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DAL, Duo 230 With Express Modem, and Protocol Converter 8/93

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Security: Everyone

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TOPIC -----

I'm having trouble with a protocol converter access to DAL when using a PowerBook Duo 230.

If I make a protocol converter connection from a desktop Macintosh with modem attached, everything works properly. However, I'm not able to get either a PowerBook Duo 230 with an Express Modem, or the Duo in a Duo Dock with an external modem to work.

DISCUSSION -----

We have done extensive testing and have the answer for you:

- 1) The Duo cannot be docked if the internal (Express) modem is being used to access a Protocol Converter (pcrv). There was no way that I was able to get DAL to even be able to take that modem "off-hook" when the Duo was docked.

If the desired access is to a VAX, then the AsyncCTB (CommToolBox) network adapter can be used successfully with a docked Duo and the Express modem.

- 2) With the Duo docked it is possible to use another, external modem. I used both the Apple Personal (300/1200) modem and a Hayes Optima 96 modem. For this configuration:
 - The Control Panel document for the "EXPRESS MODEM" must be turned OFF
- 3) With the Duo undocked, you CAN use the internal modem:
 - The Control Panel for the "EXPRESS MODEM" must be ON
 - The Control Panel for the "POWERBOOK" must be set to INTERNAL

Because the Express Modem is more sophisticated than DAL is prepared to handle,

you MUST tell DAL that you are not using a modem and instead send the correct modem strings to reset, dial and hang-up in the DAL connection script. (See sample script below.)

The following is a connection script that has been successfully tested (repeatedly) with the internal Express Modem in a PowerBook Duo 230. The modem strings for this script were originally written for the Hayes Optima 96 and were successful with the Express Modem, so I think that they should work for anyone using the internal Express Modem. (Different external modems may require changes to the modem strings.)

```
rem:: This is a script for a Duo 230/210 with the Express Modem
rem:: The Duo CANNOT be docked !!
rem:: The Control Panel document for the "POWERBOOK" must be set to
rem::     INTERNAL
rem:: The baud rate in the script cannot be set to more than 9600 --
rem::     regardless of the modem's actual max speed supported by other
rem::     apps
rem:: You have to tell DAL it is NOT using a modem.
rem:: The script must send the correct modem strings for your modem.
rem::     This is because the modem in the PowerBook Duo is too advanced for
rem::     DAL's usual approach to a modem.
rem:: The modem strings in this script were for using a Hayes Optima 96 and
rem::     worked with the internal modem in the PowerBook Duo.
```

```
duck:pcrv:TSO:7171:com1:9600:No:8data:1stop:Both:128:NoModem:T:9,5551212:
32:1
duck:login:1:\mREADY\slogoff\r\mlogon\w2\s+++\w2\sATZ\r\mOK\sATH0\r:2000:
4000::\sATZ\r\mOK\sAT&FL1 W1 &K0 &W0\r\w2:\sATDT9,5551212\r\w45\mCONNECT
\w2\r\mTYPE\svt100\r\mlogon\stso \u\r\mPassword\p\r\mREADY\x600
```

... Note: this sample script may contain extra carriage returns if you paste it out of AppleLink into your DAL Preferences file. Please be sure to check that there are only two (2) carriage returns. 1 at the end of each portion that begins with "duck:". (These two are required.) If there is a carriage return "within" the login definition portion (the 2nd "duck:"), the DAL client will think that the connection script is terminated at that point, and will try to send the server launch command. Since it is not truly at the end of the connection script, the connection attempt would fail. So, be sure there are no carriage returns between the 2nd "duck:" and "\x600". ...

The parameter "NoModem" on the first line of the script is what keys the DAL Client to not try to control the modem itself. The phone number information on the first line is just an FYI, the actual phone number used is the one in the ATDT string in the second portion of the connection script.

We think that this script should work for you. However, you will have to change the protocol converter type (7171 in this script) to the name of the file you usually use!

Article Change History:

31 Aug 1993 - Included Note regarding script and extra carriage returns.

Support Information Services

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