

New Hampshire  
May 86

# NEW HAMPSHIRE 99'ERS MAY 1986 NEWSLETTER



NH99UG NEWSLETTER - PO BOX 5991 - MANCHESTER, NH 03108-5991

VOL. 4 NO. 5

## Random Ramblings No. 24

.....The Agenda for the June 2nd meeting includes the Annual Meeting for election of officers. The meeting will be directed by the Chairman of the Nominating Committee, Chris Agrafiotis. The Committee met on May 19th and, after giving due consideration to the suggestions made in answers to the questionnaires printed in the March and April issues of the NH99UG Newsletter, proceeded to nominate one candidate for each Office to be filled. The nominees are: for President, incumbent Curtis Provance; for Vice-Prez, Mike Mannion; for Secretary, incumbent Ellen Rule; and for Treasurer, Richard Quimby. Remember, these names are by no means etched in stone, nor do they constitute an endorsement of the candidates. To re-iterate, the function of the Committee was to give due consideration to the suggestions made in answer to the questionnaires which were distributed to all NH99UG members, then proceed to nominate one candidate for each Office. These names will be presented to the UG membership at the Annual Meeting. Names of other candidates may be placed in nomination from the floor at the Annual Meeting. Only active members are eligible to hold office.

Voting will take place at the Annual Meeting and shall be by secret ballot. The nominees receiving the greatest number of votes shall be considered the winner and be installed at the following meeting.

Active members will find enclosed in this issue an absentee ballot which must be received in the club's PO Box (POB 5991 # Manchester, NH 03108-5991) no later than 10:00 am on 06/02/86 in order to be counted!

.....The raffles are starting to pay off but was suggested that we could do better if we had an official barker (TailBuster?!). Any takers? This month's items, by the way, are your choice of a box of Nashua DSDD diskettes or 6 blank computer cassette tapes (in Norelco boxes) or \$400 worth of coupons on the Source, Compuserve, Delphi, DAG, etc. donated by Chris Agrafiotis. We can't thank Paul Johnson enough for donating last month's fundraiser, the SST Compiler package, which was won by Curtis Provance. The Donkey Kong module was won by Elliot Hardy. You do not have to be present (although we'd luv to see ya!) to win as three of the last four raffles were won by members who sent in their monies prior to the meeting!

.....Speaking of the last meeting, we welcomed a special guest, Wayne Kay, of the Delaware Valley 99'ers Group. Wayne, who now resides in Smyrna, DE, formerly lived in NH and heard of us via Richard Bailey's Lithium Battery article in Micropendium. Through Wayne, I have become acquainted with Chuck Bower of the Delmarva Chapter Chairman of DVUG. Chuck provided us with some PD software which we were lacking and buys TI wares at closeouts and resells them at "bargain basement" prices. His inventory has been posted on the Bulletin Board at our meetings. Those members who have availed themselves of his offers are more than pleased. He is in the process of restocking, as his inventory was depleted following a computer fair. We will post his new list on arrival. Chuck does not run a computer business "per se", he just takes advantage of good deals and passes the savings onto fellow 99'ers. He prefers to mail in bulk and thus finds it easier to deal with UG's. Interested UG's can contact: Charles Bower - 404 Ronald Lane - Smyrna, DE 19977. Tell him Helene sent ya!

.....For those installing dual disk drives in their PEB's... We understand that you might need to install a 5 amp regulator to handle the increased load. The Sylvania stock # is EC6-933. Anyone know of a local source? Or, at least, an inexpensive source?

.....We have a member who is looking for PHM 3045D (SMU ELECTRICAL ENGINEERING LIBRARY). Anyone out there know of a source?

.....On May 10th, we had the opportunity to go to the Boston Area Computer Indoor Fleamarket & Sale. Super! The Boston TI Computer Society had a table as did several vendors of TI wares. This was an excellent opportunity to purchase labels, diskettes, drives, \$100 Hayes compatible 1200 BAUD modems, 13 month subscriptions to Computer Shopper for \$12, assorted electronics, etc. You name it, and it was probably there. Eighty-five percent of the wares were new, e.g., new C64's were selling for \$100. A friend of mine purchased a used Tandy 32K Color Computer for \$15 (it works!). I bought (among other things) a mouse pad for \$2, a drive case for \$5, and disk notchers for \$5.

I can't wait for the Fall Edition!

.....On May 17th, we attended the Second Annual NH Electronics Flea Market held at the Electronics Surplus Store in Milford, NH (7 Amherst Street). This WAS a flea market, we had to work harder, but you could find many bargains. I spent another \$15 on "required" miscellany here! Call ESS @ 603-673-5690 for more info.

On our way back home from ESS we checked out The Computer Exchange at the Oval in Milford. CX is run by Donald Decker (603) 673-5975 who sells used computers (and peripherals) on consignment. There was a 99/4A on display for \$45 and two "systems" #967 and #562. Call Mr. Decker or stop in if you're interested. The "store" is open from Tuesday thru Friday from 11 to 1 and 4 to 6 and Saturdays from 10 to 2. Make sure you mention that you heard this info from the NH99UG Newsletter!

.....Millers Graphics shipped us a good number of their latest catalog. You can pick up a copy at the June meeting or send us forty cents and we'll ship you one!

Brett Kropf <RD1 Box 359-5, Kingston, NY 12401 (914) 336-6144> sent a flyer announcing his services. Kropf, who is President of the Hudson Valley 99'ers UG, features internal 32K upgrades, 99/4A system repairs and miscellaneous modifications. the flyer will be posted at the June meeting. Call or write Kropf for more info.

.....We also received the latest DATASYSTEMS catalog. It features many "different" titles for MATH/SCIENCE/APPLICATIONS/UTILITIES. Datasystems - 2301 Churchill Drive - Oxnard, CA 93030 (805) 483-3464.

.....From the COMPUTER BRIDGE (St. Louis 99'ers) we read that C. Regena has re-surfaced. All you old-timers have surely heard of her! Regena is now offering her programs on a direct basis. For a complete list of programs send \$1.00 to REGENA - POB 1502, Cedar City, UT 84720.

FLIP STRIPS combines the overlay strips (TIWRTR, TEII, MULTIPLN, LOGO, BASIC, E/A, FORTH, DB, plus several blank strips) into one plastic spiral. This neat gadget is brought to you by TOM RHODES - 320 Tiverton Way - Lexington, KY 40503 for the modest sum of \$3.50 postpaid.

.....From an ad in the LA TopIcs (CA) we read that Realestate Projections (409 Elberon Ave Suite 2 - San Pedro, CA 90731) is selling a Console Cooler for \$27.50 postpaid. If you're not satisfied with its performance, return it within 30 days for your money back. They also are "Clearing out their Software Inventory": Home Purchase Analysis, Income Property Analysis, Mortgage Analyser, Tax Estimator, and Tax Database Update. You can buy these five programs and a 47 page manual while they last, for \$18.95 including shipping and handling.

Items which I negelected to mention in RR#23 include:

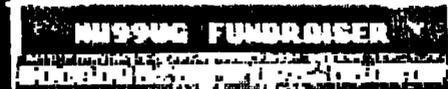
UNISOURCE ELECTRONICS of Lubbock, Texas has gone out of the TI merchandising business and will be pursuing other direct mail interests. Their 800 number has been disconnected.

MICROPENDIUM is scheduled to increase their subscription rate effective May 30. From that date regular subscriptions will be increased \$15 to \$17 and first class subscriptions will increase from \$18.50 to \$20.50. Micropendium - POB 1343 - Round Rock, TX 78680.

SUPER 99 MONTHLY-->>><<<--THE SMART PROGRAMMER. On March 19, 1986, Bytemaster Computer Services purchased all rights to THE SMART PROGRAMMER from Millers Graphics. Beginning in April, a new publication under the name THE SMART PROGRAMMER will be released to subscribers of both SUPER 99 MONTHLY and THE SMART PROGRAMMER, as well as through news stands. Bytemaster Computer services - 171 Mustang Street - Sulphur, LA 70663.

NAVARONE INDUSTRIES has moved back to California: 21109 Longeway Road Suite C - Sonora, CA 95370 (209) 533-8349.

As usual, I'm sure that I have forgotten to mention someone or something... you'll just have to wait for my next and last effort: Random Ramblings #25!!!! *Helene*



## NASHUA 5.25" DSDD DISKETTES

# \$7.75

per box of 10 /w VP tabs & Envelops

### PRINTER RIBBONS

GLP/MPS 803.....	\$3.00 ea
EPSON MX/RX/FX70,80	
TI IMPACT.....	\$5.00 ea
OKIDATA / STAR MICRONICS	
80,82,83 / SD/SG/SR 10 & 15	
92 & 93 / Geini 10 & 15.....	\$2.50 ea
CENTRONICS 700 (Zip Pack)	
Quantel 5003 & 5004	
Tandy LP I,II,IV.....	\$3.00 ea

LABELS & Write Protect TABS.....\$1.00 ea  
pkg of 24 labels/20 WPT

TI99/4A Single Cassette Cable.....\$3.00 ea

These are Cash & Carry prices!!!  
Add \$2 per Mail Order

<<<LAST MINUTE>>>

SUP'R BUFFER

Review by Chris C. Agrafiotis  
NEW HAMPSHIRE 99'ER USER GROUP



Due to Pres. Curtis's absence, the meeting of May 5 was chaired by Chris Agrafiotis. Many thanks for a fine job!

The club welcomed visitor Wayne Kay from Delaware.

A brief discussion of the up-coming elections was held. As per our Constitution, written nominations are closed as of 5/5's meeting. Voice nominations will be taken from the floor at the June meeting, prior to the casting of ballots.

The Treasurer's report disclosed \$154.56 in the treasury plus hardware, disks etc valued at roughly \$1000.

Brian D. announced that the GLP printers sold through the club are essentially gone; see Helene if you missed out and she may be able to get one for you.

Librarian Richard Bailey demonstrated Quick Copy II, a program which allows such helpful options as organizing disk files in alphabetical order on the disk (which reduces drive wear), displaying sector information, etc.

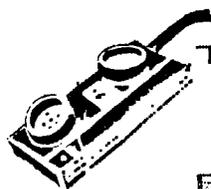
Next, Richard demo'd the New Horizons RAM disk which he'd built from kit form. He showed us how easy the device is to use, and its speed was evidenced by loading of DM1000 in one second. The device behaves exactly the same as a regular disk drive but without the time involved for mechanical function. The kit is \$50 and includes a well-written instruction manual, a construction manual, a manual for the DM1000, the RAM-DOS operating disk, and 2 disks of source code. Parts run \$72 or \$105, depending on whether you desire single or double-sided. The battery backup keeps the memory active even when the computer is off. Since there are about 1000 solder connections, this construction task is not recommended for the inexperienced (or faint of heart!)

Chris A. demonstrated the Superbuffer 64K print buffer reviewed elsewhere in this newsletter. Since most printers have only a 2K buffer, much time is spent just waiting for the printer to give us back control over the console. With a printer buffer, control is returned as soon as the buffer receives the text. Highlighted in the demo were features such as the pause button and multiple copy option.

The raffle of Donkey Kong was won by Elliot Hardy, and the SST compiler by Curtis Provance.

File closed---

Ellen Rule, Secretary



FOR SALE  
TI 300 BAUD  
MODEM  
\$45

Elliot Hardy  
603/483-2702 (eve)

I get a charge out of people who try to convince me that computers are the greatest thing to come into the workplace since the paper-clip. These well-intentioned but misguided souls sit there and salivate over their IBMs or Intels and swear that the productivity of any secretary, including mine, will increase ten-fold because she or he now has a super-duper PC at their elbow and can produce all of my letters, plans or other correspondence on a word processing program which will save countless hours over the traditional typewriter and hence thousands of dollars in labor fees for the government (in my case) or private industry, whichever the case may be. Well, in part they are correct.....but only in part.

I am convinced that most of the computer experts who preach that computers are an absolute necessity in the workplace are brain-damaged! In most cases they know just enough about computers to be dangerous. And, in addition, they know even less about management and the art of supervising people in order to get the most productivity out of them without turning them into clones of the brain-damaged persons they are. For example, take the Information Management Specialist that I work with in my organization. (as most of you know I work for the New Hampshire Army National Guard which is a military and, hence a government agency) Well, anyway, this guy has provided my secretary with a super PC which probably set the government back about \$20,000. She loves it. She is fascinated by it. But all she uses it for is word-processing! That's a sin in itself but what makes matters worse is that she spends the same amount of time typing a document into this PC as she used to spend working on her electric typewriter. Then she punches the "print" key and sits there for the next fifteen minutes watching the printer track back and forth spewing out the document. (I swear she looks like she's watching a slow tennis match) Simple logic will tell you that she is spending a heck of alot more time in producing a document on her PC than she ever spent on her typewriter. When I ask her why she doesn't do something productive while the printer is whining away she says that she wants to finish the project she's working on before she starts another. Plus she wants to make sure that the PC doesn't make a mistake! (and all along I thought they were perfect) And anyway, she says, the computer is tied up during the printing phase so she can't go on to anything else anyway. Actually she is right! The PC is tied up. And the psychology of computers dictates that we, as mere mortals, must sit there and watch them do their thing instead of going on about our business.

This upset me greatly, so I called in our brain-damaged computer genius, information management expert and asked him why he doesn't provide my secretary with a printer buffer so that she can continue being productive instead of being a spectator of her PC doing its thing. He looked at me with that puppy-dog, dumb look that computer experts

have when they are stumped and says, "What's a printer buffer?"

Well that's the subject of my review this month. "What is a printer buffer and how can it help us cut down on wasted time in front of our PC's." (In this case I will address our ever-loving TI)

In essence a printer buffer is much like a storage device which accepts that data which you have in your computer buffer or disk-drive which you wish to be printed. It allows you to send your data, in a fraction of the time it takes to print that data, to the printer buffer which then feeds it at its own rate to the printer while having released the computer to your control.

There are many printer buffers on the market. I'm not pushing any particular one but I am favoring the SUP'R BUFFER because that's the one that I own. This is not to say that there are not better buffers available. But let's face it, when you buy something you're happy with why not tout its merits! The average cost of the buffers I looked at before I made my purchase was about \$350.00. Not cheap. They alternately claimed to have a capacity from 64K to 512K. Obviously the more memory they have the higher the cost. I decided that, for the kind of work I do, I would be happy with 64K memory. (that's about thirty pages of data). Thanks to Helene (good old Helene) and her watchful eye of the many advertisements for computer products, I found a company called JAMECO ELECTRONICS who was advertising a 64K buffer, on sale, for \$89.95! It was a closeout. They claimed the list on this piece of equipment was \$200.00. I called the company and ordered the buffer.

It arrived in about 10 days. What I got was a neat little box called the SUP'R BUFFER. It had an "on and off switch"; a pause button; a copy button and an LED indicator light on it. It also had a DC converter which powered it independently and a connector cable which allowed me to insert it between my TI RS232 output cable and my Gemini 10X Printer. It is parallel Centronics compatible and comes with everything you need to make the interface with your computer/printer. I hooked it up in about ten seconds, turned it on and away I went!

Boy, does it do its stuff with TI-WRITER!!!!!!! Just as an example I wrote my son a letter. It was five pages long, single spaced. I printed it out normally without the buffer and it took five and one-half minutes. I was very much like my secretary.....sitting there watching in fascination as the printer did its thing. I was absolutely non-productive. Of course I could not do otherwise because my TI console was tied up during the entire printout procedure. (remember, most printers have only a 2K buffer in them)

Then I turned on the SUP'R BUFFER and told my TI Writer to print it again. It still took five and a half minutes to print it out but this time....MY COMPUTER WAS RETURNED TO ME IN 30 SECONDS!!! Lo and behold, I could go on to work on something else even while the printer was whirling away. I could send another document to the buffer to await its turn at being printed or I could go to another program entirely. One way or another the console was mine to control and use even while the printer was producing the document sent to it several minutes before.

Think of the possibilities. The 64K memory of the printer buffer will allow you to send about thirty pages of text to it which will be compressed and printed at the rate the printer functions without tying up the computer. You can send as many documents to the printer as you desire so long as the LED indicator light stays lit indicating that the buffer has adequate space. How's that for saving time! It even allows you to print as many copies as you want by pressing the COPY button X number of times before you start printing. This precludes using the TI FORMATTER command dealing with multiple copies.

The PAUSE button is another great feature. It allows you to stop printing at any time, and then continue printing without losing the transliterate commands sent to the printer. This allows you to control the actual printing of your document as to page spacing or placement of your text without worrying about transliterate commands.

I don't know about you guys, but I think this little gadget is a tremendous enhancement to our system. When I told my brain-damaged Information Expert at the office about it he just looked at me with disbelief in his eyes. I asked him why he didn't purchase something like this for my secretary and his answer was, "Gee, I don't know. I'll have to look into it."

God protect us from experts like this!

As I said before there are many buffers available out there. Personally I don't think I would have sprung for \$350.00 for a unit. But \$89.95 plus shipping (\$3.82) was hard to resist.

The source, if you are interested is:

JAMECO ELECTRONICS  
1355 Shoreway Road  
Belmont, CA 94002  
Phone: (415) 592-8097

If you order one don't forget to tell them that you are a member of the New Hampshire 99'er USERS GROUP. It won't get you a discount but it will help spread the word that we support those who support the TI.

There are quite a few printer buffers on the market so if you are in the market make sure you look around and find the one that suits your needs. Some are just parallel; some are just serial; some have the capability for both parallel and serial. It all depends on what you need and want.

In closing let me just say that if you do a great deal of word processing, a print buffer can be an extremely advantageous piece of hardware. On the other hand it may just be another toy. Also, be aware that a buffer doesn't always work. Unfortunately it depends on the software program that you are running. For example it works great with any of the TI-WRITER programs and some of the data-base programs that I currently have. At this point I cannot comment on what mine will be with MULTI-PLAN because I haven't tried it. The decision is yours to make. Toy or tool.....it all rests in the eye of the beholder. Thanks for listening. As always, Chris.

DISTRIBUTOR SHOPPING GUIDE TO TI WARES

compiled by: ELLEN JANE RULE  
New Hampshire 99'er User Group, Inc.

NEW HAMPSHIRE 99'ERS USER GROUP, INC.

May 1986	TEX-COMP	TRITON	MICROSHOPPER	TENEX	SD.JERSEY COMPU
	PD Box 33084 Granada Hills CA 91344 818 336-6631	PD Box 8123 San Francisco CA 94128 800 227-6900	34 Maple Ave Armonk, NY 10504 914 273-6480	PO Box 6578 South Bend IN 46660 219 259-7051	PO Box 5 National Park NJ 08063 609 848-5963
***** X-BASIC *****					
PHM3026	49.95	49.95	79.00		
Micropal		w/ Mentor Powerpack	69.95	69.95	59.95
Mechatronics *****				w/ Typewriter & DBM 79.95 \$20 rebate	
Editor/Assemblr w/ Widget:	19.95 38.95	29.95			
Minimemory w/Minewriter	38.95	39.95	\$69 each or 2/\$79.00	39.95	
Multiplan	38.95	39.95	2/\$79.00	39.95	26.50
TI LOGD II	19.95	29.95	2/\$79.00	29.95	26.50
TE II	9.95	14.95		19.95	
*****					
Millers Graphi *****					
Adv. Diag.		19.95		17.95	15.00
MG Explorer		24.95		24.95	18.25
GRAM Kracker *****				194.95	177.50
WORD PROCESSOR *****					
Homwrk Helper	29.95			27.95	
Minewriter I	19.95				
Miniw. II		39.95		34.95	
Miniw. III cable		79.95		39.95	
99 Writer II	19.95			19.95	
TI Writer	38.75	39.95		39.95	26.50
Texscribe cass Typewriter	19.95			29.95	
Console Writer	24.95	19.95		17.95	
Dragonslayer Spellcheck *****	34.95	29.95		29.95	31.50
GRAPHICS DESIGN AIDS *****					
Draw'n'Plot	29.95			19.95	
Chartmaker	19.95	19.95			
Chartmaker II				19.95	
Paint'n'Print	34.95	29.95		27.95	

***** GRAPHICS DESIGN AIDS *****	TEX-COMP	TRITON	MICROSHOPPER	TENEX	SD.JERSEY COMP
Bitmac	19.95				
TI Artist					19.50 w/ extras
*****					
ADVENTURES *****					
Tunnels of Doom	6.95				
Adv. module & Pirate	6.95	15.95	7.50	7.95	
Return to Pirate Isle	11.95	11.95		3/\$14.95	
Scott Adams Adventures	9.95 49.95/all		7.50	5.95	
New Scott Adam Infocom	19.95 29.95 & up	19.95		17.95	
			33.95 & up		
***** GAMES *****					
Video Chess	14.95	14.95			
4A Flyer		19.95			
MBX System	39.95	69.95	89.00		40.95
		w/4 carts	w/5 carts		w/Baseball
cartridges	9.95	9.95	7.95		
IMAGIC:					
Moonsweeper	9.95		5.95		
Fathom	9.95		5.95		
Microsurgeon	9.95	11.95	5.95	5.95	
Super Demon					
Attack	9.95	5.95	5.95	5.95	
PARKER BROS.					
Qbert	19.95		34.95 ea.	16.95	
Popeye	19.95		buy Popeye	16.95	
Frogger	19.95		get Frogger or Qbert free	16.95	
Original TI		4.75 & up		7.95	
***** HARDWARE *****					
TI Console	79.95	89.95	79.00	89.95	
		w/joysticks, book and five carts			
Cass. player			45.00	32.95	
Cass cable			7.95	5.95	
Cass w/cable	34.95	49.95	48.50		
CC 9900 + w/extras	379.95	319.95		329.00	329.95
PE Box-Mvarc		499.95			
Triplettech	109.95	139.95		129.00	

For those of you who have been awaiting PILOT 99 from Fairware author Tom Weithofer, we reprint the following:

Fellow TI'er,

First I would like to explain the circumstances which have so long delayed answering your request.

Tom had Cystic Fibrosis from birth, a disease of the endocrine gland system. He had extreme respiratory problems which greatly limited his activities as he grew older. During the past few months, from October on, he was very limited and was hospitalized several times. His last hospital stay began in March and lasted to April fifth when he died.

The pilot 99 program is available in two loading modes, extended basic and editor assembler. If you did not specify a preference I am sending the extended basic version. The disk for the manual works with either..

Tutorials on Pilot 99 and a program exchange will not be available.

If you sent cash with your request I am using the money to defray the cost of continuing the distribution effort. To those of you who sent checks I am returning them.

Tom had released this program to fairware with a request for ten dollars. Now that he can no longer use the money send any contribution you would have given him to the following charity:

Ministry to Elderly & Sick  
Nerinx, KY 40049

Thank you for your interest in my son's work.

Frank W. Weithofer  
1000 Harbury Drive  
Cincinnati, Ohio 45224

***** HARDWARE *****	TEX-COMP	TRITON	MICROSHOPPER	TENEX	SD. JERSEY COMP
Mech. 80-col				219.95	
CC RS232	79.95	99.95		89.95	92.50
Mvarc RS232		99.95		89.95	
Mvarc 128k		199.95		199.00	
PHP1260 32K		99.95	117.00		
CC 32K	99.95			109.95	
Mvarc DSDDcard				169.95	
CC DSDD Card	149.95	179.95		159.95	
DSDD 1/2 ht.	99.95			119.95	
DSDD full ht	99.95			139.00	
PHP1240 disk controller			117.00		
SSSD Drive	79.95			99.00	
w/power & case	129.95	149.95			
Drive case					
w/power	59.95			59.95	
Inter'pt Switch	19.95	11.95		11.95	
			free scrnduap		
Speech synth	59.95	49.95	59.95	49.95	
1983 adapter	24.95	29.95		27.95	
Trackball	19.95	19.95		14.95	
J-stck adapter	10.95		6.95	4.95	
TI Joysticks	9.95	11.95	12.95		
TI Mouse w/DS				119.95	
Widget	24.95	29.95		24.95	
Volksmodem1200	199.95			199.00	
Volksmodem	39.95	69.95	59.95	59.95	
			w/cable&TEII	cable: 9.95	
Signalman					
Mark IIII	74.95			79.95	74.00
monitor cable	14.95		12.95	7.95	
RF modulator	14.95		34.95	19.95	
Power transf.	14.95			19.95	
RS232 Y-cable	10.95		22.95	49.95	
Per.Exp.Cable Parallel				24.95	
printer cable serial	24.95	16.95	20.95	24.95	22.50
printer cable Composite	23.95		13.95		
color monitor	199.95	99.95	139.95	149.95	
	Zenith	TI second	NEC	Samsung	
	w/cable				
64K Prnt Buff. Axiom parallel interface	59.95	69.95		59.95	
printer stand	14.95			14.95	
console cover	7.95		8.95	4.95	
			hard plastic		
monitor stand flip/file:	24.95			14.95	
for modules	16.95		12.95	14.95	
for 50 disks	14.95		21.95	13.95	

TIPS FROM THE TIGERCUB

#31

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TIGERCUB SOFTWARE  
156 Collingwood Ave.  
Columbus, OH 43213

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Over 130 original programs in Basic and Extended Basic, available on cassette or disk, only \$3.00 each plus \$1.50 per order for PPM. Entertainment, education, programmer's utilities. Descriptive catalog \$1.00, deductible from your first order.

Tips from The Tigercub, a full disk containing the complete contents of this newsletter Nos. 1 through 14, 50 original programs and files, just \$15 postpaid.

Tips from the Tigercub Vol. 2, another diskfull, complete contents of Nos. 15 through 24, over 60 files and programs, also just \$15 postpaid. Or, both for \$27 postpaid.

Nuts & Bolts (No. 1), a full disk of 100 Extended Basic utility subprograms in merge format, ready to merge into your own programs. Plus the Tigercub Menuloader, a tutorial on using subprograms, and 5 pages of documentation with an example of the use of each subprogram. All for just \$19.95 postpaid.

Nuts & Bolts No. 2, another full disk of 100 utility subprograms in merge format, all new and fully compatible with the last, and with 10 pages of documentation and examples. Also \$19.95

postpaid, or both Nuts Bolts disks for \$37 postpaid. Tigercub Full Disk Collections, just \$12 postpaid! Each of these contains either 5 or 6 of my regular \$3 catalog programs, and the remaining disk space has been filled with some of the best public domain programs of the same category. I am NOT selling public domain programs - my own programs on these disks are greatly discounted from their usual price, and the public domain is a FREE bonus!

TIGERCUB'S BEST PROGRAMMING TUTOR  
PROGRAMMER'S UTILITIES  
BRAIN GAMES  
BRAIN TEASERS  
BRAIN BUSTERS!  
MANEUVERING GAMES  
ACTION GAMES  
REFLEX AND CONCENTRATION  
TWO-PLAYER GAMES  
KID'S GAMES  
MORE GAMES  
WORD GAMES  
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KALEIDOSCOPIES AND DISPLAYS

For descriptions of these send a dollar for my catalog!

A few people have asked for a program that they could use to encode personal messages on a BBS. considering the current legal threats to BBS's, I doubt that a SysOp will allow coded messages, but here is a coder/decoder to create code that should be quite difficult to crack. First we need another of those programs that write a program -

```
100 !CODEPRINT by Jim Peters
on - creates a random code in
n a MERGE format program COD
ESTRING to be MERGEed into CO
DEMAKER
110 FOR J=1 TO 254 :: M$=M$&
CHR$(J):: NEXT J
120 FOR J=1 TO 254 :: RANDOM
```

```
IZE :: X=INT(RND*LEN(M$)+1):
: C$=C$&SEG$(M$,X,1):: M$=SE
G$(M$,1,X-1)&SEG$(M$,X+1,LEN
(M$)):: NEXT J
130 OPEN #1:"DSK1.CODESTRING
",VARIABLE 163,OUTPUT :: PRI
NT #1:CHR$(0)&CHR$(1)&"C$"&C
HR$(190)&CHR$(199)&CHR$(127)
&SEG$(C$,1,127)&CHR$(0)
140 PRINT #1:CHR$(0)&CHR$(2)
&"C2"&CHR$(190)&CHR$(199)&C
HR$(127)&SEG$(C$,128,127)&C
H R$(0)
150 PRINT #1:CHR$(0)&CHR$(3)
&"C3"&CHR$(190)&"C4"&CHR$(18
4)&"C2"&CHR$(0):: PRINT #1:
CHR$(255)&CHR$(255):: CLOSE
#1 :: END
```

And now the coder/decoder -  
100 !TIGERCUB CODEMAKER writ  
ten by Jim Peterson  
110 !The MERGE format progra  
m CODESTRING created by the  
program CODEPRINT must be ME  
RGEed into lines 1-3 of this  
program  
120 DIM A\$(254):: DISPLAY AT  
(3,6)ERASE ALL:"TIGERCUB COD  
EMAKER" :: DISPLAY AT(12,1):  
"Do you want to": "(1)Encod  
e": "(2)Decode"  
130 CALL KEY(0,K,ST):: IF K=  
49 THEN 140 ELSE IF K=50 THE  
N 290 ELSE 130  
140 OPEN #1:"DSK1.CODE",VARI  
ABLE 254,OUTPUT  
150 DISPLAY AT(5,6)ERASE ALL  
:"Type message in segments o  
f": "not more than 254 charac  
ters": "and Enter. When done,  
type"

```
160 DISPLAY AT(9,1):"END and
Enter. Type slowly": "to avo
id skipped characters.": "Bac
k space with FCTN S to": "corr
ect.": "Press any key"
170 CALL KEY(0,K,ST):: IF ST
=0 THEN 170
180 CALL CLEAR :: CALL LONGA
CCEPT(0,M$):: IF M$="END" TH
EN 280
190 DISPLAY AT(20,1):"WAIT,
PLEASE - ENCODING"
200 FOR J=1 TO LEN(M$)
210 A$(ASC(SEG$(C$,J,1)))=SE
G$(M$,J,1)
220 NEXT J
230 FOR J=1 TO 254 :: RANDOM
IZE
```

```
240 IF A$(J)="" THEN A$(J)=C
HR$(INT(26*RND+65))
250 CODE$=CODE$&A$(J)
260 NEXT J :: PRINT CODE$
270 PRINT #1:CODE$ :: CODE$=
"" :: FOR J=1 TO 254 :: A$(J
)="" :: NEXT J :: GOTO 180
280 CLOSE #1 :: END
290 OPEN #1:"DSK1.CODE",VARI
ABLE 254,INPUT :: CALL CLEAR
:: DISPLAY AT(12,10):"DECOD
ING"
300 LINPUT #1:CODE$ :: FOR J
=1 TO 254 :: M$=M$&SEG$(CODE
$,ASC(SEG$(C$,J,1)),1):: NEX
T J :: PRINT M$:: M$=""
310 IF EOF(1)<>1 THEN 300 ::
CLOSE #1 :: END
320 SUB LONGACCEPT(L,M$):: X
=0 :: IF L<>0 THEN R=L ELSE
R=R+1
330 M$="" :: C=3 :: CH=140 ::
CALL CHAR(140,RPT$(" ",14)
&"FF")
340 CALL HCHAR(R,C,CH):: CH=
CH+5+(CH=160)*25 :: CALL KEY
(0,K,ST):: IF ST<1 THEN 340
350 IF K<>8 THEN 370 :: X=X-
1 :: C=C-1 :: IF C=2 THEN C=
30 :: R=R-1
360 M$=SEG$(M$,1,LEN(M$)-1):
GOTO 340
370 IF K=13 THEN 410
380 X=X+1 :: M$=M$&CHR$(K)::
CALL HCHAR(R,C,K):: IF X=25
4 THEN 410
390 C=C+1 :: IF C=31 THEN C=
3 :: R=R+1 :: IF R=25 THEN C
ALL CLEAR :: R=1
400 GOTO 340
410 R=0 :: SUBEND
```

Here is a simple little game I call Cover-Up. Use the #1 joystick, try to cover the white square with the black square. Press the fire button to speed up, release it to slow down.  
100 CALL CLEAR :: CALL CHAR(96,RPT\$("F",64)):: CALL SPRITE(0,96,5,92,124):: CALL MAGNIFY(4):: CALL SPRITE(0,96,16,100,100)  
110 X=INT(20\*RND)-INT(20\*RND):: Y=INT(20\*RND)-INT(20\*RND):: CALL MOTION(0,2,X,Y):: T=T+1 :: IF T=250 THEN 300  
120 CALL JOYSPEED(1,1):: CAL L COINC(0,0,2,8,A):: IF A=-1

```

THEN 130 ELSE 110
130 Z=Z+1 :: DISPLAY AT(1,1)
:Z :: CALL SOUND(-50,500,5)
: GOTO 120
300 CALL DELSPRITE(ALL):: DI
SPRAY AT(12,5):"YOUR SCORE I
S "&STR$(Z):: DISPLAY AT(20,
1):"PRESS ENTER TO PLAY AGAI
N"
310 CALL KEY(0,K,S):: IF S=0
OR K<>13 THEN 310 :: T,Z=0
:: GOTO 100
2110 SUB JOYSPEED(N,A):: CA
LL JOYST(N,X,Y):: CALL KEY(N
,K,ST):: S=S+K/9-1 :: S=S*AB
S(S)0):: IF S>30 THEN S=30
2111 CALL MOTION(A,-(Y*S),
X*S):: SUBEND

```

For a one-handed BREAK, if you can't reach FCTN and 4, try FCTN with J and the space bar together.

If you like to call BBS's, try the TIBBS Spirit of 99 BBS in Columbus, Ohio on (614)451-8888 and leave me a "hello!"

Probably useless info - holding down FCTN and CTRL together and typing 1, 2, 3 and 5 will give ASCII codes 145, 151, 133 and 148, which are the codes obtained from CTRL Q, W, E and T, the keys diagonally below the 1, 2, 3 and 5.

Occasionally someone sends me a program they have keyed in from my newsletter, and asks why it won't run, so I wrote this routine to help find the errors. It is also useful to check whether two copies of a program are identical, but only if they have not been resequenced.

100 !CHECKER by Jim Peterson  
- to compare two programs and list all differing lines to the printer

```

110 DISPLAY AT(12,1)ERASE AL
L:"1st program DSK/filename?"
:"DSK" :: ACCEPT AT(13,4):F
1$
120 DISPLAY AT(12,1)ERASE AL
L:"2nd program DSK/filename?"

```

```

:"DSK" :: ACCEPT AT(13,4):F
2$
130 OPEN #1:"DSK"&F1$,INPUT
:: DIM M$(500),CH(500):: OPE
N #2:"PIO",VARIABLE 255 :: P
RINT #2:CHR$(15)
140 X=X+1 :: LINPUT #1:M$(X)
:: M$(X)=M$(X)&" " :: IF EOF
(1)<>1 THEN 140 :: CLOSE #1
:: OPEN #1:"DSK"&F2$,INPUT
150 IF EOF(1)=1 THEN 230 ::
LINPUT #1:X$ :: X$=X$&" "
160 FOR Y=1 TO X
170 IF X%=M$(Y)THEN CH(Y)=1
:: GOTO 150
180 NEXT Y
190 P2=POS(X$," ",1):: P2%=S
E6$(X$,1,P2-1)
200 FOR Y=2 TO X :: P1=POS(M
$(Y)," ",1):: P1%=SE6$(M$(Y)
,1,P1-1)
210 IF P2%=P1$ THEN PRINT #2
:"1st program = "&M$(Y):"2nd
program = "&X$ :: CH(Y)=1
:: GOTO 150
220 NEXT Y :: PRINT #2:"2nd
program = "&X$ :: GOTO 150
230 FOR J=1 TO X :: IF CH(J)
=0 THEN PRINT #2:"1st progra
m = "&M$(J)
240 NEXT J
250 CLOSE #1 :: CLOSE #2

```

Here's a great idea that was printed and reprinted in several newsletters - At the beginning of a program that will run only in Basic, add the lines -

```

1 IF PI=0 THEN (first line
of program)
2 PRINT "YOU ARE IN EXTENDED
BASIC": "THIS PROGRAM RUNS
ONLY IN BASIC"
3 STDP

```

The idea is that PI is a function in XBasic with the value of pi, but is just a variable name in Basic with an undefined value of 0.

The trouble is, it doesn't work! If PI is keyed in from Basic and saved, it is saved in token format as a variable name, and when loaded back into XBasic is still just a variable name. And if PI is saved from XBasic, it is tokenized as a function, loads back into Basic

as an unrecognized function and crashes! Can anyone come up with a way around that?

The above is the answer to the Challenge in Tips #30. Lines 100 and 110 were keyed in and saved from Basic, and loaded back into XBasic, then lines 120 and 130 were keyed in.

Here is a handy PEEK that hasn't been published as widely as most of them -

```

100 CALL INIT
110 CALL PEEK(8192,X)!Thanks
to Dale Loftis in the Orange
County U6 newsletter!
120 PRINT X !If X=32 you are
in Extended Basic; if X=165
you are in Basic with the
Editor Assembler or
MiniMemory module inserted.

```

And another 3-D sprite demo, just to make all the Apple polishers jealous. See if you can figure out how it works.

```

100 CALL CLEAR :: CALL SCREE
N(5):: CALL CHAR(100,RPT$( "F
",64)):: CALL MAGNIFY(4):: F
OR S=5 TO 9 :: CALL COLOR(S,
16,1):: NEXT S
110 DISPLAY AT(3,3):"TIGERCU
B SPRITE SHUFFLE" !by Jim Pe
terson
120 DATA 70,116,2,75,121,7,6
9,124,11,78,115,16
130 FOR J=5 TO 8 :: READ P(J
,1),P(J,2),L(J):: CALL SPRIT
E(#J,100,L(J),P(J,1),P(J,2))
:: NEXT J :: W=45
140 DATA 5,6,7,8,8,5,6,7,7,8
,5,6,6,7,8,5
150 RESTORE 140 :: FOR Y=5 T
O 8 :: READ A,B,C,D
160 FOR J=1 TO W :: CALL LOC
ATE(#A,P(A,1)-J,P(A,2),#B,P(
B,1),P(B,2)-J,#C,P(C,1)+J,P(
C,2),#D,P(D,1),P(D,2)+J):: W
=90 :: NEXT J :: GOSUB 180
170 NEXT Y :: GOTO 150
180 FOR J=5 TO 7 :: CALL POS
ITION(#J,P(J+1,1),P(J+1,2))
: NEXT J :: CALL POSITION(#0
,P(5,1),P(5,2))
190 T=L(8):: L(8)=L(7):: L(7
)=L(6):: L(6)=L(5):: L(5)=T
200 FOR J=5 TO 8 :: CALL SPR

```

```

ITE(#J-4,100,L(J),P(J,1),P(J
,2)):: NEXT J
210 FOR J=5 TO 8 :: CALL SPR
ITE(#J,100,L(J),P(J,1),P(J,2
)):: NEXT J :: CALL DELSPRIT
E(#1,#2,#3,#4):: RETURN

```

Do you need some really REAL BIG letters on the screen? Just type your letter at the beep.

```

100 DIM X$(96):: CALL CLEAR
:: FOR CH=33 TO 89 STEP 8 ::
FOR A=0 TO 7 !REAL BIG LETT
ERS by Jim Peterson
110 CALL CHARPAT(CH+A,X$(CH+
A-32)):: CALL CHAR(CH+A,"0")
:: L=L&RPT$(CHR$(CH+A),3)
: NEXT A
120 FOR T=1 TO 3 :: R=R+1 ::
DISPLAY AT(R,4):L$ :: NEXT
T :: L$="" :: NEXT CH
130 CH$(1)=RPT$( "0",16):: CH
$(2)=RPT$( "F",16)
140 CALL SOUND(100,500,0)
150 CALL KEY(0,K,S):: IF S=
0 OR K>96 THEN 150
160 CALL HEX_BIN(X$(CH-32),B
$):: FOR J=9 TO 64 :: CALL C
HAR(J+32,CH$(VAL(SEE$(B$,J,1
))+1))
170 NEXT J :: GOTO 140
180 SUB HEX_BIN(H$,B$):: HX$
="0123456789ABCDEF" :: BN$="
0000X0001X0010X0011X0100X010
1X0110X0111X1000X1001X1010X1
011X1100X1101X1110X1111"
190 FOR J=LEN(H$)TO 1 STEP -
1 :: X%=SEE$(H$,J,1)
200 X=POS(HX$,X$,1)-1 :: T$=
SEE$(BN$,X%+1,4)&T$ :: NEXT
J :: B$=T$ :: T$="" :: SUBE
ND

```

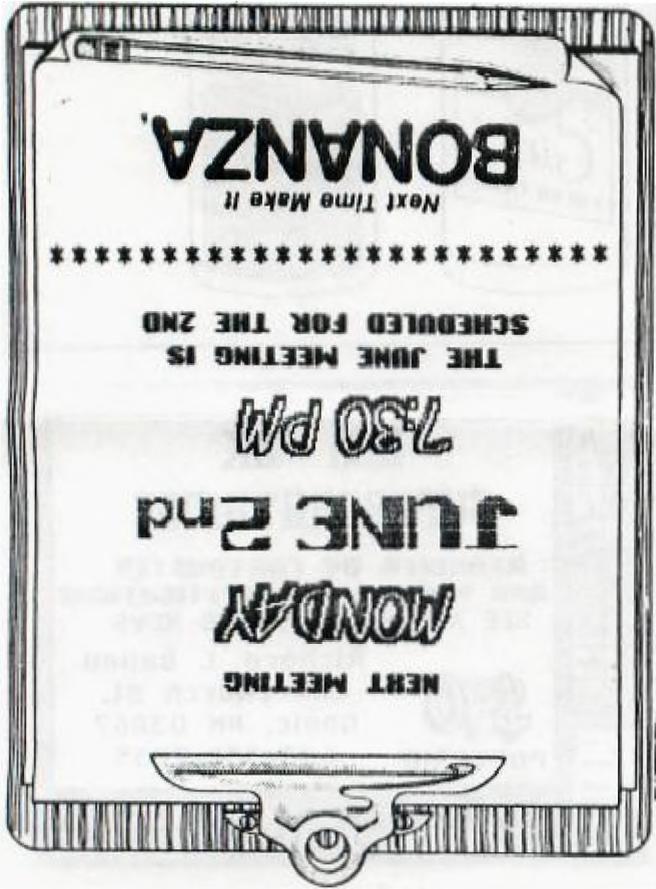
Thought for the day. The excuses for piracy are exactly the same as the excuses for shoplifting, but you probably won't have to tell them to the judge - in this world, at least.

And that is almost

MEMORY FULL

Jim Peterson

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