

UpTime

The newsletter for:
RS-DOS, OS9, OSK,
CoCos, and 68xxx's.

Volume 1, Issue 5

January 1993

Editorial

Hello again, and I hope you had a happy holidays. We have a new year to look forward to now, and the prospect of new products from the new year is enticing. Along those lines, I'd like to announce what may be one of the most unique offerings: the book entitled *Tandy's Little Wonder... the Color Computer*, being printed in May 1993 and offered by Frank Swygert of *FARNA Systems*. The book features history, repair information, support, and current vendors for the Color Computer, and costs \$30 for the hardbound copy and \$20 for the softbound. *FARNA Systems* is also taking advertising for inclusion in the book. For more information, see *FARNA's* advertisement in this issue or write to:

FARNA Systems
904 2nd Avenue
Warner Robins, GA, 31098-1029

In the last issue, I made mention of the OS-9 User's Group, a restart

In this issue...

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CoCo History:



Read All About It!

from the older group by the same title. The old user's group library is still intact to my knowledge, and memberships are being accepted. Although I do not have any cost information, you can reach the group at the following address:

OS-9 User's Group
P.O. Box 71131
Des Moines, IA 50325

And last but not least, it was brought to my attention by F.L. Kenimer that a version of OSK was available for the Atari ST. *CUMANA, Ltd.*, released information in September of this year stating that a version of OSK complete with applications and development package was available for \$179.00 U.S. or £99 in England. The company can be reached at the following address:

CUMANA Ltd.

*Pines Trading Estate, Broad Street
Guildford, Surrey, GU3 3BH
Tel: (0483) 503121, Fax: () 503326
Marketing - Steve Dickenson: ()
503326*

Mr. Kenimer also sent along an advertisement for a company selling refurbished STs. The 520ST was \$89, 520ST w/RF: \$99, and the 1040ST was \$229. The company is *Rising Star Computers* and can be reached at 800-252-2787 for orders, (513)-254-3160 for information, and (513)-254-7970 for faxes. If you would like more information about STs, please feel free to contact **Mr. Kenimer** at:

*2601 W. Corrine Dr.
Phoenix, AZ, 85029-2510*

Well, as you can see, the legacy continues. Stay tuned for more information as the year unfolds!

-Jordan Tsvetkoff

UpTime

Editor: Jordan Tsvetkoff

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Purpose: To provide information about products, services, and activities relating to the **Tandy Color Computer** and **OSK/68xxx-based machines**.

Submissions: Submissions of any form can be sent to *UpTime Submissions*, **JWT Enterprises**, 5755 Lockwood Blvd., Youngstown, OH, 44512. Please note that article/editorial submissions are preferred, although short program listings will also be considered. If reimbursement is requested, please indicate in writing with the initial submission.

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Youngstown, OH 44512.

You will be billed for the second installment of \$7.50. Canadian orders, \$9.00 installments. Foreign orders, \$11.00 installments.

So You Bought a Computer...

... now what do you do with it? Since you are reading *UpTime*, you must own at least one computer. Therefore I am sure that you have been asked at least once, "So you bought a computer. What do you do with it?"

Have you really given the answer some thought, and in what tone of voice was the question asked? If the person asking was a parent or older than fifty the tone was probably incredulous; what could you possibly do with such incomprehensible hardware? If the person owned anything other than a CoCo, the tone was probably sarcastic; what could you possibly do with that junk? If the person was a child or teenager the tone might have been one of awe; gee, this is exciting—let me get my hands on it!

Unfortunately, the answers usually are as follows: there were these great games I wanted to play; I use it to balance my check book; I wasn't really sure but everyone else is buying them; and the corollary: nothing, it's stuck up in my closet.

Of course, none of the above is you (or maybe only a little?); after all, you are reading a specialty computer newsletter. But could you come up with better answers?

Part of the problem is not seeing the forest for the trees. Most people do not "do something" with a computer any more

Bought cont'd, page 5

UPCOMING EVENTS

Middle America's Fest
March 27th (10-6pm) and 28th (10-3pm), 1992
Ramada Inn, Des Moines, Iowa

Sponsored by:
Mid Iowa & Country CoCo

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

2nd Annual Last CoCoFest
May 1992 (tentative)
Chicago, IL

Details to be announced later

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 purposely 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 privileges, 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 *UpTime*" 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

CoCo Graphics

Last issue, I showed you how you could draw lines on the SET/RESET graphics screen. This issue we will take a look at another command we can simulate- the circle command. There are a few different ways to do this, but I am going to use the *sin* and *cos* functions.

The formula $R * \cos(A)$, where R is the radius and A is the angle, will give us the exact X-coordinate of a point on the circle. To get the Y-coordinate, we use $-R * \sin(A)$, where again R is the radius and A is the angle. For example, say we had a circle with a radius of 20 and we put 90 degrees in place of A . We then have:

```
X=20 * COS (90) : Y=-20 * SIN (90)
```

Now we have the exact X- and Y-coordinates of the point on the circle directly on the 90 degree angle of a trigonometric circle (going counter clockwise, 0 is at the 3 o'clock position), but we still have a little problem. The computer does not use degrees. Instead it uses radians, so we convert the number by dividing the degrees by 57.29577951. Now our equation looks like this:

```
V=57.29577951 : X=20 * COS (90 / V) : Y=-20 * SIN (90 / V)
```

The last thing to do is to position the circle where we want it on the screen. This can be easily done by first finding the X and Y position on the screen that you wish to place the circle and adding it to the equation. Let us say that we want to center the circle on the SET/RESET screen. The coordinates for the center of the screen are (32,16). Now we add these numbers to the equation to get:

```
V=57.29577951 : X=20 * COS (90 / V) + 32 : Y=-20 * SIN (90 / V) + 16
```

Notice that the 32 is the X coordinate, so we add it with the part of the equation that will hold the X value. The 16 is the Y coordinate, so we add it to the part of the equation that will hold the Y value.

To get the X and Y coordinates of the entire circle, use a FOR...NEXT loop to keep changing the value of degrees until you have reached 360. The program to do so would look something like this:

```
5 CLS 0
10 V=57.29577951
12 FOR T=0 TO 360
14 X=20 * COS (T / V) + 32
16 Y=-20 * SIN (T / V) + 16
18 SET (X, Y, 2)
20 NEXT T
```

If you wanted to make an ellipse, you would make the radius in the equation that holds X larger, to get a long ellipse or smaller to get a tall ellipse (for an example, see LISTING 1).

Now that you understand how to draw circles and ellipses, you can easily draw arches. This can be done by changing the values of the FOR...NEXT loop to indicate what arch you want and by changing the radius to adjust the size. For example, try drawing an arch by changing the FOR...NEXT loop in LISTING 1 to read: *FOR T=90 TO 180*. At the prompt to enter the radius of the width type 45, and at the prompt to enter the radius of the height, type 60.

Next time we meet, I will discuss how to draw specific angles on the PMODE screens. In the mean time, try to digest some of the material I have just presented. See you next time!

- Dave McNally

LISTING 1:

```
5 REM CIRCLE DRAWING
  USING SET
10 REM BY DAVID MCNALLY
15 REM (C) 1992 COLOR
  COMPUTING
20 CLS
25 V=57.29577951
30 PRINT "INPUT RADIUS
  OF WIDTH"; : INPUT
  R1
35 IF R1 < 0 THEN CLS :
  GOTO 30
40 PRINT "INPUT RADIUS
  OF HEIGHT"; : INPUT
  R2
50 R1=INT (R1+.5) :
  R2=INT (R2/14*9+.5) :
  REM HELPS KEEP
  CIRCLE MORE ROUNDED
  WHEN YOU ENTER WHOLE
  NUMBERS AND R2 KEEPS
  SCREEN RATIO
55 IF R2 < 0 THEN CLS :
  GOTO 40
60 CLS 0
65 FOR T=0 TO 360
70 X=32 : Y=16
75 X1=R1 * COS ((90+T) /
  V) + X : Y1=-
  R2 * SIN ((90+T) / V) + Y
80 IF X1 < 0 OR X1 > 64
  THEN 90
85 IF Y1 < 0 OR Y1 > 31
  THEN 90 ELSE
  SET (X1, Y1, 1)
90 NEXT T
95 GOTO 95
```



"Industrial sabotage. Someone glued all our disks together."

JWT Enterprises

Optimize Utility Set 1:

- ⇒ Optimize your floppies and hard drives quickly and easily! ⇒ Includes utility to check file and directory fragmentation.
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The bi-monthly disk magazine for OS-9 Level 2.

- Helpful and useful programs
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Full Basic09 code and documentation for the presentation shell used with Nine-Times.

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**NINE
TIMES**

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Bought cont'd from page 2

than they "do something" with an adding machine or calculator. What we do is run a program to achieve a goal—the computer is an incidental interface. How many times have you sat down with your calculator to see what words you can make by looking at the numbers upside down? I just solve math problems.

Indeed by the end of this decade, most people will be using computers without even knowing it. The units will be embedded in cars, household appliances, and high-tech entertainment equipment just for starters.

So where does this leave our CoCo? Sure I play a few games, but not all the time. I do have a spreadsheet program, although I do not use it. All of my writing is done on the CoCo, but I am not always writing. I download weather fax

diagrams via shortwave radio, compose and play music on a MIDI device, talk to friends on my favorite BBS, write an occasional program or two, read the occasional RTTY message on shortwave, plot maps of the world, write articles for my CoCo Club's newsletter, etc.

Hmmm, I am not sure just how much I do use my computer! You know, I could not even begin to make a list, and I have learned BASIC, Basic09, Assembly, C, and OS-9 in the process.

You don't suppose that a computer is a general purpose tool that can make it easier to do many things, just limited by one's imagination?

As it turns out, we CoCo owners have had the pleasure of owning one of the best general purpose units to reach the consumer market. There is no doubt of this if you add in value per cost. In fact,

most of the extra equipment bought to enhance a CoCo system, drives, monitor, modem, etc., are standard format and usable with any computer replacing your CoCo.

Let me suggest that the future of our CoCo fraternity is as it always has been, the desire of visionaries to share a unique learning experience and push the possibilities of a simple machine past the limits intended or imagined by Tandy. As a fraternity, we will exist as long as we the members desire. Rainbow is nice but not necessary. Tandy made it possible but is no longer necessary. You the readers are what is necessary, so find your local club or BBS and support it—if they are not there, create them!

- Robert Gault

Secretary, CCOG Color Computer Owners Group of Detroit

FARNA Systems

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Warner Robins
Georgia 31098-1029
Phone 912-328-7859

Bringing the best to
the Color Computer!

Tandy's Little Wonder
(the Color Computer)

It started life as a simple terminal for farmers to use, but grew into an inexpensive yet powerful home computer. **This book relates the history of the CoCo through the pages of various CoCo magazines and provides "survival" information (current vendors, publications, support, repairs, etc.)**. Many long-time and knowledgeable CoCo advocates contributed- Alfredo Santos, Marty Goodman, Art Flexsor... to many to list here!
SIZE: 5.5"x8.5", approx.. 160 pages.
Softbound; \$20; Hardbound \$30
AVAILABLE MAY 1993!
\$2.50 S&H (\$5 Canada/Foreign)

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320x200 to 640x200, color scans with 512K and filters. Scans in 15 seconds. No MPI.. uses joystick ports. Allow 8-10 weeks delivery (from Australia)

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2 disk set of most common and useful patches and utilities... "closest thing to Level III" (from a customer!) Auto patch with 512K and 2 drives. Double or single sided drives (specify)

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Little Black Book & Video Tape Organizer- \$7.50 ea, \$12.50 both
LBB is an address/phone database. VTO is for video tapes. Both print labels and lists.

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assembly language book recommended by Motorola and Marty Goodman! Over 300 pages, illustrated.

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If you want to write fast machine language programs but you don't want to spend the next few years trying to write them in Assembly Language, then CBASIC is the answer!!!

CBASIC is the only fully integrated Basic Compiler and program editing system available for the Color Computer. It will allow you to take full advantage of all the capabilities available in your color computer without having to spend years trying to learn assembly language programming. CBASIC allows you to create, edit and convert programs from a language you are already familiar with Extended Disk Color Basic, into fast efficient machine language programs easily and quickly.

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CBASIC is a powerful tool for the Beginner as well as the Advanced Basic or M.L. programmer. CBASIC features well over 150 compiled Basic Commands and Functions that fully support Sequential and Direct access files, Tape, Printer and Screen I/O. CBASIC supports ALL the High and Low Resolution Graphics, Sound, Play and String Operations available in Enhanced Color Basic, including Graphics H/GET, H/PUT, PLAY and H/DRAW, all with 99% syntax compatibility.

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EDT/ASM III has the most powerful, easy to use Text Editor available in and Editor/Assembler package for the Color Computer.

- * Local and Global string search and/or replace.
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- * Load and Save standard ASCII formatted files
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- * Create and Edit files larger than memory.

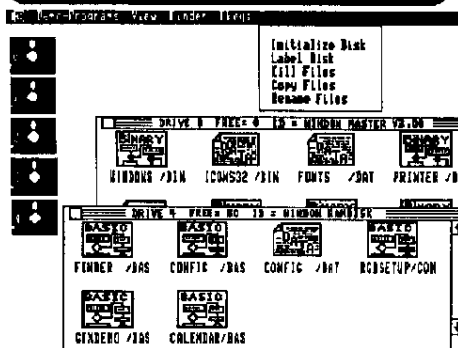
The Assembler features include:

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The Ultimate User Friendly Point & Click operating System for your Coco 3. Simple enough even for children to use, just point and click to run programs, select files, do disk or file maintenance or almost any

\$49.95

task you currently do by typing commands. You also get things like a print spooler, Programmable Function Keys, a Buffered Keyboard, Ramdisk, Serial I/O port and Deluxe Pak support along with Windows, Icons, Buttons, Pull Down Menus, Edit Fields and Mouse functions all in one program. It has multiple fonts in 54 possible sizes and styles, Enhanced Basic Editing and much much more. It add over 50 commands and Functions to Basic to fully support the Point & Click System without OS9.

"...it offers so many features that it is probably underpriced. I recommend this software to all CoCo3 owners." -The Rainbow February 1989

It is completely compatible with existing Basic programs and takes absolutely no memory away from basic. It requires 1 Disk Drive, R.S. hires interface & Joystick or Mouse.

Includes 128 & 512K
Versions Only \$89.95

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The SOURCE will allow you to easily and quickly Disassemble machine language programs directly from disk and generate beautiful, Assembler Source Code. And "The Source" has all the features and functions you are looking for in a Disassembler.

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Backup, Initialize, Directory, Verify, Compare, Search, Edit, Erase, Speed Test, Rate Test, Gran Table, Analysis & Repair

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The Only Disk Utility & Repair Program your Coco will ever need!

Coco Tools is a comprehensive disk utility program, providing the most complete set of functions available for the standard R.S. DOS disk system. Comparable in scope and functionality to that of the famous utility available for MS-DOS computers "PC-TOOLS"

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Las Vegas, NV 89110

702-452-0632

Pipeline cont'd from page 12

Tools has multi-file archiving, un-archiving, and test archiving functions that allow you to compress multiple files into a single disk file. Plus you have the ability to extract any selected group of individual files from a compressed file with easy visual file selection. The file compression techniques used can save up to 80% of the space normally required by graphic files.

Window Tools also allows you to customize your configuration to your own preferences, such as display colors, printer buad rate, drive step rate and directory sorting preference to a setup file that automatically loads when Window tools starts up. *Requires CoCo 3 with 512K, a disk*

drive, and a copy of Window Master V3.0, \$34.95. From Cer-Comp Ltd., 5566 Ricochet Ave., Las Vegas, NV, 89110, (702) 452-0632.

If you would like information about your "soon-to-be" products to appear in Pipeline, send information about the product as well as mailing address and telephone number to UpTime Pipelines at the regular mailing address.

Letters

Concerning Terry Simon's article in the November 1992 issue: Let me tell you that I'm tickled to be

considered a "big name" in the list of CoCo software companies. Yes, I've made a bit of money—but certainly not, as Terry suggests, "big money"! My own guess, from being in the community over the years, would be that the companies who made enough sales to be considered serious would include: Cognitec, Spectrum Projects (Bob Rosen), Falsoft (Rainbow), Computerware, Mark Data, Tom Mix, and a few others. Of those, most probably spent more in marketing than sales.

The CoCo market has never been a profitable one for many. Rather it has been a love for those who have survived. Those in it for a quick buck quickly realized their folly.

Bob van der Poel, Porthill, ID

ColorSystems

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

Variations of Solitaire - A game pack which includes FIVE variations of the popular one-person card game Solitaire! Includes Pyramid one of the most habit-forming, Klondike, the standard version of Solitaire, Poker which gamblers would enjoy, Spider were a single hand can take hours of play, and the popular gambling variation Canfield.

Game Pack - A game pack of FIVE popular board games adapted for your favorite computer! Includes Othello, Yahtzee, KnightsBridge, Battleship, and Minefield.

These two products come for both the Color Computer 3 with OS-9 Level 2 and at least 256K of memory or for the MM/1 from IMS. Color Computer version is \$34.95 and the MM/1 version is \$49.95. (*Multi-View is NOT required for the Color Computer Version!*)

WPSHel - This is an impressive tool which allows those who do a lot of Word Processing on their Color Computer 3 to put all of their favorite tools under a single point and click environment. Requires OS-9 Level 2, system support from the *WindInt* module which comes with *Multi-View* and at least 256K of memory. Mouse and Printer are optional but desirous. Only \$22.00!!

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Announcing

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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 v.2.

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SOFTWARE

Quest for Thelda (coco 3), \$30.00; Micro-painter, Big Bird's special delivery, Cookie monster letter crunch, \$5.00 ea.; Sam Sleuth, Scripsit-2, Thexder, Pitfall-2 (disk), Synther 77, \$3.00 ea.; All include instructions. Call (717) 235-0887 or write to David Call, 7 Cardinal Dr., Glen Rock PA, 17327.

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Dynacalc for OS-9, new & sealed, only 5 copies, \$12 + \$4 shipping. Also, 1 copy of Studio Works Pro, \$20, and 1 copy of SuperDisk (from SPORTSware), \$20. Contact CoCoPRO! to order.

WANTED TO BUY

CoCo 3's working condition- new or used. Also, could use just the mother boards. Call Rick Ford, Toll free 1-800-523-9504

Wanted-SS-50 Bus hardware boards & software. Send list with cost to...Ray Baumiller P.O. Box 196, Bedford, PA 15522

WTB Rainbow on Disk up to December 1988. Also, old CoCo magazines excluding Rainbow. Quote prices and write: James Kelly, P.O. Box 3244, Astoria, NY 11103

CoCo I's & II's WANTED! Buying good/exc/like new. Oval Window Audio, 33 Wildflower Ct., Nederland, CO 80466, phone/FAX (303) 447-3607.

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No bells, few whistles... QuickLetter OS-9 is designed for quick and easy correspondence and small documents, without the hassles, steep learning curves, and the higher price of full-blown word-processors! Req. OS9 lv 2, printer.



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Special! only \$34.95!

Tools 3! An all-new set of 24 useful utils for OS-9! Includes filehandling utils (such as enhanced copy commands and filefinding), OS extensions (such as the ability to do "lightning"-fast backups in one pass, and password protection for any file), module generating utils (create modules without an assembler), point & click utils, and many more. As a special bonus, we include the OS9 Oscilloscope! Req. OS9 lv 2, some utils require 512k.



24 useful utilities for only \$29.95!



Announcing **Pixel Blaster** - a high speed, versatile graphics and animation library for OS-9. Written in 100% efficient assembly-language, **Pixel Blaster** delivers lightning-fast action through incredible functions, designed for fast graphics manipulation. And, with the included BASIC09 interface and C library, you can now incorporate sophisticated animation techniques (even 3-D!) into your own programs easily, whether or not you program in ML!

Now, there's no need to view RSDOS assembly as the only option for creating high-speed action games. If you can program in BASIC09, C, or OS-9 assembly, you can use **Pixel Blaster** to get the action and speed you want, *under OS-9!* Requires OS-9 Level 2.

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And here are a few of the new goodies for RSDOS!

Special bonus thru 1/30: Buy any 3 programs from these two pages, and take 20% off!

HRS-DOS

This new enhancement, primarily designed for users of RGBDOS and Ken-Ton hard drive systems, allows easy transfer and handling of RSDOS files while running OS9! With *HRS-DOS*, you can check directories of any RSDOS drive on your hard drive system while running OS9, copy in RSDOS files, copy OS9 files to your RSDOS section, and much more! *HRS-DOS* requires no patching of CC3Disk or any other module! For this reason, many users without Ken-Ton hard drives (or any hard drive, for that matter) may well find *HRS-DOS* indispensable for reading in RSDOS floppies! Requires CC3, OS-9 lv 2.

\$19.95

SMARTWATCH DRIVERS

Now, you can make use of the easily-installed Smartwatch realtime clock under RSDOS, and can even use it with the popular shareware terminal program *Ultimaterm*! This software package includes utils for setting and reading the time from RSDOS, and also includes a special *ULTCLOCK.BIN* module. If you don't already have a Smartwatch, we also offer a special package including the chip and drivers. The Smartwatch is easily installed in any disk controller with a 28-pin ROM socket (such as the Tandy FD-502, any Disto model, and many HDS and J&M controllers). Price for chip and drivers is only \$39.95, or purchase the software alone for only

\$14.95

CC3FAX

Now, you can use your CoCo-3 in conjunction with a shortwave radio receiver to receive, view and print FAX transmissions from news services, amateur radio operators...even weather charts and reports from the U.S. Navy! This is the most complete FAX package ever released for the CoCo! Requires 512k CoCo-3, and a shortwave receiver capable of SSB (single sideband) or CW (morse code) reception.

\$29.95

EDT/ASM 6309

EDTASM6309 V1.00.00 for the Coco is now shipping! This is a major patch to Tandy's Disk EDTASM (editor/assembler) and offers many improvements over the original version, including support for both the standard 68809E and the popular new 6309. The program disk includes separate versions for Coco 1/2 and the Coco 3. The only user-noticeable difference is that the Coco3 version uses an 80 column screen and runs in the fast 2MHz mode.

CHANGES TO EDTASM

- Buffer size increased to over 40K bytes.
- Directory obtainable from both Editor and ZBUG.
- Multiple FCB and FDB data per line.
- FCS supported.
- ZBUG now defaults to numeric instead of symbolic mode.
- RGBDOS users now have support for drive numbers higher than 3.
- 6309 opcodes now supported for both assembly & disassembly.
- HD6309 detection is included and if present incorporates a ZBUG error trap for illegal opcodes and enables monitoring and changing the E,F,V register from ZBUG.
- CC3 users can now safely exit to Basic and use the RESET button from within EDTASM.

REQUIREMENTS

You must already own Tandy's EDTASM to make use of this enhanced version. There is a *PATCHER* program on the product disk which will automatically convert your program for use. Selection of Coco 1&2 vs. Coco3 version is automatic. Coco 1&2 versions do require 64K RAM. The Coco 3 version will work with 128K of RAM.

NEW COMMANDS

- V - obtains a directory from either Editor or ZBUG modes.
- FCS - is used exactly like FCC but automatically add \$80 to the last character in the string.
- FCB, FDB - for multiple entries per line entries should be separated by a comma.

SUPPORT FOR 6309 OPCODES

The product disk contains several text files describing the 6309 and the new opcodes. These can be accessed with any word processing program or may be printed by a simple *READER* program also included on the disk.

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PIPELINE

Cer-Comp Ltd. has recently announced a new product named **Window Tools**. Window Tools is a disk utility & repair program for the Window Master point and click environment, with pull down menus, dialog boxes, and other elements to make it a true Windows compatible program. It still provides the most complete set of functions available for the standard RS-DOS system comparable to that of the famous utility available for MS-DOS computers: PC-TOOLS.

Window Tools provides fast and easy operation of standard DOS commands like copy, rename, kill, initialize, and directory through a consistent and easy to use interface. Copy, rename, and kill provide easy visual selection of files, so that

multiple file operations can be carried out with very few keystrokes. Disk directories show the actual number of bytes used by all the files as well as the number of used granules and free granules available on the disk.

Window Tools is also the most comprehensive disk repair program available for the Color Computer 3. It quickly and automatically diagnoses and repairs file allocation errors and corrupt directory information. It locates cross linked files automatically and allows you to view all the granules associated with a file with a simple command. It provides fast and easy recovery of deleted files without the drudgery normally associated with killed file recovery.

Window Tools also provides fast backup and copying of files from disk to disk. It performs full disk and file comparisons, disk and file data

search functions, disk and file view/edit functions, disk and file verification functions, disk and file security erase functions, ASCII file display and print functions and it even has disk speed and step rate testing functions.

And last but not least Window

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