CoCo ~ 123

VOLUME XIII, NUMBER VII

A GLENSIDE PUBLICATION SINCE 1985

AUGUST / SEPTEMBER 1993 ISSUE

Glenside Color Computer Club

From the President's Platen

by Tony Podraza

It would seem that the weather in the Chicagoland area has been emulating the climate in the CoCo/OS9 community....hot and muggy! With the pre-emptive resignation of Jim Destafano as President of the OS9 User's Group (US), only 4 short months after his accession to the office, and only two months after the Second Annual "Last" Chicago CoCoFEST!, I can only imagine that the Community in the States and on the continent would feel a little like a lost child; an orphan, if you will; or a body whose head has decided to go off on its own because the body wanted to be nourished and all that the head wanted to do was think; not take the time to breathe and eat. In that type of situation, I submit, not only will the body be uncomfortable (an understatement!), but the head will have lost all credibility with the body in the future. If it were possible, the body would choose that which it could in order to survive until it could get back on its feet, again, and be very cautious as to its original head in the future. For those of you who are members, up, correction, were members of the OS9 User's Group (US), hang in there...I have a premonition that, contrary to written reports, there IS enough interest in the continuance of the organization by certain trustworthy parties, to warrant the reorganization of the Group and your continued participation in the future. NEVER allow yourself to be swayed by the statements of just ONE person. Check for objective evidence, yourself. And be careful!!! ANYTHING CAN BE DOCUMENTED! Figures lie and liars figure. For the most part, I perceive that the OS9 Community is an eclectic group of HOBBYISTS, as far as the CoCo is concerned. With that in mind, any organization that genuinely attempts to assist the hobbyist should be supported by those that need the assistance, and who will, in their turn, assist others through that group. Now I know that sounds like I'm beating Glenside's own drum, and I don't want to give the impression that Glenside should be supported by everyone who needs help; however I DO want it to give the impression that if you have a local user's group that can support you and that you can support, than do it! If not, remember, you and one other person make a user's group. "If you build it, they will come." If there is not a local group, then by all means, find a national group and support it, and vice versa. You'll find information regarding other national groups and publications elsewhere in your issues of the CoCo~123 from time to time. Check

CONTINUED ON PAGE 3

INSIDE THIS ISSUE

From the President's Platen	1
CoCo~123 Information	2
CoCo~123 Contributions	2
Future Meeting Dates	2
Contributors To This Issue	2
July Meeting Review	3
The 'Rocket'	4
Ethics For BBS Users	5
The CoCo Trader	6
Keep Me Dry	6
Basic Programming	7
Directions:	Back

CoCo~$I_2$3 Information

The Glenside Color Computer Club of Illinois is a not-for-profit organization whose members share an interest in the Tandy Color Computer ®. The CoCo~$I_2$3 is the official newsletter of the Glenside Color Computer Club. The Glenside Color Computer Club of Illinois has no affiliation with Radio Shack ® and/or the Tandy Corporation ®. The opinions expressed by the authors of articles contained within this newsletter do not necessarily reflect the opinions of the Editor, the Executive Officers or the actual Club membership.
We are committed to publishing a minimum of four issues and a maximum of twelve issues per calendar year. For an annual fee of $12.00 you can become a GCCC member with full membership privileges. Send your dues to:

GEORGE SCHNEEWEISS
RR #2 Box 67
Forrest, IL. 61741-9629

Here is the list of 1992 Executive Officers and how to contact them. The club has four strong SIGS, Tandy Color Computer 1, 2, 3 and OS-9. If you have questions concerning these computers or OS-9 call one of the officers. Area code C=312, S=708,F=815.

POSITION	NAME	PHONE	PRIMARY FUNCTION
President	Tony Podraza	S428-3576	The buck stops here...
Vice-President	Carl Boll	C735-6087	Meeting Planning, etc.
Vice-President	Gene Brooks	S897-9023	" "
Secretary Reporting	Howard Luckey	S747-0117	Records and
Treasurer Purchasing	Geo Schneewiess	F832-5571	Dues and
Editor coordinator	David Barnes	S587-9820	Newsletter
VP Telecom	David Barnes	S587-9820	Club BBS SysOp
Printer	Dennis Devitt	S629-2016	Newsletter Exchange
Advertising	Bob Swoger	S576-8068	Newsletter Ads

CoCo~$I_2$3 CONTRIBUTIONS

If you would like to contribute an article to the newsletter, upload a file to the Glenside CoCoRama BBS with an extension of '.NEWS'. If you have an AD for the newsletter UPLOAD a file with the extension of '.ADS". If you have NEWS to POST about your group, please use the message base. These files are gathered by the BBS computer and downloaded to the Editor. If you need help contact the SYSOP by E-MAIL, mail, in person, or by phone:

DAVE BARNES
P.O. Box 281
LAKE VILLA, IL. 60046

It is preferred that you call: VOICE 708/587-9820 or BBS 708/587-9837
On DELPHI - DAVIDBARNES On CIS - 73357,1324

Articles for the CoCo~$I_2$3 will also be accepted on diskette in ASCII form and UNFORMATTED only in the following formats:

RS-DOS 5 1/4"-35 SSDD/DSDD 5 1/4"-40 SSDD/DSDD
OS-9 5 1/4"-35 SSDD/DSDD 5 1/4"-40 SSDD/DSDD 3.5"-SSDD/DSDD
MS-DOS 5 1/4"-40 SSDD/DSDD 3.5"-SSDD/DSDD 5 1/4"-1.2 Meg

Submission deadline for the CoCo~$I_2$3 is the 20th of each month. Articles submitted after the deadline will appear in the next issue.

CoCo~$I_2$3 NEWSLETTER EXCHANGE

The Glenside Color Computer Club of Illinois is pleased to exchange newsletters with other Color Computer user groups at no charge. Send your newsletter to:

DENNIS DEVITT
21 W 144 CANARY ROAD
LOMBARD, IL. 60148

If you desire to reprint any articles that appear here, please provide credit to the author and this newsletter.
We encourage your user group to copy this newsletter and distribute it at your regular meetings to your members free of any charge as we believe that this will encourage better meeting attendance. If you are a user group that feels as we do, please let us know in your newsletter so that we might do this for our members and keep our attendance up.

GLENSIDE CLUB MEETINGS

The Glenside Color Computer Club meets on the second Thursday of each month, from 7:30 - 9:30 PM, at the Glendale Heights Public Library. Further info can be obtained from Tony Podraza at home 708-428-3576.

FUTURE MEETING DATES:

August 12
September 9
A social get-together always occurs afterward at the Springdale Restaurant.

CONTRIBUTORS TO THIS ISSUE

· Tony Podraza
· Howard Luckey · Chris Burke
· Tom Kowalski · Steve King
· David Barnes

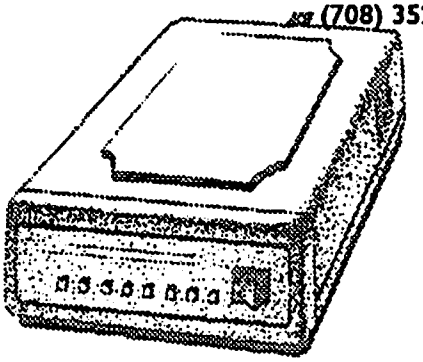
EDITOR: David Barnes

DESIGN, LAYOUT AND GRAPHICS:
BARSoft Publishing

Copyright © 1993 Glenside Color Computer Club of Illinois
and
BARSoft Publishing

Glenside CoCoRama BBS
(708) 587-9837
9600 BAUD

SandV BBS
(708) 352-0948
9600 BAUD



Glenside's Cup of CoCo
2400 BAUD
(708) 428-0436

Chi-Coco BBS
(312) 735-3355
14,400 BAUD

These are YOUR club BBS's... Please support them !!!

From The President's Platen

Continued From Page 1

them out and see what they have to offer.

Don't forget the annual picnic. See last month's notice for details.

We still have tee-shirts available for $8.00. Large size only, sorry. Contact George Schneewiess to order them.

There have been a couple of inquiries regarding the special pricing on the Hitachi 63B09E that the club had available. Are there any more interested parties? If we purchase the chips in mass quantities, we can get the better price, but we would like to have some idea of how many people want them. Call me..the number's on page two. Leave your name, phone number and how many chips you want. I'll let you know when we buy them, by phone, and how much they will be. If we can't get a good price, I'll let you know that, too.

Until we can meet again, I bid you peace.

July Meeting Review

By Howard Luckey

The meeting was called to order a 7:45PM.

Two color printers were on the table in front. One was a Tandy CGP-220 and the other was an IBM color jet printer 3252, model 2. Except for the CGP-220 having a serial and a parallel port while the IBM has only a parallel one, and the IBM having 2 Meg of memory and the Tandy doesn't they were the same printer.

Bob Swoger announced that he had a 13" composite video monitor to give out to any one who wanted to take it.

By now the Pacific NorthWest CoCo Fest would be history. The report is that they had a good turnout. There may be a more complete report later. Mugs and T-shirts are available for ordering. Chris Burke's ROCKET, the hardware project to add the 68000 chip to the CoCo3, was presented at the fest. The project is still on and probably will happen.

A copy of the 6309 book from Burke & Burke which explains the use and the programming of the 6309 chip, was shown for members to look at. The price is $25.00. Probably a good book to have if you want to get the most out of this chip.

The annual picnic was re-announced and plans for it were discussed. It is scheduled for Saturday, August 14th (or a rain date on Sunday, August 15th). All members, their friends, and other CoCo and OS-9 enthusiasts are invited and encouraged to attend and have a good time.

Eddie Kuns explain what is happening with the national OS-9 Users Group. The president of the group, after volunteering to run the group a few months ago, has unilaterally decided to resign and disband the club. Many of the members are very upset about this, and some of the members of the Chicago OS-9 Users Group, lead by Carl Boll, have stepped forward to take action to keep the UG going. More news later. Bob Swoger made a motion to the effect that the local Chicago OS-9 Users Group should send a letter to the stating that any negativism is harmful and that if the president of the national group is negative he should step aside. The motion was seconded but it was mentioned that a process has already started to keep the national group going.

Bob also asked if there were any publications stepping forward to replace the defunct "The Rainbow." There are at least three that are being published or about to be published: 1) Uptime, 2) The Noname Magazine which if successful will have a name, and 3) "the world of 68' micros that should be coming out in July. Bob suggested that each of us do what we can to support these publications by either buying, or writing articles or both.

There are three copies of "The OS-9 Guru" on consignment to the club. They can be purchased for $40.00.

There was a copy of the latest PCM magazine, and in it Lonny Falk welcomed The Rainbow readers. The club is considering running an ad in the magazine thanking CoCo vendors and others for their support over the years. The Atlanta CoCo Fest is definitely on for this year, October 2 and 3.

Bob Swoger mentioned that the Sinclair computer company is still alive and the company has come out with a new laptop. Bob said it has a lot of capabilities and very low price. A video of it will be shown at the picnic. A member mentioned having a problem accessing data on the Disk of the Month disk. Carl Boll wasn't present to comment about the problem.

THE DEMO

Tony demoed the Disk Drive Analyzer a product from J&M, a CoCo vendor from the past, which was donated to the club by Dave Barnes. This is a very good product if you want to test and adjust your floppy drives. Once the software is up and running you insert the Digital Diagnostic Disk, a precision disk, and put your drive through a variety of tests. According to the menu you can choose: 1) clamping test, 2) quick test, a test that runs through the complete set of tests and indicates passed, marginal, or failed, 3) spindle speed test, 4) index hole timing test, 5) alignment sensitivity test, 6) head alignment test, 7) directional seek test, 8) head rotation test, A) analog alignment aid, and C) change test parameters. Tony ran a series of the tests on a drive he had, and showed us the indication of successful or failed test. The manual that comes with the package explains the purpose of the tests and how to read and interpret the info given on the screen. At the moment I don't know if the package is still available or what would be necessary, if anything, to run it on a CoCo3. After the demo a bunch of members gathered around the table while Gene Brooks used the Analyzer to make adjustments on a drive.

The 'Rocket'

By Chris Burke

Several people have posted messages to the list requesting information about a CoCo 3 accessory called "The Rocket". I've tried to keep this note strictly informational...

The Rocket is a proposed 14MHz 68000 processor upgrade with OSK for the CoCo 3. It plugs into the 40-pin processor socket, and is mechanically designed for NTSC CoCos (will probably fit a PAL CoCo, but not sure yet). Right now, it's in the early prototype stages - one hand-wired prototype has been built, and Burke & Burke is debugging the hardware and developing software for this prototype. If there's enough interest from CoCo 3 owners (roughly 100 advance orders), The Rocket with OSK and on-board memory would sell for just under $200.

A couple of compromises and breakthroughs have gone into the design/packaging of The Rocket.

Breakthroughs:

Motorola's 68306 integrated CPU. This is a full 16-bit data, 32-bit address 68000, with a 16.7 MHz maximum clock and on-board logic for interrupt vectoring, interrupt priority encoding, device selects, DTACK generation, and all of those otherwise troublesome 68000 support functions. The 68306 also includes a fully integrated DRAM controller which can multiplex any number of address bits from 16 (256K DRAMs) to 30(giant, non-existent DRAMs). The 68306 also includes a DUART (dual serial port) and 16 parallel I/O lines on-chip. This is a 132-pin IC with pins 1/40" apart!

Burke & Burke's K16 Bus synchronization circuit. This circuit allows the 68000 to synchronize to the CoCo's 8-bit 2 MHz bus in realtime, to accomplish 8-bit, 16-bit, and 32-bit transfers. To the rest of the CoCo hardware, The Rocket looks just like a 6809E microprocessor. The entire CoCo hardware looks like a 64K block of memory-mapped I/O to The Rocket's 68306. Thus, The Rocket can access any CoCo memory location or peripheral, including the MMU and graphics controller, joysticks, keyboard, and anything connected to the Multi-PAK, through its 64K "window".

Microware's Industrial OSK. This version of OSK is much less expensive than a full Professional OSK setup. It's missing the development tools, a windowing system, the RBF disk manager, operating system manuals, and some utility programs. The Rocket adds back a compatible disk manager, a windowing system based on OS9 Level 2 windows, some of the missing utilities, and minimal development tools (editor / ASM-like assembler / reduced manual).

Fast 6309 emulator - software emulation of the 6809 / 6309 under OSK. Since we don't have to emulate the CoCo hardware too, this emulator is expected to run faster than others.

Compromises:

14 MHz Vs. 16.7 MHz clock speed - avoids memory wait-states with low-cost 100ns memory.

No DMA or coprocessor capability - to reduce cost.

One SIMM bank - sockets for two identical SIMMs, giving on-board RAM capacity of 512K, 2MB, or 8MB. The base price includes no memory; a version populated with 2MB would cost $100 more.

Limited device drivers included - drivers for RS-232 pak, halt-floppy, Burke & Burke hard disk, DISTO SCSI hard disk, SC2 no-halt floppy, keyboard/monitor.

Limited expansion - No expansion bus. The on-chip serial ports and parallel I/O are brought out unbuffered to an expansion connector, along with power, ground, and reset. The serial port baud rate oscillator crystal is not populated.

No C Compiler included - The OSK version of GCC (not included) should work, but youUll need RMA / RLINK or equivalent (not included). We're also investigating a stand-alone RsharewareS C compiler, but there's nothing to report on this yet.

Other Issues:

Several people asked whether The Rocket can be used with 1MB and 2MB CoCo upgrade boards. Electrically, yes. Mechanically it is rather tricky. You pretty much have to install one on top of the other, and I can't recommend a specific procedure. Keep in mind that with The Rocket, this extra memory is accessed only through the 64K window - its main uses would be for a large RAM disk and for graphics screens. The Rocket has its own main memory on-board.

The board also has a 6809E / 6309E socket, and a jumper which lets either the 68000 or the 6809 run after RESET. This allows a CoCo with The Rocket installed to operate as a standard CoCo 3 when the jumper is installed.

This is a full 16-bit processor. A very early prototype shown at the Chicago CoCoFest used an 8/16-bit processor, the 68008, at 8 MHz. This very early prototype did not use any actual Rocket circuits (even the bus synchronizer was different, a K8 instead of a K16), but it demonstrated the concept of a 68000 installed in the 6809E socket. The actual Rocket is nearly twice as fast as, and has twice the memory width of, the 68008, for essentially 4X performance. It also has full 32-bit addressing vs. the 1MB address limit of the 68008.

Current status:

A lot of software must be written, and a lot of deals must be made, before The Rocket is a "product".

We're debugging the prototype - works well so far. Expect a live demo at the Port Orchard CoCoFest (25-26 June)

* About 30 advance orders / "letters of intent to purchase" have been received.

* Deadline for advance orders has been extended from June 30 1993 to July 31, 1993. The deadline is a courtesy to people who have placed advance orders, so that we don't tie up their money forever. If we aren't real close to 100 orders by 31 July 1993, anybody who "wants out" gets a full refund.

Ethics For BBS Users

By Steve King

The following are a few points of general BBS etiquette. If you wish to maintain your welcome on whatever system you happen to call, it would be to your advantage to observe these few rules. (Sysops - feel free to download this & display it on your BBS)

1. Don't habitually hang up on a system. Every Sysop is aware that accidental disconnections happen once in a while but we do tend to get annoyed with people who hang up every single time they call because they are either too lazy to terminate properly or they're under the mistaken assumption that the 10 seconds they save online is going to significantly alter their phone bill. "Call Waiting" is not an acceptable excuse for long. If you have it and intend to use the line to call BBS systems, you should either have it disconnected or find some other way to circumvent it.

2. Don't do dumb things like leave yourself a message that says "Just testing to see if this thing works". Where do you think all those other messages came from if it didn't work? Also, don't leave whiny messages that say "Please leave me a message ". If ever there was a person to ignore, it's the one who begs someone to leave him a message. If you want to get messages, start by reading the ones that are already online and getting involved in the conversations that exist.

3. Don't use the local equivalent of a chat command unless you really have some clear cut notion of what you want to say and why. Almost any Sysop is more than happy to answer questions or offer help concerning his system. Unfortunately, because about 85% of the people who call want to chat and about 99% of those people have absolutely nothing to say besides "How old are you?" or something equally irrelevant, fewer Sysops even bother answering their pagers every day.

4. When you are offered a place to leave comments when exiting a system, don't try to use this area to ask the Sysop questions. It is very rude to the other callers to expect the Sysop to carry on a half visible conversation with someone. If you have a question or statement to make and expect the Sysop to respond to it, it should always be made in the section where all the other messages are kept. This allows the Sysop to help many people with the same problem with the least amount of effort on his part.

5. Before you log on with your favorite pseudonym, make sure that handles are allowed. Most Sysops don't want people using handles on the system. There is not enough room for them, they get silly games of one-upmanship started, it is much nicer to deal with a person on a personal basis, and last but not least, everyone should be willing to take full responsibility for his actions or comments instead of slinging mud from behind a phony name.

6. Take the time to log on properly. There is no such place as RIV, HB, ANA or any of a thousand other abbreviations people use instead of their proper city. You may think that everyone knows what RIV is supposed to mean, but every BBS has people calling from all around the country and I assure you that someone from Podunk Iowa has no idea what you're talking about.

7. Don't go out of your way to make rude observations like "Gee, this system is slow". Every BBS is a tradeoff of features. You can generally assume that if someone is running a particular brand of software, that he is either happy with it or he'll decide to find another system he likes better. It does nobody any good when you make comments about something that you perceive to be a flaw when it is running the way the Sysop wants it to. Constructive criticism is somewhat more welcome. If you have an alternative method that seems to make good sense then run it up the flagpole.

8. When leaving messages, stop and ask yourself whether it is necessary to make it private. Unless there is some particular reason that everyone shouldn't know what you're saying, don't make it private. We don't call them PUBLIC bulletin boards for nothing, folks. It's very irritating to other callers when there are huge blank spots in the messages that they can't read and it stifles interaction between callers.

9. If your favorite BBS has a time limit, observe it. If it doesn't, set a limit for yourself and abide by it instead. Don't tie up a system until it finally kicks you off and then call back with another name. This same rule applies to downloading or playing games. Only one person at a time can be logged on to a BBS and it isn't fair to everyone else if you overstay your welcome. Remember, a BBS is best when it can be left wide open. If you try and cheat the rules you just hurt everybody by forcing the Sysop to adopt more stringent policies. I can't count the number of systems that are now locked tighter than a drum because of people who cheat and abuse.

10. Don't call a BBS just to look at the list of other BBS numbers. Most especially don't call a system as a new user and run right to the other numbers list. There is probably very little that's more annoying to any Sysop than to have his board completely passed over by you on your way to another board.

11. Have the common courtesy to pay attention to what passes in front of your face. When a BBS displays your name and asks "Is this ?", don't say yes when you can see perfectly well that it is misspelled. Also, don't start asking questions about simple operation of a system until you have thoroughly read all of the instructions that are available to you. I assure you that it isn't any fun to answer a question for the thousandth time when the answer is prominently displayed in the system bulletins or instructions. Use some common sense when you ask your questions. The person who said "There's no such thing as a stupid question" obviously never operated a BBS.

12. If by some chance you should encounter an error while you are online (Heaven forbid!), ALWAYS take the time to leave the Sysop a message describing the circumstances. Don't just say "There was an error". That is not helpful in the least. Chances are that he knows there was an error. What he needs to know is what you were doing when the error occurred so that he can have some chance of finding and correcting it. If the error happened after you input something, tell him what it was. Remember that a BBS can't improve unless you're willing to help.

13. Don't be personally abusive. It doesn't matter whether you like a Sysop or think he's a jerk. The fact remains that he has a large investment in making his computer available, usually out of the goodness of his heart. If you don't like a Sysop or his system, just remember that you can change the channel any time you want. Calling a Sysop names or making uninformed comments about his lifestyle only shows you for the child you really are.

14. Keep firmly in mind that you are a guest on any BBS you happen to call. Don't think of logging on as one of your basic human rights. Every person that has ever put a computer system online for the use of other people has spent a lot of time and money to do so. While he doesn't expect nonstop pats on the back, it seems reasonable that he should at least be able to expect fair treatment from his callers. This includes following any of the rules for system use he has laid out without grumping about it. Every Sysop has his own idea of how he wants his system to be run. It is really none of your business why he wants to run it the way he does. Your business is to either abide by what he says, or call some other BBS where you feel that you can obey the rules.

The CoCo Trader

The COCO TRADER is a news letter for buyers, sellers, and traders of any COLOR COMPUTER related items. For $2.50 you can list any items you have for sale or trade, and any items that you may be looking for. You may use up to 1/8 of a page per listing. It is $2.00 more for each additional 1/8 of a page. This size type. Please include your name, address, and also your phone number, which will not be listed unless you ask for it to be. Since Tandy has dropped the COLOR COMPUTER, and since the demise of The Rainbow, and so many software dealers, it is hard to find a lot of the items that you may be looking for. So the COCO TRADER will be a place to find the them.

A lot of us have bought out COCO items at our local Radio Shack, but we don't know where to trade them for what we really want. The COCO TRADER will give you a place to do it. For $2.50 your ad will be listed for as long as you like, until you call, or write and tell us to take it out. If you wish to change it there will be another $2.50 charge.

For now the COCO TRADER will be bi-monthly. If the response is great enough, we will make it monthly.

There is a $3.00 subscription rate for a six month subscription. If at such time the COCO TRADER becomes a monthly issue, the renewals after that time will become $6.00 for SIX months, or $10.00 for a year (12 issues).

Something else we are going to do to get more CoCo-nuts to list something in the COCO-TRADER, is to have a drawing from the names of the first 30 payed ads that we receive. The winner will receive a R.S. cassette recorder, and over 25 original Rainbow on Tape cassettes, along with some other CoCo items. There will also be a drawing from the names of the first 30 payed subscriptions. The winner will receive at least 15 original Rainbow on Tape cassettes, and about 20 other original programs on tape, including Chromasette, T&D, and others along with some other CoCo items.

So let us list your CoCo items that you no longer have a use for, and in so doing maybe we will give you some different ones back.

Send ads, and, or subscriptions to:

James Sternett
3000 Woodland Hills Dr. Apt. 14
Ann Arbor, MI. 48108

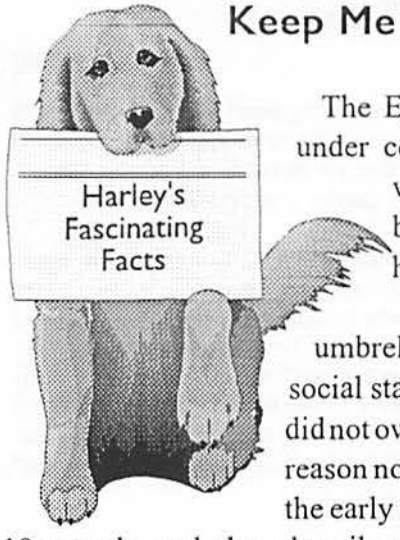
Send check, or money order, but for now , please make it out to JAMES STERNETT.

The first issue was to be out in June, but will be out in JULY,93. For more info, PLEASE call, or write to me.

(313)-677-2418, AFTER 5:00pm please.

The COCO TRADER will not be involved in, or responsible for any transactions between buyers, and sellers. It is only a means for others to see what is available from other private parties. NO DEALERS PLEASE.

Keep Me Dry



The Egyptian pharaohs set under ceremonial umbrellas, which were said to bring them power from heaven.

Carrying fan umbrellas showed a lack of social status. It suggested you did not own a carriage. Another reason not to carry one was that the early models weighed up to 10 pounds, and also, the oil-soaked cotton versions weren't very waterproof.

In Europe, umbrellas were used only be women until some 300 years ago. Men wore hats and got drenched.

OS-9
USER'S GROUP
6158 WEST 63 STREET
SUITE 109
CHICAGO, ILLINOIS 60638

ISN'T IT TIME YOU JOINED?

WE'RE STILL GOING STRONG!!!

FOR MORE INFORMATION PLEASE WRITE TO THE ABOVE ADDRESS.

Basic Programming

By Tom Kowalski

This represents the completion of an article which appeared in the April '93 issue of the CoCo~123. We apologize for the delay in printing.

```
2610 PRINT:PRINT '' TYPE STYLE FAMILY''
2620 PRINT:PRINT ''    0 - ROMAN''
2630 PRINT ''     1 - SANS SERIF''
2640 PRINT:PRINT:PRINT:PRINT ''ENTER
NUMBER'' 2650 INPUT TS$
2660 IF TS$='''' THEN GOTO 2640
2670 IF TS$=''0" THEN X(1)=0: GOTO 3150
2680 IF TS$=''1" THEN X(1)=1: GOTO 3150
ELSE GOTO 2690 2690 SOUND 130,5: SOUND
110,5: GOTO 2650
2900 CLS5
2910 PRINT:PRINT ''FULL TYPE STYLE
FAMILY''
2920 PRINT:PRINT ''     0 - ROMAN''
2930 PRINT ''           1 - SANS SERIF''
2940 PRINT ''           2 - COURIER''
2950 PRINT ''           3 - PRESTIGE''
2960 PRINT ''           4 - SCRIPT''
2970 PRINT ''           5 - OCR-B''
2980 PRINT ''           6 - OCR-A''
2990 PRINT ''           7 - ORATOR''
3000 PRINT ''           8 - ORATOR-S''
3010 PRINT ''      ENTER OPTION NUMBER''
3020 FTS$=INKEY$
3030 IF FTS$='''' THEN GOTO 3020
3040 IF FTS$=''0" THEN X(1)=0: GOTO 3150
3050 IF FTS$=''1" THEN X(1)=1:GOTO 3150
3060 IF FTS$=''2" THEN X(1)=2: GOTO 4050
3070 IF FTS$=''3" THEN X(1)=3: GOTO 4050
3080 IF FTS$=''4" THEN X(1)=4: GOTO 4050
3090 IF FTS$=''5" THEN X(1)=5: GOTO 4050
3100 IF FTS$=''6" THEN X(1)=6: GOTO 4050
3110 IF FTS$=''7" THEN X(1)=7: GOTO 4050
3120 IF FTS$=''8" THEN X(1)=8: GOTO 4050
ELSE GOTO 3130 3130 SOUND 135,10: SOUND
100,8: GOTO 3020
3150 '*** PRINT STYLE ***
3160 CLS5
3170 PRINT:PRINT:PRINT ''      PRINT
STYLE''
3180 PRINT:PRINT:PRINT
3190 PRINT ''   D - DRAFT''
3200 PRINT:PRINT ''   L - LETTER QUALITY''
3210 PRINT:PRINT:PRINT ''      ENTER
LETTER'' 3220 PS$=INKEY$
3230 IF PS$='''' THEN GOTO 3270
3240 IF PS$=''D'' THEN GOTO 3270
3250 IF PS$=''L'' THEN GOTO 3280 ELSE GOTO
3260 3260 SOUND 90,10: GOTO 3220
3270 X(2)=0: GOTO 4000
3280 X(2)=1: GOTO 4000
4000 PRINT#-2,CHR$(27)CHR$(120)CHR$(X(2))
4010 GOTO 5000
4050 PRINT#-2,CHR$(27)CHR$(107)CHR$(X(1))
4060 GOTO 5000
5000 CLS5
5010 PRINT ''PRINTING''
5020 PRINT#-2
5040 PRINT#-
2,CHR$(27)CHR$(113)CHR$(3);CHR$(27)CHR$(71)
5050 PRINT#-2,TAB(20) CFN$'''S CHORE AND
ALLOWANCE REPORT''
5060 PRINT#-2,TAB(25) ''WEEK BEGINNING
''M$'' /''MD$
5070 PRINT# 2, CHR$(27) CHR$(113)CHR$(0);
CHR$(27) CHR$(116) CHR$(01) CHR$(27)
CHR$(54)
5110 X$=STRING$(15,CHR$(205))
5120 Y$=STRING$(5,CHR$(205))
5130 Z$=STRING$(12,CHR$(205))
5140 BX$=''                    ''
5150 BY$=''      ''
5160 BZ$=''              ''
5170 PRINT# 2, TAB(2) CHR$(201) X$
CHR$(203) Y$ CHR$(203) Y$ CHR$(203) Y$
CHR$(203) Y$ CHR$(203) Y$ CHR$(203) Y$
CHR$(203)Y$ CHR$(203) Y$ CHR$(203) Z$
CHR$(187)
5180 M1$=''   CHORE      ''
5190 M2$='' SUN ''
5200 M3$='' MON ''
5210 M4$='' TUE ''
5220 M5$='' WED ''
5230 M6$='' THU ''
5240 M7$='' FRI ''
5250 M8$='' SAT ''
5260 M9$='' TOTAL AMT. ''
5270 MX$=''$ AMT''
5280 PRINT#-2, TAB(2) CHR$(186) M1$
CHR$(186) MX$ CHR$(186) M2$ CHR$(186) M3$
CHR$(186) M4$ CHR$(186) M5$ CHR$(186) M6$
CHR$(186) M7$ CHR$(186) M8$ CHR$(186) M9$
CHR$(186)
5290 PRINT#-2, TAB(2) CHR$(204) X$
CHR$(206) Y$ CHR$(206) Y$ CHR$(206) Y$
CHR$(206) Y$ CHR$(206) Y$ CHR$(206) Y$
CHR$(206) Y$ CHR$(206) Y$ CHR$(206) Z$
CHR$(185)
5300 R=1
5310 FOR Q=1 TO C
5330 PRINT#-2, TAB(2) CHR$(186) CN$(Q)
TAB(18) CHR$(186) TAB(19) MV$(Q) TAB(24)
CHR$(186) BY$ CHR$(186) BY$ CHR$(186) BY$
CHR$(186) BY$ CHR$(186) BY$ CHR$(186) BY$
CHR$(186) BY$ CHR$(186) BZ$ CHR$(186)
5340 PRINT#-2, TAB(2) CHR$(186) BX$
CHR$(204) Y$ CHR$(206) Y$CHR$(206)Y$
CHR$(206) Y$ CHR$(206) Y$ CHR$(206) Y$
CHR$(206) Y$ CHR$(206) Y$ CHR$(206) Z$
```


CONTINUED ON PAGE 8

Basic Programming

Continued from page 7

```
CHR$(185)
5350 PRINT#-2, TAB(2) CHR$(186) TAB(18)
CHR$(186) TAB(24)CHR$(186)TAB(30)
CHR$(186) TAB(36) CHR$(186) TAB(42)
CHR$(186) TAB(48) CHR$(186) TAB(54)
CHR$(186) TAB(60) CHR$(186)
TAB(66)CHR$(186) TAB(79) CHR$(186)
5360 PRINT#-2, TAB(2) CHR$(186) BX$
CHR$(204) Y$ CHR$(206) Y$ CHR$(206) Y$
CHR$(206) Y$ CHR$(206) Y$ CHR$(206) Y$
CHR$(206) Y$ CHR$(206) Y$ CHR$(206) Z$
CHR$(185)
5370 PRINT#-2, TAB(2) CHR$(186) TAB(18)
CHR$(186) TAB(24) CHR$(186) TAB(30)
CHR$(186) TAB(36) CHR$(186) TAB(42)
CHR$(186) TAB(48) CHR$(186) TAB(54)
CHR$(186) TAB(60) CHR$(186) TAB(66)
CHR$(186) TAB(79) CHR$(186)
5380 IF R=C THEN GOTO 5500
5385 R=R+1
5390 PRINT#-2, TAB(2) CHR$(204) X$
CHR$(206) Y$ CHR$(206) Y$ CHR$(206) Y$
CHR$(206) Y$ CHR$(206) Y$ CHR$(206) Y$
CHR$(206) Y$ CHR$(206) Y$ CHR$(206) Z$
CHR$(185)
5400 NEXT Q
5500 PRINT#-2, TAB(2) CHR$(200) X$
CHR$(202) Y$ CHR$(202) Y$ CHR$(202) Y$
CHR$(206) Y$ CHR$(202) Y$ CHR$(202) Y$
CHR$(202) Y$ CHR$(202) Y$ CHR$(206) Z$
CHR$(185)
5510 MZ$='' TOTAL AMOUNT FOR THE WEEK''
5520 BB$='' BONUS''
5530 PRINT#-2, TAB(36) CHR$(186) MZ$
TAB(66) CHR$(186) TAB(79) CHR$(186)
5540 PRINT#-2, TAB(36) CHR$(200) Y$
CHR$(205) Y$ CHR$(205) Y$ CHR$(203) Y$
CHR$(205) Y$ CHR$(206) Z$ CHR$(185)
5550 PRINT#-2, TAB(54) CHR$(186) BB$
TAB(66) CHR$(186) BZ$ CHR$(186)
5560 PRINT#-2, TAB(54) CHR$(200) Y$
CHR$(205) Y$ CHR$(202) Z$ CHR$(188)
5570 PRINT#-2,CHR$(12)
5600 PRINT:PRINT:PRINT'' PRINT
ANOTHER''
5610 PRINT:PRINT'' CHORE CHART
?'' 5615 PRINT:PRINT ''
YES OR NO'' 5620 LINE INPUT PA$
5630 IF PA$='''' THEN END
5640 IF PA$=''N'' THEN END
5650 IF PA$=''Y'' THEN GOTO 5000
```

If you wish to contribute to the CoCo~123, please read page two for details!!!

Introducing

#GS01-Pensave Graphic System

Disk includes:

Pen and Paint 3-Doodle program
Pensave-Pixel drawing System
Coco Colorbook-Paint and edit
Plus Five Graphic Files

Req: 128k Coco III & Disk Drive
$4.95 PPD. Check or Money Order
MO Residents Add $.23 Sales Tax

Southern Missouri Softworks
HCR 7 Box 218
Doniphan, MO 63935
(314) 255-3722

September 1993

Glenside Color Computer CLub

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4
5	6 *Labor Day* *Labor Day*	7	8	9 *Glenside Color Computer Club Meeting*	10	11
12	13	14	15	16 *Rosh Hashanah* *Rosh Hashanah*	17	18
19	20	21	22 Cook County Color Computer Club Meeting Autumn Equinox Autumn begins	23 *OS-9 Users Group Meeting*	24	25 *Yom Kippur* *Yom Kippur*
26	27	28	29	30		

August

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

October

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

October 1993

Glenside Color Computer CLub

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4	5	6	7	8	9
10	11 *Columbus Day (Observed)*	12	13	14 *Glenside Color Computer Club Meeting*	15	16
17	18	19	20	21	22	23
24	25	26	27 *Cook County Color Computer Club Meeting*	28 *OS-9 Users Group Meeting*	29	30
31 *Daylight Savings* *Halloween*						

September

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

November

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

IT'S ATLANTA TIME AGAIN!!

Announcing the 4th Annual Atlanta CoCoFest

Saturday, October 2 · 10:00 AM-5:00 PM
Sunday, October 3, · 10:00 AM-3:00 PM

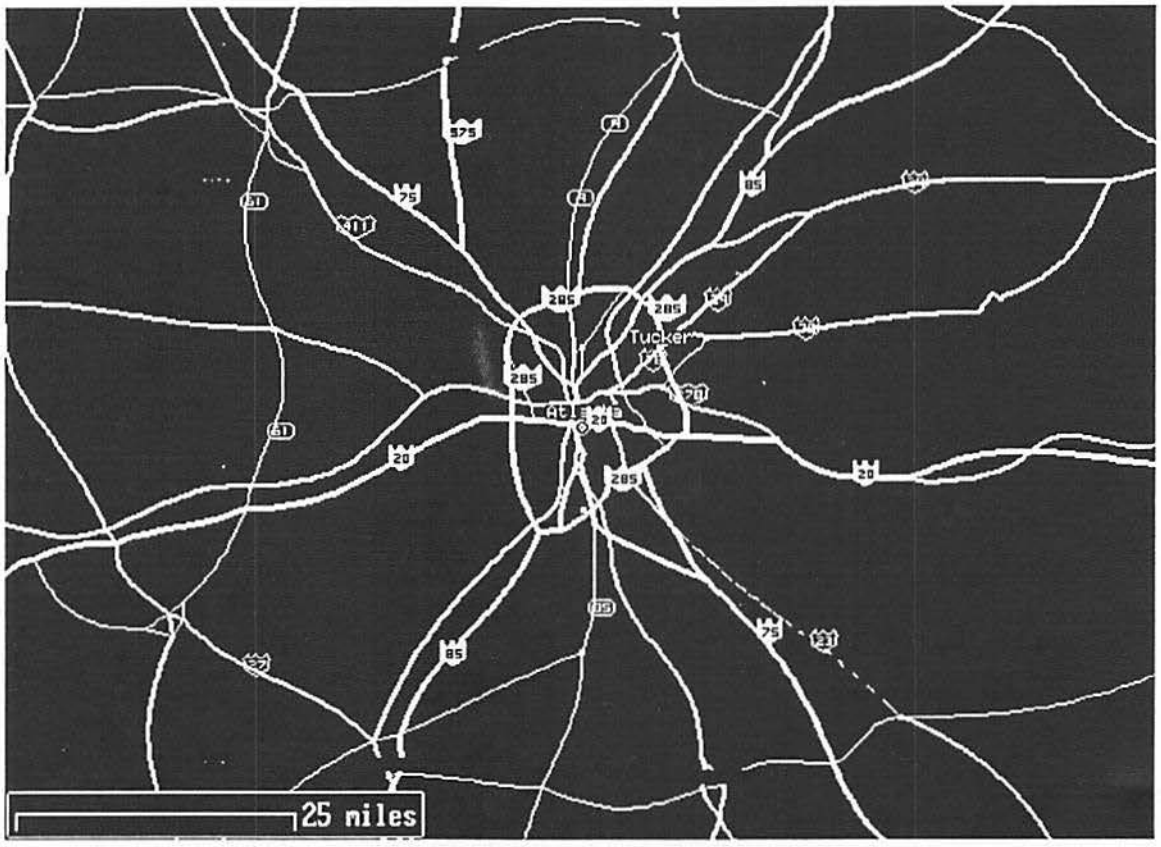
Holiday Inn, Northlake in Tucker, Georgia

Vendor setup: Fri. Oct. 1, 6:00 PM-11:00 PM Sat. Oct. 2, 8:30 AM-9:45 AM

Admission: $5.00 (Whole Show)

Reservations: Holiday Inn, Northlake 1 (800) 465-4329 or 1 (404) 938-1026

In case someone needs directions to get to the Northlake Holiday Inn, they are as follows: Looking at a map of Atlanta, split the city into quarters using I-75 and I-20. Exit 28 off of I-285 (LaVista Road) will be in the North East sector (top right). Exit to the West (left... going back into the city). Get in the right lane, as the entrance to the Holiday Inn is less than 1/4 mile on the right. Watch for the sign... it isn't real hard to see but isn't hard to miss either!



JWT Enterprises

Optimize

Independant program submissions welcome!

Optimize Utility Set 1:

➡ Optimize your floppies and hard drives quickly and easily! ➡ Includes utility to check file and directory fragmentation.
➡ Works alone or with Burke & Burke repack utility. ➡ One stop optimization for any Level 2 OS-9 system.

$29.95; Foreign Postage, add $3.00

Optimize Utility Set 2:

➡ Check and correct any disk's file and directory structures without any technical mumbo-jumbo.
➡ Run periodically to maintain the integrity of your disks as well as the reliability of your data.
➡ Especially useful before optimizing your disks.

$19.95; Foreign Postage, add $3.00

Optimize Utility Set Pac:

➡ Get both packages together and save!

$39.95; Foreign Postage, add $4.00

UpTime

UpTime:
In each issue:

A monthly magazine for CoCo's and OSK machines.

- Find out about new products and upgrades for your favorite computers.
- Learn about what new technical breakthroughs are on the horizon.
- Discover what programs really can do and what they cannot.
- Published monthly in newsletter format.

One Year Subscription, two installments of $7.50;
Canadian Orders, two installments of $9.00; Foreign Orders, 2 X $11.00
Can also be paid in one installment

Back-Issues:

From September 1992. Limited supplies.
$1.50 each; Foreign Orders, add $1.25 each
Bulk orders of six or more, $1.25 each; Foreign Orders add $1.00 each

NINE TIMES

Nine-Times:
In each issue:

The bi-monthly disk magazine for OS-9 Level 2.

- Helpful and useful programs
- C and Basic09 programming examples
- Hints, Help columns, and informative articles
- All graphic/joystick interface
- Can be used with a hard disk or ram disk

One Year Subscription, $34.95;
Canadian Orders, add $1.00; Foreign Orders, add $8.00

Back-Issues:

From May 1989. Write for back issue contents.
$7.00 each; Foreign Orders, add $2.00 each
Bulk orders of six or more, $5.00 each; Foreign Orders, add $1.50 each

Magazine Source:

Full Basic09 code and documentation for the presentation shell used with Nine-Times.
$25.95; Foreign Orders, add $5.00

Technical Assistance & Inquiries: (216)-758-7694

JWT Enterprises
5755 Lockwood Blvd.
Youngstown, OH 44512

RAINBOW CLASSIFIED SECTION

Foreign postage excludes U.S. Territories and Canada. These products for OS-9 Level 2 on the CoCo 3. Sorry, no C.O.D.'s or credit cards; Foreign & Canadian orders, *please* use U.S. money orders. U.S. checks, allow 4 weeks for receipt of order. Ohio residents, please add 6% sales tax.

Copyright (C) 1993

OS-9 is a trademark of Microware Systems Corp. and Motorola, Inc.

CoNect

Used and Surplus

Atari Joystick Adaptor	$5.95	Color Mouse	$12.95
CoCo Cheap Sticks (pair)	$3.95	Speach/Sound Pak	$24.95

Other hardware is available in limited quantities

Software:

Stock varies, but these titles were in that last cataletter!
AlphabetZoo, ChildPace, CoCoChecker, CoCoMax3, Color Profile, Dallas Quest, EDTASM+, Elite Word, EZBase, FastDup, FlightSim, GwanaBwana, Graphicom, Handsoff, Investograph, KidWriter Max10, OneonOne, Pitfall2, Pitstop2, RadioBall, Rocky's Boots, Sand of Egypt, Shamus, Spectaculator Telewriter 64, War Game Designer, Arkanoid, Castle Tharrograd, Chess, ColorFile2, Diagnostics Downland, Dungeons of Daggorath, Football2, RadWarrior, Rampage, Shanghai, Springster, Tetris Thexder, Bedlam, Colormath, Pooyan, Pyramid, RaakiTu, Basic09, C Compiler, Cave Walker CoCoartist, DeskMate, DeskMate3, Developement System, DL Logo, Donald Ducks Playground, DynaCalc, Flight Simulator2, Home Publisher, Interbank Incident, King's Quest 3 Koronis Rift, Mickey's Space Adventure, Micro Illustrator, Microscopic Mission, Multivue, Level1 Level2, Pascal, Patch09, Phantomograph, Profile, Recue on Fractalus, Rogue, RSB, Screen Dump Utility, Sub Battle Simulator, TSEdit, TSSpell, TSWord, Winnie the Pooh, Where in the World is Carmen SanDiego, Wiz/WizPro, Zone Runner, Begginers Guide to Windows, Basic09 Tour Guide Color Computer Assembly Language Programming, MousePad

We'd Like to buy you unneeded CoCo stuff to add to the list.

Prices on used and surplus goods depend mainly on availability. To find out exactly what's in stock, you need a subscription to the 'cataletter'. This part catalog/part newsletter is published bi-monthly, and is availble for the very low price of... nothing! Just get your address to CoNect by any means available.

It is impossible to predict the availability of these items. In general, a single piece won't even make the cataletter- much less a magazine ad. Drop us a line with your needs and we will tag the inventory file- you get first shot!

Please include $4.00 shipping and handling
All orders are shipped Priority Mail. New hardware is warranteed for 90 days

CoNect
449 South 90th Street
Milwaukee, WI 53214
(414) 258-2989 · Delphi: RICKULAND · Internet: rickuland@delphi.com

GRANITE COMPUTER SYSTEMS

ZOOM MODEMS

NEW! 14,400 BPS ZOOM V.32bis/V.42/V.42bis data modems. MNP1-5+LAPM. Error Correction and data compression (much higher effective throughput — as much as (57,600 BPS). Two Year Warranty. **External $339/Internal $299 (+$9 S&H)**

NEW LOWER PRICE! 9600 BPS ZOOM V.32/V.42/V.42bis data modems. MNP1-5+LAPM. Error Correction and data compression (much higher effective throughput — as much as 38400 BPS). Two Year Warranty. **External $299/Internal $279 (+$9 S&H)**

NEW LOWER PRICE! 2400 BPS ZOOM V.42/V.42bis data modems. MNP1-5+LAPM. Error correction and data compression (much higher effective throughput — as much as 9600 BPS). Two Year Warranty. **External $149 (+$9 S&H)**

NEW PRODUCT! 9600 BPS ZOOM Send/Receive Fax modems. Send/Receive text/graphics files from/to your computer/any Fax machine in the world. Full 2400 BPS data modem capabilitiy. Seven Year Warranty. Includes PC or MAC FAX software. **External $139/Internal $129 (+$6 S&H)**

NEW LOWER PRICE! 2400 BPS ZOOM Data modems. Seven Year Warranty **External $85/Internal $75 (+$6 S&H)**

These are all high quality modems made by Zoom Telephonics in the USA. Fully Hayes compatible. Terminal and Windows Fax software available. Cables available. S&H Canada (Air PP and Ins): V.32, V.42/V.42bis $13.00 Send/Receive Fax/Data $9.00

GCS FILE TRANSFER UTILITIES — Version 3.0

The GCS File Transfer Utilities provide a simple and quick method to transfer text/binary files from/to a variety of floppy disk formats.

Commands PC, RS, FLEX disks: Dir, Dump, Read, Write
PC disks: Rename, Delete, Format

Handles most 5.25 and 3.5 formats. Any level sub-directories (PC). Binary files. Use pipes for multiple file transfers. Multi-Vue version can be used under Multi-Vue or as stand alone Shell commands.

Requires OS-9 L2 for COCO 3, L1 for COCO 1 or 2. 2 drives (one can be hard/ramdisk, one floppy 40 T DD DS). Multi-Vue for Multi-Vue version. SDISK3 for COCO3 - SDISK for COCO 1 or 2.

OSK version price		$99.95
Multi-Vue version $54.95	Standard version	$44.95
V3.0 updates (provide disk number)		$25.00/$15.00

D.P. Johnson Software SDISK or SDISK3 $29.95 L1+L2 Utils $75.00
Shipping and handlling — any software $2.50 U.S.A., $3.00 Canada
Orders must be prepaid or COD. VISA/MC accepted. COD is additional.

571 Center Road, Hillsboro, NH 03244 USA
(603) 464-3850

OS-9 is a trademark of Microware Systems Corporation and Motorola, Inc.
MS-DOS is a trademark of Microsoft Corp. FLEX is a ttrademark of TSC, Inc.

EDUCATIONAL PROGRAMS FOR THE TANDY (RADIO SHACK) COLOR COMPUTER 2 & 3
32K DISK OR CASSETTE

A BIBLE ADVENTURE!
An exciting, non-graphic 32K adventure based on the Bible.

BIBLE SCRIPTURES
Quizzes on important Bible Scriptures.

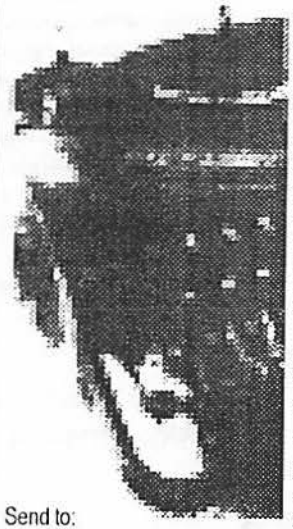
ALSO, other quizzes on the Bible, **PLUS** programs on Vocabulary, Word Usage, Spelling, and Math.

Instructional, Informative, Neat, Colorful, With Block Graphics and Pleasing Sound
Bible Programs $12.00 - Instructional Programs $10.00
Both sets for $19.00

Complete Instructions and Information Included!
To Order, send check or money order to:
Sebastian LaSpada
531 Main Street
Dunkirk, New York 14048
For Information, Call (716) 366-5261

RAINBOW

Educational Fun for the Entire Family!



Type'writer: n. archaic machine for writing by the impression of type letters; one of the reasons home computers were created.

Write-right: n. a "real" word processor for the MM/1 by Joel Mathew Hegberg a complete word processor with "what you see is what you get" display of bold, *italics*, underline, and colors as well as a complete mouse-driven, cut-n-paste, on-screen text ruler, definable margins and tabs, insert/overstrikemodes, text formatting, word-wrap and definable printer codes.

much more: n. what else write-right has to offer for your 100% K-Windows compatible OSK computer.

Trash the typewriter. Purchase Write-Right today for $59.95 (plus $2.50 shipping and handling) direct from Sub-Etha Software. For more informationdownload the demo version ("WR_DEMO.LZH" found on GEnie or Delphi) or call (815) 748-6638.

Send to:

SUB-ETHA SOFTWARE
P.O. Box 152442 - Lufkin, Texas 75915

SBUG

Your source for upgrading your Color Computer hardware and extending your software library

Call us for more information...

SBUG
1251 W. SEPULVEDA, STE 400
TORRANCE, CA 90502
(310)539-9702
AFTER 7:00 PM PST

LOOK FOR US AT THE ATLANTA COCOFEST IN OCTOBER!!!

Announcing

Icon Basic09

The next programming language for OS-9!

Icon Basic09 is a graphical user interface (GUI) to Basic09, which will make programming easier than ever! Icon Basic09 takes an innovative approach by using graphic representations, or icons, to represent statements and keywords for writing Basic09 programs and procedures. Instead of constantly typing while writing a program, the user can simply point & click to choose the desired statement!

Icon Basic09 can also be very useful in studying procedures and programs written by others to learn how they operate. The package contains a full set of icons...or, you may edit or create icons using the included icon editor. Icon Basic09 requires a CoCo-3 with at least 256k, mouse or joystick, and OS-9 lv 2.

$20

Dual hi-res joystick adapter (Tandy/Colorware/Lo-res)	$40
HI & Lo-res joystick adapter	$27
HAWKsoft keyboard extension cable	$25
Domination ("Risk"-like wargame!)	$18
MyDOS full-featured DOS extension	$15

Hawksoft
PO Box 7112
Elgin, IL 60121-7112
(708) 742-3084 eves & ends

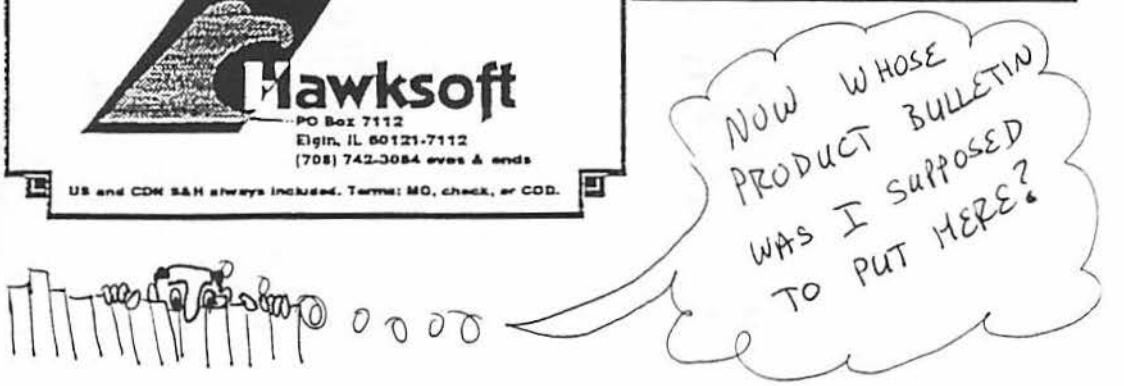
US and CDN S&H always included. Terms: MO, check, or COD.

68XXX COMPUTER PRODUCTS from Peripheral Technology

- a company with a reputation for quality!

PT68K4-16, 1MB	$299.00
PT68K2-10, 1MB	$199.00
ALT86 for PC Compatibility	$199.00
Profess. OS9	$299.00

1480 Terrell Mill Rd. #870
Marietta, GA 30067
404/973-2156



KALA

software
3801 brown bark drive
greensboro, n.c. 27410
u.s.a.
919/294-1558

hours
8:00 a.m. — 7:00 p.m.
technical support
2:00 p.m. — 6:00 p.m.

All orders add $3.00 S/H
C.O.D. orders add an additional $3.00

UltiMusic® Library

Kala Software's UltiMusic® Library is a collection of Classis Rock, Soft Rock, New Age & Jazz arrangements.

TRANSCRIBED SCORES:

The following scores are complete *"Off the Record"* arrangements. Every sound has been caputred to the best of our ability and arranged in such a way that best duplicates the original score.

THE BEATLES - Volume 1	$ 9.95
THE BEATLES - Volume 2	$ 9.95
THE BEATLES - Volume 3	$ 9.95
THE BEATLES - Volume 4	$ 9.95
BILLY JOEL - Volume 1	$ 9.95
BILLY JOEL - Volume 2	$ 9.95
THE WHO *Double Disk Set*	$ 12.95
LED ZIPPELIN - Volume 1	$ 9.95
BLOOD SWEAT & TEARS - Volume 1	$ 9.95
STEELY DAN - Volume 1	$ 9.95
ROCK YOUR SYNTH - Volume 1	$ 9.95
ROCK YOUR SYNTH - Volume 2	$ 9.95

PIANO SCORES:

The following scores were arranged for 3 or 4 Channel MIDI keyboards. All arrangements were scored in the standard 2 or 3 stave format. However, each disk is *LOADED* with *GREAT* sounds.

THE BEATLES - Volume 1	$ 12.95
THE BEATLES - Volume 2	$ 12.95
UltiROCK - Volume 1	$ 12.95
UltiROCK - Volume 2	$ 12.95
SERIAL TO MIDI CABLE	$ 19.95

UltiMusE III

VER: 4.8.0

The Ultimate MIDI Music Notation Editor for the ColorComputer-3

$54.95

UltiMusE-III and UltiMusE/K are the most complete MIDI Music Notation Editor for either the 512k ColorComputer-3 or the new OSK machines. Compose detailed music scores to simple piano runs or just mouse in your favorite sheet music score. The UltiMusE system is perfect for the novist music lover to the professional musician.

— It just doesn't get any better than this!

$149.95

The Ultimate MIDI Music Notation Editor for the MM/1 and OSK machines

UltiMusE/K

VER: 10.0.0

CoNect
New Hardware

Mini-RS232 Port: If you are in the market for a Tandy-compatable serial port, check out our Mini! This ROMPak unit supports all seven control lines available, and can supply more output current than even the Tandy Pak! Jumper selectable addrees and cd swap.

Only $49.95 (Y Cable use requires 12 volt power supply, add $9.95)

XPander: The XPander allows you to assemble the most compact CoCo3 system possible using a stock motherboard. For example, the electronics of my 2 meg CoCo3 with Tandy Floppy Controller, Burke & BurkeXT, WD1002 Hard Drive controller, rs232 port, puppo and Hi-Res adaptors froms a block 12 inches long, 7 inches deep and 3 inches at it highest point.. Not only will this fit in the smaller PC cases,, but in a modified CoCo case.

Obviously this is not a full tilt MultiPak clone - there just isn't room. The two external slots may both contain /scs decoded devices, but only one slot ROM may be used. The external slot may be used either as a ROMPak port (disables internal hardware when Pak is inserted), or as an undecoded buss slot. 12v is available at all slots.

The no-slot RS232 port is a virtual clone of the mini-rs232 described above, and saves not only a slot but quite a bit of room in the finished package.

The Xpander is available in two versions. If a PC type case/power supply will be used, order just the board. CoCo Kit includes a new lower case shell and 450ma +/-12v power supply.

CoNect Custom CoCo Cables!

Cassette - (mini or rca)	$ 4.95	Comp. Video (6 feet)	$ 3.95
Disk Power (either way)	$ 5.95	Printer (DIN to DIN)	$ 4.95
2 Drive Floppy Data	$14.95	3 Drive Floppy Data	$19.95
RS232 (db 25, db9, din4 to db25,db9 - normal, nulmodem, or dcd swap)			$ 9.95

Ram Upgrades

64K CoCo 1 (f board), or CoCo2 (2 or 8 chip) with instructions	$ 7.95
512K CoCo3 (various makes) not always available	$49.95
2 Meg CoCo3 (Disto) with SIMMS $194.95 Installed (add 11.95 for 6309)	$219.95
Hitachification Install CPU socket and 6309, 6809 returned	$29.95

CoNect
449 South 90th Street
Milwaukee, WI 53214
(414) 258-2989 · Delphi: RICKULAND · Internet: rickuland@delphi.com

New Lower Prices!
from ColorSystems

Variations of Solitaire

Includes FIVE Variations, Pyramid, Klondike, Spider, Poker and Canfield. Complete documentation shows how to create your own games boot disk using special menu program which is included.

CoCo3 Version $29.95
MM/1 Version $39.95

WPShel

A Word Processing Oriented Point and Click Shell for all your word processing needs. Requires WindInt from your Multi-Vue Disk. Does not include editor, Formatter or Spelling Checker.

CoCo3 Only! $20.00

We accept Personal Checks or Money Orders drawn from US Banks or International Postal Orders.
NC residents please add 6% Sales Tax.
Call or write for a FREE catalog!

Please add $3 per item for shipping outside of the Continental United States.

NEW!

Using AWK With OS-9

A description of the AWK Programming language with an emphasis on GNU AWK for OSK. Includes the latest version of GNU AWK.

OSK Only! Just $19.95

OS-9 Game Pack

Includes FIVE complete games, Othello, Yahtzee, Minefield, KnightsBridge and Battleship. Includes special menu program and step by step instructions on creating your own games boot disk.

CoCo3 Version $29.95
MM/1 Version $39.95

All CoCo3 Programs require at least 256K of memory

Coming SOON! Indexed Files for OS-9 Level 2, OS-9/68000 and OS-9000!

ColorSystems
P.O. Box 540
Castle Hayne, NC 28429
(919) 675-1706

Quality OS-9 Software for the Color Computer 3 and MM/1 from IMS

UPGRADE National Diskletter! From: Mid Iowa & Country CoCo
We are a national reachout!

Our "UPGRADE" newsletter mailed on Disk, has become a real hit with MAX III graphics accompanying articles. The articles from RSDOS Basic programming, and hardware, to OS-9 by James Jones of Microware; dump to screen (TV, Mono, or RGB) or printer. Sometimes with the news before the big mags, and editorials you will not see in the commercial magazine. With many user tips and ideas.

Our Power Packed Domain Library: is purposly small relative to thousands available; because the few hundred disks there are carefully selected as "The Best Available"! Public Domain, Shareware, OS-9, & previously big named Orphanware programs.

We also have a "Christian Software Sub-chapter". Which simply offers Christian oriented software and listings for those interested.

Where can you buy? Or sell that equipment you've just upgraded from? Your free ads will be in the middle of the community.

Be in touch for Middle America's Fest '93 in Des Moines, IA.

Have you noticed the 3rd part market producers (i.e. support) dropping like flies in late fall? The shrinking Rainbow? The support of your CoCo is rapidly being left up to YOU! As third party decreases; belonging to a CoCo group is your only support. Radio Shack and a long list of magazines have folded it in. If one more magazine folds... where will you look next month?

Our eight year record speaks very well to reaching out and serving members. A strong treasury assures confidence of delivery. Most members are out of town or out of state! Presently we have paid memberships in 23+ states and 3 provinces of Canada. Plus five clubs, and some dealers. Our 90% renewal rate says most all feel MI&CC is very worthwhile. Join up and see why: even user groups by vote; sign up with a paid membership!

Your membership will bring you all Newsletters, Library, Voting, and other privilages, for a year. ($3 Sample disk)

Mid Iowa and Country CoCo (non-profit group)
"Gathering the CoCo community"!
Do you want support tomorrow?
Then stay with a group that keeps you in touch!
Annual Membership: $16.00 US - $21.00 Canada

Say, "I saw it in **Up Time**" and receive...
an UPGRADE Disk plus added bonus disk via return mail!

Terry Simons (MI&CC Treas.), 1328 48th St.
Des Moines, IA 50311 (515) 279-2576 after 8:00 PM

Introducing a NEW MAGAZINE for CoCo users:

the world of

68' micros

Tandy Color Computer, OS-9, OSK

Where will you go for CoCo support after this issue of "The Rainbow"? "the world of 68' micros" is dedicated to producing a *QUALITY* publication supporting the CoCo, Disk BASIC, and OS-9. Top writers and articles will be featured, including the infamous Marty Goodman, who will continue answering CoCo questions. The initial issue will be delivered in August 1993. Contents will be:

- **Repackaging the CoCo** edited, several authors
- **CoCo Answers!** Marty Goodman
- **"C" Programming** (DECB & OS-9) Bill Sgambati
- **Beginners Showcase** Readers Programs... any language!
- **OS-9/OSK Answers!** Matthew Joel Hegberg
- **Beginning OS-9...from the box!** F.G. Swygert & Rick Ulland
- **Telecommunications** Network Database/BBS News
- **Micro News** New Products and News
- **Swap Shop** Classifieds.. SUBSCRIBERS ONLY!

Classified ads will be .20/word, $4 minimum (subscribers get 120 words per year free). No complete systems. Software may be sold or traded... PIRATING NOT TOLERATED! Display ads are $25 1/4, $45 1/2, $80 full page. Subscriptions are $23/year ($30 Canada) for 8-9 issues (every six weeks). "micro disk" is $30/year ($42 Canada) and features DECB and CoCo OS-9 formats. Individual copies are $6 each.

SPECIAL FOUR ISSUE SUBSCRIPTION: $12.00

FARNA *Systems*
904 Second Avenue
Warner Robins, GA 31098-1029
Phone: 912-328-7859 (9:00-12:00am, 6:00-9:00pm EST)

For superior OS-9 performance, the

SYSTEM V

Provides a 68020 running at 25 MHz, up to 128 MBytes of 0 wait-state memory, SCSI and IDE interfaces, 4 serial and 2 parallel ports, 5 16-bit and 2 8-bit ISA slots and much more. The SYSTEM V builds on the design concepts proven in the SYSTEM IV providing maximum flexibility and inexpensive expandability.

AN OS-9 FIRST - the MICROPROCESSOR is mounted on a daughter board which plugs onto the motherboard. This will permit low cost upgrades in the future when even greater performance is required.

G-WINDOWS benchmark performance index for the SYSTEM V using a standard PC VGA board is 0.15 seconds faster than a 68030 running at 30 MHz with ACRTC video board (85.90 seconds vs 86.05 seconds).

Or, for less demanding requirements, the

SYSTEM IV

The perfect, low cost, high-quality and high performance OS-9 computer serving customers world-wide. Designed for and accepted by industry. Ideal low-cost work-station, development platform or just plain fun machine. Powerful, flexible and expandable inexpensively. Uses a 68000 microprocessor running at 16 MHz.

G-WINDOWS

NOW AVAILABLE FOR OS-9000

More vendors are offering G-WINDOWS with their hardware and more users are demanding it.

A PROVEN WINNER!

Available for the SYSTEM IV and SYSTEM V computers, the PT68K4 board from Peripheral Technology, the CD68X20 board from Computer Design Services and now, for computers running OS-9000 using 386/486 microprocessors.

OS-9/68000 SOFTWARE

CONTROLCALC - Real-Time Spread Sheet
SCULPTOR - Development and Run-Time Systems
DATADEX - Free Form Data Management Program
VED ENCHANCED - Text Editor
VPRINT - Print Formatter
QUICK ED - Screen Editor and Text Formatter
M6809 - OS-9 6809 Emulator/Interpreter
FLEXELINT - C Source Code Checker
IMP - Intelligent MAKE Program
DISASM_09 - OS9 Disassembler
PROFILE - Program Profiler
WINDOWS - C Source Code Windowing LibraryPAN UTILITIES

Distributor of Microware Systems Corporation Software

delmar co

P.O. Box 78 - 5238 Summit Bridge Road • Middletown, DE 19709
302-378-2555 FAX 302-378-2556

DISTO

2-Meg Kit (OK)	$ 99.95
SCII	$100.00
3in1	$ 75.00
HDII	$ 75.00
Full Turn of the Screw	$ 20.00
Schematics	$ 20.00

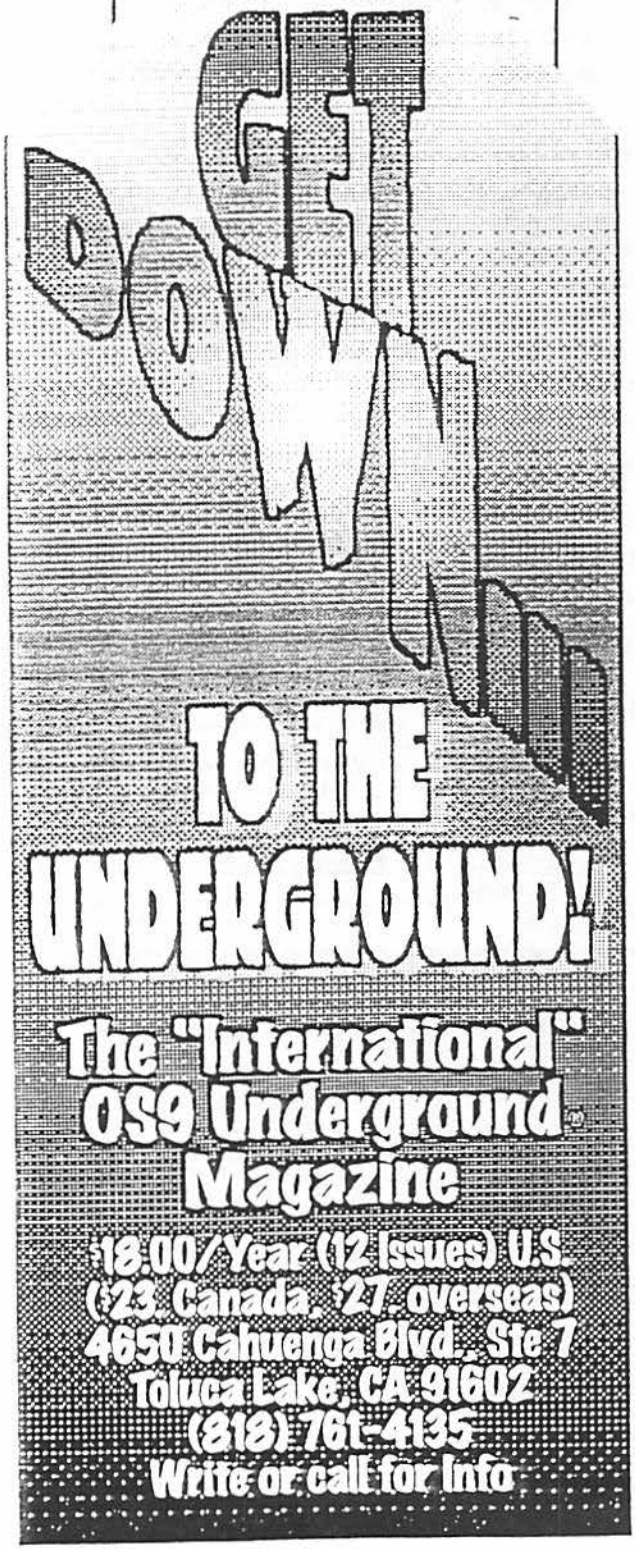
Send certified check or money order to:

DISTO
1710 - Depatie, St. Laurent
Quebec, Canada H4L 4A8
S/H - $4.00 for one item and $6.50 for two or more items.

GET YOUR OWN COPY!

Are you reading someone else's Underground?

Shame on you!



Burke & Burke

P.O. Box 733 Maple Valley, WA 98038
ORDER DESK & TECHNICAL ASSISTANCE
(206) 432-1814

MasterCard VISA

Native Mode for $34.95!

Burke & Burke's $34.95 PowerBoost kit replaces your CoCo's 6809 with a high-performance Hitachi HD63B09E microprocessor. PowerBoost comes with our exclusive "tuneup" program, which uses the HD63B09E's advanced instructions to speed up many OS9 operations by an average of 40%. PowerBoost now includes software to run the 63B09E microprocessor in Native Mode for a 10% average speed increase over previous versions. Our implementation of Native Mode updates only the REL, BOOT, OS9P1, OS9P2, and CC3DISK modules; other modules require no modification.

POWERBOOST (INCLUDES HD63B09E MICROPROCESSOR) $34.95 POWERBOOST (SOFTWARE ONLY) $24.95.

2nd Edition of "The 6309 Book", $29.95

If you write assembly language software, you'll find The 6309 Book an indispensible reference guide. The 2nd Edition describes the new addressing modes, as well as the new instructions, of the HD63B09E. Our $29.95 package includes the book, Native Mode DEBUG patches, a disassembler, and a new version of our XSM 6809/6309 assembler. XSM runs under OS9, but can output RS-DOS, OS9, or Motorola S-Records. XSM uses "FAR pointer" techniques to allow up to 64K of program symbols.

NOTE: XSM DOES NOT INCLUDE OS9 EQUATE FILES, BUT CAN USE HEADERS PROVIDED WITH THE OS9 LEVEL 1 ASSEMBLER OR LEVEL 2 DEVELOPER'S KIT.

CoCo-XT Hard Disk Interfaces

Hundreds of Color Computer enthusiasts in the US, Canada, Europe, South America, and Australia love our affordable high-performance hard disk interfaces! Look at these features:

NO HALT • 1 or 2 hard drives • 30% faster than SASI • Uses PC-type hard disk drives & MFM/RLL controllers • 5 Meg to 120 Meg per drive • Does not use interrupts • Multi-PAK recommended • Works with 12 Volt Y-cables • Includes EZGen boot file editor for easy installation

Each interface includes a user manual and software for use with HYPER-I/O or OS9. The CoCo XT hard disk interface is $69.95. The CoCo XT-RTC model, $99.95, adds a battery-powered real time clock / calendar for OS9 and BASIC.

XT-ROM - allows OS9 startup from CoCo XT hard disk	$19.95
THEXDER-OS9 (requires THEXDER cartridge)	$29.95
SPRING SALE! $5 OFF THIS PRICE THROUGH MAY 31, 1993:	
PERTASCII - OS9 Multi-User & BBS word game	$19.95
OS9 World Class Chess (requires CYRUS cartridge)	$29.95
File System Repack - OS9 graphical disk defragmenter	$29.95
File Recovery System - Helps recover damaged OS9 disks	$24.95
EZGEN - Fast OS9 boot file editor (uses RAMDisk work files)	$19.95
WILD & MV - OS9 wildcard and file moving utilities	$19.95
ZCLOCK - Continuous date / time on Level 2 OS9 windows	$9.95
RSB - Complete CoCo BASIC, for OS9 (requires DECB ROM)	$39.95
Daggorpatch for RS-DOS (requires DAGGORATH cartridge)	$9.95
HYPER-I/O - Use 720K floppy disks, hard disk from BASIC	$24.95

SCSI-512

512-Byte SCSI Hard Drives Are No Problem...

Burke & Burke's new SCSI-512 software lets you use inexpensive PC SCSI hard drives (512 bytes / sector) with your DISTO hard disk interface. Fully MultiPak compatible. Includes EZGen installation program and OS9 drivers for both the 4-in-1 and the HDISK adapters from DISTO.

$29.95

MC68B09E 2MHz uP	$14.95
HD63B09E 2MHz uP	$19.95
27128 EPROM (Blank)	$9.95

WA RESIDENTS ADD 8.2% SALES TAX. MC & VISA accepted. U.S. COD's add $3.75. Min. shipping $4.00 US, $5.00 to Canada. Please allow 2 weeks for delivery. Overnight or 2nd-day available for in-stock items. Software upgrades $5.00 each w/receipt, including U.S. shipping. Call / write for free catalog!

NEW 68020 COMPUTER BOARD!!!

The CD68X20 *sizzles* at 25MHZ - processing the most complex calculations in a *flash*!!!

CD68X20-25, 0K RAM	$699.00
Professional OS9/020 V2.4	$499.00
ULTRA C Compiler for OS9	$299.00
SCULPTOR V1.14:6 for Business Software Development	$ 79.00

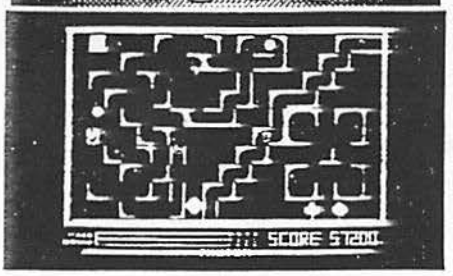
Systems Available!

Computer Design Services
2550 Sandy Plains Rd. Ste. 320-234
Marietta, GA 30066
404/973-2170

SUNDOG SYSTEMS

PHOTON

NEW!



Energy is everything; your home world depends on it. However, someone or something is slowly siphoning it away. As your world's champion, you must climb into the experimental Power Tank to challenge this nemesis and his minions. Your key lies with the ability to teleport solid mass. Use this to manipulate and explore the endless strongnoid of the enemy, and to exploit the free-floating DUPES (Dense Units of Photon Energy) to destroy the menacing Plasma Droids. Be cautious, though; those DUPES can be deadly, too! Photon, a fantastic new arcade game for your CoCo3, contains spectacular 320x200 resolution, 16 color graphics, ultra-smooth 60 Hz animation, and loads of real-time music and sound effects. It will send your mind racing over endless possibilities, requiring quick decisions and reactions. Quite simply, Photon is incredibly addictive; it will deliver hours of excitement. Will you become your world's greatest hero, or just another energy slave? Req. 128K CoCo 3 and disk drive.

$34.95

GRAFEXPRESS 2.0

NEW!

GrafExpress 2.0 is a complete graphics and music programming environment. From the beginner to the accomplished professional, you can use GrafExpress to create lightning fast arcade games, graphic applications and utilities, and windowing multimedia demonstrations! The GrafExpress package includes two incredible systems. GrafExpress 16 works on all monitor types and offers support in 12 graphic resolutions (from 128x192 to 320x225). GrafExpress 256 offers 6 resolutions (from 128x192 to 160x225 on a composite monitor) in an astounding 256 colors! Ever see a CoCo do that before? Both systems include standard graphics commands (CIRCLE, FILL, etc.) that blow away the competition. For example, the BOX command peaks out at over 2 MegaPixels/second: that's 300 times faster than BASIC! 255 separate sprites of up to 100x100 pixels each are supported with window clipping and high-res pixel level collision checking. The 8-octave/4-voice music synthesizer has independent envelope, waveform, and volume controls, a 7 + KHz sampling rate, and much more. Other features include text/graphics mixing, different font sizes, fast window copying and scrolling, picture save/load, easy implementation from both BASIC and assembly language, multiple screen animation, and support for 128K/512K, double speed, and the high-res joystick interface. The package also contains support programs that are worth the purchase price of GrafExpress alone! These include an introductory demo, a picture editor, a waveform editor, and an art program that supports 256 colors! GrafExpress also comes with a 50 page manual that fully explains all of its incredible features. If you do any graphics programming or simply want to see what your little CoCo is capable of, GrafExpress is a must! Req. 128K CoCo 3 and disk drive.

$34.95

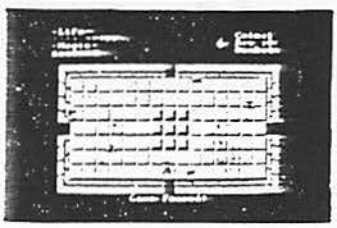
War Monger

NEW!

The world is in unrest. Power-hungry villains and evil warlords are readying their forces. It falls to you to lead your people against these armies, and only your best strategic plans can save the day. Fight the good fight in any era or locale. Play a simple game of capture the flag armed with water balloons, or climb into the cockpit of a 100 foot high armored warner. Explore the deepest dungeons, defend your galaxy, or create your own scenarios with this incredible war game construction set/simulator. Your imagination is your only limit. You will deploy your forces with total control over hostile terrain while you scroll a graphic bird's-eye window over an immense world. War Monger has terrific 320x200 resolution, 16 color graphics and includes a tile editor to create or edit your own. Play against the computer, battle with another player, or simply watch the computer plot against itself. The enemy is everywhere. Are you ready to take on the challenge as the War Monger? Req. 128K CoCo 3 and disk drive.

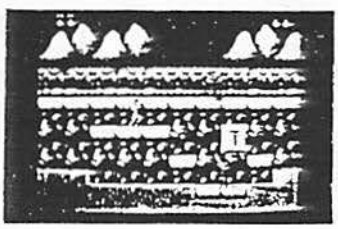
$29.95

The Quest for THELDA



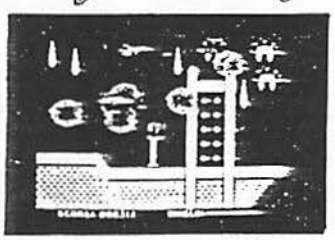
An immensely popular 128K CoCo 3 arcade/adventure. Over 500 screens of fast fantasy action and puzzle solving. Great graphics and sound effects. **$34.95.** Hint book only $4.95.

THE CONTRAS



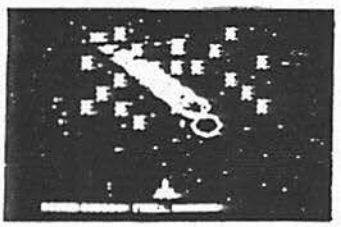
A 512K two player futuristic combat arcade game. Full screen 320x225 hardware scrolling and smooth animation. Back-ground music score and sound effects! 512K Coco3 only. **34.95.**
Shipping soon!

Crystal City



This was THE game of '91! Ultra-fast space action with hardware scrolling on a 128K CoCo 3. Wild sound effects and over 30 MegaBytes of amazing graphics! **34.95.**

ZENIX



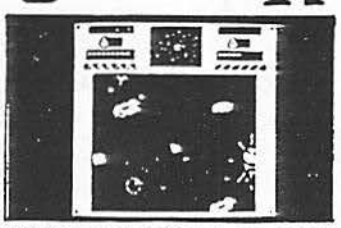
Lightning fast arcade game for the 128K CoCo 3. Terrific 320x225 graphics, back-ground music score and sound effects, and out-of-sight game play. **$29.95.**

ALSO AVAILABLE

Warrior King	
CoCo 3	$29.95
In Quest of the Star Lord	
CoCo 3	$34.95
Hint Sheet	$ 3.95
Hall of the King 1, 2 or 3	
CoCo 1-3	$29.95 ea.
Hall of the King Trilogy	$74.95
White Fire of Eternity	
CoCo 1-3	$19.95
Dragon Blade	
CoCo 1-3	$19.95
Champion	
CoCo 1-3	$19.95
Paladin's Legacy	
CoCo 1-3	$24.95

We accept Mastercard, Check, Money Order and COD (USA only). Please accept 4 weeks for delivery. Orders must be sent in U.S. currency. Money Orders include $2.00 for shipping in USA and Canada. $5.00 shipping $3 overseas for 1st order, $1 overseas additional. 5% sales tax for Virginia residents. Authors, we're looking for new software.

Sinistaar



Everyone loves this 512K arcade game. 3 disks packed with spectacular graphics and eerie background digital sound effects. 512K CoCo 3 only. **$34.95.**

Sundog Systems Discount Special

15% off

Buy 2 or more CoCo 3 products and save 15% on each!

Coupon must be mentioned at time of order to receive discount. Offer excludes The Contras. Expires August 31, 1993. See prices and ordering information elsewhere in this issue.

Sundog Systems
P.O. Box 766
Manassas, VA 22111
703/330-8989

Sundog systems

SUNDOG SYSTEMS

P.O. Box 766 Manassas, VA 22111
703/330-8989

CoCo III Graphics to burn your GIME

Revelation!

Revelation is an operating system enhancement which allows you to have all of the following under RS-DOS:

- ***72 Macro Keys***
- ***Disk Access at 2mhz***
- ***640 x 225 and 320 x 225 graphics***
- ***80 x 28 and 40 x 28 text***
- ***One-Key toggling of Fast and slow processor modes.***
- ***On-Screen display of keyboard status, current operations and current speed setting.***

Sorry, Revelation! is not compatible with A-DOS.

□□□

Slake Freeman and the Invasion of the Mutant Linoleum Miners

Mutants, punkers, skinheads, Goblins, Serpent Women and God populate this adventure using nearly two megs of compressed graphics. Full graphic representation of this incredible adventure complete with vivid text interaction normally present only in dedicated text-adventures combine to create a magical universe not entirely unlike the Los Angeles Riots of 1992.

512k req.

□□□

BlackJack III

Digitized sound and the best playing-card graphics of any program for the CoCo III make this an absolute must-have for any graphics or gaming enthusiast. The dealer actually talks to you during the game!

512k req.

□□□

Club Prices

All prices reflect club discounts:

Revelation	**$15.00**
Slake Freeman I.M.L.M.	**$20.00**
BlackJack III	**$10.00**

I also accept barter-purchases of hardware and software: make me an offer!

Consignment sales

Contact me about selling your gently-used software and hardware OR your original software.

To Order:

Send Check or Money Order to:
Robert Offermann
2447 Oak Park Way
Orlando, FL 32822

Tandy's Little Wonder

the MOST COMPLETE reference ever written for the Color Computer!

Softbound book contains:

- History of the CoCo
- Club and BBS Listings
- Current Supporting Vendors
- Peripheral Details
- Operating System Descriptions
- Programming Languages
- Repairs
- Hardware Upgrades
- Schematics
  (reprinted with permission from Tandy Corp.)
- Historic Memoirs
  From a few notable CoCo supporters.
- MUCH, MUCH MORE!!

ONLY **$25.00**

(+$2.50 S&H, $4 Canada) Will Ship 10 May 1993.

SPECIAL: $1 off with copy of this ad!

FARNA *Systems*

904 Second Avenue
Warner Robins, GA 31098-1029
Phone: 912-328-7859 (9:00-12:00am, 6:00-9:00pm EST)

Ved/68000 Text Editor 2.0

Our editor just got better! Ved 2.0 now includes an integrated spelling checker! Plus it supports multiple buffers! This is in addition to all the features of the original: user control over macros, key bindings, editing modes; automatic indenting and numbering; wordwrap on or off; search; find/replace; block move/copy/delete; word and line delete; "undo"; and a lot more!

Ved 2.0 also supports your KWindows mouse... but it still works with any terminal (as long as it has cursor positioning).
Ved comes complete with MVEF (an editor for creating the environment files Ved uses for configuration) and a 100 page manual which fits your Microware binders. For more information, just drop us a note and we'll send you full information on Ved and other fine products.

Ved 2.0 complete with the spelling checker and MVEF, costs only $59.95 plus $3.00 shipping and handling. To order please send your check or M.O. and preferred disk format to:

Bob van der Poel Software

P.O. Box 355
Porthill, ID
USA 83853
Phone (604) 866-5772

P.O. Box 57
Wynndel, BC
Canada V0B 2N0
CIS: 76510,2203

INTRODUCING

#GS01—Pensave Graphic System
Disk Includes:
Pen and Paint 3-Doodle program
Pensave-Pixel drawing System
Coco Colorbook-Paint and Edit
Plus Five Graphic Files

Req: 128k Coco III & Disk Drive
$4.95 Ppd. Check or Money Order
MO Residents Add 23¢ Sales Tax

Southern Missouri Softworks
HCR 7 Box 218
Doniphan, MO 63935
(314) 255-3722

THE ORLAND PARK
COMPUTER SHOW

HELD AT:

The Orland Park Civic Center
147th Street & La Grange Road
Orland Park, Illinois

SHOW HOURS:

9:30 a.m. To 2:30 p.m.

CALL NOW TO GET ON OUR MAILING LIST AND YOU'LL RECEIVE A NOTICE FOR EVERY SHOW, A DISCOUNT ADMISSION COUPON, PLUS A FREE GIFT EVERYTIME YOU ATTEND!

24-HOUR HOTLINE:

708-974-3123

COMPUTER DEALERS FROM ALL ACROSS THE MIDWEST WILL BE AT THIS SHOW!

NEW FOR 1993!

IT'S TWICE AS BIG!

Starting with our Jan. 17, 1993 Show, we will have double the space. We'll still be in the current area, plus we'll expand into the new addition, giving us twice the space of previous shows!

THE ORLAND PARK COMPUTER SHOW 1993 CALENDAR

JAN. 17, 1993	JULY. 18, 1993
FEB. 20, 1993 SAT	SEPT. 19, 1993
MAR. 28, 1993	OCT. 17, 1993
APR. 24, 1993 SAT	NOV. 21, 1993
MAY 15, 1993 SAT	DEC. 19, 1993

SUNDAYS UNLESS OTHERWISE NOTED

© COPYRIGHT 1993 MICRO MEDIA, INC. ALL RIGHTS RESERVED

COMPUTER SHOWS SINCE 1989

Location:

Glenside Public Library
25 W. Fullerton Avenue
Glendale Heights, IL. 60172

Directions:

Fullerton avenue is about 1 mile North of North Avenue (Route 64). The library is located West of Bloomindale Road in Glendale Heights. Bloomingdale Road is aproximately 2 miles West of Route 53 (or I-355).

Glenside Color Computer Club

Next Meeting Date...
September 9

Glenside Color Computer Club

CoCo ~1 2 3

119 ADOBE CIRCLE
CARPENTERSVILLE, IL. 60110