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A/UX: How To Use With Apple Modem 2400

Revised: 9/24/92
Security: Everyone

A/UX: How To Use With Apple Modem 2400

Article Created: 18 January 1990

Article Change History

08/31/92 - REVIEWED
o For technical accuracy.

TOPIC -----

While testing the new prerelease Apple Modem 2400 with A/UX, I was unable to get it to function properly by using "getty" in the /etc/inittab. The modem answered the phone but never produced a tone. The phone hung up.

When I changed /etc/inittab to use "apm_getty", the modem answered the phone and presented a tone, but it would connect at 1200 only -- not at 2400. Changing the apm_getty parm to "at_2400" did not solve the problem. This is the /etc/inittab entry that I am using:

```
00:2:respawn:/etc/apm_getty tty0 at_2400
```

Can you suggest something that would work with our new Apple Modem 2400 and allow it to operate at 300, 1200, or 2400 as determined by the speed of the incoming modem?

DISCUSSION -----

We configured the Apple Modem 2400 for dial-in use with the standard getty. The apm_getty operates only at 1200 baud. It is intended for use only with the 1200-baud Apple Personal Modem, which can't remember settings between resets.

Here are the steps we followed:

- 1) Connect the Apple Modem 2400 to the Macintosh modem port with cable (M0197, 590-0552). Turn on the modem.

2) Edit the file /usr/lib/uucp/L-devices to add this line:

```
DIR      tty0      tty0      2400
```

3) Open a connection to the modem using cu:

```
#cu -l tty0 -s2400      <- typed by you
Connected               <- returned by cu
```

4) Recall factory settings, change for dial-in use, and save the new settings:

```
AT&F                  <- typed by you
OK                   <- returned by modem
AT E0 Q1 &C0 &D2 S0=1 &W <- typed by you (0 is a zero)
                        <- nothing is returned because of our settings
```

5) Edit the file /etc/inittab to respawn a getty on tty0:

```
00:2:respawn:/etc/getty tty0 mo_2400
```

6) Edit /etc/gettydefs to limit rollover between 2400 and 300. Edit the mo_2400 line to end with mo_2400 instead of mo_9600.

7) Start the getty process with INIT:

```
#INIT q
```

8) Dial in from another modem.

(NOTE: This configuration does not allow A/UX to sense a loss of the Carrier Detect signal -- that is, an accidental disconnection can result in the next caller getting the disconnected caller's login. Enabling this requires a different cable that connects the GPi line (pin 7) from the modem to the HSKi line (pin 2) of the Macintosh modem port. It also would require modifying the modem setup string (in step 4) to set &C1 instead of &C0.)

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Tech Info Library Article Number:4995