

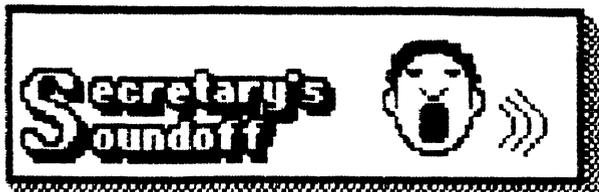
THE ATLANTA COMPUTER SOCIETY

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". Ruff 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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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- Shielded/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

Terry

Dodson

±8-)+

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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: Commadore 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 Commadore 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

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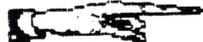


ALLEN HUFFMAN  
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Address Correction Requested

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February 11, 1997 Executive Meeting Shoney's Jimmy Carter Blvd, Norcross