
The Paragon Report



PARAGON COMPUTERS free Publication
with Information News and Views
for ALL ATARI users
November 1992

Compiled, Published and supplied by
PARAGON COMPUTERS
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An Introduction to Programming Utilities.

includes

**WERCS, Fontkit Plus 2, Knife ST, Saved,
Atari Archive, STree, Calculator, Clock.**

(All for only \$49.95)

This amazing value-for-money pack contains almost every utility you'll ever need. Containing products carefully selected to complement the ST's computing power. An Introduction to programming Utilities includes a resource editor for creating menus, dialogs and alerts, a font and icon editor, a disk editor and a host of other powerful programming tools. The Introduction to programming Utilities pack is designed to work with most popular ST programming languages and contains the following programming tools and utilities.

*** WERCS**

A mouse driven GEM resource file editor which lets you create dialog boxes, menus, icons and alert boxes with ease. The WERCS manual contains a wealth of technical information regarding the use of resource files, including object trees, GEM calls and common pitfalls.

*** Fontkit Plus 2**

Is a sophisticated GEM based font editor for GDOS fonts, ST screen fonts, Degas fonts, RCS images and downloadable printer fonts.

*** Knife ST**

The ultimate disk editor for the Atari ST, allowing you to view and/or modify the contents of any disk drive connected to your system.

*** Saved**

A desk accessory which allows you to delete, rename, copy, and get information about a file, format or copy disks and print text files. As it's a desk accessory, you're able to do this at any time from within any GEM program.

*** Atari Archive**

Automates the normally tedious process of backing up your hard disk drive, allowing you to selectively archive only files that have changed.

*** STree**

Locates files on your disk drive. STree searches through your disk filing system for specific filenames or strings and provides details of their location.

*** Desktop Calculator**

Can be called upon at any time from within a GEM program. Containing a selection of arithmetic functions, just enter your calculation as if you were using a real calculator and then enter the result into the document you were working upon.

*** Desktop Clock**

An analogue clock accessory that can be accessed from within any GEM application and left running to make sure that you don't work too long.

An Introduction to Home Productivity.

includes

Word Processor, Database, Spreadsheet.

(All for only \$49.95)

An Introduction to Home Productivity includes a word processor, spreadsheet and database, providing an ideal introduction to the three most widely used applications in computing. All contain a wealth of features, have a friendly user interface and come with QuickStart tutorials carefully designed to get you up and running as quickly as possible.

*** Word Processing for your Atari ST.**

With a conventional typewriter anything you type appears on the page and that's that. You can do a small amount of editing and changing by getting out the Tippex and over-typing the things that you want to change. It's messy, and looks dreadful on documents and letters that you hoped would give a good impression.

With the Atari word processor your text is displayed on-screen as you type it. You can make changes, swap paragraphs around, underline sections of text and even check the spelling before printing your completed document. The Atari word processor is packed with features, yet with its friendly GEM-based user interface remains easy to learn and use. Load up Atari's QuickStart tutorial and you'll be word perfect in no time at all.

*** Database for your Atari ST.**

Database software is an easy-to-use information management tool with all the power of a full database system. Use it to replace your old address book, card index or filing cabinet and get much more information from your data. Atari's database proves that a database system can be powerful, without being hard to use. Atari's QuickStart tutorial provides the ideal introduction to ST-Base's wide variety of features.

*** Spreadsheet for your Atari ST**

Since its inception the computer has become an important planning tool. By using an electronic spreadsheet you can perform hundreds of calculations and "what if" analyses. Spreadsheets can quickly and easily reduce masses of data into meaningful and useable information and track anything from household accounts to business expenditure. Atari's spreadsheet is a powerful, GEM based analysis package containing a wide variety of mathematical and statistical commands and functions. And with the help of Atari's unique QuickStart tutorial you'll be producing powerful spreadsheets in next to no time.

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Should you wish to purchase software from the Atari ST software / hardware list in this issue of THE PARAGON REPORT by mail. next day FREE delivery: please give the following details: or phone PARAGON COMPUTERS (09) 221 3216 (3 lines). 9am-5.30pm W.A.S.T. Thank you.

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Bob Stuart of Radio 96FM

The winner will be notified by mail and will have the opportunity of choosing \$100 worth of Atari ST software free of charge.

The winner will be published in the next issue of The Paragon Report. All orders over \$50 will qualify for the prize. No limit to the amount of orders placed.

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**Congratulations
Stephen Cross,
Randwick N.S.W.**

**Bob Stuart from Radio 96FM
drawing out the lucky winner of \$100 worth of Atari ST Software
from the last issue of The Paragon Report**

Welcome to issue sixteen of **THE PARAGON REPORT**

The magazine of **PARAGON COMPUTERS** Pty Ltd.
Australia's largest ATARI only dealer



THE PARAGON REPORT contains news, reviews and information for Atari ST users in Australia, New Zealand, U.S.A. Canada, Germany, England, Holland and Sweden.

The magazine is produced in house using the Paragon Desktop Publishing Solution, consisting of an ATARI TT030. Eizo 6500 A3 monitor, Megafile 44 hard drive. SLM605 laser printer, QMS Postscript Laser printer, Hawk CP14 Scanner, Augur OCR, Migraph scanner, and PageStream 2.2 Desktop Publishing Software.

Thank you to all the ST users for the moral support and for the kind remarks on the previous issues of PARAGON REPORT, (*please keep it up*). Due to numerous requests from readers of previous issues, we have included a list of our ST software, we would like to remind readers that our ST software list is updated every few days due to the arrival of new software, we also have specials on most software at the end of the month, to make room for new stock. Please call for the latest ST software and special list.

We welcome any feedback on THE PARAGON REPORT and any comments, suggestions, articles, reviews or news can be sent to (The Editor) c/o PARAGON COMPUTERS or leave a message on PARAGON BBS on (09) 325 5160 (it is free) or phone (09) 221 3216. / 3lines. (human response). 9am - 5.30pm W.A.S.T. Monday to Friday. 9am - 12pm W.A.S.T. Saturday. or Fax on (09) 325 8251. 24 hrs.

We would like to remind those of you out there with modems that the FREE PARAGON BBS is on line 24 hours a day with 300/300. 600/600. 1200/1200. 2400/2400. 1200/75. BELL. CCITT. 7 days a week. 365 days a year on (09) 325 5160. Give it a call and have your say.

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Paragon Computers has a fully equipped workshop and staff with a total of 33 years experience with Atari Computers, plus a large range of spare parts and accessories for the Atari ST and is authorised by Atari Computers Pty Ltd for all warranty repairs to the entire range of Atari Computers. As well as being an Atari Authorised Education Department Supplier, Paragon Computers is also an Atari Business Centre, Authorised by Atari Computers Pty Ltd to supply and service the entire range of Atari Business Systems including the Atari Mega ST range, hard disk drive range including 804/605 laser printers, Laptop, TT030, Mega STE and Falcon 030 & 040 series, with the largest range of Atari ST hardware, software and accessories anywhere in Australia.

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An Introduction to Sound and Music

includes
Music Maker Plus, Sample Master

(only \$49.95)

With its built in MIDI ports, the Atari ST is any musicians dream. Atari's Sound and Music package combines a high tech sound sampling cartridge with a powerful music package and drum machine. Grab sounds from your favourite video or album, then edit and mix them to put together amazing effects.

* Music maker Plus

Is the complete package for the beginner to computer music, its three main sections let you compose, edit and listen to a variety of music whose content and type is limited only by your imagination. The composer allows you to write music directly to the computer screen and play it back through the ST's hardware, the built-in MIDI recorder records everything that you play on a MIDI instrument connected to the ST's built-in MIDI ports and the drum machine allows you to design and edit a drum beat using a number of different percussion instruments. Atari STE owners can even incorporate into their compositions, samples and effects generated using their Atari Sample Master cartridge.

* Sample Master

The Sample Master cartridge is a low cost, high tech sound sampling cartridge that plugs into any Atari ST or STE computer. With the sampling and editing software provided, it is possible to record sounds into the computer from any suitable sound source such as a cassette recorder, VCR or CD player. Once sampled and stored inside your ST, sounds can then be played back through your TV or monitor or through your HiFi system using the phono sockets at the rear of the STE. Sampled sounds can be edited in a variety of ways producing stunning sound sequences and amazing special effects. Sample Master and Music Maker Plus together provide an ideal and powerful introduction to sound and music on your Atari ST.

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Prof Plays a new game
Prof looks at words
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Creative Computing Module (only \$29.95)

Hyperpaint II
Music Maker II
FirST BASIC

MIDI PRICE BREAKTHROUGH!



Kawai MS720

New price and performance standards have been set with the release of the new Kawai MS720 keyboard. For the first time you can own a keyboard with very high quality 16 bit sounds and full MIDI features for less than \$300.00.

The biggest breakthrough is in the MIDI performance of this new keyboard from Kawai. The model MS720 is fully five part multi timbral which means that it can play music on five different midi channels at once AND use a different instrument on each one. Drum sounds use midi channel 10 and these are NOT "canned", preset beats but ARE individually triggered from a drum kit of 16 items. For example a bass drum will be hit every time a 'C, Octave 1' is received through midi channel 10, similarly a crash symbol will sound for each 'C Sharp, Octave 2'. All of this while four other instruments are playing different notes on midi channels one to four.

With five different instruments playing, you need to balance the loudness of each one. Once again Kawai have delivered a breakthrough because the MS720 has the equivalent of a sound studio mixing console. It responds to the midi channel volume command and this allows each part of a musical arrangement to play at the right loudness. Of course this loudness can be altered separately on each channel while the music is played to create crescendos and quiet passages at will.

There are four octaves of mini keys making the keyboard light and easy to carry around. One school teacher commented that he chose the Kawai MS720 mini keyboard because it was small enough to put at the desk with the student and the midi computer while still retaining powerful midi response.

There are plenty of live performance features too! One finger ad-lib, automatic rhythm accompaniment and four special 'drum' pads mean that even those with no dexterity on piano keys can play pleasant musical 'doodles'. The twenty instrument sounds include standards like strings, piano, saxophone and guitar and there are four synthesiser patches where the waveshape can be custom made and stored in memory to be kept even when switched off. Any one of sixteen rhythms can be selected for backing while pitchbend, vibrato and chorus effects can be added to the instrument sounds for variety.

In summary, the Kawai MS720 currently represents the best value for money instrument for the beginning midi studio, in function it can do the job of five midi synths in one box.

By Trev Holland
for The Paragon Report
Nov 1992

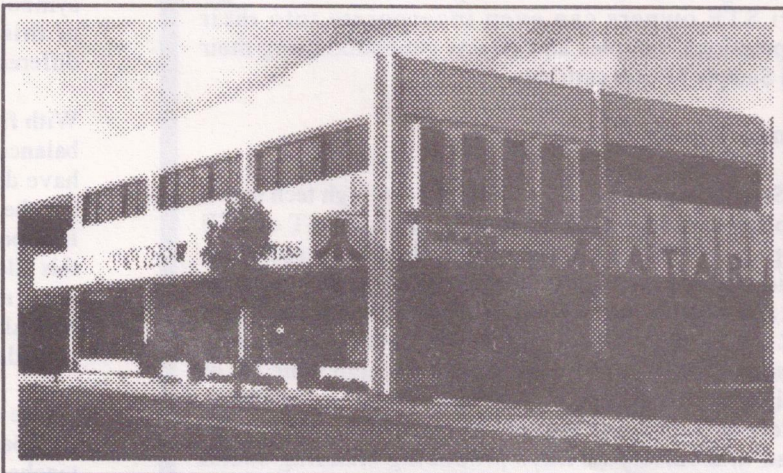
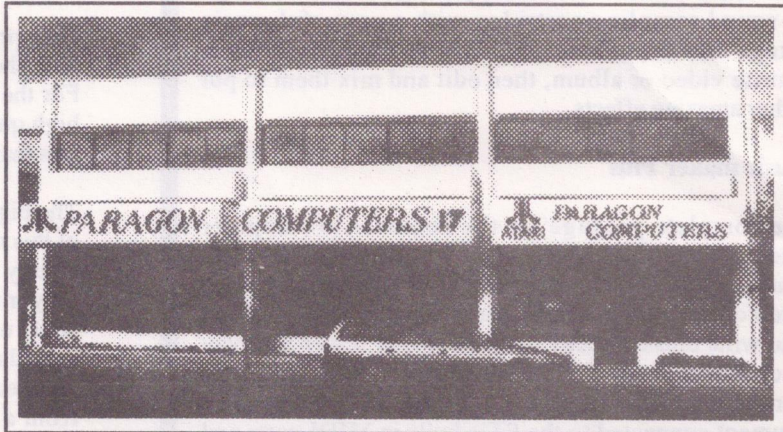
After 5 years as an Atari only dealer, Paragon Computers have now moved to new, larger premises right next door to their old location at 17A Piccadilly Square, Short St. Perth, only the unit number has changed from 17A to 17.

The new showroom area is twice the size of the old one, allowing us not only to display a greater range of Atari ST software but also to separate the software areas into business, MIDI, entertainment, education, programming, productivity and Desktop publishing, the larger showroom also allows us to have a separate Atari Lynx display area with Lynx machines com-linked together plus the full range of Lynx software with the usual Paragon try-before-you-buy policy.

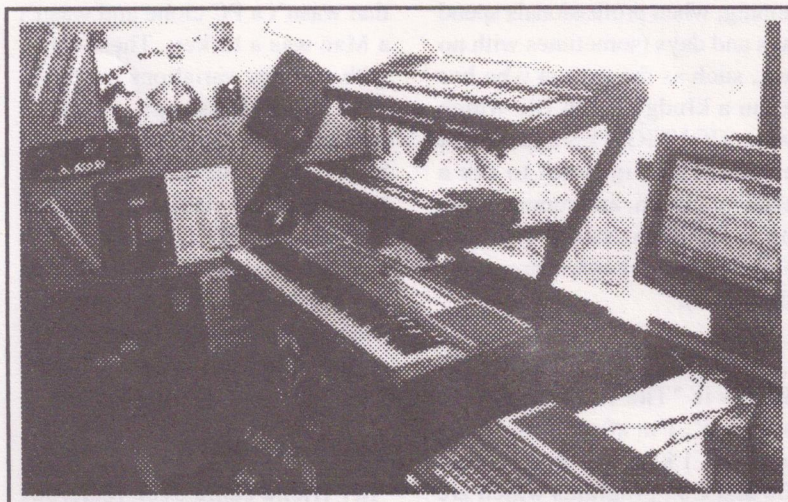
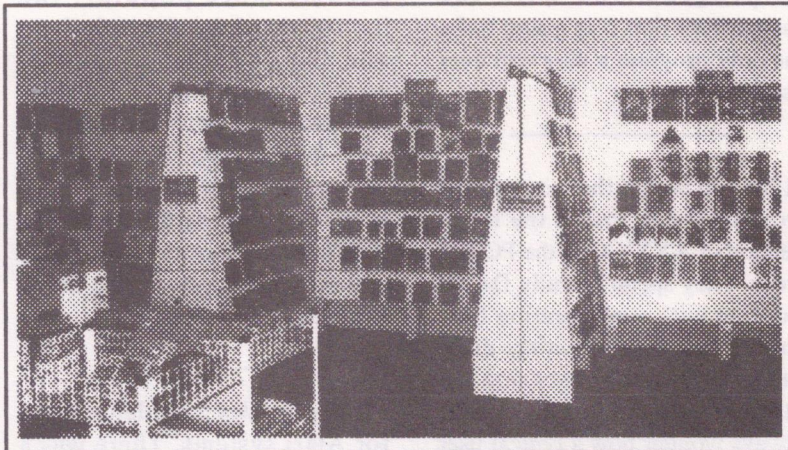
The MIDI music area has been expanded and now incorporates a range of Kawai keyboards plus a large range of Atari ST music, sequencing, editing and scorewriting software for the home user and the professional musician including CLab Notator, Steinberg's Cubase and Dr T.

The status of Atari premier dealer, allows us to display the full range of Atari Computer products, with separate areas for music, business, desktop publishing, entertainment and education. One of the few Atari stores in Australia where you can get hands-on experience of every Atari computer product from the Atari Lynx to the 1040STe, Mega STE, TT030 and Atari laser systems, we will also have areas for the new Atari Falcon 030 and 040 range of computers.

Paragon Computers



growing with Atari



The Paragon Atari service and workshop area has also been expanded, with the full range of Atari diagnostics and spare parts carried in stock, an Atari ST repair or service is usually turned around within 24 hours.

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PC Owners.. Don't read this



While logged on to the U.S. based GENie online service the other night, a few of the comments in the Atari Falcon section made me smile, I thought I would pass a few of them on to Paragon Report readers. In no particular order.

"Why would anyone want to emulate a PC when a PC can be had for a price as low as its usefulness?"

"IBM is big enough to impose a standard on the world no matter how ridiculous."

"Whatever doubts one may have about IBM, I know of no one who doubts their marketing expertise."

"Actually, I have a great deal of respect for those who produce such good software for the IBM/MSDOS/Windows market given the handicap under which they have to program."

"I do believe that the gullibility factor is bigger in the IBM world than in the Atari and Amiga world."

"The IBM users today aren't dummies - they just don't have any choice. The folks who flocked to the IBM platform 10 years ago were the dummies."

"I really feel that the IBM PC was a triumph of marketing over technology."

"The IBM PC is just getting to where the technology could have been 5 to 7 years ago if they hadn't entered the market."

"Sure, they pack a lot of features into each program. However, almost every application seems to be programmed with the assumption that it is going to be the only program a user will ever use."

"I love to watch the 'experts' at work trying to install the latest version of XXXXX on the PC's at work. They spend literally DAYS fiddling with configuration files and all that stuff to get the thing running without clobbering the other programs in the machine. I always wonder how a typical user would be able to get something running, when professionals spend days and days (sometimes with no luck, such as the person who has to run a kludge batch file which swaps CONFIG.SYS and reboot the computer, in order to run a certain program, and remember to run a different batch file and reboot to use the other programs afterwards)."

"If this is "The finest software available", I'm afraid I must beg to differ. I know of many Atari 800 and C64 programs which are clearly superior in these aspects..."

"Being an end user, I'm sure you don't understand the "stone knives and bearskins" philosophy which drives the designers of intel microprocessors."

"Of course a 486-33 is REQUIRED to run a windows application as fast as an Atari Mega STE runs a GEM application, and On-Board Video was virtually INVENTED by Atari in the 1970's!!! Get real."

"I don't think the Intel/IBM-clone platform is so well entrenched. Its downfall is embedded in its very

success; as Windows, OS/2 and other graphical interfaces such as GeoWorks (and even x86 Unix) become more popular, the limitations of the clone platform and the advantages of GUI methods will prompt a lot more rethinking of what a PC is and what it should be. The Mac will gain a lot; the TT/Falcon/? will gain a little, and platforms such as NeXT and pure Unix will become almost mainstream in the home and business market."

"This provides a hidden benefit for Atari systems. There was a time when a personal computer that wasn't a PC clone and wasn't a Mac was a turkey. These days, with so many variations in add-on Windows desktops alone, a personal computer that acts and feels like the one on the desk next to yours is just plain dull. The user with the STe, TT or Falcon won't be distinguishable from the one in the next cubicle with Norton's Desktop for Windows -- except, of course, that the machine with the Atari logo on it is better looking."

"My friend came over yesterday for some DTP work on my computer (because his PC could not do it) and was amazed to see Windows! running on an Atari."

"I remember when the MAC was introduced a lot of IBM'rs where putting down the mouse saying how it wasn't as fast or as usable as a Command line. Now they are flocking to the stores to get Windows and their 5Meg 33Mhz machines just to use it."

"Remember, the CPU is only part of the system, the Falcon030 has a Digital Signal Processor, which is a microprocessor in its own way. The DSP reportedly runs at 32



PC Owners.. Don't read this



Mhz, and (doing what it does best) it makes the '486 look like a toy."

"The Falcon030 contains several "processors" each devoted to a particular task which they are suited for. None of them is as 'fast' as a '486-33 in terms of clock speed, but each is 'faster' in the aspect which it is included for. The result is like putting 4 small rockets of 150,000 lbs thrust each on your space vehicle, racing against an opponent with one big rocket of 250,000 lbs thrust. Who do you think will win?"

"Keep in mind that the '486-33 is a top of the line model, being compared to a bottom end Falcon 68030. Sorta says something, don't it?"

"The internal caches of the 030 give it an unfair advantage over 386's, and the size of the 486 cache gives it an unfair advantage over the 030. The 040 and 486 are very similar, but the 040 has some architectural differences that make it the faster of the two. IBM makes a 386 clone with cache like an 030, it would be a better comparison...the 030 is faster, because 030 burst mode is faster than IBM386 page mode."

"It's the OS that makes the difference in what you see. Without a doubt a 40Mhz TURBO030 in an ST is a heck of a lot faster than a 40Mhz MacIIfx, one gets 10,000 Dhrystones, the other gets 13,000... and the IIfx has a 32K 32bit wide external cache too. But the "apparent" speed difference using CalamusSL or Pagestream on the ST is VASTLY greater than the 30% advantage the bench mark indicates, compared to Pagemaker, etc, on the Mac IIfx.

The difference is even more striking going back to compare against a DOS or Windows equipped 486. Instead, wait till NextStep comes out on the 486, and compare FrameMaker under that versus CalamusSL or Pagestream on a 40 or 50Mhz ST."

"Have your '486-33 play a tune in its awesome 1-bit monophonic sound while displaying an animation at the same time."

"If '486's were so good, how come the major workstations chose the (more expensive) Motorola CPU's??? Are they on drugs?"

"Been reading up on DSP stuff, and this sounded kind of impressive... NeXT computers use the Motorola 56001 as a general-purpose, fixed-point array processor. This state of the art microprocessor can execute up to 12.5 million instructions per second and, with a SINGLE INSTRUCTION, can perform a 24 by 24 bit fixed point multiply, a 48 plus 56 bit addition, two 16 bit address updates, and three parallel memory moves. This is even more impressive when you take into account that the NeXT runs it's DSP at 25Mhz and has 8K words of SRAM, while the Falcon runs it's DSP at 32MHZ and has 32K words of SRAM. Man, this sucker will SCREAM!!"

"I hear that the Falcon030 has a 16Mhz 68030 Co-processor in it to back up that DSP56001. This thing is going to fly! No wonder they gave it a manly name like "Falcon" instead of a girly name like PeeCee!"

"Imagine it like this: every '486 PC clone is essentially a high

powered CPU running PC emulation software with its hands tied behind it's back."

A few random rumours on Atari's new Jaguar games machine. Take them with all the salt you want.

According to an Atari insider friend of mine, the Atari Jaguar will have two 68030s or 68040s, running in parallel. A loose interpretation will call this 1 "64-bit" game system, from adding up two "32-bit" processors.

I think Atari's also working on a Jaguar that is built into a large, arcade-style unit where the player(s) can sit down inside it and it has all the things you mentioned (steering column, foot pedals, etc.) and will only cost \$6000 more than the normal Jaguar console. And for a couple of \$1000 more, it will have leather bucket seats, mahogany dashboard, acoustically-optimized Alpine stereo system, and do 0 to 60 mph in 7 seconds....and I heard that Atari is also working on a Jaguar that gets installed into the dashboard of your car. It has a heads-up display that is projected onto your windshield, and the controls are tied into your steering wheel. There will be target games available as well as several scenery disks so you can feel like you are driving somewhere other than where you are. It will only cost \$8000 more than the normal Jaguar console and it will be illegal to operate it.

By Phil Reeves
for
The Paragon Report
Nov 1992



Atari

Falcon 030

Specifications



System Architecture	Motorola 68030 operating at 16Mhz. On chip demand paged memory management. Separate on chip 256 byte instruction and data caches. Independent address and data buses for increased performance. Pipelined architecture. 32 bit data/address bus. 1, 4 or 14 MB RAM configurations. 512K internal ROM; 128K external cartridge.
Sound	Eight 16 bit digital audio DMA record and playback channels with up to 50kHz sampling rate. Stereo 16 bit digital DMA audio input/output. SDMA sound/DMA co processor.
Digital Signal Processor	Motorola 56001 DSP operating at 32 MHz. 96 MOPS performance at 32 MHz. 32K words of 0 wait state static RAM. DSP connector allows easy connection of low cost 19.2K baud fax/data modems, voice mail systems, direct to disk digital audio recorders, JPEG/MPEG image compression, etc.
Graphics	640 x 480 resolution and 256 colours in Super VGA True colour 16 bit mode allows display of up to 65,536 colours. Accepts external video sync signal to allow high quality genlocking. Overlay mode for easy video titling and special effects. Optional overscan, 262,144 possible colours. Hardware assisted horizontal fine scrolling. BLITTER graphics co processor.
Expansion Bus	Internal direct processor slot for 386SX PC emulation, DMA co processors, etc. Optional processor socket for other co processors.
Standard Ports	SCSI II port with Direct Memory Access (DMA). High speed LocalTalk compatible LAN port. Connector for analog RGB colour (VGA or ST) or composite video. RS232C serial port. Bi directional parallel port (also suitable for image scanners). Cartridge port (128K capacity). MIDI in/out. Miniture stereo plug input/output. Four 9 pin joystick connectors. Two 15 pin enhanced digital/analog controller and light pen connectors.
Data Storage	1.44 MB floppy disk drive, MS DOS format compatibility, Optional internal IDE hard drive.
User Interface	Standard QWERTY keyboard layout. Low profile, sculptured ergonomic design 94/5 keys; 10 function keys. Separate numeric and cursor keypads. Keyboard processor to reduce CPU overhead. 2 button mouse supplied as standard.
System Software	Pre emptive multitasking with adaptive prioritization (MultiTOS). Inter process communication through MultiTOS messages and pipes. TOS operating system in ROM. Hierarchical file system with subdirectories and path names. Icon based graphical user interface with self explanatory command functions, Online help. Multiple window user interface with icons and drop down menus. NewDesk desktop and eXtensible Control panel allows customization by user.

Atari Falcon's DSP (Digital Signal Processor) chip.. What is it ??



A number of people seem to be curious as to what the DSP chip in the Atari Falcon030 will do for them. Below I have excerpted some possibilities from the DSP56000/DSP56001 Digital Signal Processor User's Manual available from Motorola (#DSP56000UM/AD).

The DSP56001 and DSP56000, user-programmable, CMOS digital signal processors (DSPs), are optimized to execute DSP algorithms in as few operations as possible while maintaining a high degree of accuracy. The architecture has been designed to maximize throughput in data-intensive applications. This design has resulted in a dual-natured, expandable architecture with sophisticated on-chip peripherals and general purpose I/O. Being random-access memory (RAM) based, the DSP56001 is an off-the-shelf processor designed to load its program from an external source. DSP is the arithmetic processing of real-time signals sampled at regular intervals and digitized. Examples of DSP processing are as follows:

DIGITAL FILTERING

- Finite Impulse Response (FIR)
- Infinite Impulse Response (IIR)
- Matched Filters (Correlators)
- Hilbert Transforms
- Windowing
- Adaptive Filters/Equalizers

SIGNAL PROCESSING

- Compression (e.g., Linear Predictive Coding of Speech Signals)
- Expansion
- Averaging
- Energy Calculations
- Homomorphic Processing
- Mu-law/A-law to/from Linear
- Data Conversion

DATA PROCESSING

- Encryption/Scrambling
- Encoding (e.g., Trellis Coding)
- Decoding (e.g., Viterbi Decoding)

NUMERIC PROCESSING

- Scalar, Vector, Matrix Arithmetic
- Transcendental Function
- Computation (e.g., $\sin(X)\exp(X)$)

- Other Nonlinear Functions
- Pseudo Random Number Generation

MODULATION

- Amplitude
- Frequency
- Phase

SPECTRAL ANALYSIS

- Fast Fourier Transform (FFT)
- Discrete Fourier Transform (DFT)
- Sine/Cosine Transforms
- Moving Average (MA) Modelling
- Autoregressive (AR) Modelling
- ARMA Modeling

TELECOMMUNICATION

- Tone Generation
- Dual-Tone Multifrequency
- Subscriber Line Interface
- Full-Duplex Speakerphone
- Teleconferencing
- Voice Mail
- Adaptive Differential Pulse Code Modulation (ADPCM) Transcoder
- Medium Rate Vocoders
- Noise Cancellation
- Repeaters
- Integrated Services Digital Network (ISDN) Transceivers
- Secure Telephones

DATA COMMUNICATION

- High-Speed Modems
- Multiple Bit-Rate Modems
- High-Speed Facsimile

RADIO COMMUNICATION

- Secure Communications
- Point-to-Point Communications
- Broadcast Communications
- Cellular Mobile Telephone

COMPUTER

- Array Processors
- Work Stations
- Personal Computers
- Graphic Accelerators

IMAGE PROCESSING

- Pattern Recognition
- Optical Character Recognition
- Image Restoration
- Image Compression
- Image Enhancement
- Robot Vision

GRAPHICS

- 3-D Rendering
- Computer-Aided Engineering
- Desktop Publishing
- Animation

INSTRUMENTATION

- Spectral Analysis
- Waveform Generation
- Transient Analysis
- Data Acquisition

SPEECH PROCESSING

- Speech Synthesizer
- Speech Recognizer
- Voice Mail
- Vocoder
- Speaker Authentication
- Speaker Verification

AUDIO SIGNAL PROCESSING

- Digital AM/FM Radio
- Digital Hi-Fi Preamplifier
- Noise Cancellation
- Music Synthesis
- Music Processing
- Acoustic Equalizer

HIGH-SPEED CONTROL

- Laser-Printer Servo
- Hard Disk-Servo
- Robotics
- Motor Controller
- Position and Rate Controller

VIBRATION ANALYSIS

- Electric Motors
- Jet Engines
- Turbines

MEDICAL ELECTRONICS

- CAT Scanners
- Sonographs
- X-Ray Analysis
- Electrocardiogram
- Electroencephalogram
- Nuclear Magnetic Resonance Analysis

DIGITAL VIDEO

- Digital Television
- High-Resolution Monitors

RADAR/SONAR PROCESSING

- Navigation
- Oceanography
- Automatic Vehicle Location
- Search and Tracking

SEISMIC PROCESSING

- Oil Exploration
- Geological Exploration

Some of the above applications may never be implemented using Falcon, but I'm sure you can see that there are some definitely interesting possibilities for the DSP chip in the new Falcons.

An Introduction to Word Processing. (only \$49.95)

Specially designed to complement the Atari ST, An Introduction to Word Processing package contains Calligrapher Lite, a powerful third-generation word processing and document processing program written to take advantage of the Atari ST's processing power and friendly user interface. This stunning package is packed with a massive range of features and presents your letters and documents on-screen in a true WYSIWYG (What You See Is What You Get) manner.

Suitable for virtually any word processing task, Calligrapher Lite, lets you create and edit anything from short memos and letters to complex documents and technical papers that include detailed pictures and diagrams. Calligrapher Lite, uses state of the art high quality vector outline font technology to produce printed documents of the highest quality, even on a low cost dot matrix printer.

Calligrapher Lite features include.

- * Support for a variety of typefaces of different sizes.
- * High quality output even on low cost dot matrix printers.
- * Full support for page numbering, headers and footers.
- * On-line assistance at the touch of a key.
- * Pictures can be included with documents.
- * Carefully designed GEM based User Interface.

An Introduction to Spreadsheet Management. (only \$49.95)

Electronic Spreadsheets are one of the most powerful and innovative programs available for personal computers. Hardly a person exists who does not have the need to make calculations, for taxes, chequebook balancing, financial planning, mathematical problems or any one of a hundred other uses. Spreadsheets automate the process of entering and manipulating figures at amazing speeds and with enormous flexibility.

Introduction to Spreadsheet Management contains MasterPlan, a powerful management tool, that will let you handle large amounts of information with amazing ease and speed. Compatible with the industry standard Lotus 1-2-3, MasterPlan contains a wealth of arithmetic, statistical and financial functions that simplify the handling of figures. MasterPlan also features automatic graphing, using information stored in your spreadsheet and on-line assistance available at the touch of a button.

MasterPlan features include.

- * Carefully designed GEM-based user interface.
- * Ultra-fast arithmetic, statistical and financial functions.
- * Massive 8192 x 256 cell spreadsheet grid.
- * Mouse or keystroke operation.
- * On-line assistance at the touch of a key.
- * Six different graph types.

An Introduction to Database Management. (only \$49.95)

First in a new generation of database systems An Introduction to Database Management contains SuperBase Personal, the latest idea in ease-of-use; pull down menus, multiple windows, point and click selections as well as the full power of relational database management. Easy to set up, type in your field names, add details like length or data style. With the easy to use menu selections and control panels, you can create a database within minutes. What's more, you can alter your formats at any time without disturbing the data already held on file.

You can display your data in easy-to-read tables or page by page in form view. There's practically no limit to the number of fields in a record, but you have full control over what you choose to show. Select fields, select index, then use VCR style controls to view your data, fast forward, rewind, pause or stop, it's as easy as playing a tape. A unique filter system lets you select and work with any category of records from your file. Define reports, multiple sort levels, import data from other databases, export data to your word processor, read a typical name and address record in less than three hundredths of a second. Use the special picture reference facility to create a unique picture/data library application. You can even run an automatic slide show.

Superbase Personal features include.

- * Carefully designed GEM-based user interface.
- * Export name and address information to a word processor.
- * Powerful searching and reporting controls.
- * Advanced B+tree file structure.
- * Include picture files in a database.
- * Simple VCR style controls.