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Subject: Kaypro connected to LAN at 9600 baud  
Posted by [treid](#) on Wed, 01 May 1985 20:31:51 GMT  
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Article-I.D.: brl-tgr.10335  
Posted: Wed May 1 16:31:51 1985  
Date-Received: Fri, 3-May-85 20:17:58 EDT  
Sender: news@brl-tgr.ARPA  
Lines: 9

I have been trying to get my Kaypro to work on our LAN at 9600 baud through a ROLM data phone (Kaypro goes to back of phone with a normal RS-232 cable). The Kaypro is a IIx with two serial and one parallel ports. The symptoms are problem is that about 1/3 of the characters are lost on data from the LAN. The Kaypro works fine on 1200 baud with a Ventel modem and dialup.

Is this a known problem with the Kaypro's? Or do all roads lead to ROLM?  
Thanks in advance for any help. Tom.

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Subject: Re: Kaypro connected to LAN at 9600 baud  
Posted by [bridger](#) on Thu, 02 May 1985 02:24:49 GMT  
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Article-I.D.: brl-tgr.10349  
Posted: Wed May 1 22:24:49 1985  
Date-Received: Sat, 4-May-85 04:07:31 EDT  
Sender: news@brl-tgr.ARPA  
Lines: 16

The Kaypro 4-84 boards (new kaypro 2's, kaypro 4's and kaypro 10's) --those with reverse video, etc. -- use screen memory that is accessible only through the video controller. The Kaypro factory roms are rather slow and fall behind when scrolling (e.g. when the cursor gets to the bottom of the screen and a linefeed is sent). 1200 baud is about the limit for continuous-stream text.

Plu\*Perfect Systems is writing a new rom for Kaypros that includes a snappier video driver. I've used a test version effectively at 4800 baud, and with almost no glitches at 9600. That seems to be the limit of what can be done in firmware, given the hardware memory interfacing.

When ready, it will be available from them and Advent Products.

--bridger mitchell

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Subject: Re: Kaypro connected to LAN at 9600 baud  
Posted by [Anonymous](#) on Fri, 03 May 1985 20:24:32 GMT  
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Originally posted by: harmonj%marlin&#64NOSC.ARPA (James E. Harmon)

Article-I.D.: brl-tgr.10418  
Posted: Fri May 3 16:24:32 1985  
Date-Received: Mon, 6-May-85 01:30:20 EDT  
Sender: news@brl-tgr.ARPA  
Lines: 16

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Tom,  
I didn't get a good return address so I'll reply to the net.

I have had the same problem with both a Kaypro 2 and a Kaypro 4 when they are connected to a Sytek LAN here at NOSC. It skips part of a line at any speed greater than 1200 baud. I have used Kaypro's TERM program, MODEM7, KERMIT, and the NOSC TRANSFER terminal programs on the Kaypros with the same result.

1200 baud works fine for both the Sytek LAN and the Hayes Smartmodem 1200.

Good Luck,

Jim Harmon  
(harmonj@NOSC)

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Subject: Re: Kaypro connected to LAN at 9600 baud  
Posted by [hugh](#) on Mon, 06 May 1985 16:43:31 GMT  
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Article-I.D.: hcrvx1.1156  
Posted: Mon May 6 12:43:31 1985

Date-Received: Fri, 10-May-85 05:41:38 EDT  
References:  
Reply-To: hugh@unix.UUCP (Hugh Redelmeier)  
Organization: Human Computing Resources, Toronto  
Lines: 16  
Summary:

> I have had the same problem with both a Kaypro 2 and a Kaypro 4 when they  
> are connected to a Sytek LAN here at NOSC. It skips part of a line at  
> any speed greater than 1200 baud. I have used Kaypro's TERM program,  
> MODEM7, KERMIT, and the NOSC TRANSFER terminal programs on the Kaypros  
> with the same result.

The Kaypro does scrolling by moving all the characters in the video RAM up one line (using a Z80 block move instruction). This takes a long time. The solution is to use a program that can accept input from the host while the scrolling is being done. This is not trivial because it requires an interrupt handler that bypasses the BIOS. It might be necessary to have XON/XOFF handshaking too. I wrote such a program and use it regularly on my Kaypro II (talking at 9600 Baud to my UNIX machine). Micro Cornucopia also has one on a public-domain disk (and much other stuff of interest to Kaypro hacks).

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Subject: Re: Kaypro connected to LAN at 9600 baud  
Posted by [Anonymous](#) on Tue, 07 May 1985 01:50:00 GMT  
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Originally posted by: ceb&#64inmet.UUCP

Article-I.D.: inmet.16600005  
Posted: Mon May 6 21:50:00 1985  
Date-Received: Fri, 10-May-85 01:37:49 EDT  
References:  
Lines: 17  
Nf-ID: #R:brl-tgr:-1033500:inmet:16600005:000:611  
Nf-From: inmet!ceb May 6 21:50:00 1985

The Kaypro is too slow to run at 9600 baud for terminal emulation.

I had a Kaypro 2 and now have a Kaypro 10. Neither machine can put characters on the screen much faster than 1800 baud when using Kermit (or other terminal emulation programs).

It may be possible to buffer the arriving characters and compensate for the slowness of the rom-based screen handling routines if interrupt routines are used to avoid losing characters during "expensive" operations (scrolling, clear display, etc.).

For file transfers I regularly use 9600/19200 baud when directly connected to Unixes or other micros.

/ceb\  
  

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