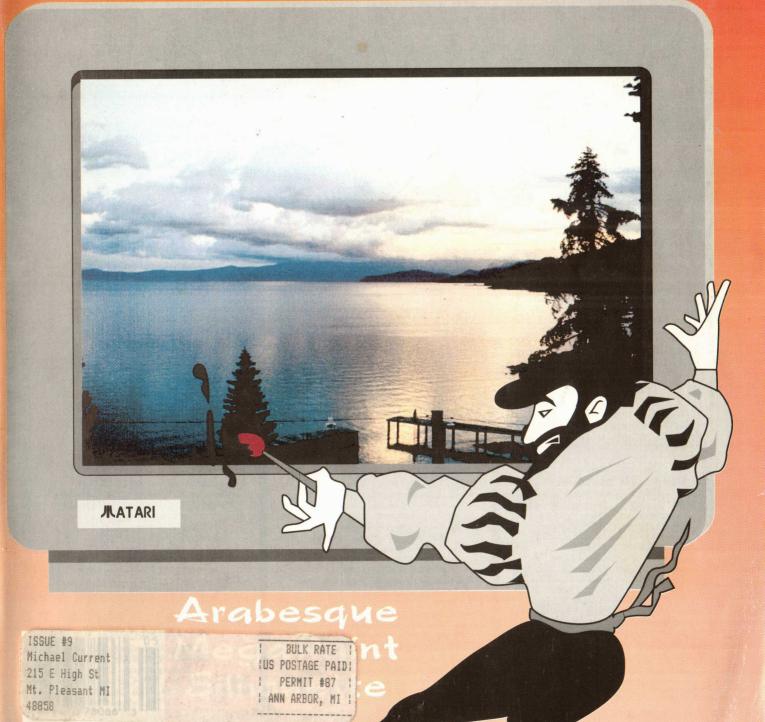
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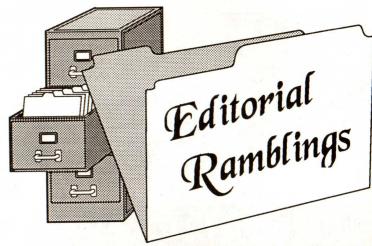
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This issue is getting to you a little later than we had planned. Because we were going to the Toronto show and had a very good chance of getting a peek at the Falcon 030, we decided to hold the issue for a week. That way, we could get a show report and a Falcon preview article into this issue.

Well, we did go to the Toronto show and we did get to see the Falcon 030 (see the write-ups in this issue). But, we both also caught a *very nasty* flu bug that wiped us out for a whole week-and-a-half.

So, this issue you now hold in your hands is a few weeks later than normal, and at least a week or two later than we would have liked.

We hope you'll find that the issue's contents, especially the Falcon 030 article and show report, more than make up for the delay. While the Falcon 030 is definitely not a replacement for the Atari TT, we think Atari has one heck of a great product for the home computer market in the Falcon. For multi-media, entertainment and other areas relying heavily on graphics and sound, Falcon 030 simply can't be beat.

Bill & Pattie Rayl

# ATTARII IINTERFACE

#### Your Connection to the Atari User Community

May 1992

#### FEATURE ARTICLES

Right On Target
David Plotkin, Contributing
Editor, shares his views on the
lack of Atari Dealers in the US.

#### Haven't You Always Been Playing with Power? ACCEPT's Tim Holt muses on an alternative ST advertising strategy after seeing American Gladiators.

12

# Rasters and Vectors Bill Rayl compares and contrasts the ST's three leading monochrome drawing packages: Arabesque, MegaPaint and Silhouette.

# ShareWare Share-Pay NWPAC's Dale Wooster details his idea on making shareware payments easy and painless.

# **Tecno Ninja**Ed Hall (AAAUA) reviews Software Infinity's game for the 8-bit (Classic).

# The Atari Portfolio Palmtop Zane Binder starts off AIM's new Porfolio support with a review describing the Portfolio and its uses.

#### So You Want to Start a User 30 Group? Part V

Contributing Author Tim Holt concludes his series of articles on making and sustaining a user group.

8	ST versus IBM Hard Drives	3
	RACE's Eric Schofield gives us	
	some guidelines about choosing	
	hard drive equipment.	

#### Advanced Gravis MouseStick 35 Jim Trageser of SDACE reviews the input controller that's not a mouse, and yet, not a joystick either. It's both!

# A-T-A-R-I Contributing Editor Paul Alhart reviews Computer Software Service's Ultra Speed Plus upgrade for the 8-bit that gives the user three operating systems.

The Goofy Guru	
SNACC's Charles Kelly (the	
Goofy Guru) talks this month	
about repairing your 8-bit's	
keyboard, among other things.	

MIDI in the Midst	12
Kest Carter-Morgan (ASTMUM)	
continues his report and	
comments on the recent Chicago	
Atari Show.	

Diamond Back II	47
Bill Rayl reviews Oregon	
Research's excellent hard drive	
back-up utility for the ST.	

# The Atari Canadian Exposition BRAG ST's Mark Pierro reports on the Toronto show held in early April.

# Falcon 030—A Preview of Things to Come After getting a sneak peek at the Falcon, Bill and Pattie Rayl share details on Atari's new line of powerful computers.

Editorial Ramblings	2
From the Reader's Viewpoint	4
Atari Bulletin Board	6
AIM Mac/Spectre Disk	56
AIM ST Disk of the Month	57
AIM 8bit Disk of the Month	58
Advertiser's List	63

#### On the Cover

40

This month we look at graphic packages on the ST. Background image and EPS artist come from Soft-Logik Publishing's collections. Monochrome monitor graphic comes with Arabesque, and the lake picture is a GIF image courtesy CompuServe.

#### From The Reader's



#### **Viewpoint**

Dear AIM,

I guess the only certainty in life is the certainty of change. So it is with me. After twenty plus years of career, a veritable lifetime of success in a highly technical area and learning all the myriad rules of a very bureaucratic, far-flung system, the time has come to move on. With budget cutbacks, promotion slow downs, and the "downsizing" in the wake of the Kuwait adventure, the time has come.

Paraphrasing the words of Paul Simon, "I guess my life of education hasn't hurt me...I can read the writing on the wall." The writing was clear and succinct. It said, "Get the hell out of here." I'm on my

way out the door.

I haven't had to go looking for a job since 1972, when I got my draft notice. I've always known what to wear, how to wear it and how to interact with the people I meet in my profession. Now, I haven't a clue to what's going on. I can't even tell who's who by the ornaments on their shirts. It's

I haven't moved since 1985, and I've never traveled with a horse before, much less two of them. I've never had to move my own stuff further than across town. And, I always knew that, when I got there, my paycheck would be waiting and I'd have something to do. It's

just not that way anymore.

Oh, everything hasn't been sweet. Civilians seldom get shot at, get to shoot back even less, and almost never get told to stay in one place, get shot at and don't shoot back! Civilians get to choose their clothes, for the most part. And, they don't get in trouble if they forget some ornament, or wear the wrong socks or forget their hat. (Who wears a hat in America anymore?) Civilians almost never have to pick up cigarette butts in the dark, or spit shine a toilet at 2AM,

or watch a friend get shot to death, mutilated or blown apart.

Part of the human condition is that we adapt. That may be why we run the planet, instead of the ants and cockroaches (although that is sometimes questionable). And I'm sure I'll adapt. It will be painful, and I'll make some mistakes, but I'll adapt.

So it is with computers. Time brings change, and change hurts. My old Mega, with all its cheats, add ons and adapters, just wasn't a challenge anymore. The software just wasn't there. It was too complicated and expensive to upgrade. And, it was just tooooo annoying to deal with the Hitler complex of our local dealership.

Here's an example. I go in and ask for a 2400 baud modem. "We don't have any and haven't had in months," I'm told. "We have some 9600's for X dollars." Well, says I, can you get me a 2400 baud modem? "Maybe, but does this show you what we think of 2400 baud

modems?"

I think about it, and the next day I call back and tell them to forget it, I'll get the modem elsewhere and I don't like the way they treated me. "If you don't like it, then don't come back," I'm told. With support and service like this, is it any wonder Atari stays in last place?

The last six months I had the Mega, I ran strictly as a Mac, thanks to Spectre GCR from Gadgets by Small. The Mac environment is a "mature" version of GEM, loosely speaking. It is awesomely "user friendly," and it's simple to install and operate. It is the best compromise between Atari and MS-DOS I've seen.

There are more places to buy software and hardware (I can avoid the Hitlers and Goerings), and developers don't go out of business with the amazing rapidity Atari developers do. And the big developers don't drop Mac support because of lack of sales. Apple doesn't make hardware changes and then keep them secret.

So, I sold the Mega. I made the guy who bought it a good deal. Then, I bought a Mac. I'll miss the Atari. It did some great things, and it taught me a lot. But, the time has come to move on. Change rushes in on us and we all must change or perish.

I'll miss all the friends I made in Atariland—Tim, Bob, Steve, and Brian and his dad. But, a lot of my old friends are here in Macland—WordPerfect, Timeworks and others—sometimes under different names or logos, but still the same support.

Many ST people have gone to the Mac; maybe it's a logical progression. At any rate, good bye and God bless you all. Should you ever get back to God's country, give me a call. I promise I won't answer the phone in Spanish.

> Paul Stampfli, author of The Right Brain, (ACCEPT)



Dear AIM,

As spring approaches, and Atari Corp. has once again failed with many of their promises, I hear many of my friends talking about switching to IBM or some other computer....

IBM with all it glitz and glamour, seems to be the computer of the future. But is it really what anyone really needs?

Definitely not!!!

So many people get caught up in this keeping up with Joneses syndrome. Before you think about switching computers due to Atari's lack of customer support ask yourself a few simple questions, you may be very surprized at your answers.

What are 'my' needs for a computer? Most people will choose either word processing or playing games.

Can an IBM do word processing better than your Atari? Cer-

tainly not! Can it play games better? Nope. Does your Atari do these things satisfactorily for you?

Yes, but... But What? But the IBM has so many new things coming out for it all the time.

Ah Ha!!! Now we have gotten down to the real bottom line, in why you are considering switching computers. The IBM has new stuff coming out all the time. If it wasn't for this fallback, you would be perfectly happy with your Atari, right?

Ok, now is the chance for you to make a difference, and make Atari know how you feel. Most all of us are in sincere agreement, that we love our Atari's, and would never switch if Atari would just start listening to our wishes.

#### The Solution:

Write to Atari Corp., Attention Jack Tramiel, Sam Tramiel, and Bob Brodie.

Send each of these three a copy of your letter, and tell them in no uncertain terms, that if they don't wish to lose all of their loyal Atarian following, they need to bolster their support in both hardware and software for both the 8-bit and ST line of computers. Tell them we are tired of waiting, and we want action now!!!

If each and every Atarian in this country would take the time to write to these guys, and tell them this, maybe we would start seeing the new releases here in the US instead of them all going overseas.

The time to act is now, and if you don't do it, then you are not a true Atarian. Do it! We can make a difference!

Write to these guys at: Atari Computer Corp. 1196 Borregas Ave. Sunnyvale, Ca 94089-1302

Jason, Vancouver, WA

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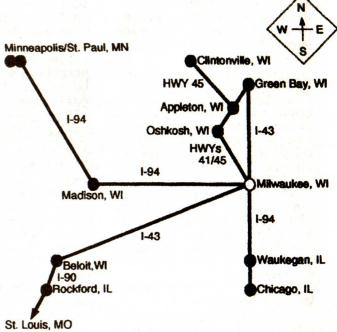
Join us on June 14, 1992 for the 2nd annual AtariFest in Milwaukee, WI.

The show will be held at Bowlero, Red Carpet Lanes, 11737 W. Burleigh Ave. The doors will open at 10:00 A.M. Ticket price: 3.00 dollars

For more information please call (414) 463-9662 or leave e-mail for R. Carpente 18 on Genie, R. Laudenbach on Delphi, or call the MAST BBS (414) 461-1730. You also can write to;

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The following companies will be at the show... Apple Annie, Compu-Seller West, ICD, MegaType, Missionware, MS Designs, Paper Express, SKWare One, and Gadgets By Small And much more...





### ATARI BULLETIN BOARD

#### **Lexicor Recalls Software**

Lexicor Software has recalled all copies of both Rosetta and Prism-Render being sold by RIO Computers. Lexicor alleges that RIO is selling illegitimate copies of these packages. If you purchased your copy of either package from RIO or the package has a "RIO" stamp on the disk or "RIO" appears in the "ABOUT" dialog, send your original diskette to Lexicor Software, ATTN: Rosetta/Prism-Render Recall, 58 Redwood Rd., Fair-Fax, CA 94930.

All recalled copies will be examined for authenticity. If the package is legal, it will be returned to you with a \$25 coupon good towards any Lexicor product. If the copy is illegal, Lexicor will keep the package and send you a "legal courtesy copy" of the software and a choice of registering the software for full warrantee and upgradability or the \$25 coupon. For more details, call Lexicor Software at (415) 453-0271.

64 Megs! Gadgets by Small has confirmed that they are developing a 64 megabyte memory upgrade card for use with the SST 68030 accelerator. The board, which will plug directly into the SST's processor-direct slot, will give you access to a full 64 megabytes of system memory. The board will reportedly use standard one or four meg SIMMs and will act as "very fast, burst mode compatible" RAM! No price or shipping date was mentioned.

Warp 9 Ships

CodeHead Technologies (formerly CodeHead Software) has released Warp 9, the upgrade to Quick ST. Over three months of coding has gone into the update. Literally dozens of bugs and compatibility problems have been eradicated in Warp 9. It now works fine with FSM GDOS, and problems have been eliminated with Touch-Up, PageStream, and many other programs where redraw and

other problems existed.

Additional features over Quick ST 3.0 include a built-in, customizable mouse accelerator and the ability to use function keys to select buttons in alert boxes. Warp 9 speeds up most processes anywhere from four to 12 times! Retail price is \$44.95. Owners of any version of Quick ST or Turbo ST can purchase Warp 9 for only \$20 by sending in their original disk. CodeHead Technologies, P.O. Box 74090, Los Angeles, CA 90004, (213) 386-5735 (Mon-Fri 9AM-1PM Pacific Time).

#### Gribnif News

Gribnif Software has released Convector Professional, an autotracing package that converts raster (bitmap) images to vector graphics. The package can load IMG, Degas, IFF, TIF, PCX, PIC, Arabesque, MegaPaint, Neo-Chrome and other bitmap graphic formats. Vector graphics can be saved in a variety of formats, including Arabesque, Calamus CVG, GEM, GEM/3, Encapsulated Postscript (EPS) and MegaPaint.

Convector also runs a desk accessory, allowing it to be used as an Arabesque module or to vectorize any GEM screen display. It can even be used as a MegaPaint module. The program includes special support for the vectorization of entire fonts and symbol tables, which can then be saved in individual vector files for easy importing into most popular font editors. Convector also generates single vector objects (as required by most font editors). Suggested retail is \$149.95.

The Gribnifs have also brought Pure C to the North American market. Pure C is the latest version of Turbo C Professional, previously released by Borland Germany. The system includes an editor, compiler, linker and debugger. It works on all Atari ST and TT computers, fully supporting high resolution and extended color displays.

The ANSI standard compiler supports type checking and function prototyping. When an error is found during compiling, simply double-clicking on the error message places the cursor directly on the offending source code line. Libraries are included for the TT's math co-processor, FSM-GDOS support, and the Borland BGI Graphics Library for compatibility with PC programs.

The Assembler is five times faster than before, and supports local labels and longer symbol names. It can also generate code for all 680x0 processors, up to the 68040. It also generates code for the 68881 and 68882 FPUs. The Debugger is a full source level debugger with its own graphical environ-

It allows any number of windows to be open at once. Windows can include source code, variables, assembly, CPU/FPU registers, memory dumps, watched expressions and the system stack. Breakpoints can be configured for a variety of specialized situations. There's even a special "animation" mode, where you can watch the program execute one line at a time.

Pure C requires at least 1 megabyte of memory. Retail price is \$275 US (with \$7 s/h in US, \$10 US in Canada). Turbo C owners can upgrade for only \$175 plus shipping (must include original Turbo C master disks). Gribnif Software, PO Box 350, Hadley, MA 01035, (413) 584-7887.

#### Flash II Released

Missionware Software released Flash II at the Ace '92 show in Toronto. The long awaited "upgrade" to the most popular telecommunications package on the ST is finally available.

The package boasts full compatibility with Flash's old DO files, with the addition of many new scripting features for added flexibility. The software also supports up to 30 function keys, 10 of which are global

and the other 20 specific to each system.

Flash II supports TTY, VIDTEX, VT52, ANSI, VT100, VT101, VT102, VT200, VT300 and Prestel modes. Built in file transfer protocols include ASCII, Xmodem, Ymodem, Ymodem-G, Zmodem, Modem7, WXModem, CIS B+, Kermit, SEAlink and Telesoftware (for Discovery/Prestel systems).

The type ahead buffer supports up to three lines of text which is fully editable using the cursor, delete and backspace keys. The Return and Enter keys perform different functions, depending on the configuration. One can be used to enter forced carriage returns into your message, while the other is used to send the mes-

sage.

The 226-page manual includes a tutorial, detailed section on all functions of the program and a 50-page section explaining (with examples) the DO scripting language. Retail price is \$49.95 US plus \$4 shipping and handling. Upgrading from any old version of Flash is \$30 plus \$4 shipping. You must include your original Flash disk as proof of ownership (the disk will be returned to you). Missionware Software, 354 N. Winston Drive, Palatine, IL 60067-4132, (708) 359-9565.

#### **MacRead**

MacRead is a new utility from Goldlead Publishing that lets you read data files directly from a Macintosh formatted HFS hard disk or a Spectre formatted HFS floppy disk. You can then store these data files on an ST disk. HFS is Apple's current disk format, and is much faster and more flexible than the older MFS format.

MacRead lets you work with both Macintosh and ST/TT computers. Use your Macintosh (or Spectre emulator) to create your artwork or other files, then copy them to your ST/TT. Images, illustrations, text, data, PostScript files, and more can easily be read from a Mac disk for loading into an ST/TT software program. MacRead is available now for \$49.95. Goldleaf Publishing, 700 Larkspur Landing Circle, Suite 199, Larkspur, CA 94939, 415/257-3515.

I-Koen Design News

I-Koen Design, publishers of Radical Type magazine, has moved from Canada to the US. Publication of Radical Type will continue after a two month break following the March/April '92 issue. Radical Type is the only magazine dedicated to Amiga and Atari publishing, with an emphasis on PageStream, ProPage and Saxon Publisher (the latter two being Amiga packages). Subscription rates for 1 year (6 issues) are \$18.95 US (\$24.95 US for foreign subscribers).

The I-Koen Design Guide to PageStream is available. The Guide contains reference charts for fill styles, halftone screens and other effects at 300 and 1200 DPI

output. Help on writing macros is included, as are font samples, character set comparison charts and keyboard reference charts for graphic characters. The 20-page guide retails for only \$6.95 US.

Finally, I-Koen has released Idea Forms One, a package of over 200 templates and forms for personal or small business use. The templates are divided into 11 design series, allowing you to maintain a uniform

appearance over a range of documents.

Requires PageStream 2.1 or higher. Includes 3 disks and a 24-page manual. Retail price is \$39.95 US. Contact M.LOADER1 on GEnie or look for Mike Loader in the Soft-Logik area in CompuServe's Atari Vendor Forum (GO ATARIVEN).

**STacy Battery** 

DragonWare Software announced the Dragon Batter Kit, an internal battery for the STacy portable. The kit adds only 2.2 pounds to the STacy and includes a dealer-installed cable and jack and one 2.2 amphour battery. On a stock STacy, this gives over two hours of use on one charge.

The battery has a fast charge option that recharges the battery in about two to three-and-a-half hours while you use the computer. The Dragon Battery Kit has a suggested retail price of \$94.95. DragonWare Software, PO Box 1719, Havre, MT 59501-1719, (406)

265-9609.

#### SilkWare

If you purchased a graphics tablet from EI/O or QMI and find your tablet no longer workes when you upgraded your TOS, SilkWare has just what you need. If you want to add a graphics tablet to your ST, Silk-

Ware to the rescue again.

SilkWare has announced a pair of graphics tablet drivers for the ST. One driver supports the Mitsubishi tablet (as sold by QMI) and the other is for the Summagraphics tablet (which EI/O supported). Both drivers are "painstakingly TOS-legal," so as to work with all TOS versions, all processor speeds and all resolutions. Price, including shipping, is \$29.95 for either driver. SilkWare, ATTN: Mark Slagell, PO Box 3260, Madison, WI 53704.

MIDI Maze for Lynx?

A recent reply to a letter in Video Games and Computer Entertainment indicated that while MIDI Maze was once under consideration for development on the Lynx, Atari's Entertainment division is not currently pursuing the idea. VG&CE magazine has proposed a letter writing campaign to help get Atari "off the fence."

If you would like to see MIDI Maze on the Lynx, write to Atari Entertainment, 330 N. Eisenhower Lane, Lombard, IL 60148.

If anyone asks, tell 'em you saw their ad in AIM!

### Right on Target



# David Plotkin Contributing Editor

There is something of a "Catch 22" in becoming a new Atari dealer which may account for the lack of enthusiasm.

I was recently reading my copy of Atari-User, an ST Magazine that manages to do a pretty good job of covering events in the Atari world. In this particular issue, the staff of AtariUser had undertaken to identify all the Atari dealers in the US.

They had, after some negotiating, received from Atari a "highly confidential" nationwide list of about 1,000 dealers (I have to wonder why the list is confidential). They were initially encouraged by the numbers—1,000 dealers works out to at least one dealer in every major city. They were, however, suspicious, as we all have heard of large areas with no dealer and stories of having to drive five hours to the nearest Atari dealer.

They decided to try verifying that the list was accurate by phoning as many of the dealers as they could. Pretty soon, the awful truth began to dawn, and by the time they had worked their way through the list, it was as clear as a spring day.

After eliminating "dealers" who were no longer in business, dealers who may have at one time queried Atari on what it took to become a dealer, stationary stores that sold Atari brand calculators, a variety of stores that had nothing to do with computers, private residences who were not amused by the phone call and at least two empty lots, they had the numbers at last.

There were, by AtariUser's count, between 100 and 200 bonafide dealers. Think about that for a minute. That is between two and four dealers per state. A whole raft of states didn't have any dealers at all. When you realize that some cities have as many as three dealers, you can see that the "network" of Atari dealers is stretched pretty thin.

It doesn't take a rocket scientist to figure out that a computer you can't buy will never catch on. And remember, technically, you can't buy these computers by mail order—you have to go to a dealer. Kind of makes me sad.

#### The More Things Change...

The whole business of the number of dealers takes me back a few years. I don't remember the exact year, but it was about the time Atari decided to take its stock public. One of the things you have to do to meet the SEC's requirements for selling your company's stock is disclose a lot of information. This is so people deciding whether or not to buy the stock are well informed.

One of the things Atari had to disclose was the number of dealers they had selling their computers. As I recall, the number they published was about 1,000 (does this sound familiar?).

At that time, I was doing a column for STart magazine, probably the most widely read magazine for the ST until its demise in February of last year. The column detailed emulators—the Spectre GCR and several PC emulators, including Avant-Garde's pc-ditto were the primary focus of the column.

I did a lengthy interview with Bill Teal, president of Avant-Garde, and the results of that interview were published in my column. In the interview, Bill told me of an effort by several developers to try and figure out how many Atari dealers there were. Starting from a list of dealers provided by Atari, Bill and several others began phoning.

The results, as you have probably guessed by now, were significantly different from what Atari claimed. They found, at that time, about 250 dealers. This is what I published in my article.

Then the fun began. Apparently, someone at the SEC read STart (who would have guessed it—Atari owners turn up in the weirdest places). They compared the number in my column with the number in Atari's officially

filed documents and had some very hard questions to ask of Atari.

I don't know how it all worked out, except, of course, that Atari was eventually able to satisfy the SEC, because Atari stock did go on sale. Needless to say, neither Bill Teal nor myself were particularly popular with Atari at that point!

That column happened to appear in the issue of STart that was sold at the World of Atari in April of that year. I was there—so I heard the whole story from Bill Teal firsthand.

It was also there that I happened to be sitting at breakfast in the Disneyland Hotel restaurant when Sig Hartmann (president of Atari Software then, and since retired) joined me at my table. He was very diplomatic and admitted that Atari did indeed need to straighten out the number of dealers they had. Sig didn't blame me for letting the cat out of the bag (which I didn't do with any malice toward Atari). But then, Sig always was a gentleman.

#### **Dealer Drought**

There is something of a "Catch-22" in becoming a new Atari dealer which may account for the lack of enthusiasm. For one thing, setting up a dealership takes considerable resources (time and money), as well as determination. If you intend to service the machines, you also need to find a qualified technician—they are scarce, I can tell you.

In order to stay in business, you need to sell machines and software—a lot of machines and software. Of course, this presupposes that a lot of machines and software are available to sell.

Software there is—powerful stuff, too. Much of the new stuff depends to a great extent on European manufacturers. Many of the overseas companies are not particularly interested in distributing in the US, even assuming they bother to translate their manuals into English. Fortunately, of course, we can use the British manuals (do you know what a "full stop" is?).

Machines are more problematic. Nothing I have seen Atari do has accounted for much increase in production, which was inadequate in the first place. The new machines are certainly impressive, especially the TT and the little STBook portable. But, Atari needs production quantities an order of magnitude greater than they are providing to really crack the market. In order to create that many machines, they are going to need new production facilities.

And even if Atari could produce the necessary quantities, they would need to get the word out. And they need four to five times the dealer base they have now. I don't see people flocking to sign up. I don't say its hopeless, but Atari just doesn't seem to be making much of a concerted effort. Changing officers and reorganizing every few months just doesn't cut it. They have to do something. As it is, I think the number of dealers will continue to shrink—and Atari computers

will get ever-harder to find. I don't like it, but I don't

see the situation changing anytime soon.



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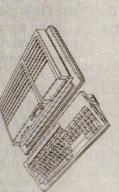
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### Haven't You Always Been Playing with Power?

(An Alternative ST Advertising Strategy)

# Tim Holt

Billy Bob and I were getting ready for the January meeting of ACCEPT, and we had a few minutes to kill before we went to the meeting. Did we discuss computers? Did he tell me all about the latest news in the Mac world? No, we did what any true Atari computer enthusiast would do with some time to kill on a Saturday afternoon—we watched American Gladiators. Now, I don't know if you are familiar with American Gladiators, but it is basically a step above Championship Wrestling and a notch below MTV on the old intellectual meter scale.

We sat there, waiting for ICE—a woman who obviously started taking steroids as a child—to do battle with some poor moron the producers had taken off the street.

Right as I was finishing the last of my Peanut Butter Fudge Sundae ice cream, Larry Czonka, former has-been in the NFL, let us know what was coming up: "In a few minutes, Ice, who broke her ankle in the Balls of Death competition just five minutes ago, has made an amazing recovery and will take on Mildred Johnson, a mother of five and part-time rodeo bull rider, in the Nintendo Wall of Doom."

"By the way," Larry went on to tell us, "the Wall of Doom is sponsored by Nintendo. Nintendo, now your playing with power!!" And so it went. Ice was able to catch up with Mildred, even though Mildred has a good 30 second lead, and Ice threw her off

the Nintendo Wall of Doom.

Throughout the show, there was a barrage of Nintendo this; Nintendo that; the Nintendo halftime score; the Nintendo interview with Moose, the American Glad-

iator from the Yukon who had no body hair; and so on.

Billy Bob and I looked at each other. Every commercial for Nintendo was pretty much the same. Now, you have 16-bit power! Now you have stereo sound! Now you have 3D graphics. Wow! (Being a school teacher, I can tell you that most kids—and that is who this was aimed at—have absolutely no idea what 16-bit anything is. Half might figure out 3D graphics and I'll guess 60% get the stereo sound part right.)

Billy Bob looked at me. "Isn't that what we have had for the last 6 years?"

"Yep. Sure have. But these kids, looking at these commercials think that 16-bit power, stereo sound and 3D graphics were invented by a little old Japanese guy

named Mr. Nintendo."

Commercials for the Sega this and the NEC that were on the second portion of American Gladiators. (Apparently, the producers haven't heard of the concept of product loyalty, and pretty much take any commercial. Who cares if they are for competing companies?)

We saw the Sega "At Home with the Gladiators" and the NEC "Win a Date with the Gladiator of Your Choice" essay contest (Dear Moose, I would love to date you because I never met a man whose pecs were four times my bust size. Love,

Jenny.)

Then, they trotted out the newest Nintendo offerings. Hmm. SIM City, F-16 Flight Simulator, Golf, Championship Chess. We've been playing those games



for years! And, from the looks of the graphics, I would say the ST versions beat those *Super* Nintendo versions by a mile

by a mile.

Which leads me to my thesis: Why doesn't someone advertise the ST to these kids who are buying up these Nintendo systems like they are manna from heaven?

I know. We've been trying to get out of the game machine image for years now. And I think that, by and large, those that are still buying STs are not buying them because they are game machines.

But, our numbers are shrinking. It's about time, and I never thought I would say this, that we swallow our pride and just say "Look, this is a great game

machine! It kicks Nintendo's butt!"

Any game on Nintendo looks 1000 times better on an Atari STe. C'mon kid, get your tush over here and play Falcon for a few minutes. Ever see that on Nintendo? Noooooo! Mig 29? Kick your little fanny, bub. And it's got, get this kid, 16-bits! Stereo sound! 3D graphics! And you can even use the darn thing to do your homework on if you wanted to. Can't do that on a Nintendo. See that Nintendo hooked up to an electronic piano over there? Come look at this Atari ST. It's hooked up to an entire orchestra! Let's see your Super Nintendo do that.

Why do I recommend selling our beloved Ataris as game systems? Well, actually, there are several reasons:

The user base is shrinking. We simply cannot rely on DTPers and musicians to keep our computer alive. It doesn't matter who is buying the machine, as long as someone is buying it! We could have alien technology super computers the size of a wristwatch, but if no one buys them, what good is it? Thirteen-year-old kids buying \$600 system are just as good to the bottom line as 55-year-old business types.

David Plotkin, in the January AIM, stated "Atari needs to get more machines sold and build their user base or 1992 may be the end of it." I know you hear that every year, but someday, those gloom and doom guys just might be right. Selling to the "Game Crowd" is just as good as selling to the Music or DTP crowd.

"Well, someone buying a machine for Desktop Publishing will spend more money," you might say. Wrong-o. A person that buys a computer to do a specific task, say Desktop Publishing, may have an initially larger investment than a family that might buy the

computer for entertainment.

However, once the DTP guys buy the system and the program or two that goes with it, they are through. No more investment. Billy and his friends, however, will continue to purchase the latest software as soon as it comes out. How many families do you know of that have a Nintendo with a zillion cartridges? I know a family that was robbed, and the bandits took off with over \$2500 in Nintendo games!

Large game sales make other companies look at the

market. Don't you think the computer software wizards have tried to figure out ways to get into Nintendo's market? Why? Because of the kids? No, because they have seen the number of systems out there!

If some company sold 500,000 copies of a game for the Atari, don't you think companies like WordPerfect and Spectrum Holobyte and Broderbund might take notice? Who cares if it was a game that sold? Five hundred thousand copies means that there are at least 500,000 machines that can run that game! Get it? Five hundred thousand potential WordPerfect, Carmen San Diego or MS Works users! Money talks. Numbers talk.

Games, er, entertainment software is no longer looked at as the stepchild of computers. All those folks with their Messy-DOS systems can't wait to get super VGA graphics. Why? Not because WordPerfect looks better in VGA. It's because all those new games require VGA or Super VGA graphics. IBMers are buying games. Millions of games! IBM clones have become the game machines! Why? Because they now have graphics that are catching up with the Atari world.

Games now have credibility, simply because of the numbers in the MS-DOS world. Atari is no longer the game machine. All those clones out there are the true game machines, and as such, have given the term

"Electronic Game" new respectability.

So what if people call Atari a "Game Machine"? If we can use that image to sell Atari's, then USE it!

Game Machine! Game Machine! Game Machine!

Imagine this commercial, during a break in American Gladiators:

A little kid playing a game on his Super Nintendo. He shows his friend his "latest game". His friend tells him "I finished that game last year."

"Well, what about this game, it just came out last week?"

"I finished that game three months ago."

"Three months ago? It just came out for the Nintendo"

"That game came out two years ago for my Atari ST."

"I didn't know that."

"And the Atari had 16-bits, stereo sound and 3D graphics even before Nintendo was a company in America. Besides, my dad uses our Atari for business, and Mom does all the house stuff on it...when I let them use it."

"Gee, you can't do that on a Nintendo."

Fade out to black. Then the screen shows the Atari STe and MegaSTe computers. Fade again. The Atari logo comes on, and the voice over says "Atari: We've always been playing with the power."

Game machine? Yeah.

# Rasters and Vectors A Review of



# MegaPaint Sillhouette

Drawing programs that handle both vector and raster graphics are one of the newest, and most important, types of graphics software to be released for the Atari ST.

These graphic creation packages are invaluable to desktop publishers and graphic artists. Along with auto-tracing programs—which automatically convert raster graphics to vector formats—raster/vector drawing pro-

grams are an essential part of any complete DTP platform.

This article looks at the three best packages in this category. Arabesque Professional is produced by Shift GmbH and marketed in North America by Gribnif Software. MegaPaint II Professional from Tommy Software (also in Germany) is marketed by CodeHead Technologies. The only "made in America" entry is Silhouette from Maxwell CPU of Louisville, Colorado.

All these packages are monochrome only drawing packages, although you can colorize vector images from within your favorite DTP package.

The State of Things...



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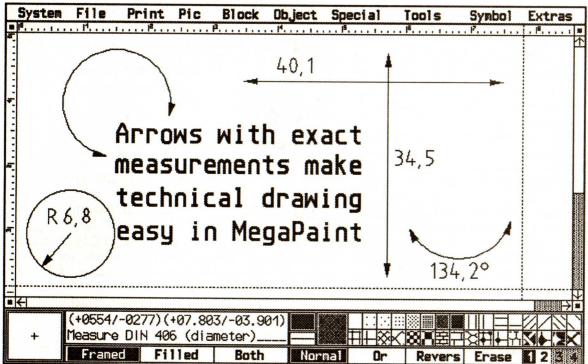
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Bill Rayl



Each of these packages have a lot in common, and for general illustration purposes you would most likely be happy with any one of them. However, each package does have specific functions and features that the others do not. Depending on your needs, these extras may tip the balance.

#### Rasters versus Vectors

Before getting into the specific virtues of each program, it's important that you understand the difference between a raster and a vector graphic.

Raster graphics are made up of many tiny pixels. Drawing a raster graphic is, in actuality, drawn pixel by pixel—if you use a circle tool in a raster drawing program, the computer places the pixels appropriately, but it does so one pixel at a time. Modifying these graphics is, as you might expect, also done pixel by pixel. Raster graphics are also often referred to as bitmap graphics.

Most paint programs you are familiar with—such as DEGAS, Suerat or Prism Paint—are raster graphics drawing programs. Scanning/drawing programs such as Touch Up and MultiViewer Graphica are also raster

packages.

For professional DTP work, raster images have a number of limitations. The most noticeable of these is that raster graphics tend to become "jaggy" when enlarged beyond a certain point. Also, fill patterns contained in raster images change as the graphic is resized, often causing unwanted "moire" patterns. Finally, scanned images of 300 DPI or higher, which are necessary for quality output, can take up enormous amounts of disk space and memory when loaded into DTP packages.

Vector graphics are geometric shapes made up of

mathematical points and calculations. With various drawing tools, you can create anything from a simple line to very complicated polygons.

Editing these graphic objects is done by modifying specific points. For instance, look at a simple line. As a vector graphic, a line is made up of a starting point and an

ending point (plus information on the width and length of the line, fill pattern used, etc.). To modify the direction or length of the line, you would, for instance, select the ending point and drag it to the new location. Once you set the point, the line would redraw. If you're familiar with the way lines are drawn in DTP packages like Calamus or PageStream, those are vector graphics.

The very first vector graphics drawing package for the ST was Migraph's Easy Draw, which saved in the popular .GEM format. Since then, other packages have appeared, most notably Calamus Outline Art from ISD, which supports the .CVG (Calamus Vector Graphics) format.

The benefits of vector graphics for DTP work have nearly a one-to-one correlation to the drawbacks of rasters. Vector graphics do not lose any of their quality when resized, their fill patterns remain unchanged and they usually take up considerably less memory than an equivalent raster image.

Vectors also have the additional benefit of being far easier to edit and manipulate. Since a graphic can be produced from many independent pieces and these pieces can be layered, drawings can become quite complex and detailed.

#### Now That That's Over...

Arabesque, MegaPaint and Silhouette all have the "standard" features you would expect to find in a drawing package. These include tools such as flood fill and spray can, as well as cut and paste functions. Anyone who has used any paint program is already familiar with basic drawing tools.

This article won't dwell on those. Instead, we'll discuss some of the similarities of the packages (and dif-

ferences) in such areas as file format support, printing and text capabilities. Then, we'll take a look at the uni-

que features of each program.

While the user interfaces for each package are somewhat different, it is quite easy to switch from one to the other without any trouble. This is, in part, because these three programs all attempt to make the drawing process as intuitive as possible.

Arabesque's interface is via a toolbox containing icons, with keyboard equivalents for every available option. Silhouette also has a toolbox for selecting drawing tools, but drop down menus are used for option and mode settings. MegaPaint has extensive use of both drop down menus and an icon toolbox, and you can even customize the toolbox to your own needs.

Of course, Silhouette and MegaPaint also have keyboard equivalents for many features. But neither comes close to Arabesque, which lists seven pages of

hotkeys in the manual!

The raster and vector graphics drawing modes are separate from one another in all the programs. You switch from one mode to another via a drop down menu option, keypress or whatever. In Silhouette, the exact same tools are available in both modes. Arabesque and MegaPaint have some different options depending on the drawing mode.

#### **File Formats**

One important consideration that has nothing whatsoever to do with the drawing capabilities of these packages is what kinds of graphics can they import and export (load and save).

Arabesque supports the most file formats, allowing you to load and save IMG, Degas, IFF, Neochrome,

Load picture +
Save picture +
Erase file
Directory
Format disk

Load DEGAS-picture
Save DEGAS-picture
Load 32/RByte-picture
Save 32/RByte-picture
Save STAD-picture

External problem

divided" images).

Doodle, Art Director, STAD and StarPainter ST raster graphics and GEM/3 and Calamus CVG vector images. Arabesque also has its own special bitmap (.ABM) and vector (.AOB) formats.

MegaPaint allows loading

and saving of IMG, Degas, STAD and raw 32K screen image formats, as well as

formats, as well as the popular PCX format from the IBM world. With external modules (available free from CodeHead), you can also load Degas Elite, TNY and CVG formats. MegaPaint also has load and save options for its own raster .BL? format (.BLD or .BL1, .BL2, etc. for "sub-

Menu Bar Mania Load DEGAS Elite Load TNY Picture

MaxIFIle III

On the vector side, MegaPaint is the least flexible of the three packages we're looking at, loading only its own proprietary .VEK format and saving only VEK or CVG formats. The CodeHeads do promise future sup-

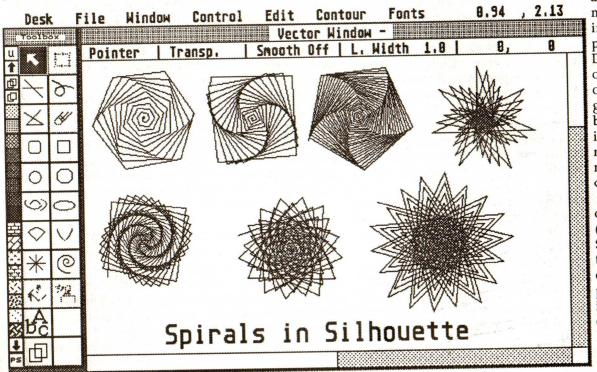
port of other formats via external modules.

Silhouette's raster support includes the loading of IMG, Degas, Degas Elite, Tiny and MacPaint graphics. A grayed out TIFF button indicates this scanned image standard will soon be supported as well. When saving a raster, the only supported format is IMG.

The only choices for loading vector graphics in Silhouette are GEM format and Silhouette's own .SGF format. However, when it comes to supported vector formats for saving, Silhouette beats both Arabesque and MegaPaint. Support includes GEM and GEM/3, EPS (Encapsulated PostScript, Illustrator compatible),

and DXF format for loading into CAD programs like DynaCADD or AutoCAD on the IBM. A grayed out button here indicates Calamus CVG format is also coming.

For users of PageStream (or other Post-Script systems), Silhouette's EPS support is an important consideration. Now, the graphics saved



are imported into PageStream only as ASCII EPS (the picture doesn't show and can't be manipulated inside PageStream). Tim Reyes, Silhouette's author, says full "Illustrator 2.0 compatibility" for the EPS files is a high

priority.

While Calamus (pre SL) owners can use GEM format graphics, the CVG format is far superior. Hence, Silhouette's current lack of that format is a detriment, while both Mega-Paint and Arabesque score a plus in this category. The new Calamus SL supports the newer GEM/3 format, making Arabesque and Silhouette attractive options.

Finally, MegaPaint's support of the PCX format is very important to anyone dealing

with graphics coming from the IBM world. Nearly all scanning packages on the IBM have PCX support, as do many IBM-based drawing packages.

**Text Support** 

All three packages have text support that is above and beyond what you might expect in a drawing package. MegaPaint comes with the Helvetica font in 18, 24, 30 and 36 point sizes and has a built-in standard text font besides. A separate utility bundled with MegaPaint allows conversion of Signum fonts from the popular German-based product. Fonts can be used in both raster and vector modes. Up to eight external fonts can be loaded.

Arabesque also comes with a utility for converting Signum fonts to its font format. Fonts that ship with the package are Courier (9, 24 and 30 pt.), Micro (30 pt.) and Roman (9, 24 and 30 pt.). Not counting the built-in System font, you can have up to five external fonts loaded. If you have and use GDOS (not supplied with Arabesque), you can use those fonts at various point sizes. GDOS fonts are not, however, usable in vector mode.

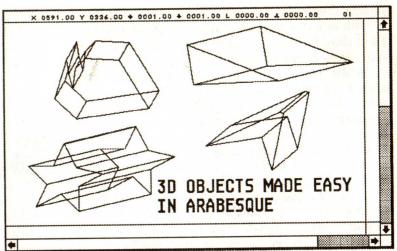
Silhouette's text support is entirely via GDOS, which is supplied with the package. Both Font GDOS and the newer FSM-GDOS are supported (only Font GDOS is supplied). The package comes with Swiss, Dutch and Typewriter fonts, and multiple point sizes from six to 72 point are available with Font GDOS. These GDOS fonts can be used in both raster and vector modes.

**Printer Support** 

While usually not a very important consideration for DTP users, graphic artists often like to have the ability to get hardcopy results directly from their

drawing packages.

While Silhouette does not have a built-in printing option, a companion program called OUTPUT uses the GDOS output driver indicated in your ASSIGN.SYS file. Using the OUTPUT program, you can get printouts of your graphics, but you must exit from Silhouette to run OUTPUT. Silhouette only comes with



an Epson FX-80 compatible GDOS driver. Drivers are available from other sources for Atari and HP lasers, and FSM-GDOS comes with a host of printer drivers.

The printing options of Arabesque and MegaPaint are much more extensive. Arabesque comes with printer drivers for the Atari laser, HP laser, Cannon Bubblejet and various 9-pin and 24-pin dot matrix printers. A section of the manual details how to build your own printer driver.

Arabesque's built-in print option allows printing of multiple copies. You can print the whole page, just what appears in the screen area or only a selected area. Portrait or Landscape (sideways) printing and opt to

print the graphic at full or half size.

MegaPaint ships with drivers for Atari laser; HP LaserJet II, III and IIID; HP DeskJet and DeskJet Plus; and various 9-pin and 24-pin printers (including a specific driver for Panasonic KX-P series printers). MegaPaint even has color support for printers such as the Star LC10 and NEC P6+. Up to four colors can be printed at one time, one for each "plane" that makes up a picture in MegaPaint. These planes can be thought of as separate layers, similar to an architectural blueprint. MegaPaint also offers the ability to create and save your own custom printer drivers.

Actual printing options in MegaPaint are quite similar to those in Arabesque. You can print the full page or just a section, Portrait and Landscape modes are supported and multiple copies can be printed. MegaPaint does have the added option of printing multiple copies of up to 16 different graphics. (Note: You can't print multiple pictures and use MegaPaint's color

printing option at the same time.)

#### Manuals

The manuals that ship with each package are, by and large, excellent. At 88 pages, the Silhouette manual is the smallest of the three. It does, however, cover all the program's features quite nicely. The only complaint with the Silhouette manual is the lack of an index.

The MegaPaint manual is, at once, the best and the worst of the manuals. It contains far more detailed

description of the program's functions and contains a wealth of extra information. It does suffer from one flaw, though. The translation from German to English left this manual with some rather awkward sentences.

At times, it seems the translator had to make a choice between words with very different meanings... and s/he sometimes made the wrong choice. The translation was obviously done by someone who used English as a second language. (Of course, his/her English is far better than my German!)

Here's an example. On page 101 when introducing the topic of scanners, the manual states "MegaPaint disposes of a variable scanner interface." The actual German word for to dispose that was probably in the original is einrichten, which also translates to constitutes or establishes. To say that Megapaint "establishes a variable scanner interface" is probably closer to what was meant. What it boils down to is that "MegaPaint can interface with a number of scanners."

Thankfully, these mental exercises are not too strenuous; I have yet to find any phrases that are so convoluted as to totally lose the reader. There are a few times when you'll have to do a double take, though.

The English version of the Arabesque manual was written by Gribnif's Rick Flashman here in the US. Hence, it does not suffer from a translation problem. In fact, I can find no fault with the Arabesque manual whatsoever. It has a good index and the chapters are organized in a logical fashion.

#### Arabesque

Well, we've probably dealt enough with the similarities between these packages. Now, it's time to get to the real interesting part—the features and capabilities

that each program boasts. We'll start with Arabesque.

The most impressive feature Arabesque has that the others don't is a Buffer Fill to Fit option. Once you have copied some graphic to the buffer, Arabesque gives you many manipulation options for that graphic. The most striking is the ability to use the buffer as a fill. The Fill to Fit option actually stretches or skews or otherwise contorts the buffer's content to fill whatever object you choose. The results of such a tool can be seen in the example where an Audi has been used to fill various polygons.

Another nice fill option is that Arabesque supports gradient fills—automatic gradation from black to white. While not very sophisticated—you cannot specify gray scale percentages, increments or starting and ending values—it is nonetheless a welcome addition that is sadly lacking in most ST drawing packages.

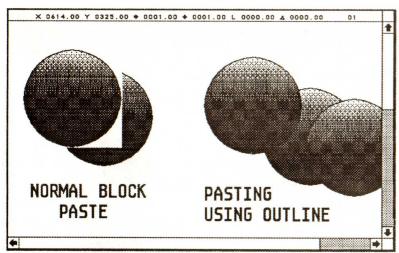
Nearly as impressive as Fill to Fit is Arabesque's ability to generate 2D or 3D polygons. Drawing 3D polygons is as simple as drawing the polygon, with the extra step of adding depth to the object by moving the mouse. The results are excellent. A special "conic" option draws the endpoints of all lines into a single point, making it easy to create "zoom boxes" or other fading effects.

Arabesque's extensive block operations include such items as Contour, Smooth, Bend and Pull. Contour drops out the filled part of a block, leaving only the outline. Smooth is a wonderful option that lessens the jaggies that occur when enlarging bitmap images.

Bend allows you to bend or distort a block, with the option of Linear, Arbitrary, Ellipse or Sinusoid bending path. The Pull option lets you select the corners of the block and stretch them independently from one another.

Fill to Fit creates interesting objects

Pasting of irregularly shaped bitmap blocks on top of one another in most paint programs includes pasting part of the background as well. Arabesque has a special masking procedure that allows you to paste objects according to the outline. If you've ever pasted objects on top of other objects and then



had to do lots of cleanup of individual pixels, you'll find this capability extremely important. (See the example graphic screen comparing a normal block paste to Arabesque's irregular paste option.)

The final unique feature we'll touch on here is that Arabesque can actually combine raster and vector graphics into one picture. Unfortunately, you can only save these combined graphics in Arabesque's own internal file format. That format is not supported by any other programs at this time.

#### MegaPaint

MegaPaint has a number of very interesting capabilities not found in the other packages. The first of which is direct scanner support. The package comes with built-in support for the Hawk CP14 and Print-Technik Universal or Professional scanners. With the ScanLite module (free from CodeHeads) and ScanLite from Wiz Works, nearly every hand scanner on the market can be used to directly scan into MegaPaint.

A number of MegaPaint's features make the package very suitable to technical illustration. A "measure"

feature allows you to insert a line or arrow along with a textual measurement of distance, radius, angle, diameter or arc length. The use of up to four "planes" lets you create multi-level drawings, similar to floor plans and blueprints. There is even an option to show the planes at varying intensities, which is perfect for technical drafting or animation work.

MegaPaint also supports "symbols libraries" and comes with two raster libraries of electronic symbols and two vector libraries of text objects.

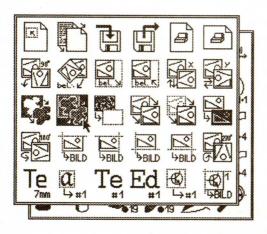
MegaPaint has, by far, the most built-in object drawing tools of any ST paint program on the market. The Objects drop down menu has over 20 entries, including Point, Line, Triangle, Rectangle, Rhomboid, Parallelogram, Polyeder, Circle and Ellipse Rings, just to name a few. While you can create many of these objects in the other packages, MegaPaint makes it a snap.

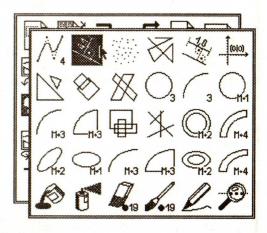
The external modules support in Mega-Paint has already been mentioned a couple times. While Arabesque supports the "GEM pipeline" for possible future enhancements via desk accessories, MegaPaint has a number of

add-ons already available. Many of these available external modules from the CodeHeads have been released on the online services. And the CodeHeads promise there are more to come.

While all these programs have fill pattern support, MegaPaint is shipped with some custom fill patterns. The *pinprint* patterns are specially designed for dot matrix output up to 240 DPI, while *laser* is optimized for 300 DPI and higher output. There are also special fills containing 32 gray scales, 32 coarse gray rasters and 32 hatching patterns.

Probably the very last thing you would expect to find in a paint program is built-in database and mail merge capability. Well, MegaPaint has it! You can actually create graphic-oriented form letters and use a mailing list to do a mail merge from within MegaPaint. The software directly supports Adimens, dBase and Lotus 1-2-3 compatible lists, as well as gives you the option to define your own import format. I tested this feature using an address list exported from Super-Base and it performed flawlessly. Simply amazing. What will they think of next?





MegaPaint's Customizable Toolbox

#### Silhouette

As of version 1.36, Silhouette has matured into one of the premier graphics packages available on the ST. With version 1.5 scheduled for release in early May, the package promises to be even more stable and more powerful.

Probably the biggest feature unique to Silhouette is its built-in auto-tracing capability. Auto-tracing is pretty much what the name implies—the automatic tracing of a raster graphic, creating a new vector graphic in the process.

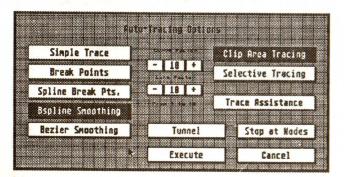
While the more sophisticated stand-alone packages like CodeHead's Avant Vector or Gribnif's Convector are far more powerful, Silhouette's auto-tracing features may be all the average user ever needs. Silhouette performs extremely well with tracing straight black and white

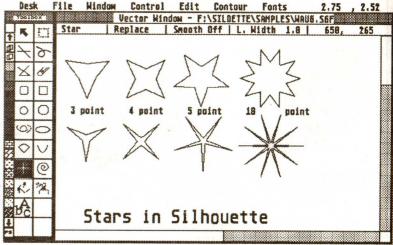
images with little or no gray scales. Complex graphics with lots of fill patterns are far less successful and usually require some clean up work to get the desired results.

I have personally had quite a bit of success using Silhouette to auto-trace Degas and MacPaint black and white clip art. Options range from a simple trace up to tracing using Bezier curves, and numerous other smoothing and tracing settings complement the process. You often get very good results when mixing different tracing options for different parts of an image.

Another very nice feature, primarily because of its powerful implementation, is the Duplicate option. Selecting Duplicate brings up a dialog box crammed full of options. You can, for instance, duplicate an object 100 times. With each duplication, you can rotate the object by degrees, increase/decrease the object's height and width and apply an incremental gray scale all at the same time.

You can select Free Style, Radial Offset or Cartesian Offset duplication. With the Cartesian setting, you supply the actual X and Y offsets. Radial Offset presents you with an arrow. By increasing or decreasing the length of the arrow (as well as the angle from origin), you determine how loosely or tightly the duplicate are packed. Free Style creates as many duplicates as there are points in a "polyline" that you create. Basically, with Free Style, you determine the exact path for the duplication. Experimenting with the options available here is highly recommended. You can create some spectacular corkscrew or spiraling effects with this feature.





Two of the other impressive tools found in Silhouette are the Star and Spiral drawing tools. Using the Star tool, you can create star-shaped objects (or other polygons) with anywhere from three to 99 points. Pressing the left and right arrow (cursor) keys modifies the star's inner radius.

The Spiral tool is one of the cleverest drawing tools I've ever seen. It's like having a Spirograph on your computer! The more spirals you add, the more complicated the object becomes. You control the "pitch" (tightness) and "roll" of the spiral. When the spiral is ready to be set, you have the option of setting the spiral exactly as shown on screen or allowing Silhouette to complete the drawing process as would occur on a Spirograph.

#### Observations

As you can see, each of these programs has a lot to recommend them. In using all three packages, there are some general observations I can make that may help you choose the one that's right for you. First, if you're looking for basic drawing capability, you will be happy with any of these packages.

As a generalization, I would say the following: Arabesque is the strongest raster drawing package of the three. Silhouette is the best on the vector drawing side, offering some powerful tools and more file formats. MegaPaint is the most balanced of the three, handling raster and vector drawing equally well.

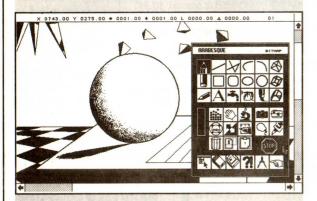
For technical illustration and/or direct scanning support, MegaPaint is the clear choice. If converting of raster images to vector formats is important to you, Silhouette's auto-tracing options are far better than doing it by hand in the other packages. For creation of 3D images with depth and texture, Arabesque has the tools to do the job most efficiently.

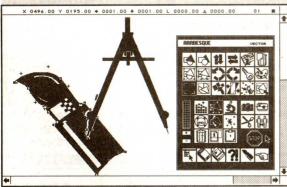
Unless you've made up your mind which package best suits your needs by now, making a decision is going to be tough. Personally, I'm glad I have all three packages and don't have to make such a hard choice. If you can afford that option, I heartily recommend it as each package offers some very useful options the others don't.

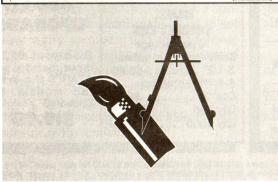
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- 108 different fill patterns, edit your own or use an image block.
- Block operations (rectangle or arbitrary shape) including: cut, paste, mirror, rotate, bend, increase contrast, contour, smooth, enlarge, save and load.
- Outputs to 9- and 24-pin dot matrix, "Bubblejet", as well as Atari and HP laser printers.
- All functions operate rapidly in magnification mode.
- A complete UNDO feature.
- Load and save various graphic types including IMG, IFF, Degas, NeoChrome, Doodle, Calamus CVG, GEM/3 and Arabeque's own compressed formats.
- Configurable "spray can" feature.
- Complete selection of drawing modes, including: replace, XOR, AND, transparent, reverse, and more.
- Easily convert Vector graphics to Bitmap graphics, with optional use of gray scales.
- · Fully illustrated manual.

Arabesque is also a program with an incredible amount of attention to detail. Its speed will amaze you, while its ease of use will astound you!

Arabesque is compatible with all Atari computers. It supports large display screens, like the Moniterm. Requires at least 1 megabyte of RAM and a monochrome monitor.

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#### SHAREWARE SHARE-PAY

Share-Pay is part of my personal campaign to keep the Atari 8-bit computer alive, but it will also work for any computer groups.

Share-Pay is designed to help computer user groups everywhere in the world support our shareware authors and let them know we want them to continue writing new pro-

grams and improving the existing ones.

I will list just a few authors here to remind all you readers out there just how important these people and their programs are to our 8-bit world of computers—Ronnie Richie, Bob Puff, Roy Goldman, J.D. Potter, Don Davis, John McGowan. I could go on and on with hundreds of others. Just the few mentioned here have given us dozens of programs, including TextPro, MyDOS, BobTerm, Discomm, SuperARC/UN-ARC, Daisy Dot, and APACView.

Well, you get the idea. Without these folks, and others just like them, you really would have "just a game machine." I only hope each person that reads this can truly say that they have supported these authors by sending a donation after using (and continuing to use) their

programs.

But, as president of NWPAC (North West Phoenix Atari Connection), I conducted my own small survey just to see how many members had sent in donations to various authors. I am ashamed to say I will not reveal the results.

That is one of the reasons I am proposing that *all clubs* take action to correct this problem *now* before we lose more of our fine software writers.

My proposal, put before the NWPAC membership, includes the following:

1. Raise the price on all shareware disks to members by \$1 or \$2 and keep



records of each sale. Set aside the \$1 (or \$2 depending on what is voted in). Every 90 days, tally up the totals and mail a check to each author involved.

2. Suggest to every person who buys a disk or anyone that's using the program now that they send whatever they can afford right away—\$5.00, \$10.00 or even \$20.00.

3. Include a *nice* Thank You note and advise the author what you liked or did not like about their program and that you would like to see more from them in the future.

4. I also propose that the club will totally support AIM and also include the club's AIM disk sales in this Share-Pay.

I am submitting this article to Atari Interface in the hopes that they will print it. I also hope they would be willing to become the "hub" for Share-Pay by printing author's addresses, etc. on a monthly basis, just like they do for the clubs.

I have never been "published" before except in newsletters, so I do hope you are reading this in AIM. No matter how or where you got this article, please distribute it to any BBS and in your own club newsletter and/or send copies where ever you think it will do some good. Do your part to keep the 8-bit alive and well!

Thank you for your support.

By the way, I am a registered owner of SuperDOS, TextPro and other programs, so I do practice what I preach. Please feel free to contact me and let me know how this works for your club. Our club BBS is PAUGS, (602) 278-8505, 24 hrs.

Dale F. Wooster 934 E. Stella Ln. #20 Phoenix, AZ

#### Dale Wooster NWPAC









# TECNO NINJA AN 8-bit GAME FROM SOFTWARE INFINITY

Tecno Ninja is one of the new KE-Soft games imported from Germany by Software Infinity. While most of the offerings in this line are strategy games, Tecno Ninja is a futuristic action-adventure.

Its premise hawks up some rather lugubrious, hopefully tongue-in-cheek names. *Tecno* Ninjas (untroubled by the missing "H" in their names) live on the planet *Trivator*. One day, the magic stone of *Sassafras* is stolen, and the warrior *Garagon* must travel to *Sarcendor* to recover it. Luckily he has his, um,

Vaginator Shield to protect him. Really.

There are 10 scenarios to puzzle through—an old temple, a lost city, an underground lake, an alien spacecraft, a crystal cave and others. Each has 10 screens, and your Tecno Ninja must find an eye-shaped stone before he can advance to the next level. The screens are interconnected in various ways, but since there are only 10 per level, mapping is not necessary.

The play-action resembles a maze-and-platform game with the emphasis not on hair-trigger reflexes, but on locating strategic items. Garagon (an agile, somewhat hy-

peractive fellow) responds quickly to the urgings of your joystick.

The graphics are excellent. Screens are well-drawn and detailed, enlivened with spot animation. Mysterious discs rotate, energy fields coruscate and terminals with lines of scrolling static are like eyes rolling endlessly upward in their sockets. Everything gleams with a metallic, high-tech sheen.

The sound effects are convincing, and each level has its own musical theme. The best piece greets you at the game's title screen, and is good enough to cause you to linger there. Unfortunately, the screen itself is a muddy disappointment—an anomaly among the otherwise fine graphics. A simple keypress banishes it from view.

The only other complaint I have is the color selection used on some of the play-

screens. Occasionally I found them a bit garish.

But these are quibbles. Tecno Ninja is one of the best games in the KE-Soft stable,

and it delivers hours of enjoyment. I have no problem in recommending it.

A point of interest about this game is that it's in compiled Turbo-Basic. Readers who wish to advance beyond BASIC, but are not quite ready to take on assembly language, would do well to take a look at Tecno Ninja and see what can be accomplished with Turbo-Basic (a PD language!).

The disk directory is not hidden, thus giving you access to portions of the game. For example, the title screen is in 62-sector Micro-Painter format, so you can replace it with one of your own (as I did). However, the color registers are set by the main program, restricting you to the same ugly combination as the original screen.

If you want to hear the complete musical score, know that RENDESV4.MUS is the name of the theme for level 1 (the airport). A bit of renaming will accomplish the rest.

The disk comes enclosed in a folded card with a pen-and-ink drawing on the front and instructions inside. To play, you'll need an XL or XE machine and a drive capable of reading enhanced density. The cost is \$14.50 plus \$3 shipping & handling. Order from:

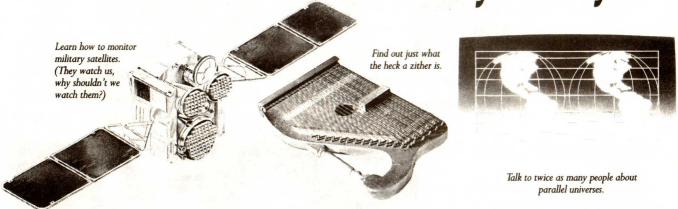
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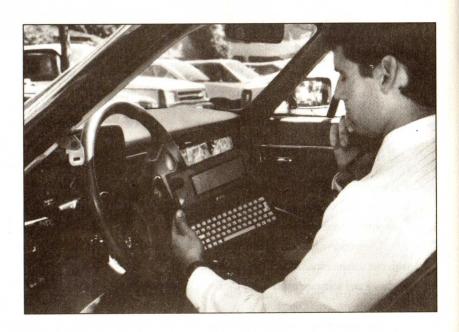
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# The Atari Portfolio Palmtop

The ads are enticing: save precious time, buy a laptop for \$1,595. It makes sense...but unless you're bucks-up, it's just one more item to lust after. There *is* a way, though, to extend your business day with a portable computer at just a third of the going laptop price, even with a complete set of accessories. Just purchase an Atari Portfolio palmtop, an almost unknown \$200—yes, \$200 at discounters—real MS-DOS computer that's compatible with your IBM and Mac desktop systems.

Zane Binder



Wait, how can tiny Atari, better known for Pole Position than anything else, undercut the industry giants? What's the catch? Well, there isn't one! The Portfolio's not as convenient as a "full-size" laptop, but its price, portability and size advantages are overwhelming.

The Portfolio, in keeping with its palmtop designation, has the dimensions of a video cassette tape and weights just 15 ounces. That means it's small and exceptionally portable ...but also indicates the QWERTY

keyboard (you can reconfigure to DVOR-AK) is tiny and the LCD monochrome screen is just eight lines deep by 40 characters wide (though it adjusts to scroll to more than 200). The remainder of the Portfolio's design—aesthetics, key feel, quality of materials, etc.—is absolutely top notch.

That's an extremely important concept: it doesn't look or feel like a toy. Someone considered these items as well as strict functionality when the Portfolio was designed. It's an indicator—as in testing autos—of what lies "under the hood" in the items you can't easily see or assess. As mentioned above, the Portfolio uses MS-DOS...but not the current version 5.0.

Built-in (actually burned into ROM), as distinguished from loaded through software, is a modified version of 2.1. Why?

Because it's much, much smaller than 5.0 and works well with the Port's internal 128K memory. That figure, to those accustomed to 4MB RAM and more, may seem absurdly small. But it's all according to how you view this tiny computer's mission ... and just as importantly how you count RAM. The Port's primarily designed to use its five built-in ROM applications: an ASCII word processor that types in three languages, a Lotus 1-2-3 compatible 127 column by 255 row spreadsheet, a gigantic diary/appointment book/clock with



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alarms and graphic calendar, a sophisticated calculator with statistical functions, percentages, square roots, five separate memory banks and print capability, and a complete address/telephone book with automatic tone generator and dialer. None of the above is to imply outside programs can't or shouldn't be used... only that this three AA battery or AC powered unit isn't, and never will be, a complete substitute for your desktop unit!

In the Portfolio's circuit-board heart beats an 8088 processor, famous as this was the engine that powered the original IBM PC. Though slow by today's standards and eclipsed years ago, in this application it possesses almost all the computing power you could want. By now you're probably asking how the Port stores its data. Very well, thank you, on tiny wallet-size, self-powered, metallic RAM cards of up to 128K (512K is coming). Each 128K card holds between 50-60 typewritten text pages by actual test. No more room on one for a really large application? Just switch cards! Decide you need more internal memory for a program? A half-megabyte upgrade's available from a licensed Atari vendor!

Transferring data to desktop units is easy, too. Parallel and serial adaptors are supported, but the easy way is through a "card drive" (less than \$100) that allows your main PC to read and write the memory cards exactly like a disk drive. You can run hard drives

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or even regular disk drives with the Portfolio, but not quite as conveniently. Printing documents with the Port is a snap, too, either from your office unit or tiny Bubblejet printers.

What kind of software or ROM cards are available for or usable on the Port? An enormous variety, including BASIC programmers, spell checkers, chess, stock/bond/option trackers, numerous special medical programs for busy doctors and nurses, checkwriters and too much else to name. I've been informed even the old Wordperfect Jr. program works on the Port, but I didn't have a chance to test it.

One of the unit's best features is its support within a special Portfolio Forum on CompuServe (yes, you can mate it to a modem). Atari monitors CompuServe daily, there are numerous programs to download, and fellow Port users are always available for the tips these mechanical wonders always seem to require to extract their fullest potential. Atari also sponsors a Technical Support Line, and even out of warranty Portfolios can be repaired for a flat fee.

Aside from the limitations already mentioned, does the Port have any other drawbacks? Just that its documentation is dismal (though books are available).

What's the bottom line? The diminutive Portfolio is the best bargain in the palmtop field. Yes, some have more capability, but also cost considerably more. The Port's size, as with all palmtops, is both a fantastic asset and a liability. But, without a doubt, this tiny, sophisticated wonder will vastly increase productivity while on the go—and won't cost you or your firm a fortune. Atari Corp. of Sunnyvale, CA has sold 250,000 Ports since introduction day, but to say the unit's "invisible" in the US market would be an understatement.

You probably *have* seen it, though: it was the computer young John Conner used to empty a bank 24-hour cash machine in Terminator II.

In reality, with its low cost and relatively high power, the Portfolio will help keep cash *in* your wallet... all the while tremendously increasing your productivity.



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#### So You Want to Start a User Croup? Part V

### Tim Holt

In the past four articles, we have looked at the pros and cons of getting a user group started, and what it entails to do so. You, as a club founding member, must realize several things by now:

1. You will spend money on the club from your own pocket.

You will spend lots of time getting people to just show up at the meetings.

You will run into members that don't agree with you and won't help you.

 You will run into members that want to pirate programs at the meeting.

5. You will "burn out" mentally if you do not get help.

In this column, we will look at how to solve problems 4 and 5.

#### Aye, Mate! Got any new Programs???

It will happen. Some of the members of your club will try to use the club meetings as monthly copying parties. These people don't care if it is the latest programs, 10 year old programs, or programs that haven't even been released yet.

Our club once had a member that prided himself on the number of programs he had that were still in the beta test version. This guy had every thing. He had a software version of the Spectre GCR! I don't know how he did it, but it worked somehow...

And don't just assume it's the kids

that act this way. Our Blackbeard was about 55 years old!

There is only one way to deal with

pirating in your club: sternly.

From the very outset, your club should have some type of anti-pirate statement, either in the bylaws, in the newsletter, or somewhere. Every member should be made aware at the time of getting a membership that pirating activities will not be allowed.

Plain and simple: The board, the president or some club officer, should have the authority to dismiss a member for pirating during club activities. The member shall forfeit any and all membership fees, and will be dismissed from the club forever.

I know this sounds harsh, but face the music folks; pirating killed many a company's interest in the Atari. Just ask the folks at Spectrum Holobyte. Your club is a forum to support the ST/TT, not a place to do it more harm.

Please note, however, that your authority is limited to the club only. What members do outside the club meetings, however unfortunate, is their business. Billy Bob may be the world's biggest owner of non-purchased software, but if he keeps his nose clean during the meetings, then you cannot take any actions against him.

Also, be on the guard for rumors. Seeing is believing, and that's the only way it should be. There will be times when someone will offer you a program. Politely state that as an officer of the club, you cannot possibly copy soft-

ware. Set the example for the rest of the club. It may not impress everyone, but that kid in the back might remember it, and that makes your example worth it.



#### HELP!

There will be times when you simply need help in the club. Here are a few hints and tips to keep things moving smoothly...

 Remember that the ST/TT line of computers can emulate the Macintosh and MS-DOS worlds

very easily.

Therefore, any demo that has been placed out for the IBM and Mac world is fair game. Believe me, almost any Macintosh program released has a demo that the company released for it. All are disabled somehow, but all can be used for your next club's meeting. Where do you get these demos? Simple. If your town has a Mac club, they have Mac PD software and demos. Ditto for the MS-DOS world (No pun intended).

The online services are also a good source. All the big name Mac and IBM developers, for instance, have areas on CompuServe and many of them are also on GEnie. Via CompuServe, you can also access an area run by Ziff-Davis, publisher of many Mac and PC magazines. America Online has a strong and growing Macintosh support. Another good, and cheaper, source is local BBS systems supporting the Mac and IBM. While they may not have as many different files as the pay services, they don't usually charge for access.

2. European magazines always have demo disks with them.

ST Format, ST User, etc., always come with a disk full of demos...lots of them games. You can get these magazines from your local dealer or through the mail order places. Also, the magazines themselves make nice reading for members.

AtariUser magazine is one of the best buys a user group can get. Why? Because it's FREE!

That's right, free. All your group has to do is pay for the shipping. AtariUser is very up to date, and very nicely laid out. A great magazine at a great price. I don't know how they do it, but support them! You help them, they help you. Contact AtariUser at Quill Publishing Co., 113 W. College St., Covina, CA 91723-2008.

4. Make a magazine, such as AIM, your newsletter. You save tons of time, and the product is probably a zillion times more professional looking than you could do. Of course, you lose some of the intimacy associated with a locally produced newsletter, but the members in our club howl like coyotes if they don't get the monthly AIM.

Remember to go for the unusual speaker.

Have a policeman give a demo on home security, have a computer scientist give a speech on the history of the computer, have a local computer store owner demo his wares, even if he doesn't sell Atari. (He may change his mind after seeing 50 computer users sitting there with checkbooks in their hands...) Get a musician to give a concert at your meeting, or have an artist come in and try some art programs with the computer.

#### 6. Use Atari.

Atari has this guy named Bob Brodie that can answer all types of questions, may be able to point you in the right direction, or will darn near kill himself trying to find out something for you. Drop him a line at Atari or leave him a message on GEnie (to BOB-BRODIE). Really, for all their faults, Atari does sometimes, every once in a while, send out warm fuzzies to user groups. Who knows, it may be your turn to get a fuzzy.

By getting help, you will feel a lot better about the club, and you will avoid getting burned out by doing

all the work yourself.

Well, I hope this series of articles has helped you set up a user group in your town. Drop me a line sometime, and let me know how your club is getting along. I would like to know any unusual ideas your club has used successfully in the past for a future article. My address is:

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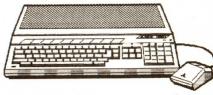
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### ST VERSUS IBM HARD DRIVES

## ERIC SCHOFIELD RACE-NC

Purchasing a hard drive for the ST seems to cost so much more than purchasing one for IBM compatibles. Over the past 6-7 years, I've heard this gripe numerous times. Even I have said this. But, after working in the PC industry for several years now, I realize that this simply isn't true.

What misleads people are the prices of the bare hard drives boldly printed in the PC magazines. These prices only reflect the price of the hard disk. Once you add all the other goodies, the price of the system is considerably more.

The prices I'm quoting in this article are actual street prices. You can flip through the pages of Atari Interface or any Computer Shopper and get the very same figures that I'm getting.

One of the more popular hard drive configurations is an 80 megabyte hard drive using a Seagate mechanism running at 28 milliseconds. In order to assure that the ST hard disk and IBM hard disk perform as identically as possible, the equipment purchased must be near identical in performance.

There are numerous interfaces available in the IBM world such as IDF, RLL, MFM, ESDI and SCSI. Some are better than others and SCSI would have to be

considered one of the best simply due to its versatility and speed. SCSI interfaces are the standard interface used on Macs, STs and Amigas. For this article, I use SCSI interfaces for both machines.

STs use the DMA port to interface with the SCSI host adapter. Due to this fact, the STs have blazing hard drive transfer speeds that are far faster than your standard IBM hard disk. In order to match the speed of an ST hard drive system, the IBM system must be configured with a 16-bit controller rather than an 8-bit. This obviously pushes the price up. Here are the results of what I found.

#### **IBM Compatible System**

Case & power supply	\$100
ST1096N 80Mb hard drive	\$300
16-bit SCSI interface	\$200
Total	\$600

#### Atari ST System Do-it-yourself

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Total	\$500

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As you can see, the cost of the ST system is *less* than the cost of the equivalent IBM hard disk system. Even if you were to exclude the case and power supply from the IBM system (you would do this if you had room inside your case and simply needed to add a hard drive and controller), the price is comparable.

If you're in the market for a hard disk, don't feel jealous of all those IBMers out there. You can actually spend less for great performance. (Note: To build your own hard disk system, cables are also necessary. These cables shouldn't cost more than \$20 total for either platform.)



## Advanced Gravis MouseStick

For the past few years, the debate on input controllers has consisted of "Mouse or trackball?" Now, Advanced Gravis, a Canadian firm known for its line of joysticks, has upped the ante by introducing its MouseStick programmable optical controller.

The Atari platform was one of the first that the Gravis MouseStick supported, and my review copy has been bug-free (although the first unit they sent me was non-operational, they quickly replaced it with profuse apologies and a fully working unit).

The main selling points for the MouseStick are its programmability and the fact that it emulates an analog signal on the ST line of computers. Both are likely to be of interest to Atari users, especially since analog input allows for vector modes, and the programmability allows for custom-designing your own vector. In addition, the MouseStick has a built-in setting that acts as a straight Gravis Switch Joystick.

Atari ST computers use digital input—the mouse sends a signal that it is moving in one of eight directions, and how far it moved in pixels. The MouseStick sends an analog signal, which is non-digital. This means that, in vector mode, you can have a variable rate of cursor movement, depending on how far in any direction you push the stick handle. Of course, in joystick mode, the MouseStick sends a digital signal.

#### **How the Gravis MouseStick Works**

The MouseStick comes in two pieces: the stick itself, which looks just like the Gravis Switch Joystick for the Atari, except in a light gray instead of black; and the Gravis MouseStick Processing Unit (GMPU), which is a small (3x5 inch) box with an LCD display that connects the stick to your mouse port. It is the GMPU that both emulates the analog signal and allows the MouseStick to be programmed.

There is no external power source—the MouseStick draws its energy from the

mouse port.

As with the Switch Joystick, the stick unit has three buttons—one on top of the joystick and two to the left side of the top of the base. Each of the buttons has a function-selecting dial on the left side of the base which allows any button to be manually set for, in the case of the MouseStick, right or left mouse button or editor button. For most applications, each button will be set to a different mode, giving you all three options.

In programming the MouseStick, you enter the editor mode by clicking five times quickly on the editor button (which otherwise acts as a second "left" mouse button). The LCD display then indicates "Entering Editor." At this point, you access your different menu choices (shown on the GMPU LCD) by moving the joystick through the bottom half of its range of motion (if the range of motion is pictured as a clock face, the menu ranges from 4 to 8). To facilitate programming the MouseStick, Gravis includes a quick-reference menu chart.

The programmability feature allows the MouseStick user to pre-save up to six customized settings. The first variable likely to be entered is the monitor size; one can pre-set and save—by pixel resolution—low-rez, medium-rez and high-rez settings for the ST. While the GMPU includes some of the more common resolutions built-in (low-rez and high-rez for the Atari; other resolutions apparently common on the Amiga platform, which shares the same MouseStick model with the Atari), one can also custom-set the X and Y axis within the editor, allowing any monitor resolution to be used.

Other options within the editor mode include designating one of the buttons as

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"turbo," or auto-repeating. This mode also allows you to set how quickly the "fire" mode will be repeated, in increments from 0.1 to 5 seconds. There is also a "null" mode in which you can create a dead zone around the "centered" position so that small, accidental motions to the handle don't affect the cursor. A "priority" setting makes sure that small movements of the handle when clicking the cursor on a GEM icon don't accidentally cause the wrong program to be loaded.

Admittedly, it took some getting used to when I first hooked up the MouseStick. In high-rez mode, it is very sensitive—far more so than a mouse with the Atari accelerator (which has to be disabled or the

MouseStick won't work).

I also found the auto-centering feature was annoying and the GMPU apparently does not let you turn it off. Thus, I found the best way to deal with it was to loosen the adjustable spring on the joystick handle all the way, thus mechanically bypassing the auto-centering.

I now find that I prefer to use the MouseStick for almost all applications. Using the MouseStick requires far less arm and hand motion than a mouse or trackball and results in less fatigue. I simply point the stick handle in the direction I want to move the cursor and hold it steady until the cursor gets there. If I'm in vector mode, the cursor gets wherever I am pointing very quickly.

More importantly, I find I have more control with the MouseStick and am more productive. Using Page-Stream with the MouseStick is a dream compared to my stock Atari mouse. And while artists may prefer the more "natural" feel of a mouse for drawing programs, I like the control I get with the MouseStick.

For drawing programs, flight simulators, etc., the vector capability can make a dramatic difference in performance and handling. The vector mode allows you to set up the MouseStick so that the rate of cursor movement varies with how far you push the stick away from center.

The instruction book is easy to read and understand, and the menu chart doesn't take long to memorize. All in all, the MouseStick, for all its options, is

easy to learn, making it an effective tool.

A Gravis spokesman said there have been problems with Mega STs, and was unsure how the Mouse-Stick would interface with the TTs. But he assured me the Mega bug was easily fixed with a program Gravis would send free to any Mega user. Also, 8-bit owners using a GUI program may not be able to use the Gravis.

The price is steep; manufacturer's suggested retail price is \$99.95. But, for those who are uncomfortable with a mouse or trackball, or who simply find they don't have the amount of control or options they would like, the MouseStick may be the answer.

[About the Author: Jim Trageser is a 10-year user of Atari computers, and he currently owns an Atari 800 and a

1040STfm.]

## A-T-A-R-I

# Answers, Tips and Relevant Information Ultra Speed Plus

## Paul Alhart (AFED)

One of the most cherished things we have is time. It seems we never have enough of it, so whenever something comes along that promises to helps us save time we jump at it. Be truthful now, why else would you have bought that super-duper dicer/slicer Veg-O-Matic that is stored over the refrigerator? OK, but that microwave oven sure is a time saver.

Well, in the computer world where time is measured in microseconds, faster is definitely better. After all, a big selling point of any computer is how it will help you get organized and save you lots of time.

Sooner or later though, time seems to lose its relevancy. Two minutes to do a former 30 minute job seems much too long if the same task can be done in one minute. This is the main reason I was anxious to try out the Ultra Speed Plus from CSS.

US+ is designed to be installed in an 800XL or 130XE computer and gives you three different operating systems (O/S) that are switch selectable. (More on those later.)

Installation requires some soldering, but the instructions and diagrams are clear and easy to follow. Installation takes about an hour from start to system checkout. If you don't feel at ease inside your computer, CSS offers free installation for this, as well as any of their other products.

As mentioned above, the US+ has three switch-selectable operating systems. Following is a description of each.

XL-FIX Plus—This O/S makes your XL think it is a 400/800. This eliminates need for Translator programs and still allows you to use a RAMdisk on machines with extended memory. A Binary file loader is built in, the key repeat rate has been speeded up, and the effect of the Option key has been reversed when booting. (Hold down the Option key to enable BASIC.)

Standard XL/XE—This O/S is the same as what is in your computer now.

Ultra Speed Plus—This O/S gives your computer more speed in several ways. Disk I/O is about three times faster than normal when used with XF-551 drives or modified drives like Happy (810/1050) or Super Archiver, US Doubler, Klone, Duplicator or Density Doubler (all 1050 mods). The key repeat rate has been increased for faster editing. The Faschip math routines have also been included for faster and more accurate floating point math which increases program execution speed.

Although the speed is what sold me, US+ has many more great virtues. Any one of them could be a good enough reason to purchase US+. *Some* of them are:

A built-in RAMdisk handler allows a RAMdisk to be used with any DOS

Several functions such as key click, background color, screen DMA, I/O sound and more can be toggled via the keyboard

Drive numbers can be reassigned using a drive configuration menu, so you can boot from any floppy, or even from your RAMdisk Cold Boot without losing RAMdisk contents, even if the system is locked up

A sector copier is included that uses no program memory

The OPTION key is reversed during boot. (Hold down OPTION to enable BASIC)

So what do I think of US+? I couldn't live without it. I get this warm feeling whenever I hear my programs loading in at Hyper-Speed. My wife thought the faster I/O sound was the phone ringing. Although it's still not as fast as hard disk, it sure is a lot more affordable.

I have used the drive configuration menu to make my RAMdisk Drive #1. That way, I can run programs out of RAMdisk that only support one or two drives. You may not associate this with speed, but it is a real time saver. I copied AtariWriter's dictionary to RAMdisk, made the RAMdisk Drive #2, and watched it fly through documents as it checked my spelling.

Another time saving use is with disk/sector editors. I can search or scan a whole disk in seconds if it is first copied to RAMdisk. Making the RAMdisk Drive #1 allows me to cold boot from the RAMdisk to verify my changes. I then can set any other drive to be Drive #1, reboot any DOS with my RAMdisk still intact, and copy the RAMdisk back to floppy. All this copying may sound time consuming, but it isn't with US+ fast I/O.

I have found no compatibility problems with any XL/XE software using US+. However, the original XL/XE operating system is always just a switch click away just in case.

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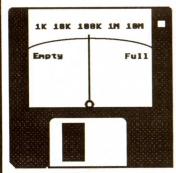
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CSS claims that, with US+, powering down to recover from a lock up is a thing of the past. So far, I have proved them right. No matter how bad I freeze up my system, pressing HELP/RESET always initiates a cold boot without erasing my RAMdisk or clearing any extended program memory.

Is there anything I would change? Sure, but only out of personal preference. Both the XL-FIX and US+ operating systems reverse the effect of the OPTION key at boot up, while the standard XL/XE O/S does not. To avoid confusion, I would make them all the same. Since I will probably spend 99 percent of my time using only the US+ O/S with all its neat features and speed anyway, forget I mentioned it.

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# THE GOOFY GURU

## Space Bars and Peripheral Switch Boxes

## Charles Kelly (SNACC)

## Atari 800 Space Bar Repair

If the space bar on your Atari 800 has broken in any way, the space bar is probably hanging. If not, the plastic piece of the bar is

easy to pop out.

Pop it out. Look at the white plastic square in the center of the exposed area. Press the square. If it moves up and down, go on to the next paragraph. Otherwise, take a firm grip with a pair of needlenose pliers and pull out the white plastic piece. Use a firm, even grip.

You should find a spring that is snagged. Snip out the metal pieces other than the spring and reassemble. The white plastic piece should now work and come back when pressed (those metal pieces are usually the actual switch, but we are bypassing them altogether).

Now, look at the two exposed wires on both sides of the black square that the white piece was in. Cut them with a razor blade or knife as close to the front as is exposed. Solder a 4-inch length of insulated wire to each. Tack these down, where soldered, with Krazy

Glue or a similar product.

Take the left wire and strip back about 1.5 inches. Do the same on the right. Wrap six to nine turns of the left wire around the piece the space bar snaps into. Take the right wire and Krazy Glue the end just under the right end of the same mounting wire on the right end. This end should rest on black plastic. Take out some of the slack on the righthand side by tacking down the middle of the wire to the off-white or beige board.

You should add a first step if the tongue where the space bar presses the switch is broken also. Just glue it back after checking and/or repairing the spring action. Then go ahead with the wire cutting steps. *Note:* In some rare cases, the colors mentioned here will be different on your computer, but this is not too critical.

## The Mucho Simpler Peripheral Switch

Forget all of the complicated articles you have seen about building peripheral switching boxes. But, do call in any old 810 rear boards or finally dead 835 or 850 boards you can find. Bless their little hearts, but some of the articles published on this topic have been too complicated. Start by looking at whatever old peripheral board you have and examine all of the traces that connect to both CIO ports.

It does help if you have a good diagram of the port connectors. You begin by marking the traces between the port connectors and drawing a line around all of the traces that join the ports. You want them left totally intact. Now, take a serial connector and snip off one end. Take one probe of a VOM and put it in Pin 4. Find the wire that goes to Pin 4 and mark it. Do the same for Pin 6. Solder the wire to Pin 4 to the wire for Pin 6.

Plug in the cable end to one of the serial ports. Test for continuity between the remaining wires and the port with the cable left plugged in. Skip the wires for Pins 4 and 6. Where the wires show continuity, solder them to the board at the appropriate pins of one port.

Unplug the connector. It will be

the input to your switch box. Now solder a wire to where you joined the wires for Pins 4 and 6 and wrap tape around the connection. Take this new lead and solder it to the center pole of a normal two-position selector switch (SPDT type). Be sure to use a switch that is small enough to fit on top of one of the connectors.

Now, examine the port connectors themselves. There will be a series of leads that curl down from the connector to the board. As close to the board as you can, cut the leads for Pins 4 and 6 that come off the connectors. While both connectors must have these leads cut, only one pin has to be used to supply the ground signal. You are unlikely to cut both pins too short or to break them both. Pins 4 and 6 will be joined in almost all Atari serial peripherals down the line. Try to use both pins, though.

Solder leads from these pins, at the connector, to the switch contacts of your selector switch. The leads from one connector go to one of the outer contacts. The opposite switch contact is then wired to the opposite port connector. Each switch contact should be wired to 2 pins, but breaking one pin will still leave you with a working

switch system.

You should now have a decapitated serial cable wired to one connector and a switch wired between the ground pins. Now, cut the port connectors free along the line you drew along the outside of the traces that go between both connectors. Use a saber saw and try not to damage the board or the cable you soldered to the pins of one connector.

Glue the switch to the top of one connector. Check for shorts and other defects. Finally, wrap with electrical tape, leaving the switch lever exposed.

This is so much simpler than other articles that would have you adapt RS-232 switch boxes or wire in 9-pole double throw switches. The cables don't need extra shielding and only the ground signal leads need to be switched. There is even an advantage in that switching the ground signal avoids some handshake problems, etc. Those other articles also leave out several steps that are needed with a project like this.

You should end up with a cable that has a fat end with two connectors and a switch exposed on top of one connector at the fat end. The critical step, sawing the board around the traces that link both port connec-

tors, is always tricky.

A similar approach can be used to make a new cable that has two regular connectors with two port connectors in the middle. Just go ahead and split a cable and connect all leads to the proper pins of one port and repeat with the other half of the cable and the opposite port. This and other super simple serial cable projects are possible because the Atari serial system has such low noise to start with.

[The Goofy Guru series originated in the Southern Nevada Atari Computer Club newsletter and continues to irritate all. Topics covered are varied and obscure. In other words, this column is devoted to topics no one else seems to write about.]

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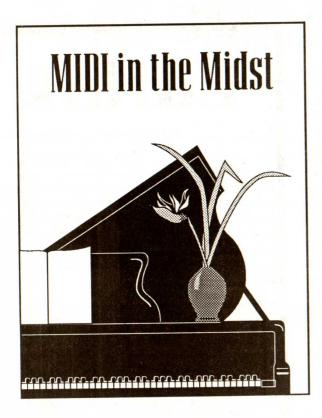
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## The Chicago Show **Parts 2 & 3**

First, let me answer a few questions some readers have asked concerning my previous article: What were the "unlikeable aspects" of the pre-show reception, mentioned in

Part I of your series?

Intended for Atari developers, exhibitors and show organizers, that reception sent conflicting messages. Although it was held in the hotel's Penthouse Ballroom, someone forgot to make more of the intended guests aware of when and where it was happening. No one posted signs that would have helped them find the place (after riding the elevator to the top, many returned to ground level assuming it was cancelled).

Those that made it were confronted, at the door, by a lil' old lady selling tickets for drinks (even the soft drinks!). The free food consisted mostly of those things that are supposed to be good for us (raw broccoli, cauliflower, carrots and celery). No one seemed to be in charge. Our music helped, but I would have liked to have planned music for the occasion. The vastness of the room, coupled with the small attendance, robbed the reception of its warmth. It wasn't intolerable; it just wasn't comfortable.

Atari and the Chicago ComputerFest organizers could learn from the WAACE show organizers. They hosted a very hospitable reception last October! Perhaps, through experience and attention to detail, the WAACE people developed a formula for success. Listen up, Atari!

Why do you feel it's so important to videotape everything

It's true that a lot of the information we tape could be

Kest Carter-Morgan **ASTMIM** 

obtained through print and telecommunications media, but it's that personal touch I'm after. It gives our members a better sense of the Atari community and the forces that effect its stability. They appreciate the work developers put into their products and, after video demos, I'm pleased to find that members are sending in their shareware payments and taking advantage of special offers. One example is a demo of Gribnif's product line by Rick Flashman. It impressed our members enough to stimulate orders. I'm sure Rick is pleased!

#### Is There a Montreal Show?

One of our group's objectives at the show was to distribute, from our booth, maps and tourist information promoting Montreal's 350th anniversary in 1992 (from May 15 to October 12) and to suggest Montreal as the site for a large-scale AtariFest!

By now, readers must be aware of the Atari Canadian Exposition (ACE '92) held in Toronto, Ontario, this April 4th and 5th. ASTMUM was assigned booth #316. Even though we're mostly MIDI musicians, we asked to be located away from the MIDI area so that our music would not conflict with the 'round-robin' music demos and stage performances slated for that area. Since I'm writing this, weeks before the show, I can't report anything till later. Writing this stuff is like time travel!

Something important is slated for the end of May. It's "The Largest And Most Innovative Trade Show In Canada For Sound And Image Professionals." Production '92 will be held in Montreal, Quebec, at Place Bonaventure, May 29, 30 and 31. This year, emphasis will be placed on European and Asian interaction with the North American communications market, demonstrations and workshops highlighting the newest products, combined with the sixth Festival International du Film par Ordinateur de Montreal (FIFOM '92), the second International Competition of New Media Technologies and much more! For show hours, details and information about participating, please contact Mr. Martial Brissonnet at: (514) 842-5333, or Fax: (514) 842-6717.

At Production '92, some ASTMUM members may be present, at one or more of the participants' booths, to help explain how Atari ST and TT-based equipment perform—in music, sound and image production. It is hoped that Atari Canada will also be there.

Let's get back to the show. We jump back in time,

now, to Saturday, November 23, 1991.

Many musicians are computerphobes. Historically, they bought computers disguised as "hardware sequencers," often at prices higher than complete Atari systems! Even though musicians have become more sophisticated lately, many simply cram their sequencer program disk in and boot up without useful AUTO folders or desk accessories; they don't even date-stamp their files. This show, like many shows, was a gold mine of goodies useful to musicians, from the clearly

evident to the obscure. I'm hoping such handy items won't be ignored.

Let me whet your appetite by listing the exhibitors most relevant to our MIDI pursuits:

- · Atari Corp.
- Guitar Plus
- Roland Corp US
- C-Lab Software
- Hybrid Arts
- CodeHead Software
- Atari Explorer Magazine
- Oregon Research Associates
- Lake County Atari Computer Enthusiasts
- Atari ST/Mega Users (Montreal)

Since I'm reporting on the MIDI (Musical Instrument Digital Interface) aspect of the show, let me get one non-musical MIDI application out of the way—Games! The Milwaukee-based user group, MilAtari Ltd., set up 32 STEs in two groups of 16 players and MIDIed them together to play MIDI MAZE. It was one of the many activities they supervised in the large Gaming Area, just a step away from the main exhibition floor.

## **Guitar Plus**

It's encouraging to see a music store chain participate in shows like this, and with MIDI being one of Atari's strong suits, it's essential that everyone pitch

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Add 3.00 for S&H, plus 8.25% sales tax for California residents Read only demo disks...\$9.95 in. Bob Lytle, of Guitar Plus (a Chicago area chain with 3 locations), gave two MIDI seminars at the show. One seminar was for the home MIDI hobbyist and the other was geared to professional studio applications.

Bob was also kind enough to provide some of the sound equipment presenters (myself included) needed for seminars held in other parts of the hotel. Chasing around with one video camera, I wasn't able to capture all seminar contents, but reports were positive. At intervals during the show, I stopped to visit at the booth areas Bob managed (Guitar Plus, Roland and C-Lab booths were side-by-side). Most of the products displayed were available in Montreal music stores, but, admiring a C-Lab wristwatch, I filled out and deposited a slip for the random drawing, hoping to win it.

**Explorer's MIDI Issue** 

You're reading AIM right now, but if you're a musician, you should seek out the MIDI issue of *Atari Explorer*, which came on the stands this February. It can serve as a good reference. The Atari Artist supplement to that issue shouldn't be missed.

Interestingly, I got some informative video footage during John Jainschigg's seminar on "Atari Journalism," in which Bill and Pattie Rayl were comparing their editorial policy with John's. One way to see more MIDI-related articles is to write them yourself!

**Hybrid Arts** 

Hybrid Arts has been a long-respected Atari developer. I, personally, know some ASTMUM members that, daily, crank out their work (television music tracks, jazz arrangements, etc.) using Hybrid Arts' sequencing software and their famous device that you connect to the DMA port for up to 64 MIDI channels (the MIDI-plexer).

In recent years, C-Lab, Steinberg and others dazzled musicians with their improved user interfaces and features while Hybrid Arts retained their stodgy, but functional, front end. For a while, it seemed that they were falling behind as they struggled to gain market acceptance with their ADAP Sound Rack hard disk, digital audio recording system. It was expensive

and, reportedly, not trouble-free.

As long as Atari Megas (with the internal, Bus Extension slot) were plentiful, their competitor, Digi-Design, made incursions into their territory. But, as the supply of Megas began to dry up, dealers began to push DigiDesign's version for the MAC. This was bad for Hybrid Arts and Atari (the new MegaSTEs lack that slot)! From a marketing perspective, things seemed somewhat grim.

Now, Hybrid Arts was back with a vengeance! I

was there, capturing all I could on video tape.

Note: In the Atari Artist section of the Feb. '92 Atari Explorer, on pages 12 and 13, you'll find James Port's write-up of SmpteTrack Gold, Hybrid Arts' new, flagship sequencer. Their patch editor/librarian, GenEdit, is noted on

pages 17 and 18. Music scoring, limited to three parts, is accomplished with their Easy Score Plus notation software, mentioned on page 23. Digital Master, the talk of the Chicago show, and its more expensive relatives, ADAP II and ADAP IV, are detailed in an unattributed write-up on page 22.

Feeling the camera's weight on my shoulder, I tried to get a stable position as Hybrid Arts' Sales Manager, Jeff Naideau, triggered an impressive demo on their \$4500 (excluding the outboard controller) 2 track Digital Master hard disk recording system. With this basic system, the 105 Meg drive provides 10 minutes of stereo recording at 44.1 kHz. Jeff alerted us to calculate about 10 Meg for each minute required to determine hard drive choices meeting users' needs.

Before launching the second segment of music, he stated that the recording (taken from a CD) was 64 times oversampled during record and 8 times oversampled during playback, obviating the need for special apogee filters. To extend sampling time, the lowest selectable rate is 22 kHz; not the figure given in Atari Explorer.

Up to 200 markers can be placed, visually, in each sound file as "auto-locators" (edit points) using the Atari's function and Tab keys. He demonstrated the ease of marking two points in a musical phrase and

"looping" that section to play over and over.

The markers also allow anyone to reorganize the order segments are played (with noise-free, electronic splices) through an easily accessed, programmable play list. With the ability to have up to 8 files open at the same time, the possibilities are endless for manipulating large and small segments of files, and creating new ones, in the digital domain.

Jeff made the point that Quebec's Celine Dion, and her keyboard player, use this equipment in live shows and vary the play list, nightly, to keep things fresh.

Although the demo was conducted on a color monitor, the software works with mono monitors as well.

They had not yet launched their 4 track version (it was planned for a March debut) but Jeff mentioned future "software links" with SmpteTrack Gold for interaction with the 4 track version. By now, all of this should be available.

In order to highlight important details about their multi-tasking environment and give proper coverage of their products, I'll have to finish my Hybrid Arts profile next month. In the meantime, here's their address: Hybrid Arts, 8522 National Blvd., Culver City, CA 90232, (310) 841-0340.

If you think it's painful—not getting to the end of this in one shot—think of me. I'm still holding the camera!

See you next month.

[About the Author: Kest Carter-Morgan is an audio/video recording engineer, electronic prototype designer and computer repair technician specializing in ST-related projects. He is one of the founding members of Atari ST/Mega Users (Montreal).]

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## Diamond Back II



What would computers be without hard drives? I can remember, barely, the days before I had a hard drive connected to my computer. It's like a bad dream that's nearly gone from my memory.

Seriously, though, hard drives are very nearly an essential part of any productive computer setup nowadays. Their relatively low cost and ease of use make them a high priority peripheral purchase. For DTP, animation, MIDI or graphics design work, a hard drive is practically a requirement.

With all their convenience, hard drives do have a drawback—you can come to depend on them too much and not back them up often enough. Backing up a hard drive is probably one of the most boring things you can do with your computer. It ranks up there (or down there) with watching integrated circuits oxidize.

Of course, if you don't back up your hard drive, you're just asking for trouble. I personally believe there is a chip somewhere in each computer that monitors hard drive backup frequency. If a certain period of time goes by without a backup, whammo.

OK, maybe I'm being a little paranoid here. Paranoia is, after all, what makes you back up your hard drive. It's like buying life or health insurance. You hope you never have to use the insurance, but you sure feel a lot safer when you have it.

## Insurance Policy

Continuing the insurance policy analogy, some policies give you better coverage than others. When it comes to insuring the health of your hard drive data, Diamond Back II from Oregon Research is one of the best options available.

Diamond Back II can handle all your hard drive backup needs. From full or partial file backups to GEM or Spectre image backups, Diamond Back offers more backup options that any other competing product on the ST. It even handles partition sizes larger than 16 megabytes.

When you first run the program, you're presented with a dialog box from which you make four main choices—File Backup, Image Backup, Full Restore or Partial Restore.

### File Backup

The File Backup option leads you to a dialog box where you set the various backup parameters. The options here are numerous. You can choose full or incremental backup and to include subdirectories or only files in the backup. You can opt to split files across backup disks, compress the files while backing them up and even encrypting the backup for greater security.

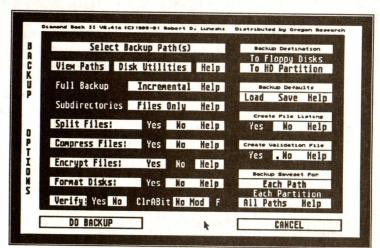
The ability to split and compress files are useful options that translate into using less floppies to complete the back-up.

Diamond Back II also lets you define the path(s) to be backed up. You can select multiple hard drive partitions, multiple individual subdirectories within partitions and even specific file masks. An "exclude paths" option lets

## Bill Rayl







	RESTORE DP	TIONS		
Restore To Drive CDE F	EHIJ	KLH	MOP	Help
GEM File Saveset Restore	GEM Image	Spect	re Image	Help
Files Are Compressed	Files Are	lot Comp	ressed	Help
Files Are Encrypted	Files Are	Not Encr	ypted	Help
Validate Restored Files?	Yes		No	Help
If File Exists: Skip File	Overwri	te File	Ask	Help
DO RESTORE			CANCEL	

you skip individual folders. For instance, you could choose to back up all \*.DOC and \*.TXT files on Drive C:, all files on Drive D: excluding those in the TEMP folder and all files found in the E:\SAVEME\ subdirectory.

Unlike many backup programs, Diamond Back II gives you the option of backing up to either floppy disks or another hard drive partition. This is a useful option for SyQuest owners or people who use a second hard drive for backup. [For owners of a SyQuest as their only hard drive, the Hayai backup package from Machine Specific Software would probably be a better backup alternative to Diamond Back. Hayai allows switching from one cartridge to another.]

Diamond Back further gives you the option to create a listing of all the files being backed up, including the backup disk numbers on which they appear. This listing is extremely useful for finding individual files for later restoration.

The Create Validation File creates a list of either 16bit Checksums or 32-bit CRCs (your choice) for each file in the backup. Later, when restoring the files, you can use this list to verify the integrity of each file as it is restored.

#### **Disk Utilities**

Selecting Disk Utilities from the Backup Options menu presents a sub-menu with a number of useful choices. From here, you can create the above mentioned file list or validation file, view text files, get disk statistics and more.

Probably the most used option here is the one that estimates the number of floppy disks you will need for your backup. A nicely organized chart shows you how many disks are needed for each formatting option you can choose.

**Formatting** 

Another area in which Diamond Back II excels is in disk formatting options. Available options include single or double sided, 80 or 82 tracks and 9, 10, 18 or 20 sectors per track.

How can you format a disk with 18 or 20 sectors per track? Well, you need a High Density (1.44 meg) floppy drive like the one Atari now sells for the Mega-

STE and TT or like in the HDrive kit from Omnimon Peripherals.

You also have the choice of normal, Twister or Super faST skewing. Twister format is popular because it noticeably speeds up disk access. Super faST format is even 20 to 25 percent faster than Twister! If you have a lot of floppies to back up to, you'll appreciate the speed increase.

Image Backup

While image backups are not always the best of choices, they are extremely fast. When done in conjunction with full and incremental file backups, they offer an extra level of security...just in case.

Diamond Back II can perform an image backup of your GEM partitions that only backs up sectors actually in use on your hard drive. If you only have eight megs of files on a 12 meg partition, Diamond Back only backs up the eight megs. This gives you the ability to restore the image backup to a partition that is of different size than the original backed up partition.

Users of Gadget's Spectre GCR or Spectre 128 can perform an image backup of their Macintosh partitions. While it is preferable to do a file backup from within Macintosh mode, a Spectre image backup is far better than no backup at all. Diamond Back's Spectre backup is a full image backup—if you have eight megs of files on a 12 meg partition, you're going to backup all 12 megs. This is typically how image backups work.

Image backups have a number of drawbacks over file backups. First, you cannot restore individual files or subdirectories. Second, if your hard drive has any serious file errors at the time of the backup, those file errors will be backed up as well. Finally, disks containing an image backup cannot be read from the desktop. If you attempt to get a directory of an image backup disk, you will most likely have to reboot your computer.

For people who just don't have the time to do full file backups, image backups do offer a better alternative than no backup.

#### **File Restoration**

Restoring your files after a crash or just to defragment your drive is about as straightforward as it can possibly be. In fact, all of Diamond Back's functions are intuitive enough that you really could use the program without ever reading the manual. Built-in help for just about every option makes the software very easy to use.

For file restore, you can choose full or partial restore. The options here are numerous and correspond mostly to options available when backing up your files. You basically tell Diamond Back if the files are compressed, if they are encrypted, which files you want restored and where to restore them to.

## Manual

While it's true that you might not need to read the

manual to use Diamond Back II, there is a lot of useful info in it. The 40-page manual details all the options available in the program and is well written.

A section entitled Tricks and Tips on pages 30-33 gives you some hints on good backup strategies. It also tells you how to take advantage of Diamond Back's automatic disk switching capability and describes the automatic disk error recovery features of the software.

Support

The Diamond Back manual contains a step-by-step process for problem solving. Following these steps may fix your problem without ever having to contact the company. If, however, you still have problems, the staff at Oregon Research is very helpful. As the manual states, they "will do everything in [their] power to assist you."

The program's author, Bob Luneski can be con-

tacted on GEnie, CompuServe or Usenet.

The support offered by Oregon Research for this product is superb. Fairly regular upgrades are often made available via patch programs available for download from the online services.

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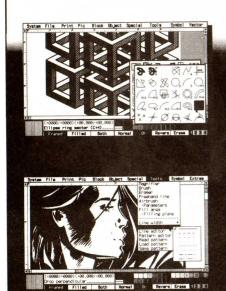
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included to access several popular
scanners; the ability to call external
modules means that MegaPaint will
never go out of date.

With all this power, you might expect an equally enormous price tag; but perhaps best of all, MegaPaint II Professional is priced well under \$200!

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# ACF 92

## The Atari Canadian Exposition

## Mark Pierro BRAG\*ST

ACE '92, the Atari Canadian Exposition, was held in Toronto on April 4th and 5th, 1992. A group of BRAG ST members made the one and a half hour trip from Buffalo on Sunday, April 5th. We had a great time!

Overall, the tempo of the show was upbeat. Throughout the day, all the vendors I talked to were very pleased with their sales. The show also had some exciting events: the world's fastest ST, MultiTOS, and the debut of Flash II, GEMulator and STraight FAX. Early attendance figures were 2,000 people on Saturday and 1,000 on Sunday.

My first stop was the CodeHead Technologies booth. I had never met the Code-Heads before, but as I approached their booth, there was no mistaking them. John Eidsvoog was furiously taking orders and upgrades (and this was only five minutes after the show opened!). When it was my turn to upgrade my Quick ST to Warp 9, they ran out. But John promised it would be in the mail as soon as they got back home. (Sure enough, several days later, my software arrived.) Charles Johnson was enthusiastically demonstrating MegaPaint Professional on a TT (there were TTs and MegaSTEs everywhere). With great satisfaction, I personally gave Charles a shareware payment for his Little Green Selector and Pinhead programs.

Next it was on to Dorothy Brumleve's booth to upgrade my kid's Kidpainter disk. Dorothy was showing her latest educational program called Multiplay, a program that makes math fun.

Next, I wandered into the Atari booth in the center of the room. There they had Portfolio, Lynx, ST and TT displays. But what caught my attention was the much talked about ST Book. This notebook computer impressed me with its small size and very readable screen. The "vector" touch mouse pointer controls were unusual, but once you got the hang of it, the pointer was easy to control.

Atari's Bill Rehbock was demonstrating MultiTOS on a TT in the center of the booth. He said Atari is working on this multitasking operating system (based on MINT) and it should be available for all ST users sometime this fall.

Goldleaf was showing their high-end graphics and DTP software. An impressive

demonstration of the capabilities of their Retouche Professional, a 24-bit color photo retouching and digital lithography program, continued throughout the day. A photo was scanned, output to a thermal wax printer and then the image was transferred onto a Tshirt. They were also demonstrating MacRead, a program that lets you read data files from a Macintosh formatted HFS hard disk or Spectre formatted HFS floppy disk and store them on an ST disk.

Phil Comeau was demonstrating his Grammar Expert and GramSlam programs. Gribnif Software and Double Click Software were running show specials on their software line. British Magazine Distributors were offering



Atari's Bill Rehbock showing MultiTOS



John Trautschold

subscriptions to ST Format, Atari ST User, ST Action, ST Review and ST Applications.

Missionware Software was busily selling Flash II, the long awaited update to the very popular ST terminal program. John Trautschold was offering an upgrade from Flash to Flash II for only \$29.95 as long as

you brought your original disk.

It was a pleasure to meet Darlah Potechin, Atari ST sysop on GEnie. She was able to answer a few questions about Aladdin by showing me while she was online to GEnie. Rod Coleman's demonstration of his new text editor, Sudden View impressed me so much that I bought a copy. This program is amazing—it really is "like a paint program that uses text instead of colors". The Toad Computer booth was so busy that it was one o'clock before I could get near enough to see what they were selling. Bill and Pattie Rayl were there, taking subscriptions for Atari Interface, selling AIM disks, giving away CompuServe signup kits and selling Silhouette for Maxwell CPU who couldn't attend the show.

Dave Small had "the world's fastest ST" on display, a Mega ST2 with a monochrome monitor and a Sy-Quest drive running at an incredible 46MHz!

Joppa Software introduced the STraight FAX software, an ST/TT communication package which allows sending and receiving of FAX documents to and from any Group III compatible FAX machine. Requirements are 1 MB of RAM (minimum) and an industry standard Class 2 FAX modem.

Darek Mihocka was showing his GEMulator for the first time. The GEMulator is a software/hardware combination that runs your ST software on an IBM compatible PC. Darek was running on a 33MHz 486 and inviting show goers to pop their ST disks into the drive and test their favorite software. The screen display was a little slow (Darek says 100% compatibility was his first goal and now he'll start speeding it up), but everything seemed to work fine that was thrown at the GEMulator.

Cybercube had a booth at the show and they were demonstrating their CyReL Sunrise M16-1280 true color, high resolution graphics card for the MegaSTE and TT. The graphics were truly astounding, with res-

olutions from 256x200 to 2048x1024 supported! The guys at Cybercube Research have had the board and VDI driver in beta test for months and are getting ready to ship.

ABC Solutions was selling the newly updated Timeworks Publisher 2 which is being imported from the UK. ABC also had Home Accounts 2 and the whole line of the latest Kuma Software releases from overseas. Timeworks Publisher 2 looks to be a big improvement over the original Timeworks Publisher ST.

All in all, there were about 70 booths and nearly 50 companies at this show, including a separate area for MIDI applications. The MIDI area had such big name companies as Korg and Steinberg-Jones represented, as well as area MIDI dealers. There was also a Lynx gaming room where the kids could rent a Lynx and let the parents browse the show. Seminars were also offered throughout both days.

On our return trip to Buffalo, we were stopped at the US Border and asked to declare our purchases. As the customs inspectors looked at our software packages, they noted that the items were all American goods (and therefore no duty was required). But it was difficult to explain to them that we had to travel to Toronto to buy software for our computer. Hopefully that will change soon. From the experience of ACE '92, it looks like things are starting to improve in the Atari ST world.



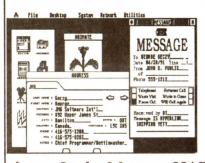
Ralf of CyberCube

# HyperLINK

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## Example #4: Relational DBase



As a simple example of a Relational Data-Base, HyperLINK can be set up to "link" any given field in a data-base with a field in another data-

base. In the Message HAP for instance, there is a link to the Address HAP and HyperLINK performs a search for a matching record.

## Example #1: The Canada HAP



One of the most popular, and common uses for any Multi Media product is Education. The Canada HAP illustrated here, is an example of

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# FALCON 030

## A Preview of Things to Come

To steal a line from the great H.G. Wells, we have seen the future and it works! At the recent ACE '92 show in Toronto, we had the privilege of seeing Atari's newest machine, talking to developers about their impressions, and discussing with Bill Rehbock Atari's plans for production and marketing of the Falcon 030.

We can't disclose all the details of what went on in those meetings. (Well, we could, but Atari would never let us into another such showing.) We can, however, tell you a bit about the computer, since a few other reports have already been made

public.

We have to warn you that this is going to be a very positive, upbeat article about Atari's future. If you're a constantly pessimistic doom-and-gloomer when it comes to

Atari, this article could be hazardous to your view of reality.

Before we delve into details of the Falcon 030 and its capabilities, we must emphasize that what we saw was a pre-production module. Anything and everything we say here could change by the time the Falcon 030 is on the shelves (including the name).

#### **General Overview**

The Falcon 030 is planned as Atari's new low end model of a family of computers. As already disclosed on the major computer networks, the machine comes in a case almost exactly like that of a 1040STE. The only visual difference is the color—a dark charcoal gray that matches Atari's new monochrome monitor and the Portfolio.

As the name implies, the CPU at the heart of the Falcon is a Motorola 68030. The actual speed of the 030 was not disclosed as final, but the slowest a 68030 runs is 16 MHz. The machine will reportedly be available in several RAM options, with 14

megabytes being the top end.

All the standard ports you would expect to find on the machine are there—modem, printer, MIDI, etc. A true SCSI port can also be expected, as well as a High Density 1.44 meg floppy internal drive. Atari has publicly announced that all new machines will have HD drives and true SCSI support. The model we saw had a 2-1/2" (tiny!) internal hard drive as well.

## **Sound and Graphics**

The sound and graphics capabilities of the Falcon 030 are impressive. The phrase heard most often from Atari representatives was "more colors than you can see and

more sound than you can hear."

The graphics demos shown to developers were of a photographic quality that surpassed VGA on a PC or even the capabilities of an Amiga. While Atari gave no exact specifications, the graphics were definitely better than 256 colors would make possible. Reports that the Falcon 030 supports 16-bit color (32,000 colors) are probably right on the money.

Atari has confirmed publicly that the Falcon 030 supports "True Color." What this means is that there is no color palette on the Falcon. Instead, each pixel on-screen can be any color that the hardware can produce. You are not limited to only a handful of the possible colors. In contrast, the STE supports 4,096 colors, but you can only have up to 16 of those colors on-screen at one time. The True Color standard, which is gaining popularity on other platforms like the Macintosh, is a definite plus for the Falcon 030.

On the sound side, you get CD-quality stereo sound built into the system. It's

Bill and Pattie Rayl probably safe to assume the Falcon 030 supports 16-bit stereo sound.

There are a few other surprises in the Falcon 030 that we can't discuss. The Falcon 030 is definitely going to be a big hit in the Multimedia, video and animation markets. Expect to see lots of high quality entertainment software as well.

#### The Bottom Line

As you can probably guess from the computer's enclosure, Atari plans to sell the Falcon 030 as a fairly low cost home computer system. Rumors abound concerning the actual retail price for these machines. While Atari has mentioned a couple of prices as possibilities, you will most likely see the Falcon 030 selling for well under \$1000 US. Prices as low as \$800 might even be realistic. "Incredible," you say? Time will tell. People will definitely be saying that "Power without the Price" is back in a big way.

Atari has also not announced an exact shipping date for the Falcon 030. It is reported that developers will begin receiving machines soon (if not by the time you read this even!). Expect to see the Falcon 030 available to the public before the end of this year. (That's right, 1992!)

### Production and Marketing

Unfortunately, we can't tell you any of the specifics of Atari's production and marketing plans for the Falcon 030. Not because we don't know, but because Atari doesn't want us to spill the beans just yet.

The Falcon 030 is the most impressive machine for the home computer market that Atari has probably ever released. Their production and marketing plans reflect that they fully comprehend just how promising this machine is.

Atari has put into motion a plan that offers a great deal of hope for the future of the company, for Atari developers and for all of us as Atari users. While we can't reveal the details, we can assure you that the details are there.

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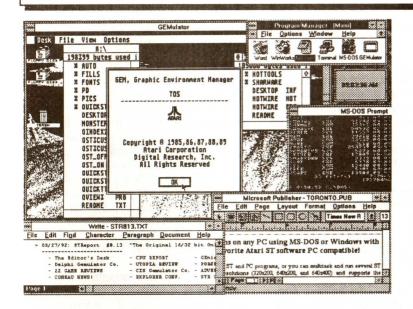
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From the people that brought you ST Xformer II and Quick ST 3.0...

Gemulator is a software/hardware combination that runs on any PC using MS-DOS or Windows with a 386 or 486 processor. Gemulator makes your favorite Atari ST software 100% PC compatible!

Now you can run your ST software at full speed on your PC at work or at school. Share text files, pictures, spreadsheets, and databases between ST and PC software. Multitasks ST software and PC software when used with Microsoft Windows. Supports all 3 Atari ST screen resolutions and the STe's 4096 color palette. Supports all versions of ST TOS (including TOS 1.0, TOS 1.4, and TOS 2.06). Reads all ST disks, even Twisted disks and TOS 1.0 formatted disks. Compatible with any PC mouse and VGA monitor. Easy to install. All you need is a screwdriver.

Gemulator includes a board which allows you to plug in any version of TOS, from TOS 1.0, to TOS 1.4, to the new TOS 2.0. Two versions of TOS may be plugged in at once for improved compatibility with some ST software. You can even run two different ST programs at the same time, each one using a different version of TOS and running in a different screen resolution! Gemulator eliminates the need for having separate color and monochrome monitors and allows you to switch between color and monochrome modes without rebooting.

The following are just a few of the hundreds of Atari ST programs which can now run on the PC: Pagestream, Calamus, ST Writer, Neodesk, Prism Paint, Flash, Tempus, Word Writer, First Word Plus, Degas Elite, Hotwire, Multidesk, Maxifile, GDOS, G+PLUS, Quick ST, Turbo ST, Word Flair, LDW Power, EZ Calc, Madmac, GFA Basic, Sudden View, and Laser C.

For a complete software compatibility list, hardware requirements, pricing, and ordering information write to:

## Branch Always Software 14150 N.E. 20th Street, Suite 302, Bellevue, WA 98007 U.S.A.



# AIM Mac/Spectre Disk f the Month

Each AIM Mac/Spectre Disk of the Month is a double-sided disk packed with some of the best PD and Shareware programs available each month. The disks are available in either Macintosh or Spectre formats. All files are self-extracting Compactor Pro archives. Just double click to extract!

Here is a short description of the files contained on the May '92 Mac/Spectre Disk of the Month:

Disinfectant 2.6—Disinfectant is the premiere Macintosh virus detection and eradication program. It features its own built-in help file which includes a rather extensive section on different Mac viruses. It also includes an option to install a protection init to guard your system from future attacks.

There is a new virus infecting the Mac community called MBDF-A. This virus was first detected in Wales and was later discovered on Internet hiding in a couple of games. The games are "Ten Tile Puzzle" and "Obnoxious Tetris". In addition to these two games, another game called either "Tetricycle" or "Tetris Rotating" has been found to be a Trojan horse that installs the virus. As far as anyone can tell MBDF-A is not destuctive. It does. however, make changes to the System file and seems to take such a long time writing itself that many people reset their computer thinking it's hung. If the reset takes place while the System file is being written to, it will cause the file to be damaged. If this happens, your only option is to reinstall your System files.

Disinfectant combats this, and many other, Mac viruses. We encourage you to use this program to scan your Mac disks. In addition, if you happen to have any of the games

listed above we strongly suggest you get rid of them as quickly as possible. You'll be doing yourself, and everyone else, a big favor.

Z-Term 0.9—This archive contains the latest version of a very popular shareware Macintosh terminal program. Z-Term 0.9 contains just about every feature you could want including auto dialing/redialing, macros, logon scripts, ascii capture, X-modem, Y-modem (including batch), Z-modem and Compu-Serve Quick B protocols.

ASCII Chart 4.2—This archive contains a very useful desk accessory that allows you to view every character in the current font set at one time. This includes all those special characters you can never remember how to make. You simply move the mouse pointer to the desired character and click. ASCII Chart will display the key combination needed to produce that character. There are many more features in this great DA.

miniWRITER—This archive contains the latest version of a great text processor desk accessory. As the name suggests, miniWRITER is small. But don't let that fool you. This DA has become a must have for many Macintosh users. It's great for jotting down notes while working on your computer.

MICN—This archive contains an init/CDEV that replaces the text in your menu bar with icons. Just the thing for cutting some of those long menu bars down to size. The CDEV comes with its own set of menu words and icons, but you can add your own words and icons to the list. It even has a built-in icon editor.

World Time—The CDEV in this archive can display the time and date for a number of cities around the world. You can even add your own cities to the list. World Time takes into account whether it's daylight savings time or not when making its time/date calculations. This useful little control panel device will also adjust your Mac's clock automatically for daylight savings time or standard time as needed.

Kidpix—This archive contains a cute drawing program for kids. It was designed to be easy to learn and use. There are no complicated key sequences to remember and parents can choose to disable the menu bar so desk accessories can't be run. All documentation is included within the program.

Slime Invaders—This archive contains a game which is somewhat like space invaders except that you're fighting slime and toxic waste (yum) rather than aliens.

Macman—This archive contains a very good clone of an old arcade favorite. There are some differences, though. In this version you can choose to make Macman invincible! There are lots of other features as well, such as being able to run the game in slow motion, etc.

Readers can purchase this disk by sending \$6 (\$5+\$1 s/h) to Unicorn Publications, 3487 Braeburn Circle, Ann Arbor, MI 48108, or call (313) 973-8825 and have your Visa or MasterCard ready. Please specify the May '92 Mac/Spectre Disk and which format when ordering.

# AIM ST/Mega/TT Disk of the Month



All files on this disk are self-extracting archives created with Double Click's Self-Extracting ARC program DC SEA! To use these programs, simply double click the files. Then, click on Extract and select the drive/folder to which you want the extracted files saved. Click on Verbose to get a list of the files in each archive or Exit to abort.

Here's a short description of the files on the May '92 disk. For more complete docs, see the text files contained in most of these archives.

ALICE\_12.APP—Version 1.2 of the Alice text editor. Alice stands for Another Little C Editor, is fully GEMbased, supports multiple windows and lots more. Written by Ralf Kaufman of Germany.

BOBBLE.APP—Bobbles is a great game of Tetris with a twist. Arrange the jewels into rows of three to clear them. Great graphics and very playable. Novice, Easy and Arcade levels. Created with GFA Basic using the GP libraries available from DSA. Low rez ST color. Runs great on TT in ST low rez.

CAMELS.APP—Revenge of the Mutant Camels, a fast paced arcade game. One or two player. As a mutant camel, you have to run the guantlet and get to the oasis. In two player mode, you take along your trusty goat friend who doubles as a gun turret. Beware the skiing kangaroos, evil walking sticks and lots more. Low rez ST color. Works fine on TT. Shareware from the UK.

DD10BDMO.APP—Demo version of Double Click's Data Diet! Data Diet is a great commercial realtime compression/decompression program that can save you up to 50-60% of your hard drive's capacity. Using Data Diet is like buying a second hard drive.

FB\_BNS09.APP—Basic Natural Science version of the Fleabyte accessory. Fleabyte is a calculator desk accessory that can automatically export its results into any standard GEM window. Fleabyte/BNS supports unbalanced chemical equations, as well as many other "standard" calculator functions.

MPMODS1.APP—A package of external modules for MegaPaint Professional from CodeHead Technologies. Included are import modules for TNY and PC3 pictures, a menu bar module to get at your DAs, a module to call MaxiFile III, and a module to call Wiz Works! ScanLite software to allow scanning directly into MegaPaint with various hand scanners. Also included is a program to let you change some module parameters and a READ ME file explaining how to set up and use the modules. You must have MegaPaint to use these modules.

MPMODS2.APP—Another set of external MegaPaint modules. This batch contains import modules for Calamus Vector Graphics (.CVG), Calamus Fonts (.CFN) and full pages printed TODISK from within Calamus. MegaPaint is required to use these modules.

MSPACMAN.APP—A great Ms. Pacman clone. One or two players (Player 2 gets to chase Ms. Pacman as the red ghost). Lots of fun. Created with GFA Basic using the GP libraries from DSA. Low rez ST color. Runs fine on the TT.

SELCTRIC.APP—Selectric 1.0 is a feature-full replacement file selector for the ST/STE/TT. A nice interface, with many options and controls. Includes a desk accessory to call the file selector from within any GEM program. Shareware from Germany.

TLC\_ATTR.APP—The Attributer runs as a program or accessory in color or mono. It allows changing

file attributes (hidden, read-only, system, archive) as well as updating the date/time stamp and setting the fastload bit for TOS 1.4. It also allows deleting those pesky files that won't delete, changing filenames and disk volume labels. Shareware from TLC Software.

TLC\_BOOK.APP—The TLC Address Book Version 2.01 has custom GEM editing routines, hot keys in all the dialog boxes, variable page and label size, and various other added features. This is the must-have version! Prints labels for addresses, occasions (birthdays, anniversaries, etc) by month or year, address book pages, date book pages by month or year, etc. It even allows multiple printing of one address (great for return address labels). Configureable for any printer. Shareware from TLC Software.

TLC\_SHOW.APP—A simple viewer for compressed or uncompressed Spectrum pictures. No fancy slide shows and not a lot of parameters to worry about, just choose a picture then press a key. Great for quick viewing of Spectrum pictures. Color only. Shareware from TLC Software.

TRIPLES.APP—A Concentration clone. Match three of a kind to clear squares and reveal parts of a picture puzzle. Solve the puzzle to win the round. One to three players. ST low rez color only. Works fine on the TT.

Readers can purchase this disk from their local AIM Participating user group or by sending \$6 (\$5 + \$1 S/H) to Unicorn Publications, 3487 Braeburn Circle, Ann Arbor, MI 48108 or call (313) 973-8825 and have your Visa or MasterCard ready. Please specify the May '92 ST/Mega disk when ordering.



# 8-bit (Classic) Disk of the Month May 1992

Each AIM 8-bit Disk of the Month is a single-sided, single density "flippy" packed with software. To extract files in the ARC format, you need the UNARC .COM utility. To decompress files with a DCM extension, you need DISKCOM3.UTL. Both programs are available from most BBSes, user groups or you can purchase the April/May '91 AIM 8-bit Disk.

Here's a short description of the files on the May '92 8-bit disk:

#### Side 1

CGS091.ARC—Color Graphics System written by Tom Hunt. Lets you view online graphics while connected to a BBS supporting CGS. Works with BobTerm and possibly other packages. RAMdisk or hard drive required.

DASOMEN.DCM—The Das Omen

demo from Germany. Use Discomm to uncompress, then reboot. Press 'A' to begin the demo once A:DAS OMEN appears on your screen.

#### Side 2

DIRPRINT.ARC—Diamond GOS Directory Printer accessory written by Kevin Packard (WNYAUG). Dumps DOS 2.x compatible disk directories to printer from within practically any program. Requires Diamond GOS cartridge from ReeveSoft.

MATRIX.ARC—A utility to help you create alternate character sets. The program presents a character matrix on-screen and lets you fill in dots. Then, Matrix prompts you to press the key of the character you wish to replace. Character data can be saved to disk. BASIC program.

FNTDSPLR.ARC—Font Displayer lets you preview your font library by displaying font names from disk in their actual fonts. A great shareware utility from Steve Walker (ACCD).

FONTLIB.ARC—In case you don't have many standard 8-bit fonts for use with Font Displayer (and other programs, of course), here is a library of over 70 fonts! Lots of great fonts.

Readers can purchase this disk from their local AIM participating user group or by sending \$6 (\$5 +\$1 s/h) to Unicorn Publications, 3487 Braeburn Circle, Ann Arbor, MI 48108 or call (313) 973-8825 and have your Visa or MasterCard handy. Please specify the May '92 8-bit Disk when ordering.

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BACE			c/o J. Dickerson, PO Box 673 Diablo, CA 94528		PO Box 214892 Sacramento, CA 95821
	5822 5th Terrace S.		Dan Howlett (510) 827-3805		Mark Warner (916) 344-8320
	Birmingham, AL 35212	Meet:	Contra Costa County Water District Bldg,	Meet:	Pac Bell Auditorium, 2700 Watt Ave.
Moot:	Alan Brewster (205) 591-9906 Vestavia Hills Public Library		1331 Concord Ave, Concord, CA.	Day:	
Day:	2nd Mon. Time: 7PM	Day:	1st Thu. Time: 7PM	Dues:	\$24/yr
Dues:	\$15/Regular, \$25/Advanced		\$20/yr	CPU:	ST/Mega/TT
CPU:	Atari 8-bit and ST/Mega/TT	CPU:	Atari 8-bit and ST/Mega/TT		ST-Keep (916) 331-6153, (916) 729-2968 Club newsletter, free raffle ticket at each
BBS:		FRAC	JS .	WIISC.	general meeting, membership disk
Misc:	(205) 251-2344 Advanced includes AIM 8bit or ST monthly		2167 Richart Ave.		
WISC.	disk		Clovis, CA 93712	STAC	E Sonoma
		Most	Tom Hancock (209) 885-2817		PO Box 4916
	Arizona	Meet.	Four Seasons Mobile Home Park Recreation Room, Fresno, CA.		Santa Rosa, CA 95402 John Orcutt (707) 526-2544
PHAST		Day:	Last Sat. Time: 6PM	Meet:	Santa Rosa Baptist Church, 3884
	PO Box 56413	Dues:	\$20/yr or \$10/semi-annually	_	Sebastopol Rd.
	Phoenix, AZ 85079 Mike Aubrey (602) 870-8360		Atari 8-bit	Day:	3rd Thur. Time: 7:30PM
Meet:	Room #101, Devry College, 2149 W.	BBS: Misc:	(209) 251-5338 Membership includes club disk of the		\$20/yr Atari ST/Mega/TT
1, 6	Dunlap Ave., Phoenix, AZ.	WIGO.	month/newsletter and AtariUser	0, 0.	Attail 61/moga/11
Day:	2nd Sat. Time: 10-12PM			SVAC	
	ST/Mega/TT ST Rose (602) 285-0246, RDS (602) 841-	MITAF			672 E. Romie Lane
DD3.	ST Base (602) 285-9246, RDS (602) 841- 7196, Wild Thing (602) 277-8225		1848 N. Gramercy #302		Salinas, CA 93901 Gary Klugman (408) 758-4894
	7 100, 1711119 (002) 277 0220		Los Angeles, CA 90028 Brian Valentine (213) 461-5407	Meet:	Salinas Community Center
SEVA		Meet:	Meets at club address, a MIDI sound	Day:	1st Tue. Time: 7:30PM
	PO Box 662		studio run by Brian Valentine.	Dues:	\$12/yr
	Chandler, AZ 85224 Marc Dyer (602) 897-0314	Day:	Last Sun. Time: 2PM		ST/Mega/TT
Meet:	Dobson Ranch Branch of Mesa Public	CPU:	\$15/yr Atari ST/Mega/TT	Misc:	BitStream (408) 449-2150 Raffles, free disk of the month
	Libraries	Misc:	MITARI supports audio creativity on the	WISC.	names, need disk of the month
Day:	3rd Sat. Time: Usually 10AM		ST/STE. All current members are	TEAC	
Dues:			engineers or producers.		PO Box 1024
BBS:	Atari 8-bit and ST/Mega/TT (602) 833-9216	DAM			Laytonville, CA 95454
Misc:		RAM	PO Box 112	Meet.	Pete Loeser (707) 984-8048 Operates by mail, members are spread all
	access.		Camarillo, CA 93011	WOOL.	over the world.
	Comment of the Commen		Timothy McCoy (805) 482-4788	Day:	
	California	Day:	3rd Wed. Time: 7:30PM		US: \$25/yr, Foreign: Inquire
ACCES		Dues: CPU:		Misc:	Atari 8-bit and ST/Mega/TT TEAC newsletter. 8-bit and ST
	PO Box 1354 Sacramento, CA 95812	BBS:	(805) 987-6985	WISC.	educational disk library.
	Bob Drews (916) 423-1573	Misc:	Member of ACENET consortium, active at		o a a o a a o a a o a a o a a o a a o a a o a a o a a o a a o a o a o a o a o a o a o a o a o a o a o a o a o a
Meet:	SMUD Training Building, Classroom B		the Glendale show.	YAC	
	1708 59th St., between Folsom Blvd. & R	OBAG	-		1129 Fordham Dr.
Dave	St., off Hwy 50. 1st Wed. Time: 7:30PM	SBAC	4802 Avenue B		Davis, CA 95616-0926 Eric Hays (916) 756-5486
Day:	Atari 8-bit		Torrance, CA 90505	Meet:	Call or write for meeting time/place
	ACCESS (916) 428-8662		Robert Smith (310) 518-1845	Dues:	\$8/yr
		Meet:	VFW Hall, 1865 Lomita Blvd., Lomita, CA	BBS:	
AFED	DO D 5207	Deve	(near Long Beach) 2nd Tue. Time: 7:30PM	Misc:	PD library access, Yackity-YAC newsletter.
	PO Box 5367 Vandenberg AFB, CA 93437	Day:	\$20/yr		newsietter.
	Phil Rominger (805) 736-7147		Atari 8-bit, ST/Mega/TT and Portfolio		Colorado
Meet:	Vandenberg Federal Credit Union,	Misc:		ACCD	
	Vandenberg Village branch, Lompoc, CA	0004	110		5407 W. 4th Ave.
Dove	93436.	SCCA	5222 Carryback Ave.		Lakewood, CO 80226
	1st Mon. Time: 7PM \$10/single, \$15/family		San Jose, CA 95111-2801	Most	Guy McDaniels (303) 238-2366
CPU:	Atari 8-bit and ST/Mega/TT		Ron Reade (408) 225-7162	Meet.	ACD/STIG: Aurora Public Library, 14949 E. Alameda Ave. STarfleet: Pamona HS,
		Meet:	San Jose Computer Showroom, Alma		8101 W. Pamona Dr.
AUGIE		Dave	Court 2nd Wed. Time: 7PM	Day:	ACD: 1st Tue.; STarfleet: 2nd Fri.; STIG:
	3905 N. Lugo Ave. San Bernadino, CA 92404	Day:	\$15/yr	CDIL	3rd Tue. Time: 7:00 PM
	Don Lucia (714) 883-3547	CPU:	Atari 8-bit, ST/Mega/TT and Portfolio	CPU: BBS:	Atari 8-bit and ST/Mega/TT (303) 343-2956
Meet:	East Baseline County Branch Library,	BBS:	SCCAUG (408) 971-9212	Misc:	ACCD is an umbrella group for ACD,
	27167 E. Baseline Rd., Highland, CA.	Misc:	MIDI demos are held twice yearly.		Starfleet and STIG.
Day:	2nd & 4th Sat. Time: 2-4PM \$25/yr.	SDAC	F	DOAG	_
CPU:	Atari 8-bit and ST/Mega/TT	00/10	PO Box 900076	P3ACI	PO Box 17779
BBS:	StarLink (9600) (714) 688-3204		San Diego, CA 92190		Colorado Springs, CO 80935-7779
	THE REPORT OF THE PARTY OF THE	Mark	Dan Phillips (619) 462-1289		Steve Leser (719) 576-3357
BAAU	3691 Eastwood Circle	meet:	General: North Park Recreation Center Social Room, 4044 Idaho St. ST/8-bit		T.J. Maxx Center at Rustic Hills
	Santa Clara, CA 95054		Workshops: North Park Adult Center,	Day:	8-bit: 1st Tue., ST: 4th Thu. Time: 7-9PM
	Joe Fischer (408) 988-3065		2719 Howard St.		\$20/yr family Atari 8-bit and ST/Mega/TT
Meet:		Day:	Gen.: 3rd Mon., Workshops: 1st Thu.	BBS:	Laser (719) 527-1374
	Layfayette & Montague Exp. Santa Clara,	Dues	Time: 7PM \$18/yr	Misc:	Club has a Hayes 300 baud and Atari SX-
Day:	CA. 1st Mon.	CPU:			212 1200 baud modem for loan to
Dues:		BBS:	(619) 689-8157		members. AtariUser and AIM ST and 8-bit Disks available at each meeting.
		DDO.			
CPU:	\$20 Atari 8-bit, ST/Mega/TT and Portfolio	Misc:	SDACE newsletter, increased BBS access		
	\$20	Misc:	SDACE newsletter, increased BBS access		Connecticut
CPU: BBS:	\$20 Atari 8-bit, ST/Mega/TT and Portfolio			cccc	
CPU:	\$20 Atari 8-bit, ST/Mega/TT and Portfolio (408) 986-0215 PO Box 40203	Misc:	PO Box 1506 San Leandro, CA 94577-0374	cccc	127 Pinnacle Rd.
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CPU: BBS: BACE	\$20 Atari 8-bit, ST/Mega/TT and Portfolio (408) 986-0215 PO Box 40203 Bakersfield, CA 93384 Tim Hobbs (805) 837-2726	Misc:	PO Box 1506 San Leandro, CA 94577-0374 Bob Woolley (415) 865-1672 San Leandro Community Library, 300		127 Pinnacle Rd. Bristol, CT 06010 Rich Scheidel (203) 589-3738
CPU: BBS:	\$20 Atari 8-bit, ST/Mega/TT and Portfolio (408) 986-0215 PO Box 40203 Bakersfield, CA 93384 Tim Hobbs (805) 837-2726 Pizza Hut, 3017 Wilson Rd., Vons	Misc: SLCC Meet:	PO Box 1506 San Leandro, CA 94577-0374 Bob Woolley (415) 865-1672 San Leandro Community Library, 300 Estudillo Ave.	Meet: Day:	127 Pinnacle Rd. Bristol, CT 06010 Rich Scheidel (203) 589-3738 127 Pinnacle Rd., Bristol, CT. 3rd Wed. Time: 7:30PM
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Ansonia, CT 06401 Madelon Wilson (203) 735-6711 Greater New Haven State Tech. College, 88 Bassett Rd., North Haven, CT. 3rd Thu. (exc. Aug.) Alton, IL 62002 Hank Vize (618) 465-0342 Alton Square Mall Community Room, Kansas FLAG Meet: Meet: Alton, IL. 1st Mon. Time: 7PM PO Box 3233 Fort Leavenworth, KS 66021 Jeff Yoe (913) 682-2883 Day: Dues: CPU: \$20/yr ST/Mega/TT (203) 421-4861 \$18/yr newsletter membership Atari 8-bit and ST/Mega/TT Eastside (618) 254-6077, Garage (618) Dues: CPU: Atari 8-bit and ST/Mega/TT CPU: BBS: BBS: Kentucky 344-8466 EAUG-Log club newsletter Member of Midwest Atari Regional Coucil consortium Misc: AEL Delaware PO Box 34183 CDACC Louisville, KY 40232 Lawrence Estep (812) 944-8997 Central Jefferson County Government 3117 Walnut St. GAUG Dover, DE 19901 55 Herring St. Galesburg, IL 61401 Meet: Atari 8-bit and ST/Mega/TT Center, 7201 Outer Loop 2nd Sat., 8bit SIG: 1st Wed., ST SIG: 4th Wed. Time: 11:30AM/SIGS: 7:30PM Russ Watson (309) 343-6609

Meet: Community Center on Simmons St. in Galesburg, one block sourth of downtown.

Day: 2nd Mon. Time: 7PM

Dues: \$10/yr family, \$5/yr student

CPU: Atari 8-bit and ST Day: **Florida** ABLE \$20/yr per family Atari 8-bit and ST/Mega/TT Atari Scene! (502) 456-4292 Members subscribe to AELien PO Box 1172 Winter Park, FL 32790 Hadley Nelson (407) 671-0317 Orlando Public Library, Palm Magnolio Room 101 E. Central Blvd., Orlando FL Last Sun. Time: 1:30-4:30PM CPU: BBS: Meet: Transmissions newsletter (6 issues) for LCACE \$1.74/vr. PO Box 8788
Waukegan, IL 60079-8788
Mike Brown (708) 336-1128
Warren-Newport Public Library, 244
O'Plain Rd., Gurnee, IL.
2nd Sat. Time: 11AM-3PM Day: Dues: BRACE Atari 8-bit and ST/Mega/TT Access to the ABLE Program Library of User Software (ABLE PLUS) and ABLE 3209-B Baird Ct. Lexington, KY 40515 Hal Nason (606) 269-8989 Lexington Free Public Library, Downtown CPU: Misc: Meet: AID newsletter. Day: Dues: Branch PACE 3rd Tue. Time: 7-9PM \$15/indiv., \$20/family, \$10/assoc. Atari 8-bit and ST/Mega/TT Associate membership includes AIM but Atari 8-bit and ST/Mega/TT Python (9600) (708) 680-5105, Pegasus (708) 623-9570 Day: Dues: CPU. 2439 Moorehaven Drive East BBS: Clearwater, FL 34623-1615 CPU: Alan Frazer (813) 791-0912 Sponsored Midwest AtariFest (Apr. '90), ChicagoFest (Nov. '90) and the recent ChicagoFest by Atari (Nov. '91). Misc: Atari 8-bit not library access. Tut's (813) 797-8449 STARgroup
2312 Ironstone Dr. E.
Jacksonville, FL 32216
S. Michael Hallack (904) 646-0567 Louisiana RACC 5430 N. 2nd St. Loves Park, IL 61111 Cal Schafer (815) 633-1259 Springbrook Congregational Church, off Alpine just as you make the turn onto Springbrook Rd. from Spring Creek Rd., CASTE 314 W. Claude St. Lake Charles, LA 70605 Tim Bowles (318) 477-3243 College Park Nazarene Church, 340 E. Prien Lake Rd., Lake Charles, LA Last Sat. Time: 1PM La Miranda Apartments off Powers Ave., Jacksonville, FL. Meet: Meet: 1st & 3rd Tue. \$15/yr \$15/yr \$T/Mega/TT, Macintosh and Portfolio Lief's World (904) 573-0734 Free PD/Shareware disk library access, Dues: Springbrook Hd. from Spring Rockford, IL. 3rd Sat. Time: 9AM-Noon Atari 8-bit and ST/Mega/TT (815) 226-2388 \$15/yr ST/Mega/TT General Store (14.4K)(318) 855-6939 Dues: CPU: Day: CPU: BBS: Misc: BBS: quarterly newsletter. **Massachusettes** SCAT PO Box 72266
Roselle, IL 60172
College of Dupage, Student Resource
Center on Lambert Rd. between
Roosevelt and Butterfield, Glen Ellyn, IL.
1st Sat. (check BBS) Time: 10AM TBAA WMAUG 5918 Otis Ave. Tampa, FL 33604 Butch James (813) 237-4306 East Bay Library, East Lake Square Mall 2nd Wed. Time: 7PM 285 Gates St. Palmer, MA 01069
David Scarpa (413) 283-4171
Chicopee Public Library Main Branch,
Front St., Chicopee, MA
1st Wed. Time: 7PM Meet: Meet: Day: Day: \$10/yr Atari 8-bit and ST/Mega/TT Monthly classes in software and Dues: \$20/yr family CPU: \$20/yr Atari 8-bit, ST/Mega/TT and Portfolio WMAUG Junction (413) 283-4967 Atari 8-bit and ST/Mega/TT \*3CAT (708) 231-7227 Dues: CPU. CPU: BBS: peripherals STAR Georgia 337 N. 43rd St. Belleville, IL 62223 Craig Carter (618) 233-6675 Michigan MGAUG CACE Rt. 1 Box 362M4 Carl Sutton Rd PO Box 6161 Rt. 1 Box 362M4 Carl Sutton Rd Lizella, GA 31052 Jeff Vincent (912) 836-3852 Tattnall Square Academy, Macon, GA. 2nd Sun. Time: 2PM \$30/yr and \$4/year optional newsletter ST/Mega/TT Club library use is free to all paid members. AtariUser. Participates in annual show at local mall Illinois Power Bldg., 1050 West Blvd., Belleville, IL Meet: Jackson, MI 49204 CPU: Atari 8-bit, ST/Mega/TT and IBM Day: Last Mon. (exc. December) Time: 7PM \$15/yr \$T/Mega/TT Day: Dues: PO Box E Flint, MI 48507 Jerry Cross (313) 736-4544 GMI Institute Rm 817A, corner of Chevrolet and 3rd Ave, Flint, MI 2nd Wed. Time: 6:30PM \$15/yr Dues: CPU: CPU: Indiana Meet: ACORN annual show at local mall. 3627 Iowa Court Day: Fort Wayne, IN 46815 STAR Dues: Bob Kelley Atari 8-bit and ST/Mega/TT FACTS (9600) (313) 736-3920, Carnival (313) 235-0158, Nine Planes (313) 233-3069 N. Brook Rd. Shawnee Branch of the Allen County Meet: Chamblee, GA 30341 Rick Ostapower (404) 487-4845 BBS: **Public Library** Day: 1st Sat. Time: 10AM-1PM Day: 3rd Mon. 6095 Dues: \$18 \$30/yr ST/Mega/TT Helped sponsor 1987 MAGIC show and 1989 WOA Detroit show Dues: CPU: Atari 8-bit and ST/Mega/TT CPU: BBS: (219) 744-1396 Three Rivers Festival, PentaCon, ICE Kid's Conference Participant. Misc GLASS Illinois PO Box 99737 CUSTUG PO Box 3442 Champaign, IL 61826-3442 Lee Johnson (217) 356-7916 Troy, MI 48099 CRAG Troy, MI 48099
Byron Johnson (313) 758-2741
Troy-Athens High School, 2 blocks north of Wattles on John R Rd.
1st Thur. Time: 7PM PO Box 10995 Merrillville, IN 46411 Randy Noak (219) 663-6912 Broadway Music, Greentree Plaza, 1509 W. 81st (US-30), Merrillville, IN. 2nd Wed. Time: 7PM Meet: Urbana Free Library Auditorium, corner of Elm and Race, Urbana, IL. 2nd Wed. Time: 7PM Day: Meet: Day: Dues: \$20/yr Atari ST/Mega/TT CPU: Day: \$15/yr ST/Mega/TT ST/Mega/TT
AtariUser magazine, PD library access,
December MIDI concert/demo. CPU: Dues: **GRASS** Misc: CPU: 624 Dickinson SE Grand Rapids, MI 49507 Wyoming Public Library, 3350 Michael S.W., Grand Rapids, MI. ST disks \$2.50 each for members, \$4 Misc: non-members

**EAUG** 

2425 Crislisa Dr.

Meet:

Day: 1st Wed. Time: 7PM Don Allis (716) 293-3415 Brighton HS, 1150 Winton Rd. South, Montana \$22/vr RACE Brighton HS, 1150 Winton Hd. South, Room 262S. 2nd Wed. Time: 7PM \$20/yr (add \$6 for AIM) Atari 8-bit and \$T/Mega/TT Dimension's End (716) 436-3078 ACORN Kernel newsletter, AtariUser, extra BBS access. ST Beginners and 8-bit CPU: Atari 8-bit Box 364 Day: Dues: Frenchtown, MT 59834 Tom Tucker (406) 626-4410 MACE PO Box 2785 National Guard Armory, 2501 Reserve St., Missoula, MT. 3rd Sun. Time: 7PM Southfield, MI 48037 Southfield Civic Center, Room 115, at 10-1/2 Mile and Evergreen, 1/2 mile south of the Evergreen exit on I-696. 3rd Tue. Time: 7:30PM Meet BBS: Meet: Misc: Day: \$16/year Atari 8-bit and ST/Mega/TT Membership includes free PD disk. Dues: CPU: Basically Speaking classes held before Day: general meeting Misc: Dues: \$20Nr Atari 8-bit and ST/Mega/TT Send \$2 for current ST or 8-bit disk CPU: **BRAG\*ST** North Carolina Misc: PO Box 1035 RACE Buffalo, NY 14225
Mark Pierro (716) 691-7844
Erie Community College, North Campus,
Room S-105 in the Student Center. catalog. 4360 Hunters Club Dr. Raleigh, NC 27606 SAL SA Meet: Lewis Midyette (919) 828-4319
Announced on Galaxy BBS, look under
Bulletins for "A word from the president of PO Box 1342 Sault Ste. Marie, MI 49783 Roger Aube (705) 759-3922 Adom S-105 in the Student Center.
3rd Thu. Time: 7:30PM
ST/Mega/TT
Monthly raffle. Board of Directors, 1st
Thurs. at Your Host Restaurant, Harlem at
Sheridan, 7PM. Meet. Day: CPU: Atari 8-bit and ST/Mega/TT Galaxy (919) 552-0974 Misc: CPU: STAG 4765 N. Eastman Rd.
Midland, MI 48640
Bryant LaFreniere (517) 835-2234
Rudy Zauel Memorial Library, corner of
Center and Shattuck in Saginaw BBS: North Dakota CDACE PO Box 1910 Schenectady, NY 12301 Bob Thompson (518) 439-5356 Computer Cellar in the Westgate Plaza, MACUG 129-2 Sirocco Dr. Meet: Minot AFB, ND 58704 Township. 2nd Sat. Time: 9AM Day: Atari 8-bit and ST/Mega/TT
Free PD disk with membership/renewal,
PD disks are \$3 or 2 for \$5. Participates in Dues: CPU: Albany, NY. ST: Last Wed., XL/XE: Qtrly. Time: Nebraska O-ACES Day: Misc: PO Box 723 Papillion, NE 68046 \$20/year Community Fair at Fashion Square Mall Pete Killian (402) 592-5427 La Vista Recreation Center, 8116 Parkview Blvd. (just off 84th St., south of CPU: Misc: Atari 8-bit and ST/Mega/TT ST disks \$2, free XL/XE library access. each January STING Food-4-Less and east of 84th at the light.) 2nd and Last Wed. (exc. Nov. & Dec.) LIAUG PO Box 321 Marne, MI 49435-0321 Donna Meyer (616) 942-5167 Plainfield Township Library, 2650 5 Mile Rd NE, 1/2 mile east of N. Kent Mall. 2nd Wed. Time: 6:30-9PM PO Box 92 Islip, NY 11751 John Aalto (516) 589-6754 Nesconset branch of the Smithtown Day: Time: 7:30PM Atari 8-bit and ST/Mega/TT CPU: Meet: Meet: Library, Nesconset, NY. 1st Sat. **New Jersey** Day: Day: **JACS** \$15/yr Atari ST/Mega/TT Dues: Dues: \$20/vr PO Box 710 CPU: PO Box 710
Clementon, NJ 08021
Mike Hopkins (609) 783-1423
Camden County Library
3rd Tue. Time: 7-9PM
\$24/yr (August renewal)
Atari 8-bit and ST/Mega/TT
(609) 346-1224
Retween Bytes poyeletter At-CPU: Atari 8-bit, ST/Mega/TT, Portfolio and BBS: STING (616) 532-5736 Lynx New Nest (516) 234-4943, Star Scan (516) 399-4252 BBS: Meet WAUG 14 Payeur
Ann Arbor, MI 48108
Dave Brzezinski (313) 971-3927
Michigan Student Union on State St. at the corner of S. University in Ann Arbor. 2nd Tue. Time: 7:30PM Day: Dues: **OHAUG** G 3376 Ocean Harbor Dr. Oceanside, NY 11572 Alex Pignato (516) 678-6081 Plainview-Old Bethpage Library, 999 Old Country Rd. in Plainview Usually 2nd Sat. BBS: Meet: Between Bytes newsletter, AtariUser available at meetings Send SASE (business size) for copy of current ST or 8-Day: Dues: Meet: \$15/yr bit disk catalog. CPU: Atari 8-bit, ST/Mega/TT, Macintosh and Day: Portfolio
MOlin's Den (313) 451-0524
Monthly 8-bit and ST raffle, free ticket for members, SX212 modem available for Dues: \$24/yr Atari 8-bit ONLY! Charter member of NEAR\*US user group **New Mexico** BRS. AACE Misc: Misc: 1021 Sagebrush Trail SE consortium. Albuquerque, NM 87123 Richard Houser (505) 299-3977
Gas Company of New Mexico. 4625 Edith
Blvd, Albuquerque.
Gen: 1st Sat and 3rd Tue., 8bit: 2nd Tue. WNYAUG Meet: PO Box 59 Minnesota Buffalo, NY 14216 PACE 4835 Crosley Ave.
Duluth, MN 55804-1219
Tracy Hendershot (218) 525-1058
Duluth Radisson Hotel, check local BBSes
for exact location. Meetings are bi-monthly
(Jan, Mar, May, Jul, Sept. and Nov.).
3rd Sun. Time: 1:30PM Day: Mike Husband (716) 825-8486 Room 116E, Bacon Hall, State University College of Buffalo, 1300 Elmwood Ave. 1st Thu. Time: 7:30PM \$15/yr new, \$12/yr renewal \$20/yr payable in January Atari 8-bit and ST/Mega/TT Astro (505) 260-0448 Dues: CPU: Meet: BBS: Meet: Day: PD library access, BBS membership. Swap meet on 1st Sat. of June and December. Misc: Dues: Atari 8-bit Wizard's Attic (716) 681-1654 POKEY newsletter disk CPIL BBS: Day: Dues: \$30/yr. Misc: Atari 8-bit and ST/Mega/TT Nevada CPU: Newsletter, free ST/8-bit disk, free printer ribbon reinking, free copying of ST/8-bit HISUG Misc: Ohio PO Box 2152
Sparks, NV 89432
Gary Marston (702) 885-2081
Round Table Pizza, Baring Village, 1201
Baring Blvd., Sparks, NV.
3rd Thur. Time: 7PM ACCT PD libraries. 4487 289th 4447 289th
Toledo, OH 42611
Dave & Brenda Micka (419) 729-1891
Dave & Brenda Micka's home.
1st Wed. Time: 7-9PM
Atari 8-bit and ST/Mega/TT
Disk Drive-Thru (419) 885-3441
Disks \$2 8-bit, \$4 ST Meet. Missouri ACE of SL Meet: Day: PO Box 3508 Day: CPU: \$20/yr Atari 8-bit and ST/Mega/TT UNreliable (702) 358-6307 St. Louis, MO 63143 Nick Barr (314) 741-1505 Thornhill Branch of St. Louis County Library, Fee Fee and Willowick, Maryland Dues: BRS: BBS: Meet: Misc: SNACC 48 Lafaette St.
Las Vegas, NV 89110
Harvey Cannon (702) 459-4089
Winchester Center, 3130 Mcleod
1st Thur. Time: 7-9PM
Atari 8-bit, ST/Mega/TT and Portfolio
SNACC (702) 438-2208 Heights, MO. ACEC Date and time varies
Atari 8-bit and ST/Mega/TT
Club newsletter. Member of MARC. Day: 1287 Dennison Ave. Columbus, OH 43201 Misc: Meet: CVACC PO Box 9173 Akron, OH 44305 Don Crano (216) 376-7618 First National Bank, Mogadore, OH. Day: CPU: KCAC 1107 W. 88th St. BBS: Kansas City, MO 64114 Gary Leach (913) 236-9643 ST/Mega/TT Meet: New York Day: Dues: 2nd & 4th Tue. Time: 7:30PM \$20 family ACORN PO Box 24920 Atari 8-bit and Mega/ST/TT Misc: Discounts at local computer stores, club Rochester, NY 14624

David Hunt (503) 286-6276 Atari 8-bit and ST/Mega/TT ACE of America (503) 285-4417 Nashville Exchange (9600) (615) 383-0727, Troll's Cave (615) 872-0757 newsletter The Password CPU MAUG BBS: PO Box 134 AAAUA
PO Box 79-1426
San Antonio, TX 78279
Al Sherrill (512) 492-6633
Meet: Balcones Heights Community Center, 107
Glenarm, San Antonio, TX 107 Glenarm,
Can Antonio Texas Ontario, OH 44862 Chuck Steinman (419) 529-2478 after Pennsylvania NAPCO 642 E. Waring Ave. State College, PA 16801 Greg Brown (814) 238-4255 CPU: Atari 8-bit and ST/Mega/TT Meet: A&B Computers, 1151 Park Ave. W. West Park Shopping Center, Mansfield, OH 3rd Sat. (exc. July) Time: 7-9PM Day: Dues: \$12/yr 1st Tue. Time: 6:30-9:30PM \$24; Subscribing: US-\$16, CAN/MEX-\$36 (\$14 no AIM), Other-\$54 (\$18 no AIM) Atari 8-bit CPU: Atari 8-bit and ST/Mega/TT Box 312, LaSalle Univ. Philadelphia, PA 19141 Drexel University, Room M11B, Matherson Blvd., 32nd and Market St., DataQue (419) 529-5197 Members can access AIM ST and 8-bit BBS: Misc: CPU: Meet: disk files on the BBS. AtariUser available Library of around 700 disks. (FR)ANTIC monthly newsletter. Swap meet and computer workshop each 3rd meeting. Misc: free to members at A&B. Back issues of AtariUser available for \$1 each. Phil., PA. 3rd Sat. Day: \$25/year with an additional \$2 for new Dues: MVACE AACE PO Box 24221 Huber Heights, OH 45424 Dan Steffen (513) 832-0749 members 1601 Larkwood Dr. Austin, TX 78723 Eve Kuniansky (512) 323-2016 Library. Pizza buffet 1st Thursday of each month 6:30-8PM. 2nd Sat. Time: 2-5PM \$24/yr Jan-Dec CPIL Atari 8-bit (215) 942-9600 to 9604 (9603/4 for 300 BBS: baud) Jaycees Clubhouse 2nd & 3rd Sat. Time: 9:30 to Noon \$20/yr, \$12 for students or newsletter only Misc: The DataBus newsletter, AtariUser Day: Dues: Day: SAGE Atari 8-bit and ST/Mega/TT Dues: PO Box 10562 BBS: ACE (513) 233-9500 Erie, PA 16514-0562
Dennis McGuire (814) 833-4724
St. John's Lutheran Church, Erie, PA.
3rd Sun. Time: 2PM
Atari 8-bit and ST/Mega/TT CPU: Atari 8-bit, ST/Mega/TT, Portfolio and Lynx Newsletter, C classes, library access. NASAC Misc: Meet: 1810 Cheviot Hill Dr. Springfield, OH 45505-3508 Vandalia Elementary School, Room #2, 333 Bohanan Dr., Vandalia, OH 45377. 2nd Thu. Time: 7:30PM Day: CPU: ACCEPT Meet: 245 Longhorn Court El Paso, TX 79907-5215 Steve Bruck (915) 858-1117 SPACE Day: PO Box 11446 \$12/yr Atari 8-bit, ST/Mega/TT and IBM Monthly newsletter "The NAS-HACKER." Dues: CPU: Dues: Harrisburg, PA 17108 John Slade (717) 938-3656 Camp Hill Mall Community Room \$20 CPU Supports Atari 8-bit, ST/Mega/TT, Macintosh and IBM Misc: Meet: STEP (915) 755-STEP; STE-EP (915) BBS: Day: 3rd Mon. Time: 7:30PM STANCE 821-9220 \$15/yr Atari 8-bit and ST/Mega/TT SPACE Probes newsletter 1174 Larkspur Dr. Lyndhurst, OH 44124 Dues: Discounts from Jenkins' Computers, special STE-EP access. Misc: CPU. Lyndhurst, OH 44124 Joseph Adato (216) 449-6881 B&G Electronics, 15729 Madison Ave., Lakewood, OH. 3rd Mon. Time: 7:15PM \$12/yr with one time sign up fee of \$13 ST/Mega/TT Misc: Meet: **GTAUG** WACO 6621 Capitol St. Groves, TX 77619 Ray St Cyr (409) 727-7215 230 Clairmont St. Day: 230 Clairmont St. North Huntingdon, PA 15642 Patty Marshall (412) 225-8637 North Huntingdown Town House, near Irwin, PA. 2nd Tue. CPU: Usually 2nd Tue. \$24/yr (Sept. renewal) Atari 8-bit, ST/Mega/TT, Macintosh Meet: Dues: Oklahoma CPU: Day: TACE BBS: (409) 722-6526 \$24 family 16564 SE 18th Choctaw, OK 73020 Ron Hamilton (405) 387-5649 Atari 8-bit, ST/Mega/TT, Mac, IBM and CPU. HACE Portfolio PO Box 460212 Houston, TX 77056 Misc: Huge foreign PD libraries. Participates in Moore Public Library, 225 S. Howard, just off SW 4th and I-35, Moore, OK. 1st Sat. Time: 1PM \$15 family, \$7 correspondence (July Meet: many Atarifests in the northeast. Bill Kithas (713) 855-0815 Health Economics Corp., 2400 West Loop Day: Meet: South Dakota S., Houston, TX. 4th Wed. Time: 6:45PM Dues: RACE renewal) Atari 8-bit and ST/Mega/TT TACE (405) 366-1977 Day: 9512-A Adams Ellsworth AFB, SD 57706 Rick Burton (605) 642-5353 Rapid City Public Library 4th Sat. Time: 2PM CPU: \$22/year Atari 8-bit, ST/Mega/TT Dues: BBS: CPU: Will mail copies of AtariUser magazine to Misc: BBS: (713) 458-9923 Meet: individuals for approx. \$1 per issue. UPDATE ATARI newsletter, store Day: discounts, door prizes, workshops. \$12 basic, \$15 newsletter Atari 8-bit and ST/Mega/TT Dues: Oregon CPU: HASTE ACUNET ET
2662 E. Nob Hill Dr. SE
Salem, OR 97302
Ron Purdy (503) 588-7509
4th Tue. Time: 7PM
\$15 with AIM, \$10 without
Atari 8-bit and ST/Mega/TT
Salem Public Lib. (503) 588-6130, Page
(503) 363-0171, The Jungle (503) 393-4274 4930 Shadowdale Houston, TX 77041 Phillip Stojankik (713) 896-9131 Megabyte Plus, 5181 FM1960W, Houston, TX 77069. Tennessee CACE 280 Capshaw Drive Cookeville, TN 38501 Dan Hale (615) 526-8002 Putnam County Library, Cookeville, TN. 1st Sat. Time: 1PM Meet: Day: Dues: CPU: Last Sat. Time: 10:30AM Day: \$20/yr Dues: BBS: Meet: ST/Mega/TT and Portfolio HASTE (713) 921-0550 CPU: Day: Dues: BBS: Atari 8-bit and ST/Mega/TT Generic BBS (615) 432-5809 Hosts the annual Atari Safari show. CPU: Misc: BBS: COAC PO Box 6824 PO BOX 6824
Bend, OR 97708
Aaron Leis (503) 388-7516
Ann Rita Conference Center (in front of the St. Charles Hospital on Neff Rd.), PO Box 18731 MASH San Antonio, TX 78218-0731 Tim Hebel (512) 656-5315 Balcones Heights Community Center, 710 3265 Austin Peay Hwy. Memphis, TN 38128 Randy McKinna (901) 388-3384 State Technical Institute in the Fulton Meet: Meet: Glenarm, San Antonio, TX. 2nd Tue. Time: 7-10PM \$20 w/AIM, \$15 regular Bend, OR.

1st Sat. Time: 5PM
\$20/yr new, \$17/yr renewal, \$1/yr for each additional family member.

Atari 8-bit and \$T/Mega/TT Meet: Auditorium. 2nd Mon. Time: 7PM \$24/yr (renewal in July) Day: Day: Day: Dues: Dues: ST/Mega/TT CPU: Dues: Atari 8-bit and ST/Mega/TT MASH COM (901) 377-1904 Club newsletter, discounts, Disk of the CPU: BBS: Month for \$2, New user classes. DCASTE 1033 Barager Roseburg, OR 97470 Jim Steingrobe (503) 673-1687 NAUG PO Box 121752 LACE Walt Sullivan (615) 228-7353

Cumberland Museum and Science Center 3rd Thu. Time: 7-10PM
\$24/yr full; \$12/yr associate

Atari 8-bit and ST/Mega/TT 3897 S. 2275 W. Roy, UT 84067-3515 Irwin Brooks (801) 731-1516 Clearfield Library basement, Roy, UT.

Meet:

Dues:

CPU:

Day:

62

PAC

PO Box 1692 Beaverton, OR 97005

Day:

2nd Wed. Time: 7PM

Dues: CPU:

\$20/yr Atari 8-bit and ST/Mega/TT

STUN

PO Box 27285

PO Box 2/285
Salt Lake City, UT 84127
Randy Larsen (801) 967-0209
Murry High School
3rd Wed. Time: 7PM

Meet: ST/Mega/TT The Bolt (801) 968-3921

#### Washington

CACUG

Box 767 Chewelah, WA 99109 Atari 8-bit and ST/Mega/TT CPU:

FACCS

PO Box 5121

Spokane, WA 99205

Tim Osborne (509) 624-1917
Eager Beaver Computers, next to the
Garland Theatre, Spokane, WA.
2nd Thu. Time: 7PM Meet:

Day: Dues: \$15/yr family CPU: Atari 8-bit and ST/Mega/TT

Starbase

8307 27th NW

Seattle, WA 98117 Steve Drake (206) 782-3691

Mountlake Terrace Library, 23300 58th Ave West, Mountlake Terrace, WA. 2nd Fri. Time: 6PM Meet:

Day: Dues: CPU: \$18/yr Atari 8-bit and ST/Mega/TT

SWAG

PO Box 1515 Vancouver, WA 98668 Gary Lentz (206) 573-8224 Clark County Fire District #5, Station 3 on

213 NE 120th, Vancouver, WA.

Last Sun. (exc. July) Time: 6:30PM Day:

Dues: \$12/yr

Atari 8-bit and ST/Mega/TT CPU: Bear Cavern (206) 574-1146 BRS.

Wisconsin

MilAtari

PO Box 14038 West Allis, WI 53214

Lee Musial (414) 466-7557 Greenfield Park Lutheran Church, 1236 S.

115th St.

Day: 3rd Sat. Time: Noon

\$22/yr Atari 8-bit and ST/Mega/TT Dues:

MilAtari hosts the Computer Gaming area Misc: at GEN-Con each year.

Canada—Ontario

KAUG

153 Oxley Dr. Chatham, Ontario N7L 4R3 CANADA Channel One Computers (519) 351-0760

North Maple Village Mall on Highway #40, Meet:

just north of Chatham. 4th Tue., Sept-May

Dues: \$20/vr

Atari 8-bit and ST/Mega/TT KAUG BBS (519) 351-3901

NCAUG

15 Blueridge Court Nepean, Ontario K2J 2J3 CANADA Hardy Zeltins (613) 825-4196 Atari 8-bit, ST/Mega/TT, Macintosh

TASTE

185 Varsity Row

Thunder Bay, Ontario P7B 5P2 CANADA Dues:

\$25/yr Canadian ST/Mega/TT CPU:

WAUG

3199 McKay Ave.

Windsor, Ontario N9E 2R4 CANADA

Brian Cassidy (519) 966-0305 Roseville Gardens Community Centre, 4200 Roseville Garden Dr., Windsor,

Ontario, Canada. 3rd Thu. Sept-June, exc. Dec. (2nd Thu.) Day:

Time: 7:30PM

\$25 Canadian CPU: Atari 8-bit and ST/Mega/TT

Canada—Quebec

**ASTMUM** 

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MORE!

MACAM

PO Box 5418
St. Laurent, PQ H4L 4Z9 CANADA
Terry Cowen (514) 696-3773
Monkland Recreational Centre, 4410 West Meet:

Hill, N.D.G., Montreal, Quebec.

Day:

8-bit: 1st Thu., ST: 3rd Thu. \$25 8-bit, \$30 ST, \$35 both (Canadian) Atari 8-bit, ST/Mega/TT and Portfolio Dues: CPU: BBS: Enchanted Realm (514) 366-4556

Disk-based newsletter, free AIM disk access, AtariUser magazine

**England** 

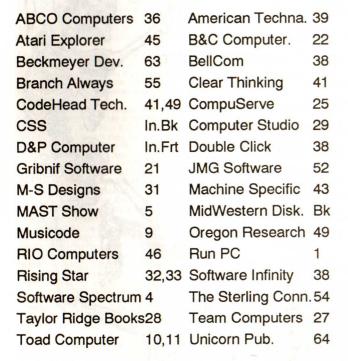
**BaPAUG** 

248 Wimborne, Oakdale Poole, Dorset BH1S 3EF ENGLAND 1st Fri. Time: 7:30PM Atari 8-bit and ST/Mega/TT

Day: CPU:

8:16 Newsletter

## AJIMI AJDIVIEJRITIJISIEJRISI





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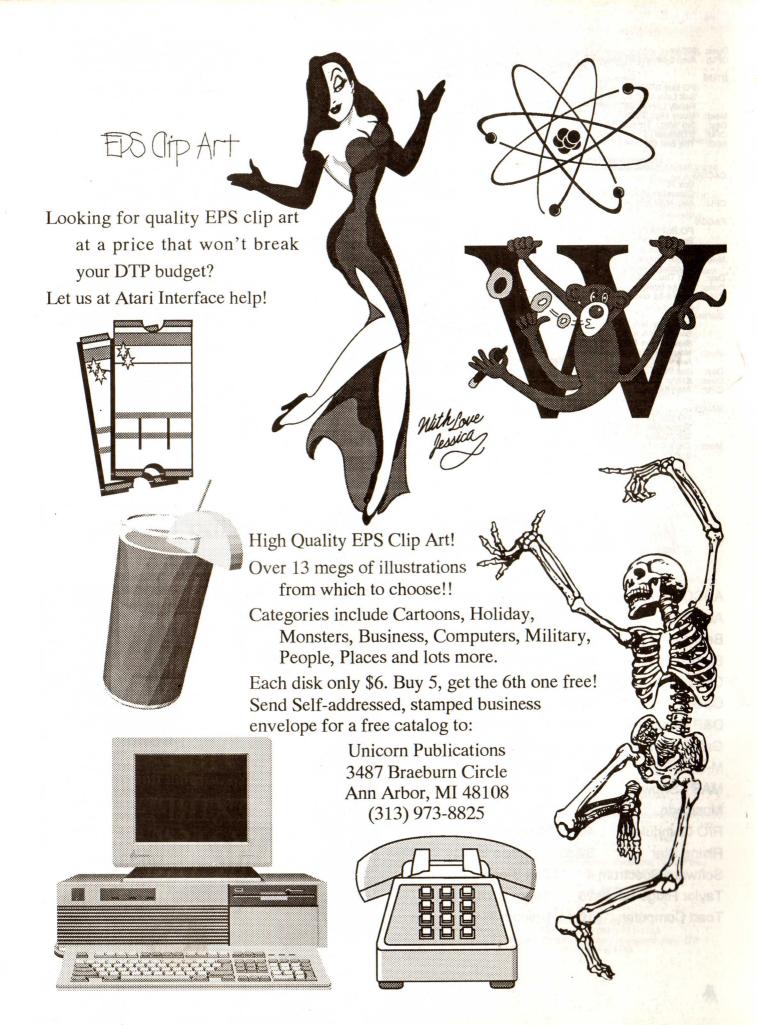
Get the best-selling disk optimizer and speed up your hard disk's performance. It works with all Atari ST/STe/TT compatible hard disk formats, including the BGM format, using any size partitions. Use Hard Disk Sentry to diagnose and repair common - and dangerous - disk problems. Works on floppies and Syquest drives too! New features include progress bar graphs; graphical disk map; scrollable window for

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diagnostic messages; and

more.

P.O. Box 21575 Oakland, CA 94620 fax 510-530-0451 BBS 510-530-9682



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Double the storage capacity of your XF551 with our 3.5" 720k single drive upgrade! Included with the upgrade is a Sony 3.5" disk drive in a 5.25" faceplate that perfectly replaces the existing 5.25" drive. The 3.5" drives are newer technology, more reliable, and easier to handle. Do NOT confuse this with public domain upgrades! The completely re-written drive OS adds these

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- Eliminates density reconfiguring problems
  Switches to second side without reconfiguring
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- Very high speed sector skew in US mode
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- Compatible with 40 OR 80 track drives

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#### THE FLOPPY BOARD \$109/149

The Floppy Board has arrived! This long-awaited Black Box add-on has been in the making for quite a while, but we've packed it with features that are worth the wait! This sophisticated device allows connection of up to four 5.25" or 3.5" floppy drives (drive sizes may be mixed). Access to these drives will be at parallel bus speed, approaching that of hard disks!

The board consists of 13 special integrated circuit chips, fully powered by the power supply of the Black Box. It has its own on-board microprocessor to take the load off the computer's processor for disk I/O. The board and fits perfectly over the Black Box (inside the custom cases!). It is not a stand-alone device; it must be used in conjunction with the Black Box.

High density disks are supported, so 1.2 meg 5.25" and 1.44 meg 3.5" drives may be connected. This is the only 8-bit controller to fully support these drives and densities! With four 3.5" 1.44 meg drives connected, you can achieve more total storage than a 5 meg hard disk! Archiver compatibility is supported! This means you can back up those titles no longer available. Although it's not as powerful as our Super Archiver, it will have the same editing power, with good backup capability

Software included with the Floppy Board includes a utility to READ and WRITE IBM and ST disk formats! This will yield the easiest possible way to port text and data files between your 8-bit and ST or PC! This will be compatible with most all of the current formats. Also included is a high-speed sector copier designed to make extremely fast, verified copies of disks. A future upgrade to the Hard Drive Pro Backup (our hard disk backup tool) will make special use of the floppy board, and squeeze even more data on each disk than standard formats allow. Its possible to actually store 1.6 maps of data on a 1.4 mag 3.5 drive on betting possible to actually store 1.6 megs of data on a 1.44 meg 3.5" drive, so backing up a full 20 meg hard disks might only take 14 disks! Usage of the Floppy Board's on-board processor will allow overlapping reading and writing, making the backup really fly.

Two versions are available: the basic unit, and the Deluxe version. The basic unit provides the interface necessary for low density drives (360k for 5.25" and 720K for 3.5"), and comes with the IBM/ST transfer utility. The Deluxe version adds the high density capability, adds Archiver compatibility, AND adds the features of the Black Box Enhancer, which include a high-resolution 16 grey scale printer screen dump, and a powerful built-in sector editor, disassembler, and copier (which accesses the full 16 megs possible of hard disk partitions, and uses all available extra memory). Note: the Floppy Board replaces the ROM on the Black Box, so current Black Box Enhancers cannot be used with the Floppy

The basic unit is only \$109.95, and the deluxe unit is only \$149.95. Add \$5 for shipping/handling.

• ULTRA SPEED SIO for most • DOUBLE DENSITY RAMDISK handlers

wonder how you ever got along without it! Use ANY DOS to place ULTRA HIGH SPEED formats on your disks (with XF551 or modified 1050 drives), reconfigure and boot any drive (1-9 or even

your RAMDISK!), sector copy single and double density disks to your RAMDISK, activate a built-

in 400/800 OS for compatibility, and much more! Below are a list of features. Only \$59.95 + \$5

. ENTIRE MEMORY TEST that pinpoints defective RAM chips

. Boot any drive (1-9) on cold start

- Supports ALL XE-compatible memory upgrades up to two megabytes
- THREE Operating Systems in one (XL/XE, 400/800, ULTRA SPEED PLUS)
- . COLD-START without memory loss
- Built-in mini sector copier
- . RAMDISK exactly duplicates floppy drive so sector copying and editing

#### \$199.95 THE BLACK BOX

odified drives

· ULTRA SPEED is toggleable

Special timer circuits not

required for 1 and 2 megs

• Reverse use of OPTION key

Built-in drive number editor (including RAMDISK drive)

· Toggle screen off for up to

40% increase in speed

• Toggle internal BASIC

· Background colors adjustable

. Boot directly from RAMDISK

\$199.95

The BLACK BOX is a parallel-port device for your XL or 130XE computer that adds tremendous power to your 8-bit Atari. It is a T-shaped board with two buttons, two switches, and a set of dip switches visible from the outside. The BLACK BOX performs three main tasks: interface to a SASI/SCSI bus (for interface to most common hard disks), a parallel printer port, and a RS232 (modem) port. You may partition your hard disk(s) into as many drives as you wish; up to 9 may be active at any given time. By pressing one of the buttons on the BLACK BOX, you will enter the configuration menu, where you can re-assign drive numbers, swap partitions in and out, etc. When you exit, you will be returned to your program – undisturbed! Each hard disk partition has its own write-protect flag, and may be set to single or double density. Every hard disk may be write-protected with the flip of a switch. As an option, you may use your computer's XE RAM as a printer buffer, or order the BLACK BOX with 64K of on-board RAM.Another amazing feature of the BLACK BOX is the built-in screen dump. By simply pressing a button, the contents of your screen will be dumped to your printer! (You can define text or graphics modes with a switch!) The RS232 port supplies the full spec signals for added compatibility. Its handler takes up no user memory, and can handle 19,200 BAUD! A machine language monitor has been added to allow memory disassembly, memory/register changes, and more. The basic BLACK BOX unit is \$199.95, and \$249.95 with 64K RAM (for printer spooler). S/H/I is \$8. An optional custom BLACK BOX case is available for \$39.95. The Black Box is a product of Computer Software Services... Not the Black Box Corporation.

## HARD DISK SYSTEMS

We offer complete, ready-to-run hard disk systems from 5 megs on up! These systems include a hard disk, Black Box, power supply, controller, cables, and software. Everything is pre formatted and tested, so all you have to do is plug it in and boot! Prices start as low as \$399. Call for the latest prices and specials!

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Colors	.47	.51	.54	.59	.64
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Black Colors	.25 .30	.28	.30 .38	.33	.36 .41	
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## PREMIUM COLOR CHART

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	DSDD	X	X	Χ	X		X	X	X	X	X	X	
5.25	DSHD	X	X	Χ	Χ		X	X	X	X	X	X	

	C	3.5" CASE	ES	5.25"	Cases	/ Mailers	
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