T. editor gives you real-time mouse control over any sound shape. The key to

**START ICON EDITOR HITS**

**P.I.E.™** *NEW!*  
**Professional Icon Editor**  
Alex Leavens

It began as a hot little desk accessory in START, The ST Quarterly—you know, "Customize Your Desktop Icons!" or so the copy read. And it was a lot of fun. You could redesign your Trash can to look like a paper shredder. But the programmer, Alex Leavens, just couldn't leave it

alone. He kept *adding* things. . . Now, the Desktop Icon Editor has graduated. P.I.E. is the *Professional* Icon Editor—for programmers as well as desktop artists. Alex has added



sional engineer—Near Synthesizer Quality (NSQ) sound.

For programmers, the Sound Driver is linkable object code that can be used in your own software. Adding superior sound effects to **any** program... It's interrupt-driven, so it won't impact the speed of your software. In fact, it's already built into CYBERMATE for CAD-3D—just one of many useful applications.

**LET'S-GET-TECHNICAL BOX**

- Volume ADSR to shape attack, decay, sustain, release
- Volume LFO for Tremolo effects and AM (Amplitude Modulation)
- Frequency ADSR—frequency shifts up to  $\pm 3$  octaves!
- Frequency LFO for Vibrato effects and FM (Frequency Modulation)
- LFO delay lets you add effects at any point in the sound
- MIDI-compatible! Use your keyboard to play the GI chip
- Three sound windows may be open at once

G.I.S.T. is also compatible with CYBERMATE. **Add sound effects to your CAD-3D animations!**

Source-compatible with Alcyon C, Megamax C, and Lattice C.  
**G.I.S.T.**

**ST0233 \$34.95**



**CRYSTAL™**  
(It makes GEM shine...)  
by Jim Thompson

These are the DOS Icons Digital Research forgot when they wrote GEM. It's too bad Atari didn't put **CRYSTAL** into the TOS ROM's, because for about 30K of code, **CRYSTAL** gives TOS the most powerful features of MS-DOS. Plus, you never lose the look and feel of GEM. And since **CRYSTAL** is a desk accessory, it's always available.

In fact, these eight icons will eliminate all the frustration

you feel from not having powerful DOS functions available from within your favorite GEM program (or the desktop)...

Of course, **CRYSTAL** is compatible with all monitors, all disk drives, and all printers.

Make your personal version of GEM shine—for \$24.95.

**CRYSTAL**  
**ST0229 \$24.95**

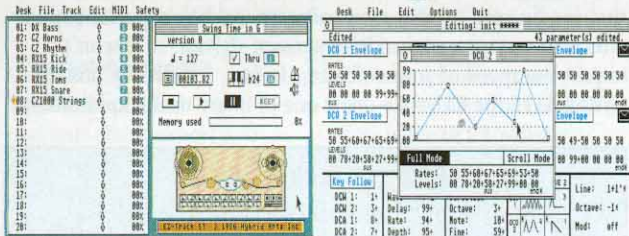
"**T**he best utility buy of the year. without a doubt."  
—Current Notes

**ADD A WORLD OF DOS ICONS TO ALL OF YOUR GEM PROGRAMS.**

- RENAME** files singly or batch
- CREATE** and **DELETE** folders
- MOVE** files in and out of subdirectories or to other disks
- TEXT FILE FORMAT** and **PRINT** using headers, footers, and page numbers
- COPY** files
- FORMAT** disks
- DISK LABELS** printed automatically
- DELETE** files

**24 hours-a-day 800-443-0100, ext. 133**  
(Continental U.S. and Hawaii) Visa/MC Only  
**ORDER TOLL FREE**





The 20-track polyphonic MIDI recorder for the Atari ST.

### EZ-Track™

This is the finest, moderately-priced MIDI software we've seen—and by an experienced firm with a strong music background. Easy to use, but no toy! With EZ-Track, you can make multitrack recordings in real time or step time, save them to disk, then play them back in perfect sync. Professional features include: Real-time solo and muting of tracks, quantizing (auto-correcting) of timing, instant transposition of entire song and much more. Memory capacity is over 27,000 notes on the 520ST and over 63,000 on the 1040ST—very flexible MIDI control.

TH9029 \$65.00

The patch librarian, editor and sound generator for the CASIO CZ synthesizer series and Atari ST.

### CZ-Android™

Completely professional MIDI software designed specifically for your CASIO CZ synthesizer. CZ-Android actually **helps you program** your CASIO CZ synthesizer. Then save thousands of your lush new patches with the 20,000-patches-per-disk librarian. Plus, you can edit all CZ parameters either **graphically** or numerically. The unique **Android programmer** lets you listen to thousands of new, original sounds and select the ones you like: to use right away, for graphical editing, or to save for later use. Get the most out of your instrument!

TH9031 \$99.95

### MIDI CABLES

High-quality MIDI spec. cables in 5 foot length.

TH9032 \$3.95 each



MISSILE COMMAND™ MEETS SDI—WITH A TWIST.

### RED ALERT™

by Stanley Crane and Daniel Matejka

What if you could view a game of SUPER MISSILE COMMAND from space? You'd be playing RED ALERT! Your cities are under attack. Russian ICBM's and MIRV's are coming in—both over the pole and from subs. **You** make the decisions about where to locate your Antiballistic Missile Silos, Ground-based Lasers, and when to use your space-based Particle Beam Weapon. The **twist** is that you may also place your cities anywhere you want... from your hometown to Havana. Or use the European scenario and defend London, Paris and Rome from the Red Menace! **The perfect blend of strategy and arcade excitement.**

RED ALERT  
ST0223 \$24.95

MISSILE COMMAND™ Atari Corp.

WHY TRUST GYPSIES?

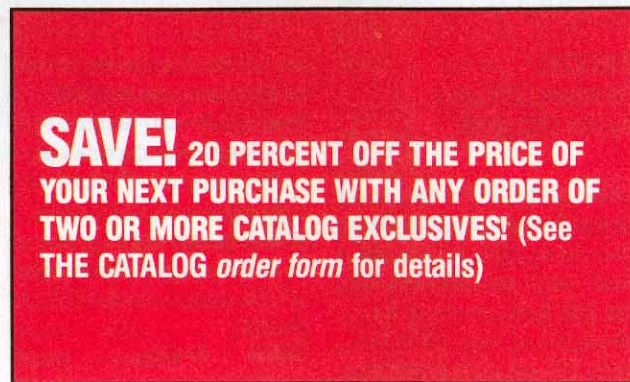
### STAR STRUCK™ —The Astrologer

by Harry Koons

Sure, you can cross that palm with silver, but can you **trust** the results? Your ST, on the other hand, won't leave you in the gutter with empty pockets. And it's accurate! This GEM-based celestial workhorse **instantly** creates charts using formulas for the 9 most popular historical house systems (Placidus,

Morinus, Porphyry, and 6 more). And if you don't know the coordinates of your birthplace, just **point and click** on the US or world maps! Of course, you can save charts in DEGAS format and create your own **astro-masterpieces**. STAR STRUCK works in color or monochrome and comes with loads of extra fonts. Now you've got something to talk about at the local singles bar.

STAR STRUCK  
ST0222 \$24.95





## AT LAST! subLOGIC's Flight Simulator for the ST FLIGHT SIMULATOR II™

Buzz the World Trade Center—fly under the Golden Gate  
**This is it.** The Atari ST version of the phenomenally successful FLIGHT SIMULATOR II. And it's really something.

Fly a Cessna prop plane, soar in a Lear jet, or dogfight with other planes in a World War I scenario. **Completely mouse controlled!** Multiple windows for multiple viewpoints: cockpit, spotter plane, tower, zoom-map—set up as many as you like, drag them, size them and put them where you want. Special custom-graphics routines permit multi-tasking windows. Explore accurate, solid, three-dimensional geographical scenarios which sweep by at update rates as high as 10 frames-per-second. Supplied scenarios include San Francisco, New York to Boston, Chicago to Champaign, Los Angeles, and Seattle.

### RIVALS PROFESSIONAL TRAINING UNITS!

Two experienced pilots on our staff took FLIGHT SIMULATOR II up for a spin and pronounced it a complete success—detailed, accurate, in many ways far better than professional flight simulators. You can preset your position and altitude and adjust your seasonal and weather conditions—including wind direction and



multiple cloud layers. Nine directional views are available from the cockpit **plus** a zoom and a pan. "Instant Replay" feature lets you redo your most successful moments—which you can then watch from any vantage point!

Spectacular two-player mode lets you **fly with a friend over modem.** If you know someone with an Amiga version, you can take your rivalry to the skies!

**FLIGHT SIMULATOR II**  
TH9027 \$49.95

## MICRO PROSE



### SILENT SERVICE™

Exciting World War II Submarine Action in the South Pacific!

by MicroProse

**0400 hours, Tuesday,**

**August 12, 1942... BATTLE**

**STATIONS!! BATTLE STATIONS!! Enemy convoy identified on radar!!**

**SILENT SERVICE**, The Submarine Simulation, brings exciting action, great strategy, detailed graphics and an ultra-

realistic simulation of World War II U.S. submarine action in the South Pacific.

**SILENT SERVICE's** outstanding features include: all the critical battle stations, engine room, conning tower and ship's bridge; challenging and realistic combat versus single ships and heavily escorted convoys; and an infinite variety of situations using complete maps and charts for the entire Southwest Pacific and a sophisticated and realistic attack plotting system.

**SILENT SERVICE** provides a wide selection of historic scenarios. From hit-and-run

attacks to patrol missions that bring challenge and fun to both the first time player and the experienced submarine veteran.

As captain, you select a quiet patrol sector in the Marianas Islands, or choose the dangerous waters off the coast of Japan. Is the submerged daylight periscope attack best, or do you charge in on the surface at night using only radar bearings as your guide? These and many more decisions will determine your place among the elite ranks of the **SILENT SERVICE.**

**TH9016 \$39.95**

### GET ORGANIZED AND HAVE FUN WITH MICHTRON

Eliminate the desk battlefield and make organizing easy!

### CORNERMAN™

What Sidekick did for the IBM, **CORNERMAN** does better for your Atari ST. This utility gives you a host of useful desk-top tools in one simple, neat package. With everything from a built-in clock, notepad, phone book and ASCII table, to a full-function calculator, a cluttered desk is a thing of the

past. And as a desktop accessory, **CORNERMAN** is available nearly anywhere within GEM.

**CORNERMAN** doesn't interfere with other programs and comes complete with security. **HIRE THE PERFECT SECRETARY TODAY—HIRE CORNERMAN.**

**(One megabyte RAM recommended.)**  
**TH9013 \$49.95**



## MichTron



### PINBALL FACTORY™

Design your own pinball machines! Full-featured editor includes graphics line, circle, ray, box, textured fill, and more. Use your mouse to drag bumpers, borders and bells into position. Adjust the gravity, elasticity and speed. Save your creations to disk and build a whole arcade of pinball wonders!

**TH9026 \$39.95**

Now you're organized—so take a break and have some fun.

### TIME BANDIT™

The arcade adventure takes you to the world of the biggest, fastest, most detailed game ever designed for a home computer. Features: 16 unique arcade lands, 3,000 screens, realistic detail, three text adventures, unique dual-player mode. Uses 16 color monitor.

**TH9014 \$39.95**



## TURN YOUR ST INTO TWO COMPUTERS!

### K-SWITCH™

by Kuma Computers, Ltd.

Picture this: You're in the middle of hyperwarp to an endangered sector of the Star Raiders™ galaxy when you hear the approaching footsteps of your boss. No problem. You press three keys and your ST **instantly** switches to 1ST WORD™ where you continue working on a letter to the Accounting Director. The boss's steps recede in the corridor... press three keys and—WHAMO! Right back in the middle of hyperwarp.

If you have a megabyte of RAM in your ST you can now **load two programs at the same time**. K-SWITCH splits your ST into two isolated 400K blocks, with a shared RAMdisk. You can

Construct GEM resources without spending \$300 for the Atari Developers Kit.

### K-RESOURCE™

by Kuma

Do you program in any of these languages? ■ C,

- Pascal, ■ Modula 2,
- Fortran, ■ Lisp.

Now you can write professional GEM programs with custom icons and dialog boxes—without spending an

arm and a leg. K-RESOURCE makes creating menus, icons, and screen dialogs easy. More powerful than the original DRI Resource Construction Set, K-RESOURCE is also compatible with all other .RSC files.

### K-RESOURCE

TH9024 \$49.95

## GST

Here is the compiler that 1ST WORD™ was written in.

### GSTC COMPILER™

by GST, Ltd.

If you've recently begun programming in C, this is the compiler you're looking for. Its GEM Superstructure Library™ will make your very first program run with GEM windows—**automatically**. Write GEM applications without the complex learning curve associated with GEM AES and VDI. **Plus**, you don't have to remember any arcane commands. The compiler and editor use GEM **everywhere**—it couldn't be easier!

The package includes a special programmers version of the GEM-intuitive 1ST WORD™ editor, Linker, C Compiler, 68K Assembler, GEM bindings (including XBIOS) and a comprehensive user manual.

GSTC  
TH9018 \$79.95

1ST WORD™ Atari Corp.

A high-level Macro Assembler with an unbeatable combination of price, performance, and features.

### GST-ASM™

by GST, Ltd.

When you want to squeeze that last drop of performance out of your ST, GST-ASM is the macro assembler that will get the job done. It's got everything... high-powered macro facilities and toolkit, extended macro functions, 100% Motorola compatibility, plus the built-in exclusive GEM editor and GEM "shell" operating environment. In fact, it's probably the most elegant and sophisticated assembler available for **any** microcomputer. Naturally, it also creates cross-reference listings, symbol tables, supports include files, generates relocatable code, and produces object files compatible with every high-level language.

GST-ASM  
TH9017 \$59.95

toggle between two programs instantly—at any time. The inactive program will be frozen in progress, ready to continue right where you left off.

Now you can use your favorite word processor and database **together**. And for the ultimate in financial software, mate A-CALC PRIME and A-CHART, transferring data instantly with the RAMdisk. Even run low res. programs in one half, and medium res. in the other—it's a marvel to see it switch.

If you own a megabyte ST, K-SWITCH will transform the way you use it. Today.

(1 megabyte RAM required)

### K-SWITCH

TH9023 \$24.95



### A-RAM™ by Kuma

by Roddy Pratt, UK

Can your RAMdisk partition **any** size disk emulator you want?

■ A-RAM can.

Can your RAMdisk **accelerate** your floppy write speed?

■ A-RAM can.

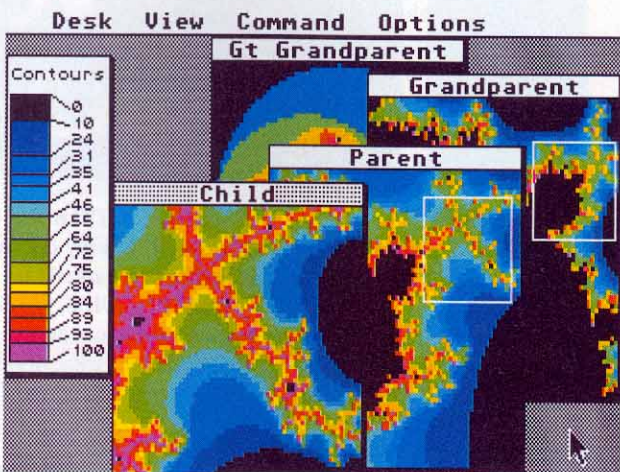
A RAMdisk is an area of memory set aside as a buffer that responds like a disk

drive—only **much faster**.

Everybody needs a great RAMdisk, and A-RAM is powerful, simple, and flexible enough for every application.

**BONUS!** Order now and we'll send you the **best** print spooler you've ever seen. Never wait for your printer again!

A-RAM & SPOOLER  
ST0215 \$19.95



LEARN GRAPHICS PROGRAMMING WITH GSTC!

### GSTC APPLICATION/FOUNDATION I FRACTAL FACTORY™

The best way to learn how to write a full-blown GEM application is by example. You need **source code**. FRACTAL FACTORY is a unique and beautiful program developed by the GST in-house programmers—and it's a **great tutorial**. It includes all the source code, batch files, linker files, graphics and math libraries—**everything** you need to build your own amazing ST program. **Plus**, FRACTAL FACTORY is the ultimate fractal-maker, using multiple windows, variable zoom, and contouring to display and save infinite generations of dazzling mathematical graphics.

(Does not require GSTC.)

FRACTAL FACTORY  
ST0228 \$19.95



**LATTICE C™**

Here it is. The industry-standard C compiler for the IBM PC and Amiga is available now for your ST.

- Full Kernighan & Ritchie implementation
- Macros
- Complete interface to GEM libraries (all libraries included in object **and source** form)
- Compatible with linkers for Alcyon (DRI) and GSTC
- Includes MENU+ GEM shell operating environment
- Full floating-point arithmetic
- No runtime licenses required
- 270-page manual

If you're writing serious software, you need a lot of flexibility. LATTICE C has it: **PRE-PROCESSOR COMMANDS, STORAGE CLASSES, TYPE DECLARATORS, OBJECT MODIFIERS, INITIALIZERS, and STATEMENT TYPES.**

INCLUDES: **EDITOR, LINKER, MENU+.**

Compatible with G.I.S.T. (page 10)  
**LATTICE C**  
**TH0007 \$149.95**

**Technical questions? Talk with a Metacomco System Software Engineer: Call (408) 438-7201.**

**MCC MACRO ASSEMBLER**  
 by Metacomco

The MCC MACRO ASSEMBLER is the companion assembler for Lattice C and MCC Pascal. This full-specification assembler was specifically designed to complement those languages. Features include: linker, editor, GEM libraries, macros, MENU+ and 100-page manual.

**MACRO ASSEMBLER**  
**TH0005 \$79.95**

**MCC PASCAL™**  
**ISO PASCAL COMPILER**

A fast and powerful implementation of ISO PASCAL conforming fully to the exacting ISO 7185 standard. MCC PASCAL is the ideal Pascal for new or experienced users. Features include:

- Fast, single-pass compilation
- Compatible with ISO Pascal running on other macros
- 32-bit integer math plus 32-bit floating point
- Comprehensive error-handling
- Includes MENU+ GEM shell operating environment
- 215-page manual

INCLUDES: **EDITOR, LINKER, MENU+.**  
**ISO PASCAL**  
**TH0006 \$99.95**

**FLOPPY DISKS AREN'T PERFECT. THAT'S WHY YOU NEED DISK DOCTOR.**

**DISK DOCTOR™**  
 by Dan Matejka

The best time to get a good disk editor is **before** your un-backed-up disk is zapped by a power surge—or you mistakenly send your tax-return to the **trash can** instead of the backup disk in drive B.

DISK DOCTOR will make recovery of your lost data as painless as possible. You can even use its built-in GEM disk editor to personalize your own software's menus and error messages. DISK DOCTOR is the perfect file repair utility for casual users, plus it's one of a programmer's most valuable tools.

**DISK DOCTOR**  
**ST0211 \$29.95**

**MAINFRAME ARTIFICIAL INTELLIGENCE ON AN ST? ABSOLUTELY!**

**CAMBRIDGE LISP™ 68000**

LISP, the symbolic language of **artificial intelligence applications**, is now available on the Atari ST. LISP (LIST Processing) is the language of choice in the fields of robotics, expert systems, and natural-language interfaces.

CAMBRIDGE LISP 68000 was **created in the same A.I. lab that developed the original LISP.** Its authors, Cambridge University Professors John Fitch and Dr. Arthur Norman, have custom-designed a powerhouse, mainframe

language for your ST that **supports all GEM AES and VDI calls.**

Transform your Atari ST into a full A.I. workstation at the most outstanding price/performance yet achieved by a LISP system on any personal computer. And **CAMBRIDGE LISP 68000 is both an interpreter and a compiler.** Use the interpretive mode together with the trace package to quickly develop and debug programs. When all the diagnostics check out—compile it!

INCLUDES: **EDITOR, LINKER, MENU+.**  
**CAMBRIDGE LISP**  
**TH9037 \$199.95**

**F**or an environment that's superb for development, I vote for Metacomco."

—Anita Sinclair,  
**Magnetic Scrolls, UK**  
 (developers of THE PAWN)

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