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# The Paragon Report

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*PARAGON COMPUTER'S* free Publication  
with Information News and Views  
for ALL ATARI users  
**February 1991**

Compiled, Published and supplied by  
**PARAGON COMPUTERS**  
Shop 17A. / 5 Short Street  
Perth. Western Australia. 6000  
Phone (09) 221 3216  
Fax (09) 325 8251  
BBS (09) 325 5160



## That's A Mouse Alternative ST/Amiga Mouse

### Features:

- \* Super 290 dpi resolution.
- \* Plug in and go - no extra software or cabling required
- \* Quality manufacture - each That's a mouse is factory tested and carries a 12 month warranty.
- \* Supremely ergonomic design.
- \* Micro Switch Buttons - give a light, easy and accurate click.
- \* High Quality Ball runs smoothly on most surfaces.
- \* Durable - made from non-slip, toughened plastic.
- \* Minimal maintainance - incorporates a self cleaning system.
- \* Long Cable - for left handed mouse users.
- \* Easily switchable for Atari ST or Amiga.

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## AT SPEED 286 AT IBM Emulation for the Atari ST

### Screen Emulation

AT SPEED will emulate a number of the standard PC graphics display modes. These include

- \* CGA Mono (Screen resolution 640 x 200)
- \* CGA Colour (Screen resolution 320 x 200)
- \* Hercules (Screen resolution 720 x 350)
- \* Olivetti (Screen resolution 640 x 400) \*EGA (Screen resolution 640 x 350) \*VGA (Screen resolution 640 x 480)

**Note:-** When using an Atari ST in medium resolution on colour monitor only colour CGA emulation is available.

### Floppy Disk

AT SPEED allows access to an internal floppy disk drive as either a 360k single sided or a 720k double sided drive. Additionally a second double sided drive can be accessed as drive B:

### Hard Disk

AT SPEED will support most hard disk drives which are Atari AHDI 3 compatible. Individual partitions can be accessed up to 32MB in size with up to 24 hard disk partitions. DOS can be installed to auto-boot from the hard disk.

### Mouse Support

AT SPEED supports mice attached to the ST's mouse port and standard serial PC mice. Both the ST mouse and PC compatible serial mouse are configured using AT SPEED software.

### Hardware Support

AT SPEED gives 640k of free DOS memory on an ST with at least 1MB of RAM. Additional memory can be accessed as Extended Memory.

### Printer Support

AT SPEED can print through the standard ST parallel port as well as print to the Atari SLM804 Laser printer when configured as a Diablo compatible printer.

### Clock Support

AT SPEED system software automatically transfers the time set under TOS to DOS.

### Packaging

AT SPEED package includes, AT SPEED board, PC System disk, 60 page manual including detailed fitting instructions and a section introducing DOS, IC sockets to connect the AT SPEED to an ST or Mega ST, registration card.

### Optional Extras

STE adaptor which allows AT SPEED to be fitted to an STE - no soldering required. Speed Bridge which eliminates the need to solder AT SPEED to a Mega ST.

### System Requirements

Any Atari ST, a colour monitor or monochrome monitor, DOS 2.0 or higher. A double sided internal or external disk drive is recommended. Note: When using an Atari ST in medium resolution on colour monitor only colour CGA emulation is available.

Most specifications of AT SPEED also apply to PC SPEED except where printed below.

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## PC SPEED XT IBM Emulation for the Atari ST

### Screen Emulation

PC SPEED will emulate a number of the standard PC graphics display modes. These include

- \* CGA Mono (Screen resolution 640 x 200)
- \* CGA Colour (Screen resolution 320 x 200)
- \* Hercules (Screen resolution 720 x 350)
- \* Olivetti (Screen resolution 640 x 400)

**Note:-** When using an Atari ST in medium resolution on colour monitor only colour CGA emulation is available.



# Paragon Computers Atari ST Software



220 St	79.95	Clip Art Disk 4	35.00
Ab Animator	39.95	Club Backgammon	39.00
Abacus Intro To Midi	39.00	Codehead Utilities	44.99
Abacus Logo Users Guide	24.95	Combo Racer	54.95
Abacus Peeks & Pokes Disk	30.00	Compute Your Roots	69.95
Accolade Favourites	69.00	Conqueror	49.00
Action Service	49.00	Cornerman	9.95
Advantage Pack	99.00	Corporation	59.00
Aegis Animator	89.95	Craifix Clip Art 1	19.95
Aladin V3	570.00	Craifix Clip Art 3	19.95
American Dreams Compilation	69.00	Craifix Clip Art 4	19.95
Alsops Fables	69.95	Craifix Clip Art 5	19.95
Animal Kingdom	59.95	Craifix Super Disk	69.95
Arabian Nights	69.95	Crash Garrett	24.95
Archipelagos	49.00	Creator	39.00
Architectural Design	49.00	Critic Bar Code Plus	399.00
Arena	34.99	Crystal	59.95
Armada	64.95	Cyber Studio	179.00
Asteriods	14.95	Cyber Texture	99.00
Atari Laser Driver Fs	69.95	Cyberball	49.95
ATF II	59.00	Damocles	49.00
Atlas	59.95	Dan Dare 3	54.95
Atomic Robokid	59.00	Data Map Collection 1	49.00
Australian Car Rally	39.00	Datamap Collection	29.95
Back To The Future 2	59.00	Datamap Collection 2	49.00
Backgammon	29.00	Db Man V5 Compiler	134.00
Bad Land Pete	49.00	Dbman Version 5	399.00
Band In Box	129.50	Decimal Dungeon	59.95
Bards Tale 2 Amiga	29.00	Defender 2	49.00
Battle Chess	54.95	Defenders Of The Earth	54.95
Battle Command	59.00	Degas Elite	64.95
Battle Hawks	59.50	Deluxe Paint	129.00
Battle Zone	14.95	Demons Tomb	59.95
Bcpl Metacomco	69.95	Dick Tracey	59.00
Bently Bear Educational	24.95	Double Dragon II	49.00
Best Accounting	495.00	Downhill Challenge	49.00
Better Maths	49.95	Dr T Dr Drums	29.00
Better Maths (12-16)	54.95	Dragon Flight	59.00
Bio Challenge	49.00	Dragon Ninja	59.95
Black Tiger	54.95	Dragon Scape	49.00
Blue Angel	59.95	Dragons Lair	89.00
Blue Lighting	39.95	Drakken	64.95
Bolo	59.95	Driller	39.00
Borodino	29.00	Dtp At A Glance Book	25.00
Boulderdash	19.95	Dungeon Master	59.00
Breach 2	54.95	E Type	89.95
Cadaver	59.00	Easy Record	49.00
Calamus	445.00	Educational Graphics	49.95
Calamus Outline Art	395.00	Electro Spell	54.00
Captain Blood	39.00	Electrocop Lynx	39.95
Captive	69.00	Escape Robot Monsters	49.95
Cartoon Design	49.00	Extensor Special	29.95
Centrefold Squares	49.95	Ez Track Plus	199.00
Certificate Maker	49.00	F16 Falcon	64.95
Certificate Library	39.00	F16 Falcon Mission Disk 2	49.95
Chaos Strikes Back	64.95	F19 Stealth Fighter	74.95
Chaos Strikes Back Editor	39.95	F29 Retaliator	64.95
Challenger Compilation	69.00	Fallen Angel	49.00
Chariots Of Wrath	49.00	Feindish Freddy	59.00
Chart Pack	69.00	Fighter Bomber	64.95
Chase HQ 2	59.00	Final Conflict	59.00
Chess Champions 2175	69.95	Finale Compilation	69.00
Chips Challenge Lynx	39.95	Fire And Brimstone	54.95
Chronicles of Omega	49.00	Fire And Forget 2	59.00
Chuck Yeagers	59.00	Fire Blaster	14.95
Clean Streets	49.00	First Letters And Words	54.95



# Paragon Computers Atari ST Software



Flair Paint	84.95	Iron Trackers	49.95
Fleet St Atari Laser Driv	69.95	IS Digitiser	39.95
Fleet St Drivers P/S	69.95	Jack Font	29.95
Flight Simulator 2	69.95	James Pond	59.00
Flimbos Quest	59.00	Joystick Lightning Compilation	69.00
Fm Melody Maker	199.00	Jumpin Jackson	54.95
Font Disk 2	35.00	K Comm 2	106.95
Font Disk 5	35.00	K Expert	179.95
Football Man 2 Exp Kit	29.95	K Graph 3	106.95
Football Man World Cup	49.95	K Resource	89.95
Forgotten Worlds	39.00	K Resource 2	89.95
Fraction Action	59.95	K Rhymes	59.95
Fun School 2 (8+)	54.95	K Rikki	59.95
Fun School 2 (Under 6)	54.95	K Spread 3	199.95
Fun School 3 (5-7)	59.50	K Switch	59.95
Fun School 3 (Under 5)	59.50	Karateka	49.00
Funface	79.95	Kcomm	3.95
Future Design	49.00	Kick Off 2	49.00
Futuresports	29.95	Kidpainter	39.95
G+Plus	46.99	Kidpublisher Professional	39.95
Gates Of Zendocon Lynx	39.95	Kinderama	59.95
Gazzas Super Soccer	54.95	King Quest 1 Hint Book	19.95
Genpatch St	239.95	Kings Quest 1	39.95
Gettysburg	59.00	Kings Quest 2	39.95
Gfa Artist	89.95	Kings Quest 2 Hint Book	19.95
Gfa Basic 3 Compiler	89.95	Kings Quest 3	39.95
Gfa Basic Companion	69.95	Kings Quest 3 Hint Book	19.95
Gfa Basic V3	149.00	Kings Quest 4	59.00
Gfa Draft 3.13	295.00	Kings Quest Triple Pack	79.95
Gfa Draft Plus	159.00	Krystal	59.00
Gfa Gem Utility Package	69.95	Kult	49.00
Gfa Mission Control	69.95	Laser C	299.00
Ghosts And Goblins	49.95	Laser C Db	149.00
Gold Of The Americas	54.95	Laser Squad	54.00
Gold of the Aztecs	59.00	Last Dual	39.00
Gold Rush	49.00	Ldw Power	245.00
Gold Rush Hint Book	14.50	Legend of the Sword	59.00
Golden Axe	59.00	Leisure Suit Larry 2	54.95
Goldrunner 2 Scenery	49.95	Leisure Suit Larry 3	59.00
Graph Maker	79.95	Lemonade	45.00
Gravity	64.95	Lets Spell At The Shops	54.95
Great Battles	33.00	Light Corridor	59.00
Gunship	59.95	Line of Fire	59.00
Haba Com	24.95	Loom	69.00
Hard Drivin	49.00	Lost Patrol	59.00
Harlekin	124.00	M Cache	69.95
Harley Davidson Sturges	59.95	M1 Tank Platoon	59.00
Heavy Metal	54.95	Machine Language Disk	30.00
Hi Soft Lattice C	370.00	Macro Mouse	49.00
Highway Patrol	54.95	Magic Maths	54.95
Hisoft C Interpreter	109.95	Magical Myths	69.95
Hisoft Devac V2	129.95	Man Hunter 2	59.95
Hisoft Knife St	64.95	Manchester United	49.00
Hisoft Power Basic	109.95	Manhunter San Fransisco	59.95
Hisoft Wercs	64.95	Maps And Legends	69.00
Hit Machine Compilation	69.00	Marble Madness	19.95
Hollywood Collection Compilation	69.00	Math Talk	25.00
Hot Rod	29.95	Mathtalk	54.95
Hot Wire	52.99	Mavis Beacon Typing	69.00
Human Design Disk	55.00	Maxifile	39.99
I.S Talk	89.95	Mean Streets	59.00
Immortal	59.00	Merak The Video	39.95
Indiana Jones Last Crusade	59.00	Mi Term	49.00
Interior Design Disk	59.00	Microsoft Write	199.00
International 3D Tennis	59.00	Midi Play Deluxe	169.00
Inventory Master	139.00	Midi Studio	219.00



# Paragon Computers Atari ST Software



Midimax	64.99	Raffles	44.00
Midwinter	69.95	Read And Rymes	59.95
Mindscape Collection	64.95	Readerama	69.95
Mini Comm	69.95	Religious Clip Art	29.95
Missile Command	14.95	Rings Of Medusa	59.95
Modula 2 Tdi	29.95	Risk	49.95
Monty Python	59.00	Road Wars	49.00
Moon Base	14.95	Rorks Drift	59.00
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Mr Doo Run Run	39.95	S.D.I.	49.00
Multi Desk	44.99	Saint And Greavsie	19.95
Murders in Space	59.00	Sales Pro Plus	299.00
Music Studio	99.95	Saved	49.00
Music Studio 88	109.95	Scenery Disk 11	69.95
Narco Police	59.00	Scenery Disk 7	69.95
Navigator	99.00	Scenery Disk Japan	29.95
Neo Desk 3.0	89.95	Script	189.00
Nine Lives	59.00	Sega Master Mix Compilation	69.00
Ninja Remix	59.00	Shadow Of The Beast	59.00
Ninja Spirit	59.95	Shadow Warriors	49.00
Ninja Warrior	54.95	Sherman M4	54.95
Nitro	59.00	Shinobi	54.95
Omnicon Conspiracy	59.00	Shipwreck	45.00
Operation Hormuz	39.00	Short Cut	29.95
Operation Neptune	49.00	Shufflepuck Cafe	54.95
Operation Stealth	59.00	Signum 2	345.00
Oriental Games	54.95	Silent Service	49.00
Overload	29.00	Sim City	54.95
P47 Thunderbolt	59.95	Sim City Hand Book	29.00
Pac-Mania	29.95	Simulcra	59.00
Page Stream	299.00	Sinbad	69.95
Page Stream Dm Fonts	79.00	Sir Fred Amiga	54.95
Partner St	99.00	Sketch	249.00
Pc Ditto	169.00	Sky Chase	49.00
Personal Pascal	169.95	Soccer Mania	59.00
Phantasie Ii	59.00	Solar System	69.95
Phasar	159.00	Space Harrier 2	49.95
Pinball Magic	49.00	Space Quest 1	59.00
Pipe Mania	49.00	Space Quest 2	54.95
Pirates	54.95	Space Quest 3	54.95
Planetarium	39.00	Space Quest 3 Hint Book	14.50
Police Quest	54.95	Space Racer	49.00
Police Quest 2	54.95	Space Rogue	59.00
Police Quest 2 Hint Book	14.50	Space Station	14.95
Police Quest Hint Book	14.95	Spectrum 512	114.99
Populous	59.00	Speedball 2	59.00
Postman	39.95	Spell Book (4-9)	54.95
Power Basic	139.00	Spell Bound	49.00
Power Boat	54.95	Spin Dizzy Worlds	59.00
Power Drift	49.00	Sporting Gold	69.00
Power Monger	59.00	Spy Who Loved Me	49.00
Power Pack Atari Compilation	99.00	ST Internals Disk	30.00
Premier Collection III Compilation	69.00	ST Music Box	79.95
Prince of Persia	59.00	ST Music Video	19.95
Pro Flight	114.00	ST Protector	14.95
Pro Light	69.95	ST Replay Professional	299.00
Pro Show Plus	59.00	STAC	79.00
Pro Sprite Designer	69.95	Star Blaze	49.00
Prof Looks For Words	54.95	Starglider 2	59.95
Prof Plays A New Game	69.95	Steiger	44.00
Progidy	299.00	STOS STE Version	79.00
Protexit St Version 4	149.95	STOS Compiler	49.00
Protexit Word Processor	149.95	Strider 2	59.00
Punisher	54.95	Stun Runner	59.00
R.A.I.D	69.95	Super Breakout	14.95
Rainbow Warrior	24.95	Super Cars	59.95



# Paragon Computers Atari ST Software



Super Hang On	49.00	<b>Atari ST Compilation Packs</b>	69.00
Super Kidgrid	39.95	<b>Consists of packages below</b>	
Superbase Personal 2	199.00	SuperSki	69.00
Superbase Prof V3	399.00	Hostages	
Supremacy	59.00	Operation Neptune	
Table Tennis	39.00	Bubble Ghost	
Team Yankee	64.00	Xenon	69.00
Teenage Mutant Hero Turtles	59.00	Silk Worm	
Tempus 2	119.00	Double Dragoon	
The Imortals	59.00	Gemini Wing	
The Navigator	69.00	Paper Boy	69.00
The Power Pack Compilation	69.00	Space Harrier	
The Spy who loved me	49.00	Overlander	
The Ultimate Ride	59.00	Ghosts and Goblins	
Theme Park Mystery	59.95	Frank Brunos Boxing	
Thier Finest Hour	69.00	Black Tiger	69.00
Things To Do With Numbers	54.95	Forgotten Worlds	
Things To Do With Words	54.95	Strider	
Time Machine	59.00	Ghouls and Ghosts	
Times Of Lore	59.00	Xenon 2 Megablast	69.00
TNT Compilation	69.00	TV Sports Football	
Total Recall	59.00	Lombard RAC Rally	
Tournament Golf Elite	59.00	Bloodwych	
Toyota Celica GT Rally	59.00	Test Drive	69.00
Tracker St	129.00	Mini Putt	
Trilogy	39.95	Hard Ball	
Trip A Tron	95.00	Apollo 18	
Turbo Cup Challenge	19.95	Archipelagos	69.00
Turbo ST	79.95	Cybermoid II	
TV Sports Football	59.95	Quadralian	
Tweety Board	94.95	Battleships	
Twist	99.95	Superwonderboy	69.00
Twlyte	19.95	Crackdown	
Ultima 5	69.00	Thunderblade	
Ultimate Golf	59.95	Turbo Outrun	
Ums Simulator	49.95	Dynamite Dux	
UN Squadron	59.00	Xybots	69.00
Universal Item Selector 3	39.00	APB	
Vaxine	59.00	Hard Driving	
Venus Fly Trap	49.00	Toobin	
Viking Child	54.95	Dragon Spirit	
Video Text	99.00	Turbo Outrun	69.00
Vidi Chrome	69.00	Hard Driving	
Wanted	49.00	Chase HQ	
War In Middle Earth	49.00	Powerdrift	
War Zone	14.95	Supercars	69.00
Western Scenery Disk Fs2	35.00	Skidz	
Wheels Of Fire Compilation	69.00	Switchblade	
Wicked	19.95	Axels Magic Hammer	
Wipe Out	49.95	Exolon	69.00
Word Master	69.95	Netherworld	
World Championship Soccer	49.00	Nebulus	
World Of Flight	199.00	Zynaps	
Wrangler	39.00		
Xenon 2	59.95		
Xenophobe Lynx S/Ware	38.00		
Xiphos	59.00		
Xor	14.95		
Yatch Race	45.00		
Zak Mckracken	59.00		
Zombie	54.95		



## Paragon Computers ST Hardware



Abacus Basic Training	39.00	Desk Jet Printer	1195.00
Abacus Machine Language	39.00	Ex 800 Printer 9Pin	975.00
Abacus Peeks And Pokes	39.00	Nx 1000CI Printer	449.00
Abacus Presenting Atarist	39.00	Panasonic 1124 Printer 24	650.00
Abacus ST Basic To C	39.00	Panasonic 1180 Printer	399.00
Abacus ST For Beginners	39.00	Slm 804 Laser Printer	2500.00
Abacus ST Internals	39.00	Sonica Monitor	130.00
Atari ST Book Blue	35.00	Star 24/10 Bin Feeder	199.00
Atari ST Book Subjects Red	35.00	Star Lc 24/10 Printer	599.00
Australian Atari Gazette	4.00	Star Lc10 Ii	399.00
Beginners Guide Book	39.00	1040 Ste	995.00
Computes St Applications	29.95	520 STE	795.00
Dbase 3 Tips & Tricks	34.95	520 STFM	595.00
Desktop Guide To DTP	29.95	Abc 286-30	2095.00
Disk Drives Inside & Out	49.00	Colibri & Ocr	1350.00
GEM Progamers Ref Book	39.00	Hawk Colibri Scanner	1295.00
GFA Book Basic 2 Adv Prog	29.95	Hawk Cp14 Scanner	3500.00
GFA Book Basic W/Disk	64.95	Keyboard Long Cable Mega	34.99
Helpful Hints For The ST	35.00	Lynx	225.00
Hint Book	14.50	Mega 2 Computer	1895.00
Kings Quest 3 Hint Book	12.95	Mega 4 Computer	2795.00
Kings Quest 4 Hint Book	14.95	Megafile 30	995.00
Kings Quest Hint Book	12.95	Megafile 44	1995.00
Leisure Suit Hint Book	12.95	Megafile 60 Hard Drive	1695.00
More ST Applications	39.95	Monitor Sm194 A3	3995.00
Police Quest Hint Book	12.95	Nec Multi Sync 2A Monitor	750.00
Portfolio Book	29.95	Pc3 Turbo Xt	975.00
Practical Logo	29.95	Pc3 With 30 Meg Hard Disk	1495.00
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Space Quest Hint Book	12.95	Portfolio	495.00
St Action	12.95	Sc1435 Stereo Monitor	495.00
St Action Inc Disk	14.95	Stacy 4Mb 40Mbhd	4995.00
St Artist Book	39.95	Microswitched ST Mouse	79.95
St Format Mag With Disk	14.95	ST Computer Covers	14.95
St Informer Mag	7.50	AT Speed	699.00
St User No Disk	8.95	PC Speed	329.00
St User With Disk	14.95	Atari ST 4 player joystick adaptor	19.95
St World	14.95	Atari ST to Philips 8533 monitor	23.95
The Larry Story Book	29.95	Atari ST to open end monitor	22.95
Word Perfect Book	45.00	Atari ST to Philips 8833 Mk2	25.95
Your Atari St Magazine	5.50	Atari STE to Philips 8833 Mk2	29.95
Bar Code Reader Canadian	699.00	Atari ST joystick mouse extension	24.95
Best Statements 500	89.95	Atari ST floppy drive cable	23.95
Computer Paper 2000	39.95	Atari STHard drive cable	29.95
Computer Paper 500 Sheets	18.95	Atari ST Hard drive extension cable	29.95
Computer Paper A4 2500Sht	55.00	Atari ST Null modem cable	22.95
Paper Coloured Photo Copy	15.95	Atari ST MIDI in/out cable	12.95
Paper White Paper	10.95	Atari ST RS232 modem cable	23.00
Ribbon Nx24/10	24.95	Atari ST Centronics printer cable	20.00
3.5 Disks Electronic Arts	19.00	Atari ST Joystick splitter	18.95
3.5 Inch Disks Plain	17.00	Atari ST Mouse extension cable	14.95
3.5 Nashua Disks	31.50		
3.5 Plain Disks	15.00	All Other Atari ST cables and plugs on request	
3D Graphics Progam Disk	30.00		
5.25 H/D Disks 1.6Meg	39.95	ST monitor plugs	
5.25 Plain Disks	10.00	ST monitor sockets	
Disks 3.5" 1.44 Hd Varbat	45.00	ST disk drive plugs	
Disks Skc 3.5	24.00	ST disk drive sockets	
Nashua 2Hd Disks	50.00	STE 3 & 4th joystick plugs	
Desk Jet 500	1349.00	Portfolio cables	

Should you wish to purchase software from the ST software 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: 

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expiry date: \_\_\_\_\_

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Post to:- PARAGON COMPUTERS  
17A. 5 Short Street  
PERTH.  
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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.







# Paragon Computers Atari ST Software Specials



Available only until stocks last



	Wicked	19.95	
	AB Animator	24.95	
	Battle Zone	14.95	
	Asteroids	14.95	
	Missile Command	14.95	
	ST Protector	14.95	
	Super Breakout	14.95	
	XOR	14.95	
	MoonBase	14.95	
	WarZone	14.95	
	FireBlaster	14.95	
	220 ST	55.00	
	Zombie	29.00	
	Pro Sprite Designer	49.00	
	BCPL Metacomco	49.00	
	Easy Record	49.00	
	M Cache	45.00	
	Mini Comm	69.95	
	Wipe Out	29.00	
	Flair Paint	49.00	
	Shufflepuck Cafe	29.00	
	Thats Fun Face	49.00	
	Twylyte	19.95	
	Missile Command	14.95	
	ST Protector	14.95	
	Vaxine	39.95	
	Bloodwych Data Disk	24.95	
	Escape from Robot Monsters	33.00	
	M Copy	19.95	
	Jack Font	15.95	
	TDI Mudula 2 Developers kit	29.95	
	Hard Drivin	39.00	
	Blue Angel 69	39.00	
	Breach 2	33.00	
	Wanted	39.00	
	Star Blaze	39.00	
	E Type (ST Typewriter)	49.00	
	Microsoft Write	79.95	
	High Jack	9.95	

## Welcome to the eleventh edition 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 Mega4. Megafile 44 hard drive. SLM804 laser printer, QMS Postscript Laser printer, Hawk 432 Scanner, Augur OCR, Migraph scanner, PageStream, Calamus, Lantech Network system 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 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 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. 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 (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.

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.

Paragon Computers also offer a 300 dpi Post Script Laser printing service or up to 2400 dpi Imagesetter service for Atari ST, IBM Compatible and Apple Macintosh computers along with scanning (400 dpi), Optical Character Recognition, Video and Audio Digitising services for Atari ST users, also in house video tuition for beginners and in-home tuition on any aspect of the Atari ST Computer, including Desktop Publishing and Desk Top Video.

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 laser printers, the Atari PC range, the Stacy Laptop, TT030, ATW, SM194 and CDROM, with the largest range of Atari ST hardware, software and accessories anywhere in Australia.

If you would like to receive the next issue of THE PARAGON REPORT, please fill in the request form inside and post to:-

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6000

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## Psssst!



New products from Atari this year will be TT030, Mega STE, Another Stereo monitor for the STE, a new version of GDOS, a new version of Word Flair, a new Laser printer, a Notebook computer

Developers are now working on a 386SX emulation board for the Atari TT.

Atari will be shipping STE's with soldered in RAM very soon now in Oz, the suggestion is, if you were thinking of upgrading from your STFm to an STE, do it now, this way an upgrade to 4 Meg is easier now than it will be very soon.

Atari will be showing a note book style computer at the Hannover show in March, unfortunately at this time I cannot say if it will be based on a 68000, 68030, 80286, or 80386, I have heard it will be THIN.

Commodore have announced that it intends to reduce the company's work force in the United States by about 10% or 250 to 300 people of its 3,000 employees world wide. Already a number of layoffs have occurred within the Australian subsidiary.

Atari U.S. have fired all of their sales staff (Now he will have to find another job, ed).

The revolving door at Atari Corp turns again, who will appear this week? no other but Greg Pratt, Greg has spend many many years with the Tramiels and hopefully knows his way around them more than most, this can be good for the U.S. market, we watch with renewed interest. In the 10 seconds taken to write this paragraph, another rumour is that yet another General Manager may be recruited from Germany, look out behind Greg!

Atari and third-party developers have unveiled 14 new software titles for the Portfolio. These include Power BASIC, Portfolio Stock Tracker, Turbo Translator, Personal Finance, Scientific Calculator, Bridge Baron, Wine Companion, Portfolio Astrologer, Chess, Hyperlist, Diet/Cholesterol Counter, Spell Checker /Dictionary/Thesaurus.

ISD, publishers of Calamus and DynaCADD have now released a version of DynaCADD for the Amiga. Versions for the Apple Macintosh and UNIX workstations are planned for release

in the near future. With versions already on the ST and MSDOS platforms, DynaCADD is rapidly becoming a new performance standard in the CADD arena.

Version 2.1 of Page Stream for the ST is being worked on flat out by SoftLogic, now that version 2.1 of Page Stream is finished on the Amiga. They say that they are going to correct the spelling mistakes in the ST 2.1 manual before release, (maybe they think that anyone who uses an Amiga for DeskTop Publishing won't notice the spelling mistakes, ed).

The 16 Bit Computer Fair at the Novotel in London was again a great success for the massive games playing U.K. market, very few developers were seen, as usual, with around 120 dealers selling the same games as one another at various discount prices, nothing new was shown at the show from Atari U.K.

Nevin Shalit (Tracker ST U.S.) informs me that the funniest thing he saw at the Comdex show in the U.S. was Jack Tramiel pointing and saying, "what's that?" and son Sam Tramiel replying, "That's the new Mega STE."

Following the current sales trends in Europe. Atari will release the TT030 in Australia in either of two configurations: 4 Meg of memory with a 50 meg HD and 8 meg of memory with an 80 meg HD.

Atari have relocated the firm's entertainment division to the Chicago area. All Lynx and 2600/7800 development and support will be provided from these offices.

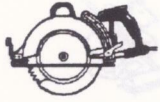
The rumor is that Atari Oz are going to bring over Nathan Potechnin from ISD Canada for the release of Calamus SL on the TT 030, he may be travelling the country doing workshops on TT/Calamus SL DeskTop Publishing Systems. Is this going to be the first professional step into the professional DTP area for Atari Oz? Will they be equipped to handle the sales created by Nathan on his tour?

Question:

Does HiSoft's ST Lattice C version 5 Developers pack really come with 7 double sided disks, 3 manuals and a box over 3 inches deep?

Answer:

Yes.



# From the Teknishuns Bench



At last! Another Paragon report and with it comes a chance to clear the confusion over the STe models and Hard disk drives. I want this to be the definitive discussion about the subject so that it can be finally put to bed and we can all get on with using this great new machine to its greatly increased capabilities.

Lets begin by being brutally honest, OK? There IS a problem with the STe and Hard disk drives ..... All of the early builds, All models of hard drive. Not as some reports would have you believe some STes and non Atari drives, but (read my lips) ALL of them. The latest builds are claimed by the company to be fully reliable, and our testing indicates that they are correct.

How can you tell if your machine is affected? Turn it over and in the middle you will see a sticker with a large number stamped on it. The pattern of this number is:- ??\_??\_?????? where "??" are numeric (and occasionally alpha) characters and "\_" are spaces. The two characters with a space either side are the ones to examine, they tell you when it was built in terms of the batch. A couple of examples will illustrate the coding. A \_9C\_ shows that the computer was built in the "C" month of '89, and those who are familiar with Hexadecimal numbers know that "C" hexadecimal is the decimal number 12, so the date code is December '89. A \_05\_ is the fifth month of '90, or build batch May 1990. With me so far? Good!

Information from the company says that builds AFTER July 1990 are OK, and our testing so far verifies this. If your machine is in the early batches, read on. If not, relax and skip this article!

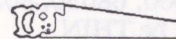
OK, if you're still with me you will want to know exactly what the symptoms of the problem are. If you do not own a Hard Disk, there is nothing to be concerned about, you have one hellava machine, enjoy it! If you plan on buying a Hard disk unit some time later get it fixed then.



For those with Hard Disk Drives the problem is described as Scrambled F.A.T. Syndrome, or "F'd Fats" for the enraged and crude ones. (They're the ones with Megabytes of data down the drain and no backup for most of it, usually weeping and wailing at the same time). What the end user sees goes

something like this:- Everything has been going well, maybe for months then during some manipulation of files between partitions or saving to hard disk from within an application a message like "This Application cannot find the folder or file you just tried to access". Such a message is usually harmless but this time the folder is gone or else when an attempt is made to access it bombs appear and the machine is either back at the desktop or locked up altogether. A wise action is to save the file to a floppy (if possible, UGGHH!) and shut the system down IMMEDIATELY! Such action will minimize the damage.

Perhaps the story of my own first encounter with the STe hard drive problem will illustrate the importance of early recognition and appropriate action when dealing with the situation.

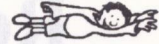


We at Paragon had one of the first STe computers in Australia (no discussions on how we did it, please). This unit was not on public display but was being used in developmental work and so was inevitably connected to the "Tech's Hard Drive" which is a unit choc full of files that are used for system development and diagnostics. Some of these programs could be considered "dangerous" in the hands of inexperienced users because they have the ability to write directly to disks (floppy or hard) without the usual supervision by the Operating System. So when the poor ole tech lost his programs in late 1989 everyone dismissed the report with "it looks like you were not careful enough - a victim of using your 'blow up any disk' equipment!"

"But I was only using GEM to reorganize my files", I said, but anyway the files were gone. What had happened? Well I had been moving some files from one partition to another when the message about not being able to find the folder or file appeared. The files inside that folder were important so the copy process was continued but one level deeper, inside the folder. The message soon came again and was traced to one folder at one level deeper (the folder inside the folder) and when that particular folder was accessed, there was a crash and reboot, back to the desktop. At that early stage I suspected something like the old 40 folder limit, although this had been fixed in the earlier TOS 1.4 operating system (and also the STe TOS). The system was switched off, and back on after a pause of several seconds but that particular folder caused a crash whenever an attempt was made to open it.



# From the Teknishuns Bench



So it looked like there was some physical damage on the hard disk (still not suspecting the new STe) so I began to move files away from that partition ready to zero it and do a markbad. As you might have guessed it was only another few minutes before the message appeared again and by now there were also folders on the destination partition that caused a crash when accessed. The feelings of panic got stronger as every attempt to "rescue" a file from one area of the hard disk and put it elsewhere seemed to show damage over more and more of the hard disk. Eventually there was virtually nothing left worth saving so it was time to reformat the whole thing. This presented an even greater horror as the drive itself seemed to have hundreds of bad sectors, so many in fact that the format was aborted (by the software). That was enough bad news for one day and the system was switched off and put to one side.

The next day the drive seemed to have cured itself because all went well during the format but a few days later (after many files were entrusted to the drive again) the problem turned up again. Fortunately by then the STe was needed for other things and the Tech's Hard Drive was formatted and rebuilt with an STfm, the problem went away and was forgotten until the reports started coming in from people in the UK with the same symptoms. Atari U.K. said that the problem would only occur with third party hard drives (this is not correct). U.S end users thought that the problem was associated with modifications required to the STE to pass U.S. FCC regulations. Over the next several weeks the exact cause of this damage to files on Hard disks was unravelled as STE owners around the world consulted each other to come up with the common threads. The details go like this.

The STe has a much improved time factor when communicating with Hard disks and other DMA devices because a lot of tweeking has gone on in the operating System software. As a result the DMA chip runs slightly hotter than in the older models and errors can be introduced into the data flow. For quite a while we thought that only some machines had the problem but Phil (is there NOTHING that that man Reeves can't do?) wrote a program to write files all over a hard drive, delete them and repeat the process continuously which was able to produce the fault in every STe but not Megas or STfms.

Now some were worse than others in that they failed almost immediately but even the few STes that we had believed were OK would fail we they got just that little bit hotter when the burning West Coast afternoon sun came in through our western windows. Some would go all day, writing and deleting thousands of files and folders several levels deep until that extra heat got to them, although the old STfms could take it with no worries.

If you find hard disk damage when using an STe you should shut down immediately because that should limit the damage to one file or folder. When the system is cool again you should be able to recover most of the files to floppy. The damaged folder or file will cause a crash if you try to access it even on a non STe computer.



The fix for the problem is very easy. Take it to an Atari authorized warranty repair centre and they will change the DMA chip for a new type. This new chip is only for the STe and will cause problems if fitted to a Mega (we don't know about STfms), so there are now two DMA chips, one for the STe and another for the rest.

Please do not ask for the modification unless you have a Hard Drive; at Paragon (at least) we do not stock a huge number of these chips and use them sparingly to help those with hard disks. In fact we would probably ask to see your drive and make a note of its serial number before doing the repair on your STe because there is no need for any changes unless your machine is connected to a hard drive.

Old farmer's saying "If something is working, DON'T FIX IT!!!"

Good advice, I reckon!

By Trev Holland  
for  
The Paragon Report  
February 1991



# Review HiSoft Lattice C V5

by Arnd Hurlbrink for the Paragon Report, Feb 1991

**Background** A number of years back, in the 1970s, Dennis Ritchie invented and implemented the C language on a PDP-11, using the Unix operating system. The development of C has its roots in the older, but still widely used BCPL, which in turn was influenced by B. Because it is considered a middle level language and offers access to a vast amount of functions, C has been used to write high performance software like word-processors and even operating systems. Incidentally, TOS was written in C. More recently, the C language has gained its popularity for being a very powerful, easy-to-learn, general purpose programming language. The Atari ST range of computers is blessed with several good compilers, among them Metacombo C, and its successor, Laser C, Turbo C, HiSoft C Interpreter and now Lattice C Version 5.

**Overview of Lattice C Version 5** Inside the 220mm x 205mm x 85mm grey box, along with the usual licence agreement and registration card, you get a neat little wallet containing 7 double sided disks (yes, you read right), three large handbooks of about 300 pages each and an installation guide.

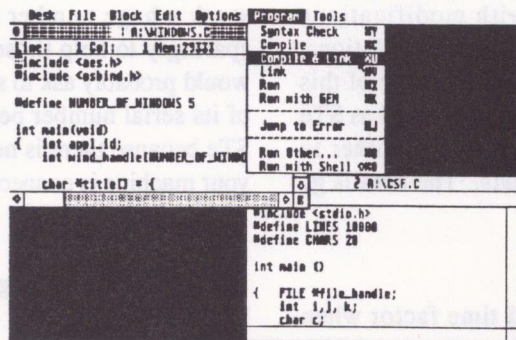
**The Environment** Having made a backup of a seven disks, the system already worked reasonably well by just booting up on disk one, which creates a ram disk and automatically copies all library and include files onto it, taking up about a minute. Clicking on the main program loads the integrated environment with all the usual functions. Up to four text files may be viewed at once and scrolling of text is very smooth. Browsing through the menu, there are a multitude of options. A powerful feature is that up to ten programs may be installed as tools, which may then be run without leaving the comforts of the editor. But, before any serious work could be done, the program needed to be installed properly and this was easily done by running the installation program, which in turn created two more disks. The environment is rather memory-hungry. The almost essential ram disk already requires 300K, thus owners of a 512K machine won't be able to run the integrated environment, but HiSoft hasn't left those users in the dark and also have included a cut down version of the editor and a powerful command line interface. On a 1M system compiling is a breeze, as the environment loads without any problems. With the default settings compiling takes about 30 seconds. The settings can be changed so the ram disk is used, reducing the time to about 10 seconds. The ram disk has about 50K free, just large enough for one or two programs. If the system should crash due to an error, all is not lost, as the ram disk is reset-proof. I expect

similar results using a hard disk. If you have a second or a hard disk, running the tools is no problem at all, once they are installed properly. If you have only one drive like me, you can still install them on drive B: and the system simply asks for your work and tools disk whenever it is needed. If your machine has more than 1M, then you can reconfigure the ram disk and put the tools on it as well, and the best part is, that if they are located on the boot disk they will be loaded automatically.

**The C compiler** The C compiler which is usually run from the integrated environment, can be used just as well by itself using the TOS command line, the supplied command line interface, or the cut down version of the editor. The compiler has over 80 options, from the amount of debugging information to include, whether to optimise for speed or space or to invoke the linker. There is even a built in make utility. You also have the option for what processor of the 68000 range to generate code for and if it should make use of a maths coprocessor chip. This will be of particular interest to Atari TT users, when it becomes available. (In fact HiSoft have tested the whole package and guarantees that it will work on a TT.) Since there are so many options, lowercase and uppercase characters have to be used in the command line. This poses a small problem for TOS 1.0 users, as it automatically converts the command line from the desktop to uppercase, but this had been foreseen and has been provided for. As you can see, the people at HiSoft have taken great care to iron out any potential problems the user might have with the software.

**The Libraries** The libraries are the most extensive I have ever seen in any implementation of C or for any other programming language. Since it is designed to conform with the ANSI standard, the standard library files are included to make any new programs written compatible to other ANSI C compiler systems. Since there is a lot of older C code using the classic C and Unix functions, which have not been included in the new standard, a majority of these have been implemented

as well. There is the Lattice function library which offers routines to make use of ST specific system resources, like a maths coprocessor. Finally there are the ST specific functions in the operating system which may also be accessed. There are a couple of calls, particularly Unix functions which could not be implemented, but a suitable alternative has been devised to keep in the spirit of the original function. An example of this is Unix C's fork function, which makes a duplicate of the current process to run as a child process. The child is then usually made to copy a new program over itself and execute it, via one of the exec calls. In the Lattice C counterpart of the unix calls, there are several fork calls that simply combine the two. To save space and consequently



The screenshot shows the Lattice C development environment. At the top, there is a menu bar with options: Desk, File, Block, Edit, Options, Program, Tools. Below the menu bar, there is a list of files and a code editor window. The code editor window displays the following code:

```
int main(void)
{
  int appl_id;
  int wind_handle;
  char *title = {
    "*****<stdin.h>
    #define LINES 1000
    #define COLUMNS 20

    int main ()
    { FILE *file_handle;
      int i,j,k;
      char c;
```

# Review HiSoft Lattice C V5

time, the header files have been compressed into a non-readable format, which the compiler can still use. The uncompressed files are located on the tools disk and a compression utility has also been provided.

**The Optimiser** An interesting tool provided is the optimiser, which loads an intermediate file, produced by the compiler and changes it to make the final code run more efficiently. Unfortunately, it uses a lot of memory and won't run at all if you have less than 1M. Even with 1M, you can only use it, while in the environment with very small programs. Fortunately, the optimiser can be run via the command line interface with no problems. Features of the optimiser include elimination of code that never executes and sections of code, which need to be executed only once, are moved outside loops.

**The Command Line Interface** The command line interface is quite powerful as batch files and environment variables can be set up. If you only have 512K, then your best course of action would be to invoke the compiler using batch file and redirecting any error messages to a file and then run the editor with the original source and the redirected file. Of course the command line interface can be used by anyone preferring an more Unix-like environment.

**The Resource Editor** Included in the package is HiSoft's latest version of Wercs, one of the most powerful resource editors, which by itself retails at A\$64.95. It has all the usual features and the more advanced ones, like auto naming of objects and moving images into menus. An original feature is that you can test any resource you have created with the touch of a button, which also displays the number and name of the object clicked to exit.

**The Debugger** Another powerful tool is the debugger. Users of HiSoft's DevpacST 2 Assembler will be right at home here. It is a full 68000 object level debugger, which you can use to trace the instructions of any program. It sets up its own screen and screen driver so as not to interfere with the program being tested. The disadvantage of the debugger is, that it takes a good working knowledge of the 68000 instruction set to fully comprehend of what is going on. As a help, the debugger can also load the source code which can be viewed while debugging. According to the manual, a more useful C source level debugger is under development and may be available in later versions of the program.

**The Assembler** Also included is a stand-alone assembler. Although, it is not as powerful as DevpacST 2, it can assemble 68010/20/30 instructions. Fortunately, the directives are largely compatible between the two assemblers, making porting of working routines quite easy. Users of Devpac should note that the C compiler produces GST object files as an option, but defaults to the

Lattice C linkable object file type for efficiency. The assembler can only create Lattice C linkable files. The Disassembler The disassembler produces an assembly listing of an object file. This one has the option of interspersing lines of the original C source code into the listing where it is applicable. This makes the object code much more understandable and a printout of this is an invaluable guide when using the debugger.

**Other tools** There is also a Linker for GST object files to make this version of C compatible with DevpacST and a host of other languages. Also there is a object module librarian, which combines several object files into one. Other programs include a symbol strip utility, resource file converter, and a program that converts Degas and Neochrome pictures into resource files and compactor for header files.

**The Documentation** As mentioned above, there are three volumes of instructions and an installation guide. The first book are the instructions on how to use the environment, compiler and all the tools that are on the disks. The book is divided into easy to find sections. There are lots of summaries, like a list of all compiler options, the VT52 screen codes and the Atari ST ASCII table. Best of all, there is a list of all the major references on C and 68000 programming, algorithms and ST specific features. The other two books describe the vast array of function calls available. The first contains the Ansi, Lattice and Unix functions, the other the ST specific GEMDOS, BIOS, XBIOS, Line-A, VDI and AES calls. A page or more is devoted to a function, which describes its exact declaration, what to files include, related functions and any special problems associated with the call. It is also good to see a number of examples to try out. The installation guide gives some hints and tips how you should best set up the system and includes a list of contents of all the disks so any file can be found relatively quickly. The documentation is definitely first rate and so complete and up to date that additional references are hardly required.

**Summary** The Lattice C programming language is an excellent choice for programming projects of all sizes. With an astounding number of options and utilities, it comes together quite nicely. The whole package is very well organized and it is evident that a lot of work has gone into it. Of course, the higher the specification of the machine, the better it becomes. In general, Lattice C is a program that will grow with you and on you.

Reviewed by Arnd Hurlbrink  
for the Paragon Report  
February 1991



# A Day in the life of The Paragon BBS

Message : 8405 [Open] 1-12-91 11:19pm  
From : David Brook  
To : Chris Parker (x)  
Subject : #8384 Hardrive woes  
Sig(s) : 1 (Public Access)  
There is 1 reply

Is it possible to get an RLL controller then, to turn a 20Mb into a 30Mb, or alternatively since the ST225 appears to be an 80ms mechanism, can one get a 30 or 40 MFM mechanism with better access times?

Message : 8418 [Open] 1-14-91 9:59pm  
From : Chris Parker  
To : David Brook (x)  
Subject : #8405 Hardrive woes  
Sig(s) : 1 (Public Access)  
There is 1 reply

Yes, you should be able to get an RLL controller, but I have no idea what it will cost you. The alternative, as you suggest, is to buy a faster MFM mechanism and stick to the existing controller. That's what I intend to do at some stage. I have a 20Meg mechanism and I want to get hold of a 40Meg mechanism.

Chris

Message : 8425 [Open] 1-15-91 11:06pm  
From : Steve Quartly  
To : Peter Smith  
Subject : Winner  
Sig(s) : 1 (Public Access)

Hi Peter

Well you've done it again!  
Yup you've won this months Trivology.  
Congratulations! If you see Phil at Paragon, he will give you your prize.

See ya,

Steve Q.

Message : 8429 [Open] 1-16-91 5:13am  
From : David Jewell  
To : Mark Brinkworth (x)  
Subject : #8406 Mega STe  
Sig(s) : 1 (Public Access)  
There is 1 reply

Thanks Mark, Pardon my ignorance on the terminology of TT. I also heard that it stood for thirty thirty which I think refers to the year that it will become available. Everyone says that Atari got something right by releasing it with a 32Mhz clock

instead of only 16MHz but it actually only has the slower bus rate so that the 32MHz rating on the whole machine is a bit of a furphy. Maybe their next version will be faster? Maybe that's the model we're all waiting for? Don't hold your breath though.

cheers David...

Message : 8431 [Open] 1-16-91 5:22am  
From : David Jewell  
To : Mark Brinkworth (x)  
Subject : #8415 For Sale  
Sig(s) : 10 (Market Place)  
There is 1 reply

What's this!!! Someone trying to sell New Zealand for \$15. What a rip off. NZ's not worth that much, although it might be soon. I just heard that the Kiwis have just discovered 2 new uses for sheep..... Meat and Wool.

David...

Message : 8434 [Open] 1-17-91 1:47am  
From : Mark Brinkworth  
To : David Jewell (x)  
Subject : #8429 Mega STe  
Sig(s) : 1 (Public Access)

Umm, TT stands (really) for Thirty Two Thirty Two (as the ST stood for Sixteen Thirty Two). As I understand it, the bus rate is still 16 MHz, they only bumped the 68030 up.

Cheers,  
Mark

Message : 8436 [Open] 1-17-91 3:21pm  
From : Robert Alley  
To : Trevor Holland  
Subject : STe  
Sig(s) : 1 (Public Access)  
There is 1 reply

I have tracked my hard drive problems down to the old STe hard drive bug. After hours of testing I have only ever got the problems to appear when using the STe, the old FM worked fine (No auto programs or accessories either). Can you still swap my dodgy model for a better one or will I have to chase Atari? Thanks, Rob.

Message : 8437 [Open] 1-17-91 3:40pm  
From : Simon Haynes  
To : Chris Parker (x)  
Subject : #8383 ansi cont  
Sig(s) : 1 (Public Access)



# A Day in the life of The Paragon BBS

Yeah, doesn't seem like a huge task to build in ansi compatibility into terminal programs. You won't get the colour, but so what?

Simon

Message : 8439 [Open] 1-18-91 11:04am  
From : Robert Alley  
To : David Mccay (x)  
Subject : #8433 GEMINIUK.LZH  
Sig(s) : 1 (Public Access)  
There is 1 reply

Well today I had to unarc this file again (Lovely harddrive problems) and it wouldnt unarc on my old FM, however it works fine on my STe, using FASTLZH 1.6. It seems that creating the folders doesnt work on the old TOS version for some reason and some of the other LZH formats just dont seem to be able to handle folders within archives. What version of TOS do you use? Since GEMINI only works on TOS versions 1.2 onwards.

Rob.

Message : 8440 [Open] 1-18-91 12:24pm  
From : Trev Holland  
To : Robert Alley (x)  
Subject : #8436 STe  
Sig(s) : 1 (Public Access)  
There is 1 reply

Your Ste will be fixed under warranty, just bring it in, leave it and I'll do it (24hrs)

rev

Message : 8441 [Open] 1-18-91 12:49pm  
From : Robert Smith  
To : All  
Subject : GFA  
Sig(s) : 1 (Public Access)

Wanted,,, fellow Atari GFA programmers in Perth area interested in contacting another GFA learner. Contact Mick (no modem) on 527--3605. ASAP. Looking forward to your calls.... cheers Mick.

Message : 8443 [Open] 1-18-91 4:18pm  
From : David Mccay  
To : Robert Alley (x)  
Subject : #8435 GEMINIUK.LZH  
Sig(s) : 1 (Public Access)  
There are 2 replies

Thanks Rob, I'll try again. I just keep getting "unable to open (folder\file) etc" But I can unarc the files not stored in folders it seems, although in the shell

program I have the "Include Subdirectories" option selected... HHmmnn back to the drawing board.  
Thanks again

Dmc

From : Phil Reeves  
To : David Jewell (x)  
Subject : #8431 For Sale  
Sig(s) : 10 (Market Place)

Here's another,

What do Iraq and Hiroshima have in common ????

Nothing..... YET.....

Phil.

Message : 8459 [Open] 1-19-91 5:40pm  
From : Adam Guerin  
To : Mark Brinkworth (x)  
Subject : #8414 BBS Software  
Sig(s) : 1 (Public Access)  
There is 1 reply

Umm, what specifically do you mean by 'PD' and 'Commercial', I'm new to this, sorry!

Adam

Message : 8463 [Open] 1-20-91 2:09am  
From : Mark Brinkworth  
To : Adam Guerin  
Subject : #8459 BBS Software  
Sig(s) : 1 (Public Access)

Some BBS software is available from Public domain sources (even though some people have rather quaint ideas about what public domain actually means), and therefore can be obtained fairly cheaply.

Commercial software, from which people want to make a living (another quaint idea really) and therefore you have to pay for the software.

Anyway, have you any ideas what you want this BBS software to do. (i.e. what features?)

Cheers,  
Mark



**The PARAGON BBS**  
**It's FREE for all Atari ST Users**  
**Call (09) 325 5160. 24hrs**

## Atari TT Specs



### Architecture.

- \* CPU: Motorola 68030 running at 32Mhz.
- \* On-chip cache and MMU.
- \* Bus: 64-bit memory; 32 bit data; 32 bit address.
- \* FPU: MC68882 at 32Mhz.
- \* RAM: 2 MB expandable to 26 MB.
- \* ROM: 512 Kbyte internal; 128 Kbyte external plug in ROM.

### Keyboard.

- \* Standard QWERTY keyboard format.
- \* Low profile, sculptured ergonomic design.
- \* 94 keys, 10 function keys.
- \* Separate numeric and cursor keypad.
- \* Keyboard processor to reduce CPU overhead.

### Mouse.

- \* Supplied as standard.
- \* 2-button control.
- \* High precision, non-slip ball motion sensor.
- \* Removable ball for easy cleaning.

### Operating System.

- \* TOS operating system implemented entirely in ROM.
- \* Hierarchical file system with subdirectories and pathnames.
- \* Icon-based user interface, with self-explanatory command functions.
- \* Interface includes icons, multiwindowing, window resizing/repositioning/closing, and pull down menus.
- \* Interface can be customised by user.

### Software.

- \* New Desktop with enhanced features such as installing custom icons onto the desktop to represent drives, program or files.
- \* New Control Panel desk accessory with built in programs such as colour setup, sound setup, and the mouse accelerator.

### Input/Output Ports.

- \* All ports built in.
- \* MIDI IN MIDI OUT
- \* Audio out; 2xRCA jacks for left and right channels.
- \* Connector for colour, monochrome, or high resolution monitor.
- \* 2 x modem / RS232C serial ports.
- \* 1 x RS232 serial port capable of split baud rates.
- \* 1 x high speed DMA serial port or LAN port.
- \* Internal A24/D16 VME card slot.
- \* Parallel printer port (8 bit parallel).
- \* External floppy drive port.
- \* External DMA port for hard disk, CD ROM and laser printer.
- \* Cartridge port (128 Kbyte capacity)
- \* SCSI port with Direct Memory Access (DMA).

### Graphics.

- \* TT high resolution: 1280 x 960 monochrome.
- \* TT medium resolution: 640 x 480 x 16 colours.
- \* TT low resolution: 320 x 480 x 256 colours.
- \* ST high resolution: 640 x 400 x 2 colours user selectable.
- \* ST medium resolution: 640 x 200 x 4 colours.
- \* ST low resolution: 320 x 200 x 16 colours.
- \* Colour palette: 4096 colours.
- \* Text display: 80 column.
- \* Hardware horizontal and vertical scrolling on pixel basis.

### Sound and Music.

- \* 6 programmable sound channels.
- \* Frequency programmable to 25 KHz.
- \* Stereo DMA sound engine: built in 2 channel digital / analog converter (DAC); play back digitised samples at rates between 6 KHz and 59 KHz on 2 channels; programmable volume/tone, control/balance.
- \* Programmable sound generator (PSG); 3 tone generators; 2 noise generators; dynamic envelope shaping; wave shaping.
- \* Includes Musical Instrument Digital Interface (MIDI) for connection to music synthesizers, sequencers, drum boxes and other devices with MIDI interfaces.

### Floppy Disk Drives.

- \* 3.5 inch, double sided, 720 Kbyte.
- \* MS DOS format compatibility.

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## SC4321 STE Stereo Colour Monitor

### Features

- \* RGB analog connector DB15 female.
- \* L/R stereo channels with inbuilt speakers and volume control.
- \* Separate Luma and Chroma inputs for composite video input - connect your VCR.
- \* Sound output connector.
- \* Sound input connector - left and right channels.
- \* Input signal switch - green display, RGB, Video.
- \* Contrast, brightness, intensity colour display controls.
- \* Tilt swivel base.

The flexible input and output connectors on the SC4321 enable the Atari unit to be used with other computers, ie, MS-DOS (CGA only); Commodore Amiga/C64 and as a remote monitor for connection to a VCR recorder

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