U1 & U2 VCC is supplied by the microcontroller. Use 3.3V for Arduino Due & RaspberryPi and 5V for Arduino Mega. U1 is a 74LVC14 for a 3.3V and 74HC14 for a 5V system. The 74LVC14 is only available in SMD packages.

The 180/390 Ohm terminating resistor network on the RXV11 / RXV21 and on the emulator side in the worst case (PDP11 switched off) require about 600–700 mA current, the microcontroller, e.g., Arduino or RaspberryPi usually can't supply.

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