

THE ATLANTA COMPUTER SOCIETY

Presents

# COCO-NUTS

ISSUE 22

January 1997



POSIX - What is this thing?  
POSIX is a term here banted  
about in conversations. POSIX is  
an acronym for Portable  
Operating System Interface. The  
'x' is to make it sound like  
'Unix'. There are several layers  
to POSIX. Here are the details:

POSIX.1 - this standard  
dictates implementation of  
source code portability

'la' covers system interface  
extensions

'lb' covers "real time" aspects

'lc' covers "threads"

'ld' covers "real time"  
extensions

'le' covers security

'lf' covers transparent file  
access

'lg' covers protocol independent  
services

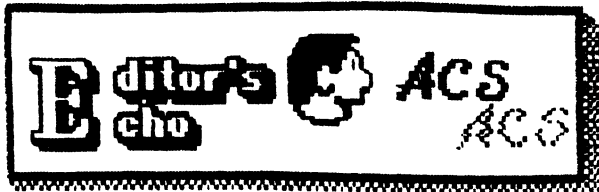
'lh' covers fault tolerance  
POSIX.2 - this standard dictates  
shell programs and utilities  
which an operating system  
\_must\_ provide.

POSIX.3 - this standard  
provides the testing &  
verification specifications.

POSIX.4 - this standard covers  
"real time" programming and  
'threads'. (What are threads?  
Later in this article)

POSIX.5 - this standard covers  
the Ada-language API  
corresponding to POSIX.1

As you can see, the POSIX  
standard covers a lot of  
territory. There are other POSIX  
layers, but they haven't been  
officially added yet. They are  
still under consideration.  
Threads - the envelope please!!!  
(drum roll) Threads are  
"concurrently executing blocks  
of code within one program".  
Duff said!



Greetings Cocofolks.  
 Many apologies for no  
 December issue.  
 It seems that article subs are  
 waining and one column  
 newsletters won't do.  
 Again, sorry for any  
 inconvenience.

**Adventure Survivors**  
 Simonthly Newsletter: Adventure Reviews, Maps,  
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 By SCOTT Sattembro: All CoCos, CMP/TV  
**TOMB OF TIEN** and **MR. COREY** (These are  
 copy-protected), each .... \$ 7  
**HONOR QUEST**, Arcade/Adventure, CoCo 3,  
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 Peachtree City, GA 30269-1421



Great Monitor Conversion:

-----  
 by Terry Dodson

Dear CoCo enthusiasts and  
 friends, lend me your ears. I've  
 got good news for you. There's a  
 monitor conversion you can  
 make in your spare time that'll  
 bring you years of pleasure.

I'm speaking of the  
 Amiga/Commodore 1084s (stereo)  
 Color Monitor, a very good one  
 indeed. As you will see from the  
 1084 tech docs included, there is  
 an 9-pin D-Plug in the rear for  
 R & B signals. This is ideal for  
 our wonderful CoCo 3, since the  
 pinouts are virtually the same.  
 There are only two wires NOT  
 USED in the whole process.

Parts needed:

- 1- D- Subminiature  
 Crimp/Solder-Type  
 Connector  
 Radio Shack part # 276-1428
- .....1.49
- 1- Sshielded/Metalized Hood  
 D-Type  
 9-position pt.\* 276-1513

.....1.49

1- DS-10 Straight Pin Female socket

pt.\* ???????

.....1.79

1 section 3-4 ft. 10 strand ribbon cable

.....est.... .50

Using these parts I listed above or from your own junk box you can have your 1084s going in a matter of hours. I took a little longer since I made my first request to Marty Goodman back in November of 1996, but as soon as the reply came back it didn't take me long at all.

I did phone a few of my CoCoNut pals to get some sage advice.

R.C. Smith helped me with the CoCo Monitor pin locations.

And Al Dages was well equipped with a well stocked junk box as well my own junk box, which I recently stocked with many great items.

This project was a lot of fun for me and I was helped by good friends who made it easy for me to accomplish this project. Thanks to you all. Maybe I'll be able to help them too, they've certainly given me more than I asked for.

Thanks goes to:

R.C.Smith, Al Dages, Warren

Hrach, Marty Goodman, and last and least Radio Shack

Thanks You Bunch of Crazy CoCoNuts

Dodson Terry  
#8-)+

**SMALL GRAFX ETC.**

**NEW - THE TOOL - NEW**

512K Upgrades \_\_\_\_\_ \$50.00  
 Hitachi HD63809E CPU & Socket \_\_\_\_\_ \$13.00  
 "Y" / "TRI" Cables Made Special 40 pin  
 Male or Female connectors EA \_\_\_\_\_ \$ 6.50  
 Rainbow 40 wire ribbon cable min/ft \_\_\_\_\_ \$ 1.00  
 2400 Baud External Modem (Brand New) Hayes-compatible Class 5 Mnp \_\_\_\_\_ \$30.00 / Cable \_\_\_\_\_ \$5.00  
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 Bold Print) \_\_\_\_\_ \$10.00  
 CGP-220, PJ-1080A, QuadJet Printer Special Ink Refill Kit \_\_\_\_\_ \$50.00

**\*\*\* THE TOOL. \*\*\***

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SERVICE PARTS, HARDWARE AND OPHRANWARE / TANDY SOFTWARE AVAILABLE ALL WITH COMPLETE DOCUMENTATION. ALSO, CANNON, HP INKJET REFILL KITS, AND PRINTERS RIBBONS

**TERRY LARAWAY 41 N.W. DUNCREE DRIVE  
 BREMERTON, WA 98311 360-692-5374**

Date: 04-Dec-96 08:15  
From: Warren Hrach  
To: Terry Dodson  
Subj: Commodore 1084s Monitor  
Previous Reply is Message #16445. Next Reply is Message #16574

TD> .Hi Marty, I'm Terry Dodson calling from Atlanta, Ga.  
TD> .In particular, the Atlanta Computer Society.  
TD> .I recently recieved a Commodore 1084-s  
TD> color/RGB/analog/digital  
TD> .monitor. It is switchable in front and back.  
TD> .There is a 9-pin male DB-9 plug in the rear for RGB.  
TD> .Could you please list the correct way to adapt this monitor  
TD> .to the Color Computer 3 512k.  
TD> .Please allow me to thank you now for any info you may have  
TD> .for me toward this conversion.  
TD> . Terry Dodson  
TD> .  
TD> .ps-If you wish you may direct your response to:  
TD> . The Atlanta Computer Society  
TD> . (404)-636-2991  
TD> . Terry Dodson OS-9 Echo or CoCo Echo  
TD> . Thanks a Million  
TD> . \*8-)+  
TD> .  
TD> Warren: If you could further this message to Marty Goodman,  
TD> I would be very grateful, as I would like to use this monitor if  
TD> at all possible.  
TD> .  
TD> . Thanks a bunch  
TD> . Terry Dodson  
TD> . ACS Librarian  
TD> --- QuickBBS 2.76a  
TD> \* Origin: ACS Inc. BBS 404-636-2991 (1:133/510)

Warren Hrach's Reply:

-----  
Terry:  
I did forward to Marty as you asked.  
'martygoodman@delphi.com' but  
have not heard back yet. It usually takes a few days for Marty to  
answer.

It usually takes a few days for Marty to answer his E-mail. As soon as he does reply to you , I will crosspost to you ASAP.

Warren

--- FMail/Win32 1.22

\* Origin: INTERFACE San Diego (1:202/719)

Reply From Marty Goodman to Warren Hrach & Terry Dodson:

---

17 Dec 1996 20:13:47 -0500 (EST)  
Date: Tue, 17 Dec 1996 20:13:47 -0500 (EST)  
From: Marty Goodman MD KC6YKC <MARTYGOODMAN@delphi.com>  
Subject: Re: monitor  
To: warren@ocnbeach.maximumaccess.com  
Message-id: <011D4DDMYBCZS8Y5VNI@delphi.com>  
X-VMS-To: ID%"warren@ocnbeach.maximumaccess.com"  
MIME-version: 1.0  
Content-type: TEXT/PLAIN; CHARSET=US-ASCII  
Content-transfer-encoding: 7BIT

I apologize for this late response, but I've been off EMAIL for the last 3 weeks or more.

The Amiga 1084-S monitor can be used with a CoCo3, and works well with it.

I need a little more info, tho... I take it this monitor has only a 9 pin DB connector in the rear?

Try this: Feed R,G, and B into pins 3,4, and 5 of the monitor. Make pins 1 and 2 ground. And feed H and V sync into pins 8 and 9 of the DB connector.

Select analog input mode.

IF this does not work, then try combining the CoCo's H and V sync to a composite negative sync. Feed them into the inputs of a two input

NOR gate (74LS02 has four such). Then feed the output of that NOR gate into pin 6 of the amiga's monitor DB connector.

Some Amiga monitors will not work in analog mode unless fed a combined negative sync signal on pin 6.

Others work fine with the separate, positive H and V sync on pins 8 and 9, the sync produced by the CoCo.

OF course, you need regulated 5 volts for the 74LS02 chip.

---marty

---

Amiga/Commodore 1084s Color Monitor Jack PinOuts & Tech Info  
from 1084s documentation.

High Resolution.....Commodore 1084s Stereo  
1988 Video Color Monitor

---

Full Color.....Composite (NTSC standard)  
13 ".....Separated LCA (Luma-Chroma-Audio)  
RCA (phono jacks).....Digital RGBI (Red/Green/Blue/Intensity)  
Audio L Audio R.....Stereo speakers  
Analog RGB.....40 Column and 80 column display  
9 Pin-D-connector.....Digital and Analog  
Adjustments include.....Horiz.,Vert.,Color,Tint,Brightns.,Contr.,  
Volume,Video Mode Switch

---

#### Technical Specifications

\*\*\*\*\*

Picture Tube.....13 inch, in line dot, pitch 0.42mm  
Deflection.....90 degrees  
Resolution.....640 x 200 lines  
Raster Frequency.....60 Hz  
Line Frequency.....15 750 Hz  
Character Field.....RGB, RGBI-2,000 characters  
Composite, Separated LCA -  
1,000 characters

#### Video Signal (by port):

LUMA (composite video)....1vp-p, 0.3v sync, 75 Ohm  
LUMA (luminance signal)....1vp-p, 0.3v sync, 75 Ohm  
CHROMA (chroma signal)....1vp-p, 0.3v sync, 75 Ohm

9-Pin-D (RGB Analog).....0.7vp-p, 75 Ohm  
( DB-9 ) (RGBI Digital)....TTL levels

```

*****
Pin No.....Connection      *
*
1.....Ground              *
(.....) *
2.....Ground              *   0   0   0   0   0
*
3...*....Red              *       1   2   3   4   5 /
*
4...*....Green            *
*
5...*....Blue             *
*
6...*....Intensity        * 0   \ 6   7   8   9   /
0 *
7.....N/C                 *       \ 0   0   0   0 /
*
8.....Horizontal Sync    *
*
9.....Vertical Sync      *
*

```

\*\*\*\*\*

Sound Output:.....1.0 WRMS/channel

Audio Signal:.....1.0vp-p, 10K Ohm

Mains Voltage:.....120 v +/- 10% / 3-prong plug

Power Consumption:..75 Watt

Dimensions: (HxWxD)..330 x 357 x 378mm

13 x 14 x 14.8 in.

Weight:.....11.5kg (25.3 lbs.)

Monitor Jack Pin

CoCo 3 ( Radio Shack Color Computer 3 )  
RGB Video Pinouts

10-pin straight pin female connector pinouts

cord side

```

*****
*
*   0       0       #       0       0 *
*   2       4       6       8       10 *
*
*   0       0       0       0       0 *
*   1       3       5       7       9 *
*****
*
***

```

**Monitor Jack Pin**

**PinOut Def.**

**Color Code**

- | <b>PinOut Def.</b>              | <b>Color Code</b> |
|---------------------------------|-------------------|
| 1- Ground.....                  | orange/black      |
| 2- Shield Ground.....           | orange/red        |
| 3- R....(Red).....              | yellow/black      |
| 4- G....(Green).....            | yellow/orange     |
| 5- B....(Blue).....             | Lt.green/black    |
| 6- N/C..(not connected).....    | Lt.green/orange   |
| 7- Sound.....                   | grey/black        |
| 8- Horiz. Sync.....             | grey/orange       |
| 9- Vert. Sync.....              | white/black       |
| 10- 5 volts. No-Connection..... | white/orange      |



ACS MEMBERSHIP LIST AS OF 19-JAN-97 PAGE 1

NAME	ADDRESS1	ADDRESS2	CITY	ST	ZIP	PHONE	BUS PH.	COMP	PAID	TYPE
ACS, CLUB LIST		P.O. BOX 96694	ATLANTA	GA	30366	636-2991	ACS-885	COCO	9999	C
ADAMS, EUGENE C.		135 LLOYD DR.	MARIETTA	GA	30066	422-3097		COCO	9707	H
BERGERSON, CHRIS		3195 PARLIAMENT DR	LAWRENCEVILLE	GA	30243	963-1316	963-1433	COCO	9707	H
DAGES, ALAN R.		4894 CANDLEWOOD LN.	STONE MOUNTAIN	GA	30088	469-5111	498-2496	COCO	9707	H
DANIEL, E. FRANK		3640 NO. COOPERLAKE RD.	SMYRNA	GA	30082	436-8967		COCO	9707	H
DAUGHTERS, WYNNE		300 WOODCHUCK COURT	ROSWELL	GA	30076	993-1651		COCO	9707	H
DOODSON, TERRY B.		3 TINGLE LANE	PALMETTO	GA	30268	463-1803	892-1988	COCO	9707	H
ENGLAND, CARL		112 MITCHELL ST. NE	CALHOUN	GA	30701	602-9536		COCO	9707	H
FAIR, EDWIN R.		P O BOX 484	TUCKER	GA	30085	938-9844	938-3998	6809	9707	H
FISH, KENNETH C		4589 KATHY CIR	POWER SPRINGS	GA	30073	439-5117		COCO	9707	H
FORREST, ALEX		2940 SO REDDITT DR LOT 74	LUFKIN	TX	75904	329-4005		COCO	9707	H
HOBBS III, JOHN E.		3485 DeMOONEY RD	COLLEGE PARK	GA	30349	964-4413		COCO	9707	H
HUFFMAN, ALLEN		P.O. BOX 22031	DESMOINES	IA	50325	987-2901	987-7909	COCO	9707	H
KELLER, EARL R.		1900 S. COBB DR APT A-10	MARIETTA	GA	30060	436-5094		COCO	9707	H
KOCOCUREK, THOMAS	** EXPIRED **	396 LAUREL TRACE	CARROLLTON	GA	30117	214-2201		COCO	9607	X
LARAWAY, TERRY K.		41 N.W. DONCEE DR.	BREMERTON	WA	98311	692-5374		COCO	9707	H
LITTLE JR., TRUMAN H		4897 LOU IVY RD.	DULUTH	GA	30136	448-7157		COCO	9707	H
MAGUIRE, DAN		115 URSA ST.	ORANGE PARK	FL	32073	272-3653		COCO	9707	H
McKEON, PHILLIP W.		500 BRENTWOOD CT.	ROSWELL	GA	30075	998-6324		COCO	9707	H
PADGETT, L.E.		24 PERTSHIRE DR.	PEACHTREE CITY	GA	30269	487-8461		COCO	9707	H
SHELL, MICHAEL		2225 MURA DR.	AUGUSTA	GA	30906	320-0933	793-3606	COCO	9707	H
SMITH, LOYD L.		9225 BLUEJACK LANE	ROSWELL	GA	30076	993-7760		COCO	9707	H
SMITH, R.C.		542 MARTIN RD.	STONE MOUNTAIN	GA	30088	469-6601		COCO	9707	H
TANON, LUIS	CALLE 2 M-12	005 RIOS	LEVITTOWN	PR	00949			COCO	9707	H
WHITE, NEWTON		349 WILLIVEE DR.	DECATUR	GA	30033	325-5348	676-7384	COCO	9707	H
WILLI, TED		P.O. BOX 447	ATHENS	GA	30603	354-8422		COCO	9707	H
WILLIS, BETTY		3143 KENSINGTON RD.	AVONDALE ESTATES	GA	30002	296-5461		COCO	9707	H

RECAP:

TOTAL RECORDS PRINTED = 27  
 TOTAL EXPIRED RECORDS = 1  
 FILE LAST UPDATED 19-JAN-97