**SPACE Meeting**  Friday, May 13th at 7:30pm

**MAST Meeting**  Friday, May 20th at 7:30pm

At the Falcon Heights Community Center
2077 Larpenteur Avenue West

**MAST+ Programmers Meeting**
Monday, May 23rd at 7:30pm

At First Minnesota Bank Building - second floor
Lexington and Larpenteur, in back of building
DISCLAIMER

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SPACB/MAST East (XE) - BBS Phone: (612)-774-0135
Sysop: Bruce Haug (Home Phone: 774-6226)

SPACB/MAST West (ST) - BBS Phone: (612)-560-9254
Sysop: Steve Pauley (Home Phone: 560-2917)

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Ah BYTES from the SPACE PRES
by Larry Vanden Plas

Last weekend I saw the Atari 80 column box in action. This weekend Rick at User Friendly was kind enough to volunteer to demonstrate the 80 column box at the May SPACE meeting. My reactions were somewhat different than some of the reviews I have read. For example, I read the graphics were slow. However it seemed to write them quickly to the screen. The "box" plugs into either joy stick port and the cable coming out of it plugs into the composite receptacle on the monitor. Might this mean we will buy low cost monochrome monitors and add them to the color monitors many of us have? Come to the meeting and tell me what you think.

It seems that the trio of new hardware we have been waiting for has arrived in town and has been bought. The double-sided, triple-speed disk drive sold out in one day, but it was here. The 1200 baud modem is available and so is the 80 column box mentioned above. Supplies are limited and not all the pieces are in place. ADOS is still not available so it is hard to use the double-sided drive as intended. The Express terminal program for the Atari SX212 1200 baud modem is not ready yet. However I understand our sister SPACE (Seattle-Puget Sound Atari Computer Enthusiasts) has modified 850 Express to use with the SX212 without an extra interface. The software for the 80 column box, like AtariWriter 80, is still not here. However the box provides a parallel port which can be used now. If you were going to buy an interface for the printer port you might consider the "box." By the way, the 80 column box is in the very same "box" as the SX212.

Recently I picked up a copy of the April Computer Shopper. There were three articles on 8-bit Atari computers. One called "Applying the Atari" talked about the success of the XE Game System, the ICX keypad (works with any software), a memory upgrade for the XE Game System, Easy Scan (digitally scans an image using the printer) and RAMcharger (the CP/M emulator for the 8-bit and Indus drive). Another article covered Do It Yourself Keyboard Repair for the different Atari computer in a detailed, step by step manner. It was mentioned they planned to present short self help repairs for Modems, Disk Drives and Printers in the future. The third article dealt with news about the 8-bit. More on this at the meeting.

Joe Danko has been giving us such good software on the Disk of the Month that we have not had time to do it justice. Take a look back. I have found the EZREAD program to be worth the price of the disk.

We are very interested in reviews of items (software, hardware, etc.) for the 8-bit. Please share a little of what you may have recently learned. Please talk to us at the meeting if you would like to share.

The upper Midwest's Largest Electronics & Computer Swap and Show will be held at the Minnesota State Fair Grandstand on Friday, June 3rd, 6 to 10 PM and Saturday, June 4th, 6 AM to 4 PM. More info at the meeting.

After Last Night (from the VP)
by John Novotny

"Last Night" is almost three weeks behind, so its about time for some more 8-bit words. So what's happening (glad you asked). First, I have to tell you about my experiences of getting acquainted with M.U.L.E., a classic game of investing and reaping, made especially for the 800 computer. This is one of the few games which uses all four game ports, but I was assured that it also runs on an 800XL (is it true that the two 800XL game ports control STICKs 0 and 2, 1 and 3 respectively?). Well, it was disappointing that the
versions of M.U.L.E. I bought did not run on my 800XL. It seems that at least two versions of the program were released, both dated 1983. The version I have requests that the cartridge at address $C000 be removed at boot time. This message is bypassed with the use of a Translator (the ATARI version from the SPACE library seems to get the furthest), but the program stalls shortly into the setup. My question is this - can this be fixed (like by re-writing a patched sector ?) - else it will be for sale at the May meeting. But before we get to show it off. At the meeting, there will be both ATARI 800 computer, sufficient numbers of joystick, plus space some M.U.L.E. addicts to show off these oldies. So join the fun, and the game if you can wrestle the stick from one of these old-timers.

Second, the theme for this meeting was to have been "advanced applications", and one of the ATARI biggies we wanted to present was the MIO device from ICD. We thought we were going to get at least one fish to talk about and possibly bring one, but there seems to be other on people's minds in mid-May in Minnesota. As many of you know, the MIO is an 850 interface unit plus memory expansion, utilized well by SPARTA DOS. Our BBS uses an MIO, and was run almost exclusively on it until quite recently. We are still interested in hearing more about this unit first-hand from users, and will reschedule this for a later meeting unless one or more of you can help us out this month.

One more thing we need someone to look at. On last month's MDOM, Joe included a fancy utility type MENU program that is supposed to load just about any type of program (BASIC SAVE or LIST format, and binary format). Well, I ran it after booting using a different disk, and didn't get the expected results. It seems that the variable which is supposed to get setup with the selected file name doesn't get setup properly. I have not been able to find the time to track this down. If someone else experienced this and has a fix, please share it with others who may like it. Till the meeting then, remember what Smokey says - you can throw burning horse in the water, but you can't put out the spark in the eye of a M.U.L.E. addict.

News from the land of

**ATARI 8 bit public domain software:**

by Joe Danko and Greg Peasley

SPACE Disk of the Month, May 1988

**SIDE A:**

RAMDSKM.COM 007 - DOS 2.5
Ramdisk initializer modified by John Novotny to check for a previously loaded ramdisk 'D:8' and then leave it alone, otherwise format and load normally. The DOS.SYS must also be modified to load the renamed file, 'RAMDSKM.COM'. One way is to use a text editor such as TEXTPRO and load DUP.SYS and then search and replace RAMDISK.COM with RAMDSKM. COM.

CHEMDRIL.BAS 038 - A computerized chemistry quiz in ATARI BASIC.

CHOP21.BAS 025 - Breaks up large text files into smaller ones. This one works with double-density ATARI BASIC.

MILBORN.BAS 082 - The classic card/driving game, MILE BORNE.

**ATARI BASIC**

NEON.BAS 038 - Simple but interesting graphics demo. ATARI BASIC

OCTDRAW.BAS 017 - Graphics multiple drawing demo. ATARI BASIC

QUADRAW.BAS 013 - Another graphics multiple drawing demo. ATARI BASIC

SGTPEPPR.BAS 053 - Sargent Pepper's Lonely Hearts Club Band. Music in BASIC.

SKYDIVER.BAS 042 - Jump out of the aircraft with the joystick trigger, open your parachute by pulling back on joystick and then steer to the landing pad with the joystick left/Right. Machine Language.

TBASTIME.BAS 099 - A fix for TURBOBASIC. See TBASTIME.DOC.

WATFALL.BAS 032 - Graphics in ATARI BASIC.

**SIDE B:**

MACH SYS 106 - Public domain DOS called MACHDOS. Mostly compatible with DOS 2.0, it has additional capabilities such as double density and built-in ramdisk handlers for 130XE, AXLON and 800+. It also can be configured to be resident in memory.

MCHCON SCR 049 - MACHDOS configuration routine.

MCHPRT SCR 076 - MACHDOS intelligent printing routine.

MACH37 DOC 147 - MACHDOS documentation.

AUTORUN SYS 288 - Digitized sound demo of 'DON'T CRY' by ASIA. Boot with no BASIC.

DAIY-DOT/DOT-MAGIC/FONT CONVERTER - The featured application this month is a little specialized but very effective. It can only be used by those who have an 800XL, 1200XL or 130XE and an EPSON or STAR-MICRONICS dot-matrix printer. Other EPSON compatible printers may also work. The package offered by the SPACE library consist of two double-sided disks with three main applications and a large collection of character fonts.

DAIY-DOT: A custom text printer that allows the selection of a customized font to print text. It includes a character font editing program. Text is printed using dot graphics.

DOT-MAGIC: An enhancement of Daisy-Dot that prints text in the same way but is much more powerful. It has a command set that allows a different font on each line, allows insertion of MICROPAINTER/MICROILLUSTRATOR pictures with text. There are also centering, underlining and bold commands available. Dot-Magic can also print labels, picture files and operate with your printer as a typewriter simulator.

FONT CONVERTER: A BASIC program that processes any ATARI internal character font file into a Daisy-Dot/Dot-Magic font file in one of four sizes.00 included on the Font-Converter disk are a large number of DD/DM fonts. Also included are a number of ATARI fonts that may be processed into the various DD/DM sizes.

Daisy-Dot and Dot-Magic are both in the form of compiled TURBOBASIC, hence the need for a 64K machine. Font-Converter is ATARI BASIC but will run with the TURBOBASIC interpreter. In fact, with TURBOBASIC it runs about twice as fast. I compiled it and it ran twice as fast again but errored.

All three applications will boot by just turning on the power with OPTION depressed.

ANALOG MAGAZINE has come through again and we will have the May ANALOG DOM #60 available for sale to registered Analog subscribers along with older Analog disks available for anyone.

**MOONBEAM.COM 049** - Sort of a lunar shooting gallery. Use a joystick. Machine Language.

NITEMARE.COM 016 - Use a joystick, I'm not sure exactly how it's supposed to work. Good luck! Machine Language.


ROUNDUP.COM 022 - Cattle roping with a joystick. Machine Language.

PAGE1.DOC 015
PAGE2.DOC 015
PAGE3.DOC 012
PAGE4.DOC 012
PAGE5.DOC 009
PAGE6.DOC 006 - A six page advertisement.

TBASTIME.DOC 011 - The DOC file for the TURBOBASIC fix.

VIRUSUPD.DOC 012 - An interesting article about the spread of a software 'Virus'.

MOONBEAM.COM 049 - Sort of a lunar shooting gallery. Use a joystick. Machine Language.

NITEMARE.COM 016 - Use a joystick, I'm not sure exactly how it's supposed to work. Good luck! Machine Language.


ROUNDUP.COM 022 - Cattle roping with a joystick. Machine Language.
8 Bit
Q & A
by Larry Vanden Plas
Q. How can I tell which version of Atari Basic I have?
A. Insert the Atari BASIC cartridge into the computer or in the case of a XL/XE computer don't hold the option key down when you turn on the computer. Turn on the computer with the disk drive off. After the "READY" prompt comes up, type "PRINT PEEK(43234)". If the computer prints "162" you have version A, if "96" version B and if "234" version C.
Q. What is the problem with the Atari XM301 modem?
A. Four of the wires inside the modem case are not used and may have exposed wires which can come into contact with the printed circuit board inside of the modem. This could damage the modem, computer and/or something in between. In some cases the wires are sticking out beyond the insulation or are flush with the end of the insulation. This can be cured by taping the ends with electrical tape or covering them with shrink tubing, a ball of plastic cement or sealing adhesive. Some people have reported an incompatibility between the XM301 and the Indus GT disk drives. I had an Indus, that was used with the XM301, become intermittent and stop working.
Q. What is the address for the manufacturers of Indus GT disk drives?
A. The Indus disk drives are manufactured by: Future Systems, Inc.; 21634 Lassen; Chatsworth, CA 91311.

SPACE April Meeting Minutes
by Ernie Costello
1. The meeting was called to order April 8, 1988 at 7:30 PM by President Larry Vanden Plas.
Atari. We had another good meeting last month with lots of news and rumors and demos as well. I would like to thank Dave Meile for filling in for the bowling Phil Siefert. But it just wasn't the same last month without our resident court jester in the month of fools. But he has guaranteed me that he will be here this month!!! With bells on???? Oh, well, we will see....

Let's see..... What do we have planned for the months ahead?????? For June, we will have our second MidiMaze tournament. If you missed the last one, this is a must see meeting. This is something else, especially when you see Phil and Todd shoot it out with Steve leading out for the quick kill.... For July, we have a member appreciation night planned. No details on this yet, but they will be coming soon. For August, we will have a gamenight where you bring your computer and your favorite game along to the meeting and show it off to the members and see what other games are available as well. There might also be a Phil vs. Steve tournament as well. Let's see..... We'll have lots and lots of DOMs, all sorts of news and rumors, and demos as well. Demos, this month, will include Word Up (the new GSOS compatible word processor), Turbo ST (the software glitter for the ST), Rockford (in the Boulderdash game series), Missile Command (new Atari classic for the ST), and possibly Fontz (a new font converter/font editor) and Neodesk (a desktop replacement program). Sounds like lots of good stuff coming out again. Also, as an experiment, we will be offering five MAST DOMs for the price of four. Yes, if you buy four MAST DOMs, you get the fifth one free. This is a great offer to get the latest month's disks at a great price or to fill in the gaps in your collection. Like I said, a lot is planned for the month ahead.... Oh, I almost forgot, as well as all of this, Todd will be showing off the MAST BBS as well and giving you a chance to ask questions and sign up at meeting to get online. If you have always wondered what the BBS has looked like and never had a chance, stop by and see what you are missing. Like I said, a lot is in store for this month.

Also on the Monday following the MAST meeting, we will have the monthly MAST+ programmers meeting. This month, we will demo and show you how to get set up as a UCPC node and enter the special STDNET network as well. If this sounds confusing, it is...... But this will allow you to exchange messages with other MAST members and gain access to USENET, a UNIX mail/BBS service, as well. I have seen the software by MAST's Dale Schumacher in action and it looks super. If you have been wondering what strange talk on the BBS is about, come see and sign up as well. This should prove to be a very interesting meeting. As always, MAST+ meets at the First Minnesota building at Lexington and Larpenteur at 7:30pm on the Monday following the MAST meeting. I hope to see you all there!!!!!

Disk sales..... I have again found a very good supplier of 3.5" double-sided disks. I currently have 100 in stock and plan on getting more before the meeting. My old dealers is up to a 8 to 12 weeks delay so I had to go elsewhere. There is only one drawback... These disks will cost a nickel more each. So double-sided disks will now sell for $1.15 each. If I find a cheaper price in the future, the price will again drop. Disks are still real tight in the bulk/cheap disk market. In addition to the double-sided disks, I have also found a good source for 3.5" over-the-top disk labels. I got a good price, but I had to buy 1000 to get them. MAST was selling the labels at $2.00 per 100, which is dirt cheap considering the going price is five cents a label. They will only be sold in groups of 100. If you want these labels, leave me a message on the MAST BBS or give me a call. I will bring some to the meeting, but I am not too interested in hauling a lot of labels, just so no one buys them. Also, I will have some samples at the meeting as well and I will be putting together a disk of public domain label programs as well to use with these labels at a special price. So if you have been looking for labels, your search is over!!!!!! One more note, our official disk tester Chuck Purcell will give these new disks the once over for formatting them and give his opinion on these new disks at the next meeting. Also, as always, the standard disk labels will be available free for the taking as well. No need to buy disks to get these.

Newsletter..... We should have another good round of articles again this month. A new column starting this month by Dave Meile is a look at public domain software and how it can be used. There is so much good stuff out there that Dave will review a program or two each month and tell you what he thinks. This month, he looks at Todd Burkey's Diskscan program. Also by Dave this month, there is an article on the BBS. This should prove to be a very interesting meeting. As always, MAST+ meets at the First Minnesota building at Lexington and Larpenteur at 7:30pm on the Monday following the MAST meeting. I hope to see you all there!!!!!

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HAMFEST... We will be participating in this year's HAMFEST at the Minnesota State Fair grounds on the first weekend in June. I hope that we will have the necessary information by the meeting. The HAMFEST is the biggest personal computer fair of the year in town and we hope to pick some new ST owners as well. Since the show runs both Saturday and Sunday, we will need volunteers to man the booth and show off the wonders of the ST. We will be taking names at the meeting and giving out more detailed information as well. MAST again continues to spread......

Memberships... Membership in MAST just continues to grow which shows that MAST is a thriving user group. If you have a problem with your newsletter, need your address changed or need a membership card, see Allan or me at the next meeting and we will take care of you. In the months to come, we will be soliciting membership from the MAST BBS rolls and with the help of a new volunteering John Pritchard. We have over 500 ST owners on the MAST BBS so we have a lot of potential for future members. Thanks John for your help.

Miscellaneous stuff...... First, check out the latest on the Current Notes group buy and the ST Advantage group buy in the magazine update column this month. Second, Dave Meile has finished another MAST Newsdisk and we will have it at the next meeting. A great deal for only $2.00. Expect to hear more at the next MAST meeting. Third, I am still taking orders for the Universal Item Selector. For $10.50, it is a great deal. For those still waiting, I am working on it and I will be making some calls. You will have your disks at the next MAST meeting. Also, we should have news as well about a new group buy for a new desktop alternative called Necodesk. I am looking into their user group offer and will have more at the next meeting. Finally, last month at the meeting, I showed a new ST helpful tips book called "Helpful Hints for the Atari ST or Mega User". Here is the ordering information. Send $14.95 plus $2.00 for shipping to Bill Skurski Enterprises/10393 Almayo Avenue/Los Angeles, CA 90064. Lots of good news.....

Well, that's a wrap for May... Lots of new stuff and more to come as well. Let's see what the envelope has to say this month..... First, a couple of games...... I have been playing a lot of Rockford, the new Boulderdash sequel, and Blockbuster, a new Breakout-like variation, and Impossible Mission II, an action-adventure game where you try and solve the mystery. For other programs, Turbo ST has been speeding up my text as I type and Tempest has been speeding up my development as well. These are just a few of the goodies this month. I am also looking forward to Shadow, the background downloading utility for FLASH coming soon as well. Well, the envelope is closing so I had better get out.... I hope to see you all at the May MAST meeting and the May MAST meetings as well as on the MAST BBS. Happy computing!!!

April MAST Meeting Minutes
by Dan Stubb

The April MAST meeting was opened by President Jim Schulz. Dave Meile filled in for Vice President Phil Seifert. After announcements about the ribbon re-inking service available to MAST members (bring your old ribbons to the meeting and leave them for re-inking, the cost is $1.00), Jim explained that the anticipated 3.5" disk shortage had appeared and the club is back-ordered on double sided blank disks. Next, Jim reviewed the contents of the seven April DOM's, see Jim's article for a complete description. The MAST book and magazine library is growing, Neal will post a list of library books on the BBS. Please let him know in advance of a meeting if there is something that you want to borrow; the library is getting awkward to haul to each MAST meeting. The Treasurer's report was $763.52 in the bank account. Four new MAST members were signed up during the past month. Demo's included 'Universal Military Simulator', Microsoft Write, Publisher ST, and Block Buster. A special subscription offer of $17 per year to 'Current Notes' will be available to MAST members if at least 6 people sign up, talk to Jim Schulz.

In the News and Rumors segment of the meeting Chuck Purcell described the CEBIT show in Hannover, Germany with 10,000 different computers in 17 different buildings. Chuck reported that the ATARI booth was very crowded but not much new was being shown. Dave Meile reported on a new word processor 'Word Up' that uses GDOS and costs about $80. Dave also reported on disk viruses that have been talked about recently (a program on one of this month's DOM's can detect and remove a virus in the boot sector of the disk). Jim reported that a new desk top alternative to the GEM desktop called 'Neo Desk' is coming out May 1st. It was reported that COMPUTE ST will be gone after a last issue in July and that STLOG may be gone after two more issues. ATARI Corp. was reported to be number 484 in the Fortune 500.

At the Programmer's Meeting on Monday night following the MAST Meeting, Chuck Purcell demonstrated some of his recent work and Todd Burkey showed HDSCAN and an editor called 'Tempus'. Following these Dave Meile opened discussion on the formation of an independent Atari developers' group to answer questions, propose standards and to provide examples of programming code that addresses particular problems. People interested in participating in such a group should contact Dave.

Children Will Play
By Phil Seifert

Well, well, well. I am back again. My apologies to anyone who was expecting a column from me last month, but I was called out of town the same day I was planning on writing and uploading my article to the MAST BBS. However, I was not as lucky to be called out of town this month, so here I sit in front of my Atari ST using a public domain word processor, writing to you this month. Maybe what I should write about this month is what is public domain, shareware, and commercial software? All I know is when I talked to the editor this month, he said he could use more mindless drivel for the newsletter. It sounded like a challenge to me!

There have been many arguments in the past, not necessarily within our user group, about what is public domain, what is shareware, and what is commercial software. Also, which should be made available through the club libraries. Sometimes there seems to be fundamental lack of knowledge about what is legal to pass around and what is illegal. Public domain software and shareware software are legal. Obviously commercial software is not legal to give to your friends. So, I will attempt to explain the differences between each category.

Public domain means exactly what the name implies. The author of the program has released any DISTRIBUTION rights he/she may have. Sometimes the author might also release the source code to the program. However, just because a program has been released to the public domain, it does not follow that the software is not copyrighted. Many authors choose to copyright their work. If this is the case, the program (and source code if included) can not be used in whole or part of someone else's program without permission of the programmer. So, anyone who contemplates just borrowing a piece of code from a public domain piece of software, should receive permission...
from the original author to use his/her coding. Don’t worry too much about this, as many authors also let others do this to help further programmer advances.

Shareware has one similarity to public domain software. It came about many years ago (about 5 or 6 which is a long time for computers) when some programmers for the IBM PC computer had some nice software they had developed. I think the first case of shareware was PC Write. Here was a nice little word processor that someone had spent much time writing and doing. A program. But then he felt it was good enough to distribute, there was no commercial market for it. The PC world of word processors was already locked up by other programs such as WordStar. So, this individual came up with a plan, just let anyone who wants to have the program, have it. It was his hope that if they liked the program and would like real technical support, updates, and printed manual that they would send him some money to reimburse his costs for development. Thus, shareware as it is understood today was born. A program you might have spent time creating but might not have a real feasible commercial market could be distributed to anyone who might want it. This is the only manner in which shareware is similar to public domain. The author has retained all of his/her rights to the program other than distribution rights. Usually you can tell if software is shareware by a statement somewhere on the program, or documentation that this is the case. Sometimes, as in the case of Analogue, a publication will release the software to the public domain after the sale of the issue containing the program is over. Other times, as in Antic, they maintain strict distribution rights, period. So if you run into a neat piece of software from a magazine and want to share it with your friends, check carefully if the magazine or the author allows you to do so.

So what does all this mean to you, the club member? Probably nothing, other than enhancing your understanding of what is public domain, shareware, and commercial software. It also means that I succeeded in getting more drive printed in the newsletter. Next month, I’m going to talk about a big game that some really big people are playing. And everyone is involved in one way or another. See everyone at the meeting!

MAST Disks of the Month
By Jim Schulz

Time for more MAST DOMs. Lots of new stuff as well as some old, but as always the best in the public domain. So let’s check out last month’s selection first.

#78 - Uniterm V2.0c 008 (Latest version of Uniterm with more macros)
#235 - Sheet VI.41 (Public Domain Spreadsheet program with desk acc.)
#239 - April DOM #1 (Utilities)
#240 - April DOM #2 (Applications)
#241 - April DOM #3 (Games)
#242 - April DOM #4 (More Games, and GFA programs)
#243 - April DOM #5 (Demos and music programs)

Well, that’s what last month looked like. This is not as much as I had hoped, but it’s still a good selection. Boy, do we have disks for May now!!! Let’s first look at some DOM news and then on to this month’s selection of goodies.

Disk problems.... I again have some problems with disks again last month. I am spending a great amount of time this month trying to nail down the problem. I thank you for your patience. If you got a bad disk, please bring it to the next meeting.

Prices.... All MAST DOMs are $6.00 each. In addition, the MAST news disk, the ST News disk and the doc disk are $2.00. Updates on old disks are $2.00 with the return of the original disk. Except for this month, we are also running a special. If you buy 4 MAST DOMs, you get the fifth one free. What a deal!!! Five disks for less than $5.00 each. If you have been looking for some old disks, now is the time to fill them in!!!

Doc disks.... Yes, I missed it again last month, but will it return this month with Todd Burke’s great new DISKSCAN program. Check it out. For the $2.00 price, it can’t be beat. Yes, I know!!! Dave Meile will be reviewing this program elsewhere so see what Dave thinks and scan for those old DOMs.

STNews.... Yes, they also got lost last month. But they will appear this month and from what I’ve seen they are some of the best DOMs around. I am spending a lot of my free time getting these ready for this month. We currently have 15 disks so expect a goodly number this month. For the $2.00 member price, this is a steal. Dave Meile will demo one of these disks at the next meeting.

Well, that’s the news and now on to the public domain software....

ANALOG - Last month, we had had no ANALOG disks, but I should have at least four this month including the infamous Floyd the Droid. So if you are looking for Floyd, then this is the month.

Sheet V1.41 - Yes, the ST public domain spreadsheet program just keeps getting better. This month, he has redone the documentation and included tutorials and hints as well. This update is available for $2.00 and your original disk.

Uniterm - Yes, one more update. Uniterm keeping getting bigger. This month, I will introduce a Uniterm support disk with sample macros, utilities and more to be used with Uniterm. Once you buy the update disk, both disks can be updated for $2.00 with replacement disks. Yes, this version includes more bug fixes and removes the problem with XMODEM file transfers.

Shanghai - Game and demo time again. This is a playable demo of the game Shanghai from Activision. If you like solitaire games, you will like this program. The game itself is a little old, but the program is still one of the best around.

DeskPac Plus - This is a multi-feature desk accessory with a phonebook, appointment book, scientific calculator, notepad, file delete and copy, and a freearn indicator. All this plus the source code as well. This program was sold for the last six months and now the author has made everything shareware. Everything works and nothing is left out. This is really something special. This got bumped last
month for sheer size. The program will be available on one disk with documents and two disks of source code will also be available as well. Very nicely done.

Games... This month, we have some good ones including Pengo, the Atari arcade game. For Corewars, the computer vs. computer game, and finally Cribbage for both color and monochrome.

Jill Cad - Have you ever wanted a full CAD package for a cheap price? Well, this is it. This program, originally to be released through Migraph, is a full-featured CAD program. This is shareware and a smaller version of a larger package. This program requires a monochrome monitor and a double-sided drive, but is well worth it. I saw it a couple of months ago and couldn't believe that it was shareware!!!

ST Applications - As an incentive to try out the magazine, ST Applications has placed the whole February issue on disk. Articles and programs as well. Check this out and see if you like the magazine. For this special disk, we have a special price of $3.00 as well. Check it out and check out the special disk discount in this month's Magazine Update.

Arcshell and PKunARC - Yes, we now have another version of the Arcshell, now we have disk operations added as well as a user-friendly interface. Also, we have a new very small utility which will unARC files compressed with PKARC as well as the normal ARC. All sorts of good stuff.

Mark Johnson C - Yes, another update for this month... This is the new and improved version of the public domain C compiler from Mark Johnson. Initial reaction has been quite good to this program. He has added more so it might be two single disks instead of one. If so, you can upgrade for $5.00 for both. What a deal on the best public domain C compiler around....

What else... Well, how about a new spell checker, a two column printing program, a flip animation program for Degas pictures, a do-all disk utilities desk accessory, a mouse-driven football game, a new update to the Statistically Accurate Baseball game... How is that for starters????

Well, that's a sample of what we have for this month with more coming every day. I have so much good stuff this month that I had better stop before I fill up the whole newsletter. Check out the MAST BBS the week of the meeting of the latest update on this month's DOMs. As always, I do my best to put out as much good stuff as possible given the time that I have available. Last month, I ran into a number of problems with work and taxes so a number of disks were dropped at the last minute. But I will keep trying!! As always, expect the best from the MAST DOM.

If you can't make the meeting and would still like to get ahold of the DOM or would like to get ahold of the DOC disk, my address is: 3264 Welcome Avenue North Crystal, MN 55422

That's it for May. It's time for more work!!! Yet another great month of disks is expected in May and make sure to take advantage of this month's special as well. All sorts of good stuff is coming soon.... I hope to see you all at this month's MAST meetings and on the MAST BBS.

Magazine Update
By Jim Schulz

Here we go again with another round of the monthly magazine update and news, rumors and comments about the world of Atari magazines.... So let's start with this month's list of magazines:

<table>
<thead>
<tr>
<th>Magazine</th>
<th>Issue Date</th>
<th>Date Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANALOG</td>
<td>May 1988</td>
<td>April 11th</td>
</tr>
<tr>
<td>ANTIC</td>
<td>June 1988</td>
<td>April 21st</td>
</tr>
<tr>
<td>Atari Explorer</td>
<td>June/July 1988</td>
<td>April 30th</td>
</tr>
<tr>
<td>Compute!</td>
<td>June 1988</td>
<td>April 30th</td>
</tr>
<tr>
<td>Computel ST</td>
<td>June/July 1988</td>
<td>April 26th</td>
</tr>
</tbody>
</table>

Please note: Some of the issues have jumped two months since last month's list. Last month's newsletter deadline was early, while this month's deadline is a little later. This explains the skipped issues for Computel, ST Applications, and ST Informer. I hope this explains any differences.

Now, on to this month's magazine news.... First, some old news... We did receive the required number of subscriptions to Current Notes for the special deal. The checks are now in the mail and I hope to have news of the first issues in the new subscriptions and more info on new and renewal subscriptions at the cheaper rate at the May SPACE and MAST meetings. Thank you to all who helped. Second, ST Applications.... Last month, with the Current Notes deal, we didn't have time to talk about ST Applications. This month, we will be taking subscriptions for this. Each subscription is $30.00 instead of the normal $32.50 and checks should be written to ST Applications. To get this deal, we need 5 ST owners to subscribe. Also check out the ST Applications disk this month to get an idea of what you are missing.

New news for this month.... First, speaking of ST Applications, those of you who have been asking for more business applications information for your ST, check out ST Applications. ST Applications now includes ST Business. ST Business is a former ST magazine which never seemed to make it on its own. Now it is included in the center of each issue of ST Applications and the quality is quite good. So if you want more meat to your business reading, check out ST Applications. Second, It's time to mourn the loss of one and possibly two ST magazines.

Computer! ST will cease to exist after the current issue. Reason: not enough subscribers and not enough advertising. It seems that they started the magazine based on inflated figures by Atari of machines sold and the magazine never lived up to their expectations. Expect to hear the official announcement soon. The second magazine going looks like it will be ST-Log. Inside rumors say that it only has a couple of months and it will disappear. With its disappearance, ANALOG will again contain coverage of both the ST and 8 bit with the magazine moving more towards an ST magazine over time. Reason: not enough advertisers to support the 8 bit and excellent name recognition of ANALOG in the market. Third, with two magazines going, how about a new magazine? Well, a new ST magazine has surfaced from Canada called Reset. This new magazine is a bimonthly magazine and is geared more toward the user than the other ST magazines. Articles in the February/March issue include PC-Ditto and how to set it up, connecting a 5.25" disk drive, null modem cables and how to make them, how to draw using Degas Elite, and many other articles. The magazine has moved more towards an ST magazine which would seem to make sense, especially considering Atari's shift to ST machines. Fourth, ANALOG/ST-Log. After the first issue came out last month, I thought that ANALOG had again returned to its old ways. Well, I guess that was wrong. The last issue was actually the worst that I have seen and the ads were minimal. Their ST-Log issue spotlighted Adventure Games and could have been prepared months ago for the currentness of the news and reviews. ANALOG wasn't much better, but it did include an interesting program or two. I am not alone in displeasure. Other Atari owners are questioning ANALOGs
chance of surviving as well. Don’t throw in
this month, but Compute! is almost use¬
columns and reviews format and have
pute! chucked their news, programs,
now gone to a generic personal computer
change back to their old format. Person¬
number of BBSs to get Compute! to
and includes little of interest to me and no
8 bit information at all. I will post the letter
writers are leaving the magazine. Expect
is up. Compute!, itself, is also having
ing my subscription to Compute! when it
ally in the months to come.
Compute! to be the next magazine casu¬
ful??? Please let me know what you think
heard no comments for or con this col¬
check back here next month for more

An Independent
Atari Developers
Group - a proposal
written by David Mene
Recent messages passing back and
forth via USENET in comp.sys.atari.st have dealt with the poor response from
Atari in getting information to developers, the
lack of some "standard" ways of doing
things, and the need not to "re-invent the
wheel" every time a new programmer sits
down at the keyboard and begins to type.
At the March meeting of the MAST Pro¬
grammers SIG, I proposed that we de¬
velopers group with the the above in
mind. We've barely managed to scratch
the surface of possibilities. The first thing
I'd like to point out that a Developers Group need not be dependent on the C
programming language. I myself prefer
Personal Pascal (and have written several
tutorial articles on that language). There
are probably more people programming in GFA BASIC than in C or Pascal.
Many interesting new programs and software
products can come from any number of
languages. Basically, here is what I envi¬
ron a Developers Group might have for
gals:

1. Providing information on hard¬
ware and software for the Atari ST. This
might be as simple as providing a list of
books with adequate documentation of
the ST, or as complicated as producing a
"definitive" manual for the ST.
2. Providing a forum for questions and answers with regard to
programming problems. Looking over
the past year or two of comp.sys.atari.st, I
am amazed at some of the little "gems"
of information that are not more widely
known.
3. Providing examples of "tech¬
nique" used to get a job done. Some
people have mentioned that they get
more information from a snippet of code
that does a job than from a long article
which describes "how to do it.
4. Providing information and outlin¬
going some general "standards" Perhaps
the shakiest part of the proposal — but
there can be standard ways of setting up
an RS232 buffer, writing programs for
multi-tasking kernels such as RTX, etc.
5. —fill in blank— This is only the
beginning of the dialogue regarding an
Independent Atari Developers Group. I
would encourage those of you who are
interested in this to contact me via the
MAST BBS (612) 560-9254 or via US Mail
(Dave Mene, Box 13038, Minneapolis,
MN 55414) or to come to the next Pro-
grammers SIG meeting (date should be
listed in this newsletter). Let us know what
you think, what you'd like to see, whether
you'd support such a group, etc. I think
the time has come. Join in the dialogue.

Chuck's Notes
Part 2:
The First part of this article by Chuck
Purcell was printed in the March 88 news-
letter.
On the Initial usage of Mousemacs.tp:
EMACS.TTP Da/JLS Mouse buttons
now do mark/cut/paste functions
Typical messages:
Not enough memory. Try a smaller region.
Use Help key for on-line Help.
Then: —{ Main Help Menu }—
D. Disk Files
S. Searching
B. Buffers
C. Cursor Control
W. Window Control
I. Insert and Delete
M. Mouse Control
P. Paste Buffer
O. Other Stuff
F. Function Keys
T. Transposition Control Characters
Q. Quitting microEMACS/Text Formatting
A. Alternate character set etc.
— among other things
— [ M 1 ] =< { Mouse Control } >=
The mouse can be used in place of the
cursor keys for cursor motion.
[ESC][^[ESC][X] Set horizontal
scale for mouse motion to #
[ESC][^[ESC][Y] Set vertical scale for
mouse motion to #
[ESC][M]
Toggle mouse-button mode (mark-del-
paste / do-bound-functions)
The mouse buttons have two very(!) dis-
tinctly different
command sets depending on the mouse-
button mode:
MARK-DELETE-PASTE MODE: For rapid
moving/editing of text. (default mode)
[Left-Button] Set Mark
[Right-Button] (after setting a Mark)
Delete region (copy if non-editable)
(after delete-region) Paste (until
another mark is set)
BOUND-FUNCTION MODE: Only single
commands can be bound to the mouse
buttons, but you can bind [F1] to a button
and then record/replay a series of keys
using the macro functions. See [O] or [F]
for info on macros.
[SHIFT-Left-Button] <command>
 Bind <command> to left mouse button
[SHIFT-RightButton] <command>
 Bind <command> to right mouse button
[Left-Button] Execute left button
command
[RightButton] Execute right button
command --[F]-- <{Function Keys}>
with [Shift] [Control], or [Alt]
I Execute macro ..............I Start/End macro de-
finite
I Set mark ..................I Swap cursor and mark
I Switch buffer ..........I Visit a file
I Read a file ............I Write buffer to a file
I Delete to end of line, I Delete ("wipe" region)
I Paste ("yank") ............I Copy region
I Search backward ....I Find matching left ([, ]
I Search forward ......I Find matching right ),
I Page Up ..............I Page Up in other win-
dow
I Page Down ..............I Page Down in other
window

A Enter internal command shell Help
from file ushell063.arc eventually!
uShell v0.63 — Commands — Shell v 0.63 by
Dale Schumacher
<drive> ....................Change active drive
cat <file> ..............Display a file to the
console (type)
cd <drive>-<subdir> Change active
directory (cddir)
cp <source> <dest> Copy a single
file (copy)
ex .......................Exit from the shell (exit)
ls [<wildcard>] .............List directory (dir)
rm <subdir> ..............Create a directory
(name) (mkdir)
mv <oldname> <newname> Change a file
name (ren)
rd <subdir> ..............Delete a directory
(mkdir)
rn [<wildcard>] .............Delete file(s) (del)
set [name]=<value> Set environment vari-
able (setenv)
space .....................Show free memory/
disk space (free)
**SPACE/MAST NEWSLETTER**

**RIBBON RE-INKING**
Jim Scheib - 721-4185
The club can re-ink most printer ribbons (black) for a small fee. There is no longer a reason to use a faded ribbon! Ribbons that can be re-inked are: $1.00/ribbon - Spool to spool (all types) - Epson MX-80 and compatibles - Epson LX-80 and compatibles - C. Itoh Prowriter and compatibles (NEC 8023A/C) - Citizen 120 D - Panasonic - small ones that turn counterclockwise: $2.00/ribbon - Epson MX-100 and compatibles. Other ribbons can be attempted, too. But if you prefer, you can buy an adapter ($8.50 + $3.50 shipping and handling) for the club and receive half that amount in credit towards re-inkings. See Jim Scheib at the SPACE meeting, or Jim Schulz at the MAST meeting. Please pay in advance and be sure to have your ribbon(s) in a plastic bag.

**Wizard's Work**
Atari
your home computer center
Four Seasons Mall
Cty. Rd. 18 & Cty. Rd. 9
Plymouth, MN
559-4690
For all your ATARI needs

**ST. PAUL ATARI COMPUTER ENTHUSIASTS & MINNESOTA ATARI ST**

SPACE and MAST are independent user groups of owners of ATARI Home Computers. It has been organized by local owners of ATARI computers for the purpose of mutual self assistance and sharing of information. It is open to all interested computer enthusiasts.

Benefits of memberships in the groups include monthly newsletter mailed to your home, BBS access, software demonstrations, group purchases, public domain disk(s) of the month software at low prices, reference book library, educational software library (8-bit only) with over 20 titles, personal contacts/learning, greater information and awareness on the world of ATARI, software at discounted prices from dealers, question and answer session, etc. Come to a meeting to find out more.

**SPACE - 8Bit Group** The SPACE meetings are devoted primarily to the 8-bit ATARI computers such as the 400, 800, 600XL, 800XL, 65XE and 130XE. There is other ATARI related news and some 16-bit news at the SPACE meetings, as well. The SPACE group meets on the second Friday of each month at the Falcon Heights Community Center, 2077 West Larpenteur Avenue, at 7:30pm. Doors open at about 7:10pm.

**MAST - ST Group** The MAST meetings are devoted primarily towards the ATARI 520ST, 1040ST & MEGA computers. There will be ATARI related news items covered, but not 8-bit news. The MAST group meets on the third Friday of each month at the Falcon Heights Community Center, 2077 West Larpenteur Avenue, at 7:30pm. Doors open at about 7:10pm.

**MAST+ Programming Language User Sig** MAST also has a programmer's group meeting. This group has a more technical discussion regarding programming the ST computers in a variety of languages. The group meets on the Monday following the MAST meeting at the First Minnesota bank on Lexington Avenue near Larpenteur Avenue. Meeting time is 7:30, with doors opening at about 7:20pm. The entrance is in the back of the building and leads to a stairway to the second floor.

For more information, or to confirm a meeting time and location, call Larry Vanden Plas (SPACE) 636-2415 or Jim Schulz (MAST) 537-5442.

**SPACE/MAST Membership Application**

Name __________________________ Date __________________________
Address __________________________
City __________________________ State __________ Zip __________
Phone __________________________ Equipment/System Used __________________________
Areas of Interest __________________________
Check one or both: SPACE ______ MAST ______
Renewal? ______ Address Change? ______ Membership Card Given? ______
Dues: $15.00 per year - Please enclose with Application.
Mail to: SPACE/MAST, P.O. BOX 12016, New Brighton, MN 55112