# The Paragon Report



PARAGON COMPUTER'S free Publication with Information News and Views for ALL ATARI users
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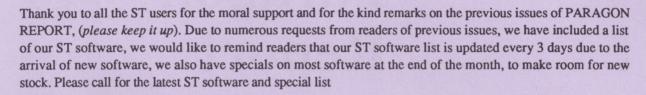
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# **Multi GEM**

#### Multitasking at last-A serious package for serious users

Multi Gem is a software package that allows the user to multitask several applications at once. This is a progression on from the various application/memory partitioning programs already on the market for the ST range. It now also brings the Atari range into line with the other competitors in the marketplace in this regard and is still streets ahead of the others in the other facets. Atari is rumoured to be releasing a multi-tasking TOS for the STE and TT range but in this

slow down in some operations but remember that 3 things are happening at the same time!!

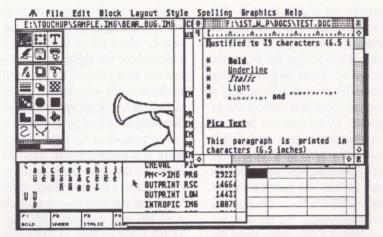
The software takes very little time itself to install because all you have to do is insert the MultiGEM disk and run the install program. The installation program then optimises the installation to best suit your computer system.

Accessing MultiGEM is via the Desk Accessory menu where there is a number of slots waiting at

In use I have found MultiGEM to be a stable program that has not trashed my hard drive at all. There are some problems with MultiGEM running some programs that do not have resizable windows. One program I have trouble run has been FLASH it will exit out okay to the desktop but I have trouble re-entering the program. I have occasional trouble with some TTP files that MultiGEM does not window in properly, the machine never bombs in these circumstances however to get normal access again one has to wait for the program to stop running.

In summation given the amount of variables that this program copes with it does a fantastic job and will improve no doubt as the versions progress. The few detractions however only limit its application on some fringe" applications usage for everyday use with your text editors, spreadsheets, databases and desktop publisher it does efficiently multi-task for real on the ST&TT. If you use your ST or TT for serious applications and would like to be doing three or more things literally at once then this is the package for you. That is I don't think it was meant for use in Multitasking Double Dragon XXXXIV and Spaced Invaders!!

Reviewd for The Paragon Report February 1992 by Craig Valli

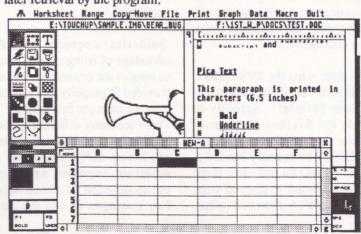


case until you see it running don't believe it (If Atari Corp where a bloke I am sure his favourite line would be - Honest I will respect you in the morning....")

It handles all of the three Atari executables i.e. PRG.TTP.TOS applications. In using the package extensively over past few months I have found very little conflict and can honestly say that there are very few packages that fail to run with this utility. In my experience those that do not run are ones that do not use correct programming techniques i.e they are suspected of or actually do improper memory/system calling.

I have used MultiGEM to run Superbase in the background doing a query of a file containing 7000+ records whilst using Tempus 2 to do some name lists for merging with 1ST Mail. As well as printing out previously merged documents using First Word Plus. Obviously there is a

your disposal. The user has to put in some input i.e you have to set certain parameters on each program you wish to multi-task with. This includes first off finding it on the drive then setting the amount of memory that you want it to have. You then have to tell the program various other things about the way it behaves when in operation i.e does it use external programs, is it a .TOS, .TTP or .PRG executable.Then this information is saved in a file for later retrieval by the program.



#### From The Teknishuns Bench



#### RAM Upgrades Economics and Reliability

Those of us who own Atari STs reach a point (sooner or later) when we must decide whether to increase the memory of our machine. Now that the STe is available our choice comes down to adding ram to our öld faithfull" or moving up to a new Ste which is designed to have up to 4 megabytes of memory using standard cards called Simms"(or Sipps).

From a technical standpoint the 520stfm has provision for 1meg ram to be fitted right there onto its circuit board. All one needs to do is to suck the solder out of the holes (about 300!!) which are already there to take standard ram chips. After all that work is done we have a computer that is the same as an original 1040ST at least as far as memory is concerned.

If we want to fit any more ram than that then things get more complicated in a hurry. We need to connect an additional board which carries the extra ram chips to the main board.

Remember what the ST'in 520ST stands for? No, it does not stand for Sam Tramiel! Actually it stands for Sixteen Thirtytwo" because our humble Atari ST has a SIXTEEN bit memory bus and a THIRTYTWO bit processor chip. You might want to remind your smug friends'who have mess'dos

compatibles of that fact!

That's why our software is so good because we've had all that processing power in a low cost package since 1985, they've only matched this in the last few years since the arrival of the 386SX types. So unless they have a 386SX or better, YOU have more processing power in your ST, and even if they do own a 386 or 486 most of their programs will have been written to run on the lower performance IBM XT or IBM AT compatibles.

Anyway, we digress (sorry!). We have to connect any additional memory board up to the 16bit memory bus so that the processor can use it. Some jargon busting needed here! A bus"is simply a bunch of wires that connect things together. In our case our bunch of wires become tracks on a circuit board and we need 16 to carry the bits of information, plus address lines so that the processor can know WHERE its is amongst all this information. By the time we have added a few other lines for management activities, we have almost 30 lines to to be joined up to our main board.

People who make memory expansion boards handle this in two ways. Either they make a connector (or connectors) to plug into the main board or else they provide a bundle of wires that have to be soldered to link the memory board to the main board. The plug in alternatives have become known as solderless upgrades.

Solderless upgrades have the advantage of being easy to install as long as the connectors that are provided fit properly into your ST. Here we meet our first hurdle! There are many different version of 520stfm circuit boards so there are many different types of

solderless upgrades, a different

one to suit each ST circuit board.

For example is the memory

management chip under the power supply or near the disk drive or under the keyboard? Where is the video shifter chip located? Are the chips soldered in, or socketed or surface mounted? There are a lot of possibilities here and we really need to get the correct kit or the connectors won't fit at all.

After we eventually install the correct kit we come to the most serious problem. Unless the connectors are very well designed there is a good chance that we will suffer memory crashes caused by momentary loss of contact between the upgrade and the main board. Most of us would have noticed how the lights on trailers that are being towed by cars and trucks at night sometimes flicker as they move along the road. The flickering is caused by momentary loss of contact to the lights where there is a connector to link the trailer to the towing vehicle. In the case of lighting this momentary flicker hardly matters at all, but with the memory in your ST the result of similar flickering contacts is often a fatal crash of your software, with re boot and loss of data the costly by product! Consider that the connection between upgrade and main board is right below where we are tapping away on the keyboard, and this vibration can easily be the cause of a memory crash.

We can plug in more memory but we may need to be prepared to have the odd fatal software crash and maybe even have to pull our computer apart once in a while to refit the connectors. OK for hackers but not so good for the rest of us.

Well, if solderless seems to be a bit of a worry, maybe the soldered in type would be the way to go. Sorry, but I've seen plenty of troubles there too! If the job is done carefully, the installation should work reliably for a long time. But remember that there are

#### From The Teknishuns Bench

close to 30 connections to be made so the chance of a mistake such as a dry joint or a solder bridge is quite high. Usually a dry solder joint will not show up straight away but some time later when oxidation (corrosion) has had time to damage the connection. Even then the problem is likely to be intermittent so when you take it back to the technician he won't find anything wrong and it will just lurk around waiting until you have something really priceless on your screen before it produces those horrible bombs.

Such a machine (with 2.5meg) was traded in recently on a new 4meg STe. I soon found out why it was traded in! Bombs all over the place as I tried to run some midi software. The upgrade was an Australian made product so I gave it back to the technician who fitted it and wouldn't you just know it, he found nothing wrong but as soon as it came back I tried to run various programs and got bombs again after only a little bit of mousing around.

I took the upgrade out and restored the machine to 1 meg capacity after which it gave no trouble. The upgrade has been kept as People's Exhibit 'A'"to be shown to the curious.

Reliability problems with both soldered and solderless upgrades CAN be solved on the technician's bench but someone has to pay for the time used. Repair time costs between thirty and fifty dollars per hour and dry joints and other intermittent faults can take quite a while to hunt down and fix. A time cost of \$150.00 really only represents 3-4 hours work so this could make a ram upgrade very expensive (if it gives any trouble).

Compare this with the costs of changing over to a NEW STe. Right now we can get a 1040STe for \$695.00. In the newspaper it is

quite rare to see any 520STfm for less than \$500, so let's say you advertise the old one for \$490.00, and include some PD software to sweeten the deal for a first time ST user. That would mean that you could have a 1 meg STe with a one year warranty and all the new enhancements with a change over investment of only about \$200.00.

Budget about \$170.00 per each 2 meg of upgrade when you need it but remember that the STe uses standard memory boards for which prices have been falling for some time now. As long as prices for standard ram boards continue to fall then it makes sense to buy only as much ram as you need at the time, if you need 4 meg later on, it might cost even less. The other good news about using standard memory boards is that if any were to develop a fault in later years it will be quick cheap to replace the faulty board.

Oops, I had better keep quiet or else we technicians might not be needed in future to do memory repairs!

Trev Holland The Paragon Report February 1992



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Atari Corp have finally decided to make all of the released TOS development information available to the general public.

Atari are now shipping the new TOS 2.06. The new TOS is in a 2 x chip set on 32 pin Eproms, some STE's have 28 pin sockets on the board, these will have to be removed and 32 pin sockets installed.

Atari are now shipping the 1.44 Mbyte drive kits for the Mega STe and TT030, the kits include the latest version TOS 2.06 STE and 3.06 TT030.

U.S. customs seized 2,000, Taiwan manufactured copies of Atari's 2600 video games machine.

Tony Serra has been appointed the new Managing Director of Atari Australia. Mr Serra has experience in the retail as well as wholesale industry and has previously held the position of M.D. of Commodore Australia during a growth period for this company.

There will be several new and exciting products released from Atari Australia during 1992.

Atari Australia is currently undergoing a complete restructure and re-organisation.

Several pre-release test sites will be set up around Australia for the introduction of new products during 1992.

MiGraph have released their new Optical Character Recognition software for the Atari ST and TT range.

# Mega STE

The Mega STE is now available in quantity exstock from your local Atari dealer after some initial supply problems due to Atari closing down and relocating its factories.

The Mega STE comes in the new Atari box design which is a lot more compact and is the same as the TT's box. This design enables the new range of monitor for the ST/TT to sit neatly on top of the case. The keyboard is a complete redesign from the ST stables and is detachable as in the previous Mega genre. The keyboard itself is well put together and suffers very little from the spongy tag that the previous ST's had acquired. The mouse attaches itself to the side of the keyboard and is a great improvement on the previous location. There is also a built in clock on board this machine it seems that someone or entity at Atari is listening to end users request.

The next major change is the clock speed it is now 16Mhz as opposed to the 8 Mhz of the ST range. you can however switch back to 8Mhz clock speed that enables you to run programs that do not like the 16Mhz clock speed.

There around the back a new array of ports for the user to access. There are 2 modem ports which use DB9 as opposed to the previous DB25 interfaces. Also provided is a new serial port, LAN interface, and VME bus. In addition to these new ports there is still the standard parallel port, cartridge port, DMA port, and TV modulator.

The LAN port is addressing one problem that the Atari has had for sometime i.e cheap and fast networks. It should not be long before networks are available from a variety of vendors. This should further the usage of the Atari logo in areas such as education, business and industry having now overcome this shortfall in this vital area.

The Mega STE runs in all of the ST resolutions i.e

Low 320 x 200 16 colours Medium 640 x 200 4 colours High 640 x 400 2 colours

The colour palette still remains at the STE standards that is 4096 colours. This is to attempt to retain compatibility with existing ST software more on this later. There is also the stereo outputs that the STE brought in the genre of Atari

TOS based machines.

These machines are also sporting the new version of TOS, version 2.05. This has many improvements over TOS 1.62 let alone TOS 1.4 or lower. The first and major noticable difference is that the desktop itself is a lot more user configurable than before.

This new version of TOS allows the user to assign any of the pre-made icons to a drive, folder or file within the machine and save these settings under the desktop.inf file. The

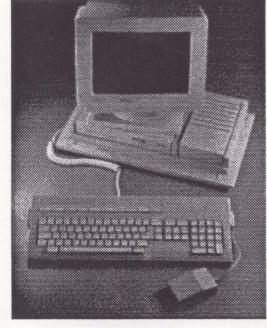
desktop itself is hot keyed i.e when you are at desktop level pressing certain keys will actuate functions for you. The new TOS also allows the user to batch attribute changes on files and folders that are selected as a batch great for renaming files with. There are also many other changes to the TOS, far too numerous to list here lets just say major league improvements on TOS 1.6 and eons on TOS 1.0.

The machines currently only come in 2/48 and 4/48 combinations which is somewhat restricting to the end user who is updating. The floppy drive is still only a 720K 3.5 mechanism which is also a bit of a drawback for the user as most other platforms have had high density floppy disks for sometime.

Enough popping of the bonnet down at the pizza bar mate lets spinna da wheels. I have used QINDEX 1.5 here to get some speeds of the machine these are read at TOS 1.0 and Mono settings. I was a little disappointed with its scrolling until I run TurboST with it.

4/48	BMSTE	16Mhz	16Mhz
16N	/hzcach	ne	TurboST
CPU memory	165	100	165
CPU register	204	100	204
CPU divide	204	182	204
CPU shifts	208	179	204
DMA read	5518	5737	5518
GEMDOS	1607	1583	1607
Bios text	126	119	552
Bios string	123	109	1894
Bios scroll	181	180	192
GEM draw	210	179	467

These are a fast improvement even on STE figures the suprising thing is the increase caused once again by the usage of Turbo ST (if you haven't got it buy it!!). What this translates to is greater speed in all applications it is really noticeable when running Pagestream the screen refresh/zooming importations of text etc are all very fast indeed. Speed like any other of mans vices after frequent use seems to slow again a quick remedy is try an old STFM again (like I had to when helping out a friend just recently )and you will think you are working in molasses.



## The Atari ST Note Book Computer

In conclusion the machine is a vast improvement on the STE and definitely bridges tha gap between this and the TT. The few gripes with it do not really even matter when properly taken into account the Mega STE is a fantastic machine and will handle very well anything that users will put through it with speed, style and grace.

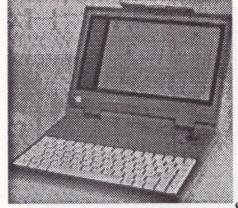
Reviewed for The Paragon Report February 1992 by Craig Valli

#### MiGraph A4 Scanning Tray and Software

With MiGraph Merge-It and the Scanning Tray, you can now use your hand scanner to scan a full page image. Simply use the tray with your hand scanner to scan the left and right halves into MiGraph Merge-it software and merge them. You have a full page A4 image without the cost of a flatbed scanner.

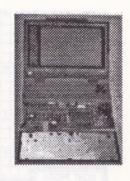
Made of precision moulded plastic, the tray provides the accurate scanning ability that you cannot achieve with your hand alone. This enables a four inch wide hand scanner to produce the same high quality image that normally requires a full A4 page scanner. The cradle which holds the scanner can accommodate these scanning heads. MiGraph, Golden Image, Datel, Genius, Logitech or any scanner using any of these body styles

Merge-It software allows you to merge the two scanned images quickly and easily. Merge-It loads any .IMG file whether its a scanned half tone image, line art, or text. Just load the two files you wish to join, then use the arrow keys to align the two halves. It's that simple. After merging, save the new image as a full A4 .IMG file.



Soon to be released in Australia is the Atari ST NoteBook Computer, the new Atari NoteBook will be fully compatible with most of the current software now available for the Atari ST series, the NoteBook computer is only 300 x 210 x 37 mm in size, weighing only 2Kg, a 40Mb hard drive is fitted as standard and most of the normal ST ports are available including a port for an external floppy disk drive. One port that is missing from the new machine that has been the cause of some concern is the cartridge port, MIDI ports are included on the new machine, which makes the NoteBook ideal for musicians who want to use the new machine for on stage performances, the concern is that a lot of profesional music software needs a dongle protection device fitted to the cartridge port before the software can run. Atari say that they will produce an external adaptor that allows the use use of a cartridge port on the machine.

The NoteBook will be available with both 1Meg and 4Meg of memory, with the 1Meg machine being released first. An interesting feature is the inclusion of a space under the cursor pad on the right hand side of the NoteBook for a Fax/Modem"



ST Book Specifications

Processor 68000 (8Mhz)
Hard disk 40MByte
RAM 1 or 4 Mbyte
ROM 512K TOS 2.06

Weight 2Kg

Size 300 x 210 x 37 mm

Display LCD

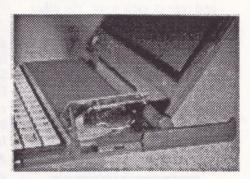
Resolution 640 x 400 pixels
Ports MIDI in/out, serial

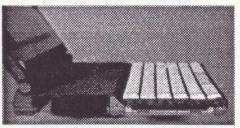
MIDI in/out, serial, parallel, DMA, mouse, floppy disk.

cursor control is by biult-in vector

pad with optional mouse.

Automatic LCD shutdown after period of none-use.

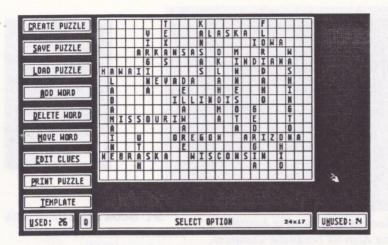






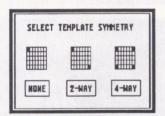
The Paragon Report February 1992

#### **CROSSWORD CREATOR**



This package is by fair dinkum software and is a very well put together package for the creation and manufacture of crosswords. The package can run on an any of the current Atari ST/STE/TT range in medium or high resolution.

The first big bonus of the package allows the user two methods of entering their data into the puzzle. The first is to load the program and type in each word. The other is entering your words into a file using a carriage return after each word using a wordprocessor and then saving the file as ASCII. Now having saved the ASCII file you can then import this into the creator. You can create puzzles as large as 30 x 20 in size.



The next big bonus that can be seen is the speed at which the actual puzzle manipulation and creation occurs at fast to say the least. I have used several crossword creators for the Atari range both PD and commercial and in speed this is eons ahead of the others.

The user interface is very simple to use and is very intuitive for a non GEM interface. There is online help provided if you get stuck with the package. All of the menu options are hot-keyed so as you become familiar with the package you need not use the mouse for most functions. As well as the standard functions you can also move, relocate, delete, undelete words in the puzzle at any time.

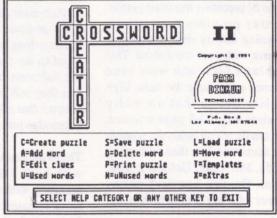
You are able to create a Degas graphic of your puzzle for

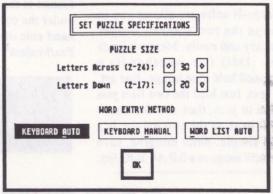
importation into a Desktop Publisher for further embellishment. However it does not for instance produce ASCII files of the clues for importing with the saved graphic to the Desktop Publisher. On the outputting side the program also intelligently detects if the printer is connected and on-

The manual that comes with package is concise and easy to use explaining each function the package has correctly. The only other problem with the package although minor is that there is no real support for an Atari Laser (except by using Laser Brain) for outputting of the puzzles. The printer driver does however cover the major dot matrix standard and that is Epson.

All in all this an excellent and highly recommended package for anyone who has a need to create crossword puzzles. Having now used this package in review I will be purchasing it to produce crossword puzzles for the high school students that I teach at a Perth college. This is also exclusive of the fact that I already own and use another commercial crossword package that is nowhere near as fast and well finished as this one.

Reviewed for The Paragon Report February 1992 by Craig Valli





### A Computer with a mind of its own??

Does your computer sometimes seem as though it has a mind of it's own? Do strange things seem to happen for no reason when using certain software on your computer?



Space bar repeating for no reason? Adjacent character appears when typing? Window on desktop will not close? Drop down menu will not drop down? Bombs appear where none have appeared before? Computer will not respond to keyboard and locks up? Mouse pointer will move without you moving the mouse? Your computer comes up with TOS error 35 for no reason?

This could be the reason.

Several years ago some smart person thought up the remote control for Television and later for video recorders, these worked very well and were connected by a length of cable from the TV or Video to the remote control, all this was fine and no-one had any problems.

Then came a long the cordless remote control. This is when the problems started.

With the older type cable remote control all the little remotes where enclosed within the cable and were sent straight down the line to the TV, video recorder, HiFi etc, however, with the cordless remote control, what happens is that you point the remote control at a small area of the TV etc and remotes are

fired at high speed into this small area, usually all goes well and only a few remotes miss this area and are left flying around the room, with time these remotes dissipate into space, BUT if you continue to aim and fire your cordless remote control around a room hoping that some of the remotes will find there way into the small receiving area by bouncing of the walls and ceiling of the room then these stray remotes are then being produced at a rate faster than than they can dissipate into the air, they will then start to look for any electrical device which generates square waves in which to dissipate themselves, and as we all know a computer is an excellent square wave generator (this is why your TV is effected when you switch your computer on)



Remotes will stay inside your computer for a very long time (sometimes for years) even switching the computer off and on again will not get rid of them.

One of the other things that stray remotes like is any closed conducting device, ie a metal coat hanger, the sort that you see connected to cars for receiving radio stations, (Dick Smith Electronics sold these devices for connection to your car radio a few years ago). The remotes collect on the coat hanger and travel along the wire, of course because it is a closed loop they cannot escape and travel around and around inside the metal coat hanger, they become trapped, after about 6 months the coat hanger should be discarded as there will be no further space for any stray remotes and another coat hanger should be used, one way to tell if the coat hanger is getting full of remotes is temperature, as more and more remotes become trapped in the closed loop they will create friction within the wire and the coat hanger will feel warm.

It may be too late to catch all of the stray remotes now, and several will have found their way inside your computer, and will be causing some of the strange things mentioned previously, but if you stand a wire loop or wire coat hanger somewhere near your computer further stray remotes will be attracted to this rather than your computer and the problems that you have now should not get any worse than they are, the other thing to prevent stray remotes is to aim your cordless remote control more accurately and do not keep it pressed any longer than is necessary.

for The Paragon Report February 1992

by Tongin Cheeyk



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