
The Paragon Report



PARAGON COMPUTERS free Publication
with Information News and Views
for ALL ATARI users
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Phone (09) 221 3216



ATARI ST software and hardware

PROGRAM	CATEGORY	PRICE	HARDWARE	CATEGORY	PRICE
Thunder	Word processing	\$65.99	St graphics and sound	Books	\$39.00
Thunder blade	Entertainment	\$69.95	3D graphics	Books	\$49.00
Thundercats	Entertainment	\$35.99	Gem reference guide	Books	\$39.00
Tiber Road	Entertainment	\$Call	Basic training guide	Books	\$34.00
Time & magik	Adventure	\$65.99	Logo users guide	Books	\$39.00
Timelink	Utility	\$74.99	St internals	Books	\$39.00
Touch Up	Graphic Design	\$279.00	St machine language	Books	\$39.00
Tracker	Adventure	\$69.95	St logo users guide	Books	\$39.00
Trailblazer	Entertainment	\$69.95	Presenting the atari st	Books	\$39.00
Trantor	Entertainment	\$69.95	St for beginners	Books	\$39.00
Trauma	Entertainment	\$59.95	Peeks and pokes	Books	\$39.00
Tricks and tips	Abacus disc	\$30.00	St basic to c	Books	\$39.00
Trigonometry	Educational	\$49.95	Computer animation	Books	\$49.95
Trilogy	Utility	\$39.95	Assembly language	Books	\$49.95
Tripatron	Utility	\$95.00	68000 Assembler language	Books	\$39.95
Trivia trove	Entertainment	\$39.95	68000 Pocket book	Books	\$9.95
Trivial pursuit	Entertainment	\$49.95	Disk drives inside & out	Books	\$49.00
Tune up	Utility	\$69.95	40 More gt flight sim adv	Books	\$29.95
Turbo Cup	Entertainment	\$59.95	40 Great flight sim adven	Books	\$29.95
Turbo GT	Entertainment	\$49.95	Learning c	Books	\$45.00
Turbo ST	Utility	\$79.95	Flying flight simulator	Books	\$29.95
Twist	Utility	\$99.95	Music through midi	Books	\$49.00
Typesetter elite	Utility	\$69.95	Atari st user's guide	Books	\$47.00
Typhoon	Entertainment	\$49.99	More st applications	Books	\$39.95
Typing Tutor	Educational	\$19.95	St artist	Books	\$39.95
Ultima 4	Adventure	\$79.95	Gfa programmers reference	Books	\$45.00
Uninvited	Adventure	\$69.95	Atari st book	Books	\$35.00
Universal military simulator	Entertainment	\$57.99	Intro to sound & graphics	Books	\$39.95
Vampires empire	Entertainment	\$62.99	Elementary atari st	Books	\$39.95
Vector ball	Entertainment	\$59.95	Compute 1st book of atari	Books	\$35.00
Vegas gambler	Entertainment	\$70.00	1St steps in 68000 ass/1	Books	\$39.95
Veteran	Entertainment	\$69.95	Using st basic	Books	\$34.00
Video titling design disk	Utility	\$59.95	The desktop guide to dtp	Books	\$29.95
Vip professional	Spread sheet	\$229.00	Atari st application prg	Books	\$49.95
Virus	Entertainment	\$59.95	Gfa basic quick ref guide	Books	\$35.00
Vixen	Entertainment	\$35.99	Program in gfa basic	Books	\$35.00
War hawk	Entertainment	\$34.95	Gfa basic trng reboot cam	Books	\$39.95
Warlock	Adventure	\$69.95	Learning c on atari st	Books	\$49.95
Warship	Entertainment	\$65.99	Using logo on the st	Books	\$29.95
Warzone	Entertainment	\$29.95	Amiga cables	Cables	\$20.00
Wercs	Utility	\$69.95	Amstrad cables	Cables	\$20.00
Wercs plus	Utility	\$99.95	Keyboard pc extension	Cables	\$15.00
Western games	Entertainment	\$59.95	Centronics male to male	Cables	\$32.00
Where time stood still	Entertainment	\$69.95	Rs232	Cables	\$22.00
Whirligig	Entertainment	\$59.95	Joystick leads	Cables	\$18.50
Winter games	Entertainment	\$49.95	Centronics Printer cables	Cables	\$20.00
Wizard warz	Adventure	\$65.99	Joystick extensions	Cables	\$18.95
Wizards crown	Adventure	\$69.95	I/o cables	Cables	\$19.95
Wizball	Entertainment	\$55.99	Atari cc90b	Calculators	\$17.95
Word perfect	Word processing	\$549.95	Atari cc191	Calculators	\$21.95
Word writer	Word processing	\$199.00	Atari cc1800	Calculators	\$32.95
World darts	Entertainment	\$59.95	Atari cc190	Calculators	\$29.95
Zynaps	Entertainment	\$69.95	520 Stfm	Computers	\$ CALL
			1040 Stfm	Computers	\$ CALL
			Mega 4	Computers	\$ CALL
			Mega 2	Computers	\$ CALL
			Pc3	Computers	\$ CALL
			Pc3 with 30 meg drive	Computers	\$ CALL
			Copy holder standard	Copy holders	\$29.95
			Stick on	Copy holders	\$16.95
			Silicon Animation Mach (ST)	Digitiser	\$599.00
			Cs100	Disk boxes	\$29.95
			Cs120	Disk boxes	\$34.95
			Ds 501 3.5"	Disk boxes	\$14.50
			Ds 1401 5.25"	Disk boxes	\$23.95
			Ds 401 3.5"	Disk boxes	\$12.95
			Ds 1001	Disk boxes	\$19.95
			3.5 Cleaner	Disk cleaners	\$12.95
			5.25 Head c/kits	Disk cleaners	\$7.95
			5.25 40/80 Trk d/drive	Disk drives	\$499.00
			ST 20 MEG Hard Drives	Disk drives	\$999.00
			ST 30 MEG Hard Drives	Disk drives	CALL
			ST 60 MEG Hard Drives	Disk drives	CALL
			Xf551	Disk drives	\$375.00
			Sf 314	Disk drives	CALL
			Chinon mechs	Disk drives	\$299.00
			5.25 40 Track	Disk drives	\$345.00
			Dnool d/n	Disk notchers	\$9.95
HARDWARE	CATEGORY	PRICE			
Db15 backshells	Accessories	\$1.10			
Double adapters	Accessories	\$8.00			
Centronics printer plugs	Accessories	\$13.00			
Telephone cord	Accessories	\$9.50			
Telephone extension	Accessories	\$9.50			
Micro economy coloured	Binders	\$2.50			
2 Ring	Binders	\$3.00			
Sheet protectors	Binders	\$16.50			
From basic to c compute	Books	\$37.95			
Complete desktop publish	Books	\$44.95			
Mastering word perfect	Books	\$43.95			
Programming the 68000	Books	\$49.95			
Mastering c	Books	\$43.95			
Pascal progs in sci & eng	Books	\$44.95			
Understanding midi	Books	\$14.99			
Intro to sound & graphics	Books	\$33.95			
Atari st graphics applic	Books	\$39.99			
Gem on the atari st	Books	\$39.99			
Using st basic	Books	\$39.95			
St advanced prog guide	Books	\$30.00			
St applications	Books	\$45.00			
St tricks and tips	Books	\$39.00			



ATARI ST software and hardware

HARDWARE	CATEGORY	PRICE	HARDWARE	CATEGORY	PRICE
Disk notcher	Disk notchers	\$7.95	SM 124/5	Monitors	\$ CALL
5.25 Wallet	Disk wallets	\$21.95	SC 1224	Monitors	\$ CALL
5.25 Skc marked	Disks	\$16.50	14" Monitor/TV colour (ST)	Monitors	\$ CALL
3.5 Skc marked	Disks	\$28.00	Thomson RGB Digital	Monitors	\$ CALL
3.5 Skc plain	Disks	\$26.00	Monitor RGB Analog (ST)	Monitors	\$ CALL
5.25 Plain	Disks	\$9.00	Mpi	Mouse mats	\$15.00
5.25 Skc 1.6m	Disks	\$39.95	Optical Character Rec (ST)	OCR	\$ CALL
External drive clear	Dust covers	\$14.95	Coloured	Paper	\$12.35
External drive plain	Dust covers	\$18.50	Photocopy	Paper	\$7.95
Internal drive clear	Dust covers	\$15.95	Computer paper 1000	Paper	\$26.50
Internal drive plain	Dust covers	\$21.95	Tractor feed envelopes	Paper	\$59.95
Aladin Version 3	Emulators	\$570.00	900 Word processing	Paper	\$29.95
Twinpacks-	Joysticks	\$24.95	75 Ohm tv line	Plugs	\$1.00
Ecp 220	Joysticks	\$24.95	Spike arrestor	Power filters	\$59.95
Js303	Joysticks	\$29.95	Power gaurd	Power filters	\$64.95
Atari cx 40	Joysticks	\$14.95	Ac adapters 6	Power supplies	\$9.00
Challenger	Joysticks	\$19.95	Sf 314 p/s	Power supplies	\$55.00
Bathandle command	Joysticks	\$49.95	Nx 10 ribbons	Printer ribbons	\$22.50
Boss	Joysticks	\$39.95	Nx 10 colour ribbons	Printer ribbons	\$24.50
Redball command	Joysticks	\$49.95	Lx 86 ribbons	Printer ribbons	\$14.95
Threeway	Joysticks	\$64.95	Lx 800 ribbon	Printer ribbons	\$14.95
Quick shot 1	Joysticks	\$29.95	Epson lq800	Printer ribbons	\$12.95
Quick shot 7	Joysticks	\$9.95	Texas 850	Printer ribbons	\$16.95
Pro 5000	Joysticks	\$45.00	Panosonic kxp1090	Printer ribbons	\$12.95
Clear turbo	Joysticks	\$34.95	Lx 80	Printer ribbons	\$9.50
Arcade	Joysticks	\$19.95	Nx 10	Printer ribbons	\$22.50
Reliable 23*89/1	Labels	\$30.66	Seikosha	Printer ribbons	\$17.00
Reliable 36*102/2	Labels	\$35.00	Nx 15 ribbons	Printer ribbons	\$26.50
Reliable 36*102/1	Labels	\$34.00	Nec p2200	Printer ribbons	\$15.99
Unidata 36*102mm/1 green	Labels	\$19.00	Perspex printer stand	Printer stands	\$32.00
Unidata 36*102mm/1 l/blue	Labels	\$19.00	Smoked	Printer stands	\$32.00
Unidata 36*102/1 pink	Labels	\$19.00	Universal p/s	Printer stands	\$59.95
Unidata 36*102mm/1 yellow	Labels	\$19.00	Lx 800	Printers	\$ CALL
Unidata 36*102mm/1 l/blue	Labels	\$19.00	Brother m1109 with tractor	Printers	\$ CALL
Coloured	Labels	\$19.00	Nec p2200 pinwriter	Printers	\$ CALL
Laser Labels. 4 sizes	Labels	CALL	Nec p6 pinwriter	Printers	\$ CALL
Australian atari gazette	Magazines	\$4.00	Slm804 laser	Printers	\$ CALL
St update	Magazines	\$7.99	Nx 15	Printers	\$ CALL
St user	Magazines	\$8.95	Brother 1709	Printers	\$ CALL
St world	Magazines	\$8.95	Nx 1000c	Printers	\$ CALL
Antic	Magazines	\$7.95	Nx 1000	Printers	\$ CALL
Atari user	Magazines	\$2.95	Nx 1000 colour	Printers	\$ CALL
ST Action	Magazines	\$7.95	Nx 24-10	Printers	\$ CALL
Bit blitzer 123e	Modems	\$499.00	QMS PS810 Laser	Printers	\$ CALL
Net comm 3+12	Modems	\$349.00	H/P Laser Jet + Laser	Printers	\$ CALL
1St nice modem	Modems	\$279.00	Monitor switches ST	Switches	\$69.95
Nice modem 2	Modems	\$749.00	Hawk CP14 Scanner	Scanners	\$3,500
Avtek mini 2	Modems	\$199.00	Canon Scanner	Scanners	\$ CALL
Nice modem 3	Modems	\$549.00	Graphics Tablet 9x6 (ST)	Tablet	\$ CALL
Pocket modem 123	Modems	\$599.00	Graphics Tablet 12x12 (ST)	Tablet	\$ CALL
Perspex monitor stand	Monitor stands	\$28.00	Graphics Tablet 12x18 (ST)	Tablet	\$ CALL
Mega stand	Monitor stands	\$44.95	Nec p6 bidirectional tre	Tractor kits	\$195.00
Tilt swivel	Monitor stands	\$32.00	Dm105	Tractor kits	\$35.00

ATARI ST CABLES

PRODUCT	DESCRIPTION	PRICE
Atari 4 player joystick adaptor	: 25 way 'D' plug to 2 x 9 way 'D' plugs	\$ 16.50
Atari Joystick Splitter	: 9 way 'D' Socket to 2 x 9 way 'D' plugs	\$ 18.95
Atari 520/1040 ST Joystick & mouse extender	: 2 x 9 way 'D' plugs to 2 x 9 way 'D' sockets (200mm)	\$ 18.50
Atari ST monitor cable	: 13 pin din plug to 21 pin scart plug	\$ 29.95
Atari ST Hard disk extension	: 19 way 'D' plug to 19 way 'D' socket	\$ 19.95
Joystick/mouse extension	: 9 way 'D' plug to 9 way 'D' socket (2M)	\$ 15.00
Atari ST disk drive cables	: 14 pin din plug to 14 pin din plug (2M)	\$ 29.95
Atari ST monitor socket	: 13 pin din socket	\$ 12.99
Atari ST disk drive socket	: 14 pin din socket	\$ 13.99
Atari ST monitor plug	: 13 pin din socket	\$ 13.99
Atari ST disk drive plug	: 14 pin din plug	\$ 15.99
Atari joystick plug	: 9 pin 'D' plug	\$ 1.95
Atari ST RS232 serial cable (modem)	: 25 pin 'D' plug to 25 pin 'D' plug	\$ 22.00
Atari ST Centronics cable (printer)	: 25 pin 'D' plug to 36 way Centronics	\$ 20.00
Atari ST printer plug (ST)	: 25 pin 'D' plug male	\$ 2.50
Printer plug	: Centronics 36 way	\$ 13.00
Atari ST modem plug	: 25 pin 'D' plug female	\$ 2.50
RS232 Gender Changer	: 25 pin 'D' plug to 25 pin 'D' plug	\$ 16.95
256k DRAM	: 256k DRAM 150ns	\$ 15.00

Should you wish to purchase software from the ST software/hardware list in this issue of THE PARAGON REPORT by mail. 24hour delivery: please give the following details: or phone PARAGON COMPUTERS (09) 221 3216 (3 lines). Thank you.

software/hardware item	quantity	item cost	total cost
total			

preferred method of payment:

cheque: please state cheque number: _____

money order: please state order number: _____

credit card: please state which type: _____

credit card number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

expiry date: _____

name on credit card: _____

card holders signature: _____

Post to:- PARAGON COMPUTERS
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I do not wish to place an order right now, please mail to me free of charge the items below:

Please mail to me the next issue of THE PARAGON REPORT

Please mail to me the current PARAGON COMPUTERS ST Software list

Please mail to me the current PARAGON COMPUTERS ST hardware list

Please mail to me the PARAGON COMPUTERS end of month software specials list

Please mail to this address:-
 Please print clearly

Name: _____ Phone: _____

Street address: _____

Town/City: _____ State: _____ Post Code: _____

Any software order or software list and PARAGON REPORT will be delivered to the above address within 24 hours. Please ensure the address is correct. Thank you.

BENTLEY COMES TO TOWN

You might remember in the last issue of "The Paragon Report" I reviewed the ARRAKIS educational software series, which is aimed at lower high school students. I bought three of the titles which I thought best suited to my family and would solve the problem of my twelve year old 'playing' with the computer. This created another problem!! a problem bigger than the original one.

It's funny how a seven year old child can make life so hard on self, just because a child thinks it has been left out. After a week or two of "It's not fair" and "why can't I have some computer games" I bowed to the pressure, and yes you guess it, off to Paragon Computers I went. After spending few minutes explaining to Phil what was needed, he as always produced the goods.

It was really very easy, tell Phil or Rod what you want, they go to the shelf give you the RIGHT software package, pay them, go home, show the kids, and NO more whingers. I don't know why I didn't do it sooner, just go into Paragon and get it of the shelf.

But enough of the sad story, the titles that I bought from Paragon for my seven year old has inspired me to put finger to key and tell you all about BENTLEY BEAR and his "magical" subjects.

BENTLEY bear it seems has been a very busy bear, he has

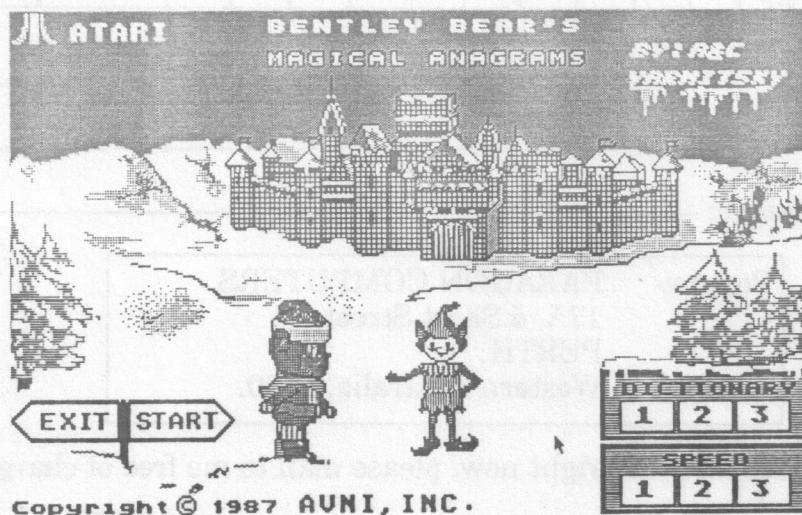
been setting up all sorts of activities to keep children upto the age of eleven occupied. He uses MATHS, SPELLING, MEMORY, and ANAGRAMS in a very special magical way, so magical in fact that I had ALL the ankle biters who lived on our road wanting to try there skills with the BEAR.

Our friend BENTLEY is a little animated bear who the user (ankle biters) controls with the aid of the mouse or keyboard depending on the type of work you get him to do, my little one likes him to do ANAGRAMS. To do this he is in a room which has two frames with one word in each, the only problem is that these

The child can set the difficulty level and pace of these colourful programmes at the start of play, but cannot save the points scored to disk at the end. In the MATHS programme you can also set the what type of operation (+ - x /) you want. Although only having seen ANAGRAMS and MATHS 1, as far as I can tell the whole series works the same way.

The interaction built between child and computer in these programmes is the best that I have come across, and my little one loves them. Not only is this programme fun for the user but they LEARN as well

This software series has been designed not only knowing the needs of children but parents and teachers as well, the manuals have a section to guide them in the use of the programmes. Another great feature is the programmes run in either



words are mixed up. BENTLEY's job (should he wish to accept it) is to rearrange the jumbled up words (with the aid of the child of course) before one of his arch enemy the RAT can get across the room and steal one of BENTLEY's rewards which are on the floor. When both words have been corrected BENTLEY's rewards are converted into points for the child and he has the choice of going onto the next level or to exit the programme. But if your child is anything like mine, BENTLEY will go on.

COLOUR or MONO very much like ARRAKIS in a lot of ways only for younger children. I am sure that with software like this ATARI can only go from strength to strength. Oh best of all is the PRICE!!!! \$19.95 Maybe Phil has made a mistake, no he's never done that before. How does PARAGON do it ?? who cares ?? Just as long as they keep doing it.

Peter Feszczur

ATW Atari Transputer Workstation

Technical Specification

- Housing:-** Single box in floor standing tower case
- Processor:-** Main processor T800-20 (20Mhz). The T800-20 can perform 10 million instructions per second (MIP), has 4K on chip RAM and a floating point arithmetic processor.
- Coprocessor:-** A 68000 (8Mhz) processor relieves the T800-20 of many I/O tasks to be performed. The 68000 I/O subsystem is connected to the T800 via a transputer link, communicating at 20Mhz.
- Memory:-** The T800 has access to 4 megabytes of fast dynamic RAM (120ns), which can be expanded internally to 16 megabytes (and eventually to 64 megabytes). The 68000 I/O subsystem is supported by 512K RAM, this can be expanded to 1 megabyte.
- Video memory:-** 1 Megabyte of fast dual port dynamic RAM (100ns), ports connected to both main and video bus.
- Input/output:** All I/O is the responsibility of the 68000 I/O subsystem. This subsystem is based upon the Atari Mega ST specification and is able to function independent of the host T800 main system. The following I/O is supported via the 68000 I/O subsystem. RS-232. DMA. Parallel port. MIDI ports. SCSI. Mouse and joystick ports. Floppy disc (3.5" or 5.25").
- All standard Atari ST range peripherals can be connected to the 68000 I/O subsystem. These include. Atari SLM804 laser printer. Atari CDAR504. Atari Megafile hard disks.
- The 68000 I/O subsystem will support it's own RGB or composite monitor independent of the main system monitor.
- Storage** 40 Megabyte SCSI hard drive is standard, with additional or higher capacity drives optional.
- Video:-** The ATW will support the following screen resolutions
mode 0 1280x960 4 bits 16 colours 4096 palette
mode 1 1024x768 8 bits 256 colours 16 million palette
mode 2 640x480 8 bits 256 colours 16 million palette
mode 3 512x480 32 bits True colour: all pixels a different colour
- Expansion:-** Both the main T800 system and the 68000 I/O subsystem can be expanded:
The 68000 bus is available for expansion via 1 expansion slot
The T800 bus is available for expansion via 1 expansion slots.

The T800 expansion slots will support additional transputers and/or RAM. The T800 bus is also available for adding support cards such as: X25. Ethernet. Link X-Bar switch (based on C004/T212)

Up to 16 additional T800-20 can be added to the ATW. There is no limit to the number of processors that can be added externally.

ATW Concept: Designed for Future Expansion

The ATW can be used as either a stand alone workstation or as part of a larger network of workstations. As a stand alone workstation the ATW can support up to 17 transputers internally. Additional transputers are added by inserting a transputer farm card. (A collection of transputers is known as a transputer xfarm). Currently, an external farm of 48 Transputers is available, giving a single workstation the ability to address 65 transputers. In this configuration, the ATW has 650 mips of processing power. A typical farm card consists of 4 T800, each with its own 1 Mega byte of RAM. Additional farms can be added so the the ATW has access to an unlimited number of transputers.

Each transputer has four links and can be linked to other processors in different configurations to resolve different problems. Linear arrays, two dimensional arrays and cube arrays can be constructed by changing the link connection between processors. These links can be dynamically changed by using an optional X-Bar switch.

Additional processors can be added externally by extending the transputer links outside of the ATW.

A network of ATW's can thus be created by connecting the ATW via the fast transputer links. Each ATW is aware of all transputers in the system and is able to use any spare processing power. Such a network is a true distributed processor system. Such networks can be created so that the failure of a single processor or the failure of a single ATW will not cause the failure of the entire system.

Operating System

The operating system, Helios is true distributed operating system. There are no central services upon which the entire system relies, thus making the system more fault tolerant. The distributed nature of Helios is transparent to both the user and application programs.

Helios is multi-tasking and designed specifically for a multi-transputer architecture. The Helios environment, with its C shell and UNIX compatible command set and libraries will be familiar to all UNIX programmers and users. Helios is responsible for distributing program components to the appropriate processor in the transputer network.

Running on top of Helios is X-window system version 11. The X-Window system is the standard for controlling window based graphics on workstations. It is flexible and powerful. A desktop representing data and facilities as icons will simplify the UNIX style interface of Helios. A mouse pointer will enable easy selection of icons and pop-up menus.

Atari Robokit

The Atari Robokit works on all Atari ST computers and has been designed to provide students with an introduction to the world of robotics. The package consists of the Robokit software, Robokit interface board and a comprehensive manual offering several robotic projects to be built and programmed. The robot models can be built from Lego, Fischertechnik or from other modelling materials. The models can contain battery powered motors, electromagnets, solenoids, microswitches, sensors for sound, light, touch or heat.

Robokit and Interface

The Atari Robokit is a small interface board that connects to the Atari ST through the cartridge port for direct connection to a robotic device. The board has 8 outputs, each can serve as a logic or power output. A single logic output will drive a DC servo, while a single power output will drive a light bulb, solenoid or DC motor bi-directionally. Eight buffered inputs are also provided on the board. These allow for the simple connection of switches which can be activated under software control.

Robokit Software

With an easy-to-use GEM interface, the Robokit software has been designed to control a wide variety of robot models, models may be simulated by using a static drawing on the Atari ST screen. These drawings can be created using any of the standard drawing programs for the Atari ST. Additional software modules are planned to supplement the existing Robokit software:

- * **Robokit Neural:-** Will allow the robot to respond to various input devices. A neural network can be designed allowing the robot to think and respond to various situations.
- * **Robokit Animator:-** Will allow very complex animation sequences and works on the principle of a multi track recorder, allowing several functions to be animated in parallel.
- * **Robokit Vision:-** Will allow the model to "see" by using infrared, sound and movement detection.
- * **Robokit Speech:-** allows the robot to speak.

Atari MEGA ST 1

The Atari MEGA ST 1 will have the same design specifications as the current MEGA ST 2 & 4 but with 1 Megabyte of RAM. The design is to fill the gap between the current 1040 ST and MEGA ST2 and can be upgraded to 2 or 4 Meg at a later stage. *(Editor comment.) The new MEGA 1 is firmly aimed at the business user who currently believes that a computer cannot possibly be used in a business environment without having a separate box to stand the monitor on and a keyboard attached to to the box via a cable, this will allow the system to look like an IBM without taking the necessary backward steps in technology.*

Atari Pocket PC

Processor:-	80C88, 4.9152 Mhz clock speed
Internal RAM:-	128K including internal RAM disk from 8K
Internal ROM:-	256K containing BIOS, OS, Application suite
Screen:-	Graphics LCD, supertwist technology. Software controlled contrast, 40 column x 80 lines + graphics
Keyboard:-	63 keys, IBM PC BIOS compatible, numeric pad and function keys
Character Set:-	IBM extended ASCII (full 255 characters)
Sound:-	speaker with DTMF tone dialling ability
Mass Storage:-	Memory card (32K/128K ROM)
Power Supply:-	3 x AA penlite (6-8 weeks regular use) Mains adaptor. memory back up
Expansion port:-	60 pin pocket PC expansion BUS for peripherals
Dimensions:-	200mm x 105mm x 29 mm. 8" x 4" x 1"
Expansion:-	RAM expansion to 640K
PC Card drive:-	Designed to be installed in either PC or AT, operates like normal disk drive D:
Comms:-	Combined RS-232 + Centronics Parallel
Smart Cable:-	Provides 2-way file transfer with PC and printing using the parallel port
Applications:-	Software in ROM or PROM cards

Software in ROM:- Operating System, compatible with MSDOS 2.1. PC compatible ROM BIOS with extended functions. Applications software interface. Lotus 123 file compatible spreadsheet. Time manager. Address and phone book. Text processor. Sophisticated Calendar. Communications software

(STACEY) Atari ST Portable

Features:

- * Fully compatible with the ST, using CMOS parts.
- * Battery powered - 8 "C" cells.
- * DC input for car or AC adaptor.
- * Liquid crystal display - 640 x 400 monochrome.
- * Blitter chip installed.
- * 1 Mb RAM, 256k ROM, 32k screen RAM.
- * Integral floppy disk drive.
- * Full-function ST compatible keyboard: function keys.
- * Tracker ball, two "mouse buttons"
- * All standard ST external connectors: ASCI, MIDI, Serial, Parallel, Floppy.
- * External monitor jack (monochrome & colour)
- * Stereo audio output jack.
- * Cavity for optional 3.5" hard disk or second floppy.
- * Latest TOS operating system.

Megafile 44

Description:

Based on the Syquest SQ555 winchester disk drive, the unit features a removable 44 megabyte cartridge facilitating the easy transfer of data.

Technical Specifications:

- * Removable cartridge media.
- * 44 Megabytes (formatted) storage capacity per cartridge.
- * Unlimited off-line storage.
- * 25 millisecond average access time.
- * Industry standard half height 5.25 form factor.
- * 30,000 MTBF.
- * Data transfer rate of up to 1.25 megabytes per second.
- * 8k data buffer.
- * Read/write operations with 1:1 interleave.
- * Self-diagnostics at power up.
- * Rugged hard disk cartridges.

Atari CDAR 504 CD-ROM Player

The Atari CDAR 504 player has been designed to be used either as a conventional CD-Audio player or as a CD-ROM device that is able to be connected to the Atari ST series. A standard Atari DMA cable is required to connect the unit to the ST which in conjunction with Atari Meta-DOS can read any disk written in High Sierra (ISO 9660) format giving immediate access to the 550 megabytes of data stored on the CD-ROM disk.

Specifications:

- * Sony and Philips CD-ROM Standard Mode 1, Mode 2
- * 160 kbyte/sec (continuous) data readout from disk
- * Less than 1.0 sec traverse time (sequential move from innermost to outermost track)
- * 10-12 bit error rate (unscratched disk)
- * ASCI interface (2 x 19 pin connectors)
- * External audio output. 1.4v RMS 10k ohm load
- * 20Hz to 20KHz frequency response
- * Signal to noise ratio -75dB (limit -70dB)
- * Channel separation -75dB (limit -70dB)
- * 0.05% Harmonic distortion
- * Horizontal installation
- * Front loading
- * 2 digit display
- * Audio remote control
- * 0.15A power consumption
- * 4.3kg weight

PAGESTREAM

The Facts

Features	PageStream	PageMaker 3.0	Ready, Set, Go 4.0	Quark XPress 2.0
Computer/memory req	ST-Mega	Mac/IBM-1Meg	Mac/1 Meg	Mac
Price	\$299	\$1498 Mac \$1998 DOS	\$995	\$1750
Number of pages max.	254	128	Memory	Memory
Number of viewing options	15-1500%	5 presets	5 presets	5 presets
Copy protected	No	No	No	Yes
Text flow - irregular objects	Yes	Yes	Yes	Yes
Search and replace	Yes	No	Yes	Yes
Style sheets Yes	Yes	Yes	Yes	
Hyphenation (Auto/Manual)	Both	Both	Both	Both
Kerning (Auto/Manual)	Both	Both	Both	Both
Tag function	Yes	Yes	No	No
Undo command	Yes	Yes	Yes	Yes
Grouping of objects	Yes	No	No	No
Rotation of text and graphics	Yes full 360 deg	No	No	No
Zoom command	Yes	No	No	No
Snap to grid and guides	Yes	Yes	Grid only	Guides only
Definable grid and guides	Yes	Grids only	Yes	Yes
Lock and Unlock to page	Yes	Yes	Yes	Yes
Number of docs viewable	Infinite	1	Infinite	Up to 12
Hanging indents	Yes	Yes	Yes	Yes
Slant or twist objects & text	Yes	No	No	No
Point size range	1/50 to- 1310pts	4-127pts	1-235pts	2-500pts
Colour separations	Yes	Yes	No	Yes
Line sizing options	1/50 to- 1310pts	8 presets	Presets only	Unlimited
Resize/crop graphics	Yes	Yes	Yes	Yes
Page size (max.in inches)	18.2 x 18.2	17 x 22	99 x 99	48 x 48
Smallest kerning increment	1/10,000th of em	1/24 of an em	1pt	1/200th of em
Circles, boxes, ellipses, lines	Yes	Yes	Yes	Yes
Leading	Yes	Yes	Yes	Yes
Spelling dictionary	Yes	No	Yes	Yes

Welcome to the fifth edition of **THE PARAGON REPORT**

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



THE PARAGON REPORT contains reviews and information for Australian ST users,

The magazine is produced in house using the Paragon Desktop Publishing Solution, consisting of an ATARI Mega4. Megafile 60 hard drive. SLM804 laser printer, Hawk CP14 Scanner, Augur OCR, Publishing Partner, PageStream and Imagen Post Script Software.

The information for the magazine is compiled using the latest in human technology, Eyes and Ears.

Thank you to all the ST users for the moral support and for the kind remarks on the first four issues of **PARAGON REPORT**, (*please keep it up*). Due to numerous requests from readers of the first four issues, we have included a list of our ST software and hardware, we would like to remind readers that our ST software list is updated every 3 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. If you would like to receive a current ST software list and monthly ST software specials list on a regular basis, just fill in one of the forms on the back page and post to the address below.

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 (its 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.

If you would like to review some ST hardware or software for inclusion in the next issue of **THE PARAGON REPORT**, we have a special price for reviewers on all ST products from the \$3,500 Hawk CP14 Scanner to the \$5.00 mouse cover.

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, you never know, you may win a **FREE** box of disks.

If you would like to receive future editions of **THE PARAGON REPORT** on a regular basis, just fill in one of the request forms on the back page and post to:-

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AMIGAS? I love em!

This is a story about Amigas.

As the manager of a Atari Computer store, that also runs a Desktop Publishing Bureau, using a Apple Macintosh SE, an IBM PC compatible, a commodore Amiga and an Atari MEGA ST4, all hooked up to a QMS PS810 postscript laser printer, I get to meet and watch a large variety of computer users at work on their favourite machines as they typeset their work and print out using our laser.

After 18 months of practise, as soon as a customer walks through the door, I can tell which of the four machines he is going to use to do his typesetting and printing on.

If his eyes are blinking at about 50 cycles per second, he is going to use the Amiga, he walks up to his favourite machine with a look of great confidence, he sits down in front of it and just before he switches on, he says "Oh, I have forgotten my kickstart disk, do you have one please". We offer him our kickstart disk, he puts the kickstart disk in the drive and switches on, a few seconds later up comes an icon on the screen that we know means insert workbench, but he doesn't insert workbench, instead he sits staring at the screen with his eyes blinking like crazy trying to get them into sync with the screen flicker, after a few minutes and without daring to take his eyes away from the screen in case he loses sync, he says "Oh, I have forgotten my workbench disk, do you have one please?". He takes our workbench disk without looking around and inserts it into the drive, several minutes later, he takes out the work bench disk and inserts a third disk, this is his program disk that contains his all singing, all dancing Desktop Publishing program, after a few more minutes, nothing happens, still not daring to look away from the screen, he says "Oh it must be the wrong version of Workbench, do you have 1.2?". We give him 1.2 workbench but he does not put it in the drive, instead he switches off the machine and puts in Kickstart again, after the usual wait he puts in workbench only to find it does not work because he now has the wrong version of kickstart, we give him Kickstart 1.2 and he then proceeds to go through the same process.

After several minutes have passed, something appears on the screen that looks like text, yes, it is text, you can't make out what it says, but it looks like text, he gets closer to the screen and his blinking eyes now start to squint (*have you ever tried to blink and squint at the same time?*) Amiga typesetters think that there is something wrong with someone who can't blink and squint at the same time.

About an hour passes and he says "I'm ready to print now" I say, "do you want parallel or serial post script?", he says "Whats post script?" I smile, not because he doesn't know what post script is but because he has now looked away from the screen for the first time in over an hour, and I know that when he looks back again, his eyes will be out of sync. We set the laser printer to Hewlett Packard laser jet emulation via the serial port because it is the only printer supported by his all singing all dancing DTP package, he prints his page, which incidentally bears no resemblance whatsoever to the flickering text showing on the screen, he looks at his page, he mutters something about fonts and his Gurus medication, I ask him (*trying my hardest not to smile*)

"how did it come out?" he says, "I would like the headline in 24 point bold but my all singing all dancing DTP package only goes up to 18 point".

I say "No problem". I sit down at the MEGA ST and proceed to type in his text into Publishing Partner, he looks at the screen and says "Geez, thats a high resolution screen". I tell him its 640 x 400 the same as his Amiga, his eyes immediately start to flicker at 50 cycles per second, (*After 18 months of witnessing this phenomena, it still brings a smile to my face, I think it is some sort of reation to the word Amiga*) I tell him he doesn't have to do that on the Atari ST and offer him my seat in front of the monitor, he sits down at the ST and looks at his text on the screen, his eyes stop flickering and his mouth opens, he can now actually read the text he is typing in, he types faster and faster, I show him how to change his headline to 24 point bold, he smiles and changes it back again, he tries 26 point bold, he smiles", five minutes later he is finished typing and says "I'm finished" I say "Just click on print document from the file menu" he says "Oh, OK then", his page prints in 17 seconds, he looks at it, smiles and says "Thats what I wanted to do, how much is that software package?" I tell him the price and mention that he was only using the junior version and would he like to see the professional version, he thinks I'm kidding and smiles, I press Control Shift Alternate and Page Stream drops instantly down in front of Publishing Partner, a look of sheer amazement is now on his face, he says "How did you do that?" I explain to him about Revolver for the ST and how we can switch instantly between 4 types of Desktop Publishing programs, all having their own desk top accessories and how we currently have 28 different programs in RAM, all accessible within less than one second, he says "I didn't know that the ST can multi task?" I flick between Publishing Partner, Page Stream, Calamus and Timeworks DTP in 4 seconds (*by this time his mouth is open so wide, I am actually standing on his bottom lip*) He is, to coin a phrase, absolutely blown away, I smile, and say "Oh, I thought the Amiga could do all these sort of things?" He shakes his head and mutters something about his Gurus medication again. I say "Don't worry at least you have some real good games" He says. "But I don't play games on my machine, I use it for business and desktop publishing", I look curiously at him and ask, "Why did you buy a games machine to do desktop publishing on?" He says "Well....well I....I thought that the Atari was a games machine?", I smile and say "Oh yes, of course" and proceed to rotate the text I am now typing into Page Stream through 3 dimensions, he cannot believe his eyes, he asks me the price of an ST and if I take trade ins.

The rest is history, this Amiga typesetter is now using a Mega ST4 and an Atari laser printer along with countless others he has converted over from the Amiga games machine.

Ha.... Amigas..... every Atari dealer should have one.

Next time I will tell you about the IBM desktop publisher, he's the one that walks in with 15 disks and 5 manuals on Ventura, just to print one page.... but thats another story.....

Phil Reeves

My blisters have blisters after a four day stay at CeBIT (World Center for Bureau, Information, Telecommunications Technology), the worlds biggest computer trade fair. Affectionally referred to by everyone who worked there as Apocalypse Now, it was pure Kafka. Fourteen spectacularly huge buildings, helicopters chugging back and forth, four bus lines, hot air balloons, computerized information booths connected by an ISDN system with highspeed printers spewing out instant lists of anyone, any company, any thing you cared to find, huge screens with crisp computer animation, thousands and thousands and thousands of computers: all kinds, shapes, sizes, colors. Nearly a quarter of a million square meters of exhibits for over half a million visitors, 100,000 of which were foreign visitors: all of this nearly double since 1985, every hotel bed booked out for miles around.

The translation service took care of all European languages, including Finnish, plus Turkish, Arabic, and Chinese. Mounted police guiding endless traffic. The larger the corporation, the more stunning the girls. I placed a corporate order for a WDG RAFI system (satellite capability, of course) at Nixdorf with Suzy, a green-eyed dream. Women readers will be happy to know that IBM hires out the entire Playgirl crop of guys for customer relations. Seventeen restaurants, two shopping centers, eight banks. Flight Simulator set ups with jetpilot seats. The morning radio, the police loudspeakers, the ticket takers, the public announcement system all said, whispered, shouted "Have a successful day!" Mobs of businessmen, milling around; business cards exchanged with every handshake.

The CeBIT, like those legendary Hamburg houses with 5,000 girls, is pure business. In the stalls, the halls, the escalators, the boulevards, people were talking deals, percentages, contracts, delivery dates. Young hopeful programmers, exhaustion in their eyes from long train rides halfway across Europe, carry in their briefcase their one disk and a mom-packed sandwich, looking for a distributor. The only way to do CeBIT is with The Furs in your walkman and to pump up the volume.

The weekend was the worse: the kids arrived. Storming around, asking for candies, juice, balloons, pins, stickers, bags, t-shirts, disks, printers, mainframes, whatever they could carry. Two Atari monitors "vaporized". Commodore had a box of spare mice. Macintosh sealed all of their disk drives. Nearly everything was bolted down. A developer discovered

a virus on his 110 megabyte harddisk. Atari placed two big men in front of STACEY and FOLIO with express orders not to take their eyes away from the things.

There was far too much at CeBIT: I went around to only the things I wanted to see; in the end, an electric car took me to the infirmary to take care of my feet. SMALLTALK, from HEEG, was running; one of the developers and I had a great chat about it. Its the future. I was impressed with ARTWARE, the art show. I went in, expecting more of the awful computer scribbles that magazines enthusiastically call "art." Boy, was I wrong! Computer art has arrived with a roar. Lots of great stuff. Artists in all continents are using computers to create art or doing work that takes up the computer as a subject. Installations, sculptures, lasers, screens (one work uses 40 monitors), videos, sound, paintings, printouts (onto large sheets of photographic paper). Arranged by David Galloways art gallery (Schloss Strasse 3, D-56 Wuppertal 2, West Germany. A beautifully printed catalog, English and Germany, 35 pages, is available for 10 DM.)

Mac News: Apple presented the new Mac IIcx, with an 68030 chip and a Korean company presented the first Mac-Clone. It looks like a PC and needs only the Mac ROMs to be the real Mac-coy. Intels new 80386 CPU chip runs at 33 MHz. PCs were calculating Pi to 700 digits in 36 seconds. Microsoft and

IBM are pushing their new joint project: OS/2 as a replacement for MS-DOS. Never mind that there is no software for this yet... Flat screens, not more than several centimeters thick, and tiny color screens for laptops. And color scanners, as well. The NEXT was very missing; lots of talk about it. ISDN, the most-talked-about non-event, was inaugurated in West Germany during the show. Electronic dictionaries, with 400,000 words in 128KB; some of these even talk.

Security was a big issue, what with all the virus, hacker spy kids, and natural disasters happening lately. The West German hackers held their yearly unofficial meeting at the BundesPosts exhibit, where they received juice and cookies. Physical security is the idea now: the entire storage system is in a giant steel tube the size of a freight car that can be buried under the corporate headquarters. Chip cards are coming: a computer embedded in a credit card. The director of the company says that it cant possibly be hacked. I say itll take about three weeks. The latest thing: telefax for cars. This really separates the boys from the kids!

CeBIT89: The UltraHyperMegaTurbo Computer Show. by Andreas Ramos, Denmark

**. Written for Paragon Report, Australia.
March 14, 1989**

Shall I tell more about Suzy or do you guys want to hear about the ST? Right. Atari news. You guys are weird. Ataris stand, only a bit smaller than IBMs PC stand, was a mob scene. The Mega-1, Stacey, Ataris laptop, and Folio, the pocket PC, was there. There was a pre-release CD disk with ST PDs: over 200 disks on one disk. Transputers transputing. DMC with Calamus, V.1.91, listening to complaints, answering questions, handing out information. Lots of fonts, books, and a whole new text editor for Calamus is available. New program from Application Systems Heidelberg: PROTOS, which allows extra abilities for the desktop.

Monitors are changing: multisync monitors, for all resolutions, transparent screens, so that you can use the ST with an overhead projector, and big 19 inch screens, at 1280x960, for desktop publishing. ST COMPUTER presented its graphics card: you can use all resolutions on an ST, and up to 1024x1280 pixels in four grey tones, or 16 colors out of 250000 possible at 1024x768 at 64 MHz for professional work (excellent resolution!) or 256 colors at 800x600 out of 250,000 for video work. Very crisp, stable image. No more need for an Amiga! At least three LAN networks were up and running. Lots of new books for the ST.

The Mega series expanded downwards to encompass 1MB systems. The 520 and 1040 STs will cease production. The Mega1 looks just like the Mega2 and 4s: separate housing for the CPU and DS disk drive, and a separate keyboard connected by telephone coil. The Mega keyboards, made by Cherry, are excellent for writing. Mega STs can be easily expanded upwards. STacey: after months of speculation and rumors, it was up and running. One megabyte. Trackball. It was so new that Atari didnt even have a photo for the press. The vital statistics were jotted down on a piece of cardboard. STACEY had two disk drives, but the final version will only have one. A five megabyte harddisk can be added. This was a real working machine: I wrote text and played around with the trackball. STACEY will be delivered this summer at a price similar to the 1040 ST.

Folio was a major CeBIT sensation: a PC computer the size of a calculator. 20 x 9 x 2.5 centimeters. 450 grams. Switches between English, German, and French. Upgradable to 640 KB. 256 KB of ROM, which holds MS-DOS, a LOTUS123 compatible spreadsheet, wordprocessor, address book,

telephone dialer, programmable calculator, and calendar. Screen: 11x4 cm, 240X64 pixels. Shows eight lines of 40 characters each. The batteries hold almost two months. It uses creditcards for storage: 128 KB per card. FOLIO will also be available this summer. Atari is so careful with FOLIO that no one was allowed to even touch it.

**Folio was a major CeBIT sensation:
a PC computer the size of a calculator.**

Heres a cute trick I picked up from Claus Brod. I was fooling around on his system, when I noticed that there were three rubbish bins. Easy to do. Open DESKTOP.INF with a text editor and simply copy the rubbish bin line several times. Save and reset. The bins are laying on top of each other; move them into each corner of the screen. A rubbish bin is never far away.

**STacey:
after months of speculation and rumors,
it was up and running.**

With Calamus, the new Mega 1 ST, STACEY, the PC clone line, and Folio, Atari is diversifying into more markets. The ST is clearly becoming two computers: the 520FM for kids to play games on the TV and the Mega series for applied use. There is excellent support for the ST in West Germany. Many of the companies with which I talked told me about things which are coming. I saw pre-release programs which are going to be very popular.

The ST appears in many newspapers and professional magazines as the machine for real work. It is not the Amiga which is the STs competition; it is the Mac. And the selection of the ST as the Computer of the Year is, by now, no surprise.

**The ST is clearly becoming two computers:
the 520FM for kids to play games on the TV
and the Mega series for applied use.**

But what about the CeBIT? Was it worth it? If you want to sell a program or a book, or if you want to buy something, you can find, within a single building, all of the major companies that work with the ST. Questions about Signum? Ask the people who developed it. Problems with Calamus? Five steps away. Midi? Steinberg just around the corner. Questions about the ST? Many of the top programmers for the ST were sitting at their computers, explaining, showing, talking. Talk to Atari Corp. Sig Hartman was walking around. To sell a product, you can, within a day, demonstrate it to all of the major dealers. This would otherwise take you months of travelling around Europe. All of the major houses with which I spoke were very satisfied with the show: lots of systems were sold. Yes, the CeBIT was worth it, even with all the chaos.

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This month 'The Paragon Report' road tests: NeoDesk

The Desktop Alternative for the Atari ST or Mega Computer

Reviewed by Steve Quartly

Product : NeoDesk
Version : 2.02
Publisher : Gribnif Software
Available : Paragon Computers
Author : Dan Wilga
Cost : \$74.00

Introduction

If you had the opportunity to re-design the desktop of the Atari ST, what would you do?

Well if you were like me you would have quite a few suggestions. Here are some of them:

- 1) I'd add a move file function as well as the copy file function.
- 2) I'd add a function to display only the file with a certain type extender, e.g. only the .PI3 files or .DOC files.
- 3) I'd somehow try and display more file names on the screen when you look at the files on a certain disk.
- 4) I'd enable a program file to be put onto the desktop, so it can be run directly from the desktop.
- 5) I'd increase the amount of information given in the various dialog boxes that are displayed.

These are just a few of the many. However Gribnif Software have just released NeoDesk v2.02, which includes all of the above features, and many, many more.

A New Desktop!

Having heard a few good rumours about NeoDesk, I was very keen to try it out. So I opened the manual and one of the first things I saw (that is after the copyright warning, licensing agreement, disclaimer notice, installation instructions, and back up info.) was a few paragraphs on how to run NeoDesk. This I liked, because the first thing I like to do with new software is ignore the manual and go hell for leather just playing with it. So, with no trouble at all, a desktop similar to the standard Atari desktop appears on my screen. The first obvious difference was the desktop, what was normally grey, was now a brick wall, and the icons were different. So I played around for a while, and as I got deeper and deeper into the program, I started to realise just the amount of potential this program had. Anyhow, enough playing around, I said to myself, let's have a good look into this beast, and put it through it's paces.

Let's Get Serious

On further reading through the manual, I found that you could replace the boring old grey desktop with several choices. One of them being a NeoChrome or Degas picture. So the first thing I did was change the desktop to a stunning blonde with great eyes, now she just sits there..... staring at me..... and I found that I had to open a few windows

to cover up her eyes, as I was getting no work done! (I'm very easily side-tracked you see.). Anyhow I opened up a drive to see just how quick it was in displaying the icons, to my surprise, I think that NeoDesk is slightly faster than the standard desktop. All the icons have been changed there are new icons for, floppy disk drives, hard disk drives, ram disks, the trash can, .PRG, .DOC, in fact all the icons have been changed and a few new ones have been added.

A printer icon has been added, which links directly to a desktop accessory which is also supplied on the disk. The accessory is in fact a printer queue which allows you to put as many files into the queue as you like and it will print them one at a time. The beauty of this is that it takes no more memory than the desktop accessory itself, it merely stores the path and file names of the files to be printed and the prints them out one at a time. It will also work with a printer spooler if you have one.

One disappointing thing I found, and perhaps if the author ever gets to read this, he might consider putting this suggestion into future versions of the program, was that nothing happened if you dragged a disk drive to the printer, it would be good if by doing this, the directory of that drive was printed. Anyhow moving right along the trash icon has one extra feature, that is, you can drag a disk drive to it. This in effect deletes all the files on that disk, great idea, I found this a very handy function.

If you don't like the icons provided with Neodesk, you can create new icons or modify existing ones with the icon editor supplied. The editor is not the words greatest however it does the job.

When you do open a window to see the files on a drive, you notice one small difference to the window, there is no horizontal slider bar. This is because all icons are drawn to fit within the size of the window you have specified. If the icons do not fit inside the window, they are scrolled off the bottom of the window. This allows you to clearly display your icons in windows that are placed side by side. There is also a '<<' sign in the bottom left hand corner of the window. Clicking on this will send that window to the back of any other windows that are displayed on the screen. This is the opposite of topping the window and makes it much easier to sort your windows.

A Neodesk control panel is also supplied on the disk and I found this to be much better than even the latest version of the standard control panel, with several other options such as testing your double click speed on a button, and tell it to display a corner clock on the screen, nice little touches.

Now to the menus.....

One point to mention with all the drop down menu items is that they are all doubled up on the keyboard, so if your mouse breaks down, you can still keep going. Under the NeoDesk menu is the usual 'whodunnit' dialog box, although this one does give

you some information amount the amount of free memory on your computer.

Under the FILE menu is the Open command which opens a window for the highlighted drive. This is followed by a Show Information option. This gives you a lot of information about your disk, such as, Volume name, no. of folders, no. of files, no. hidden files, no. of bytes in the hidden files, total of bytes that the disk is formatted to, no. of bytes in the files on the disk, no. of bytes free on the disk, no. of sides on the disk, total no. of sectors, tracks per side, sectors per track, and bytes per sector (pew!). There is more information than you need to know, but it is very handy to have it there. You also have the option to enter a new volume name, this is done in a special NeoDesk format, which allows up to 20 characters. This is then displayed at the bottom of the window when you open a drive. It is stored on the disk in the form of a hidden file. If you Show Information on a file, you get the file name which is editable, file size, and the date and time it was created. You can also toggle it between Read and Write, and Read Only. You also have the added option of being able to touch a file, that is, set it's date and time to now. This is very handy if you are a programmer that uses Make Files. You can change file names in several ways, in fact you can do multiple file renames.

If you Show Information on a folder you get, the folder name, the date created, no. of files, no. of folders, no. of hidden/system files, no. of bytes in hidden/sys files, and the total size of the folder. Also in this menu is the usual Close Window option which works the same way as the standard desktop, but there is also a Close Folder option which allows you to close any open folder. You can Create New Folder, and Format a Floppy. This is a much more comprehensive floppy format. You can select the no. of sides, no. of sectors, and no. of tracks per disk.

In the VIEW menu option you can show the files as icons or text, however if you display the files as text, you can change the size of the text, turn the date on or off, time on or off, and file size on or off. You can also have more than one column of files in the window if you wish, up to four! This allows you to display almost four times more as many files in the window than you can now! Great! There is also an Update Window option which is the same as hitting Escape.

In the SORT menu option you can sort by name, date, size or type. You can also turn the sort off. This will then display the files in the order that they were put on the disk. This is a VERY useful for users who wish to find out in what actual order their accessories or "autofolder" programs are being loaded. There is also a select template option the enables you to enter a template for the files that are being displayed in the current open window. In other words, only display >PRG files, or .DOC files, or all of the files on that disk starting with the letter 'A' etc.

In the OPTIONS menu the first option is, Install Desktop Icon. Unlike the standard desktop you dont need to highlight an icon to install a new one. You just simply type in its name, it's letter, and then drag the appropriate icon displayed in the dialog box, onto the desktop. You have the choice of floppy disk, hard disk, ram disk, printer, or trash can. The Install Application works the same way as the standard desktop. There is anew menu item called Edit

Environment, which is very usefull for programmers. The passes several environment strings to programs that are expecting them. 'C' programmers will recognise this: "PATH=C:\BIN" or "LIBRARY=A:\LIBRARY" etc. As a point of interest, this option is what prompted the author to write NeoDesk. In the Set Preferences option you can select whether the icon dragging mode is copy, move, or ask, which asks you which one at the time. You can confirm copies and deletes. A special option allows you to pause after a TOS or .TTP program has ended before returning to the desktop. This allows you to read the screen before it flashes off.

One of the down-falls of this program is the fact that when it is in use approximately 150K of memory is being used. However when you run a program it releases 125K of it so you only have 25k taken while you are running your program. This means that when you exit back to Neodesk it has to reload off disk the rest of the Neodesk program. This is a real hassle when you havea floppy disk system, however if you have a hard disk its not so bad. In the Set Preferences option, you can toggle the release memory option on or off. So when it runs your program it does'nt release the memory and consequently you have lost 150k of memeory instead of 25K. This is how I was running on my 1040 and I had no problems, however if you have a 520, it could pose a problem.

There are several other options in this option such as auto run, batch filing, and alternate NeoDesk paths. These are explained in more detail in the manual. There is also the usual Save Desktop option as well as a Print Screen option.

One of the really good features of NeoDesk is it's ability to have a standard .PRG icon dragged onto the desktop. This means all you favourite programs can reside on your desktop next to your drive icons, and you simply double click on them to run the program. This saves hunting through several folders on you hard disk to find the program. You can also display any file on the screen, whether it be a text file or program file, and you can control it from the mouse. In fact it has two different scroll modes for you to look at the text.

You can also send several data files to a program file when you run it. For example if you want to run Tempus and edit four 'C' source files. You simply highlight the four data files in the usual way and then hold down the shift button when you double click on Tempus. This will then pass the names of the four files to Tempus and Tempus will then automatically load them.

Conclusion

NeoDesk has several other features such as batch files, high speed file rename and copy, improved rubber band box, and more. This review, however should give you a good idea on the versatility of this program. My only complaint is it's 150K memory re-load, although I can't think of any other way of doing it. I highly recommend it as it has all the 'nice touches' that the standard desktop is missing. If you buy it you won't be disappointed.

My trouble is that I like blondes with beautiful eyes!!

Steve Quartly for Paragon Report



ATARI ST software and hardware

PROGRAM	CATEGORY	PRICE	PROGRAM	CATEGORY	PRICE
1943 The battle of midway	Entertainment	\$69.95	Circuit maker	Utility	\$119.95
220 St	Communications	\$79.95	Colonial conquest	Entertainment	\$69.95
3D galaxian	Entertainment	\$49.99	Colour converter	Utility	\$49.95
3D graphics programming	Programming	\$30.00	Copyist	Midi	\$375.00
A calc prime	Spread sheet	\$69.95	Colosus Chess X	Entertainment	\$75.00
A chart	Business	\$64.95	Corruption	Adventure	\$69.95
Ab animator	Graphics	\$39.95	Cosmic Pilot	Entertainment	\$Call
AB zoo	Educational	\$59.95	Craifix clipart disk 1	Desktop publishing	\$19.95
Academy	Entertainment	\$69.95	Craifix clipart disk 2	Desktop Publishing	\$19.95
Add with oscar	Educational	\$39.95	Craifix clipart disk 3	Desktop Publishing	\$19.95
Addicta ball	Entertainment	\$29.95	Craifix clipart disk 4	Desktop Publishing	\$19.95
Aegis animator	Graphics	\$179.95	Craifix clipart disk 5	Desktop Publishing	\$19.95
After burner	Entertainment	\$59.95	Craifix clipart super disk 1	Desktop Publishing	\$69.95
Airball construction kit	Entertainment	\$47.99	Crash garrett	Entertainment	\$65.95
Aladin	Emulators	\$499.00	Creator	Graphics	\$39.00
Algebra 1	Educational	\$59.95	Critic Bar code plus	Business	\$399.00
Algebra 2 vol 1	Educational	\$49.95	Crystal	Utility	\$59.95
Algebra 2 vol 2	Educational	\$49.95	Cyber control	Cad	\$105.99
Algebra 3 vol 1	Educational	\$49.95	Cyber paint	Design	\$158.99
Algebra vol 1	Educational	\$49.95	Cyber Sculpt	Design	\$169.00
Alien syndrome	Entertainment	\$69.95	Cyber Texture	Design	\$99.00
Amazon	Adventure	\$98.99	Cyber VCR	Utility	\$99.95
America cooks chinese	Cooking	\$34.99	Cz android	Editor	\$168.99
American pool	Entertainment	\$39.95	D.thompson's olympic challenge	Entertainment	\$59.95
Analyze	Spread sheet	\$119.00	Dark castle	Adventure	\$69.95
Annals of rome	Entertainment	\$69.95	Data manager	Database	\$149.00
Arcade force four	Entertainment	\$79.95	Datamap collection 1	Educational	\$49.99
Arctic fox	Entertainment	\$29.95	Decimal dungeon	Educational	\$49.95
Arkanoid	Entertainment	\$59.95	Deep space	Entertainment	\$76.99
Armageddon	Entertainment	\$79.95	Defender of the crown	Adventure	\$74.00
Around the world in 80 days	Entertainment	\$69.95	Deflektor	Entertainment	\$59.95
Artura	Entertainment	\$49.95	Degas elite	Graphics	\$84.95
Assempro	Language	\$119.00	Desktop publisher timeworks	Desktop publishing	\$249.00
Athena ii cad	Cad	\$199.00	Devpac st	Language	\$109.00
Award maker plus	Utility	\$64.95	Diamond mike	Adventure	\$49.95
Bad cat	Entertainment	\$59.95	Disk drives inside and out	Abacus book	\$30.00
Balance of power	Entertainment	\$66.99	Dizzy wizard	Entertainment	\$59.95
Bar Code Plus	Business	CALL	Dr t's kcs	Midi	\$399.00
Barbarian	Adventure	\$69.95	Dr ts 4- op delux	Midi	\$229.95
Barbarian 2	Adventure	\$69.95	Dr ts dx7 heaven editor	Midi	\$229.95
Battle ships	Entertainment	\$39.95	Dr ts roland mt-32 editor	Midi	\$229.95
Bbs michtron	Utility	\$99.95	Dungeon master	Adventure	\$69.95
Best	Business	\$665.00	Dungeon master hint book	Adventure	\$18.95
Better dead than alien	Entertainment	\$46.99	E-z calc	Spreadsheet	\$99.95
Beyond the ice palace	Entertainment	\$59.95	Eagles nest	Entertainment	\$57.99
Biology vol 1	Educational	\$49.95	Easy draw 2	Graphics	\$156.99
Biology vol 2	Educational	\$49.95	Easy record	Utility	\$79.00
Biology vol 3	Educational	\$49.95	Eco	Entertainment	\$57.99
Biology vol 4	Educational	\$49.95	Educational graphics	Desk top publishing	\$49.95
Bionic commando	Entertainment	\$66.99	Elevator	Adventure	\$59.95
Black lamp	Entertainment	\$50.99	Elf	Entertainment	\$59.95
Blue war	Entertainment	\$64.95	Eliminator	Entertainment	\$49.95
Bob winner	Entertainment	\$59.95	Elite	Entertainment	\$59.95
Bobo	Entertainment	\$65.95	Empire strikes back	Entertainment	\$69.95
Bolo	Entertainment	\$59.95	Equation Builder	Educational	\$19.95
Bomb jack	Entertainment	\$59.95	Exolon	Entertainment	\$59.95
Boulder dash construction kit	Entertainment	\$39.95	Extensor	Entertainment	\$39.95
Brain box	Entertainment	\$59.95	Extravaganza	Entertainment	\$46.00
Buggy boy	Entertainment	\$49.95	Eye	Entertainment	\$36.99
C Lab Creator	Midi	CALL	F15 strike eagle	Entertainment	\$69.95
C Lab Notator	Midi	CALL	F16 Falcon	Entertainment	\$59.95
C.o.l.r. object editor	Graphics	\$75.00	F16 Combat Pilot	Entertainment	\$Call
Calamus	Desktop Publishing	CALL	Fast asm	Language	\$54.95
Cad 3d 2.0 (1 meg)	Cad	\$180.00	Financial cookbook	Utility	\$29.95
Cad 3d architectural design	Cad	\$69.95	Fire blaster	Entertainment	\$29.95
Cad 3d font package	Cad	\$49.95	First shapes	Educational	\$49.95
Cad 3d fonts 2	Cad	\$49.95	First word plus version 3	Word processing	\$187.99
Cad 3d future design disk	Cad	\$64.95	Five star	Entertainment	\$79.95
Cad 3d human design disk	Cad	\$69.95	Flash	Communications	\$47.99
Captain blood	Entertainment	\$79.99	Flash cache	Utility	\$79.95
Cartoon design disk	Utility	\$49.95	Fleet st publisher slm804 dr	Desktop publishing	\$69.95
Catch 23	Entertainment	\$52.99	Fleet st publisher. ps driver	Desktop publishing	\$59.95
Championship water skiing	Entertainment	\$69.95	Fleet street publisher	Desktop publishing	\$250.00
Chemistry vol 1	Educational	\$49.95	Flight simulator 2	Entertainment	\$95.99
Chemistry vol 2	Educational	\$49.95	Flight simulator scenery 11	Flight simulator	\$69.95
Chessmaster 2000	Entertainment	\$59.95	Flight simulator scenery 14	Flight simulation	\$69.95
Chrono quest	Entertainment	\$89.95	Flight simulator scenery 7	Flight simulator	\$69.95
Chubby gristle	Entertainment	\$59.95	Flight simulator scenery japan	Flight simulator	\$69.95



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PROGRAM	CATEGORY	PRICE	PROGRAM	CATEGORY	PRICE
Flintstones	Entertainment	\$35.99	K seka	Language	\$129.95
Flippit	Entertainment	\$39.95	K spread 2	Spread sheet	\$164.99
Fontz	Utility	\$89.95	K switch 2	Utility	\$79.95
Football fortunes	Entertainment	\$59.99	K word 2	Word processing	\$134.99
Football manager	Entertainment	\$29.95	Karting	Entertainment	\$29.95
Football manager 2	Entertainment	\$59.95	Kidtalk	Educational	\$49.00
Formula 1 grand prix	Entertainment	\$65.00	Kings quest	Adventure	\$64.99
Forth/mt	Language	\$139.95	Kings quest 3 hint book	Adventure	\$12.95
Fraction action	Educational	\$49.95	Kings quest hint book	Adventure	\$12.95
Frost byte	Entertainment	\$64.95	Kings quest II	Adventure	\$59.99
Galdregons Domain	Entertainment	\$59.95	Kings quest III	Adventure	\$64.99
Garfield	Entertainment	\$69.95	Knight orc	Adventure	\$59.95
Gato	Entertainment	\$95.00	Knightmare	Adventure	\$59.95
Gauntlet 2	Entertainment	\$65.99	Label maker	Utility	\$69.95
Gem programmers reference	Language	\$30.00	Lancelot	Adventure	\$59.95
Genesis	Cad	\$98.99	Lands of havoc	Adventure	\$59.99
Geometry vol 1	Educational	\$49.95	Laser C	Language	\$249.00
Geometry vol 2	Educational	\$49.95	LDW power spreadsheet	Spreadsheet	\$260.00
Get dexter 2	Entertainment	\$39.95	Leaderboard	Entertainment	\$47.99
Gfa artist	Design	\$104.99	Leaderboard tournament disk 1	Entertainment	\$37.99
Gfa basic	Language	\$109.95	Legend of the sword	Adventure	\$59.95
Gfa basic compiler	Language	\$109.95	Leisure suit larry	Adventure	\$69.95
Gfa basic programming	Language	\$69.95	Leisure suit larry 2	Adventure	\$69.95
Gfa basic version 3	Language	\$139.00	Leisure suit larry hint book	Adventure	\$12.95
Gfa draft	Cad	\$199.00	Linkword (french)	Educational	\$69.95
Gfa draft plus	Cad	\$249.00	Livingstone	Entertainment	\$49.95
Gfa vector	Graphics	\$89.00	Logo user's guide	Language	\$30.00
Ghost Busters	Entertainment	\$Call	Lombard Rally	Entertainment	\$59.95
Gold runner	Entertainment	\$67.99	Lords of conquest	Entertainment	\$29.95
Golden path	Adventure	\$45.00	Luxor	Entertainment	\$69.95
Goldrunner 2	Entertainment	\$69.95	M cache	Accessory	\$69.95
Goldrunner 2 scenery disk	Utility	\$49.95	M.b teaches typing	Educational	\$77.99
Goldrush	Entertainment	\$Call	Mach 3	Entertainment	\$59.95
Gone fish'n	Entertainment	\$46.99	Machine language	Language	\$30.00
Graphics and sound	Graphics	\$30.00	Macro mouse	Utility	\$59.00
Graphicsheet	Spread sheet	\$99.00	Mafdet	Adventure	\$69.95
Great battles	Entertainment	\$49.99	Magic disk toolkit	Utility	\$89.95
Great giana sisters	Entertainment	\$49.95	Magical Anagrams	Educational	\$19.95
Guild of thieves	Adventure	\$74.00	Magical Math 1	Educational	\$19.95
Haba com	Communications	\$29.99	Magical Math 2	Educational	\$19.95
Haba view	Database	\$22.99	Magical Math 3	Educational	\$19.95
Haba writer	Word processing	\$22.99	Memory Master	Educational	\$19.95
Haba writer+ merge and spell	Word processing	\$99.95	Memory Master 2	Educational	\$19.95
Hades nebula	Entertainment	\$59.95	Man hunter	Adventure	\$59.95
Handy scanner	Utility	\$499.00	Maps and legends	Educational	\$69.95
Hard disk accelerator	Utility	\$69.95	Mark williams c	Language	\$264.99
Hard disk backup	Utility	\$75.00	Mark williams csd	Language	\$145.00
Hard disk tool kit	Utility	\$69.95	Masters of the universe	Entertainment	\$69.95
Helpmate	Utility	\$39.95	Math wizard	Educational	\$69.95
Home publisher	Desktop publishing	\$89.95	Mathtalk	Educational	\$49.95
Hostages	Entertainment	\$64.95	Menace	Entertainment	\$59.95
Hot shot	Entertainment	\$69.95	Metrocross	Entertainment	\$59.00
Hunt for red october	Entertainment	\$69.95	Mi term	Communications	\$79.95
I ball	Entertainment	\$34.95	Miami mice	Entertainment	\$39.95
Ikari warriors	Entertainment	\$49.95	Michtron bbs v 2.1	Utility	\$109.95
Img scan	Utility	\$179.00	Michtron cards	Entertainment	\$49.95
Impact	Entertainment	\$39.95	Mickey mouse	Entertainment	\$59.95
Impossible mission	Adventure	\$59.95	Micro league wrestling	Entertainment	\$59.95
Interlink st	Communications	\$69.95	Micro rtx	Utility	\$149.95
Internals	Abacus disc	\$30.00	Microbot	CAD 3D2 Utility	\$59.00
Introduction to midi program	Midi	\$30.00	Microsoft write	Word processing	\$199.00
Invasion	Education	\$59.95	Mind fighter	Adventure	\$79.95
Inventory master	Business	\$169.99	Mindshadow	Adventure	\$57.99
Is talk	Communications	\$89.95	Mini comm	Communications	\$99.95
Jackfont	Graphics	\$124.00	Mission genocide	Entertainment	\$34.95
Jet	Entertainment	\$79.95	Mono converter	Utility	\$49.95
Jinxter	Adventure	\$57.99	Mortville manor	Entertainment	\$67.99
Joe blade	Entertainment	\$29.95	Music construction set	Midi	\$49.95
Joust	Entertainment	\$69.00	Music studio	Midi	\$89.95
Juggler	Utility	\$69.95	Nebulas	Entertainment	\$49.95
Jump jet	Entertainment	\$32.99	Netherworld	Entertainment	\$59.95
Jupiter probe	Entertainment	\$50.00	New technology coloring book	Graphics	\$51.99
K minstrel	Midi	\$64.99	Night raider	Entertainment	\$69.95
K ram	Utility	\$49.95	North star	Entertainment	\$69.95
K resource	Utility	\$89.95	Not a penny more	Adventure	\$54.95
K rhymes	Word processing	\$59.95	Obliterator	Entertainment	\$69.95
K rikki	Graphics	\$49.95	Ocp art studio	Graphics	\$75.99
K roget	Word processing	\$119.00	Ogre	Entertainment	\$67.99



ATARI ST software and hardware

PROGRAM	CATEGORY	PRICE	PROGRAM	CATEGORY	PRICE
Oids	Entertainment	\$69.95	Sapiens	Entertainment	\$59.95
Oo topos	Adventure	\$34.95	Saved	Utility	\$69.95
Operation Wolf	Entertainment	\$Call	Scrabble	Entertainment	\$59.95
Outcast	Entertainment	\$37.99	Scruples	Entertainment	\$59.95
Overlander	Entertainment	\$69.95	Seconds out	Entertainment	\$59.95
Pac mania	Entertainment	\$59.95	Sentinel	Entertainment	\$52.00
Page Stream	Desktop Publishing	\$299.00	Shackled	Entertainment	\$69.95
Page Stream Junior	Desktop Publishing	\$149.00	Shadowgate	Adventure	\$79.95
Page Stream clip art 1	Desktop Publishing	\$35.00	Shortcut	Accessory	\$79.95
Page Stream clip art 2	Desktop Publishing	\$35.00	Side arms	Entertainment	\$69.95
Page Stream clip art 3	Desktop Publishing	\$35.00	Signum 2	Word processing	\$499.00
Page Stream clip art 4	Desktop Publishing	\$35.00	Sky blaster	Entertainment	\$45.99
Page Stream clip art 6	Desktop publishing	\$35.00	Sky fighter	Entertainment	\$39.95
Page Stream font disk 0	Desktop publishing	\$35.00	Sky fox	Entertainment	\$46.95
Page Stream font disk 1	Desktop publishing	\$35.00	Sky plot	Educational	\$145.00
Page Stream font disk 2	Desktop publishing	\$35.00	Slap fight	Entertainment	\$57.99
Page Stream font disk 3	Desktop Publishing	\$35.00	Soccer	Entertainment	\$69.95
Page Stream font disk 4	Desktop publishing	\$35.00	Solomons key	Entertainment	\$69.95
Page Stream font disk 5	Desktop publishing	\$35.00	Space ace	Entertainment	\$69.95
Page Stream font disk 6	Desktop publishing	\$35.00	Space harrier	Entertainment	\$69.95
Pandora	Entertainment	\$52.95	Space pilot	Entertainment	\$49.95
Partner st	Utility	\$139.95	Space port	Entertainment	\$49.95
Pascal	Language	\$219.95	Space quest	Adventure	\$54.95
Pawn	Adventure	\$79.95	Space quest hint books	Hint book	\$12.95
Pc. ditto	Emulators	\$169.00	Space quest II	Adventure	\$54.95
Peeks and pokes	Utility	\$30.00	Space station	Entertainment	\$29.95
Personal pascal	Language	\$147.99	Spectrum 512	Design	\$114.99
Phantasie 3	Adventure	\$49.95	Speedball	Entertainment	\$59.95
Phasar	Accounts	\$124.95	Spell book	Educational	\$49.95
Physics	Educational	\$49.95	Spell with oscar	Educational	\$39.95
Physics voll	Educational	\$49.95	Speller bee	Educational	\$49.00
Picstrip	Utility	\$19.95	Spelling Bee	Educational	\$19.95
Pinball factory	Entertainment	\$59.95	Spy v spy	Entertainment	\$79.95
Pink panther	Entertainment	\$69.95	St basic to c	Language	\$30.00
Planetarium	Educational	\$79.95	St doctor	Utility	\$54.95
Platoon	Entertainment	\$69.95	St karate	Entertainment	\$25.99
Pm interface	Utility	\$59.95	St music box	Midi	\$79.95
Police quest	Adventure	\$45.99	St protector	Entertainment	\$25.99
Police Quest Hint Book	Hint Book	\$12.95	St replay	Digitising	\$299.00
Power Basic	Language	\$139.00	STAC	Adventure utility	\$79.95
Powerdrome	Entertainment	\$59.95	STAD	Computer Design	CALL
Pre school kidprogs	Educational	\$59.95	Star glider 2	Entertainment	\$69.95
Predator	Entertainment	\$59.95	Star raiders	Entertainment	\$49.95
Printmaster	Desktop publishing	\$67.99	Star struck	Utility	\$59.99
Printmaster art gallery 1	Graphics	\$59.95	Star wars	Entertainment	\$55.99
Printmaster art gallery 2	Graphics	\$59.95	Starglider	Entertainment	\$65.99
Pro 24	Midi	\$599.95	Starquake	Entertainment	\$49.95
Pro copy	Utility	\$57.99	Statistics vol 1	Educational	\$49.95
Pro fortran	Language	\$295.00	Stellar crusade	Entertainment	\$49.95
Pro light	Midi	\$69.95	Stock market	Entertainment	\$69.95
Pro midi	Midi	\$69.95	STOS	Utility	\$89.00
Pro sprite designer	Design	\$69.95	Street fighter	Entertainment	\$69.95
Prosound digitizer	Utility	\$199.99	Street gang	Entertainment	\$65.99
Protext	Word processing	\$180.00	Strike force harrier	Entertainment	\$55.99
Protext filer	Utility	\$79.95	Strip poker 2	Entertainment	\$44.95
Protext office	Utility	\$89.95	Strip poker 2 data disk	Entertainment	\$49.95
Purple Saturn	Entertainment	\$Call	Strip poker 2 plus data disk	Entertainment	\$39.95
Quadralien	Entertainment	\$69.95	Stuff	Utility	\$53.99
Quantum paintbox	Design	\$69.95	Summer olympiad	Entertainment	\$69.95
Questron 2	Adventure	\$59.95	Sundog	Adventure	\$84.99
Quick list plus	Utility	\$19.95	Super cycle	Entertainment	\$44.99
Quizam	Entertainment	\$89.95	Super hang on	Entertainment	\$69.95
R-type	Entertainment	\$69.95	Super sprint	Entertainment	\$43.99
R.a.i.d	Utility	\$69.95	Superbase personal	Database	\$199.00
Rambo III	Entertainment	\$59.95	Superbase professional	Database	\$399.00
Red alert	Entertainment	\$39.99	Swiftcalc	Spread sheet	\$149.00
Return to genesis	Entertainment	\$59.95	Tai pan	Entertainment	\$44.99
Revenge of doh	Entertainment	\$59.95	Tangle wood	Adventure	\$69.95
Revolver	Utility	\$79.95	Tass times in tone town	Adventure	\$65.99
Rings of zilfin	Adventure	\$67.99	Tau ceti	Entertainment	\$69.95
Road runner	Entertainment	\$69.95	Teachers pet	Educational	\$45.95
Roadwar 2000	Entertainment	\$59.95	Techno Cop	Entertainment	\$49.95
Roadwar europa	Entertainment	\$55.99	Tempus	Word processing	\$89.95
Rockford	Entertainment	\$49.95	Terramex	Entertainment	\$64.99
Rolling thunder	Entertainment	\$54.99	Terrorpods	Entertainment	\$65.99
Rugby league boss	Entertainment	\$69.95	Test drive	Entertainment	\$55.99
S.D.I	Adventure	\$69.95	Tetris	Entertainment	\$59.99
Sales pro plus	Accounts	\$299.00	Thrust	Entertainment	\$34.95