



Application Note #1317

Lost Characters on DMC-1500

The DMC-1500 controller may experience lost characters through the serial port. This may happen as a result of a flaw in many commonly used UARTs (serial communication integrated circuit). This UART is part of the computer hardware; not the DMC-1500. UARTs with this flaw do not properly check handshaking before sending data, which can cause loss of data. The method for data transfer by the operating system can affect this problem, and it has been seen on Windows 95 and Windows 3.1.

Galil has developed a new DLL to insure that proper handshaking occurs. This DLL has been effective in eliminating this error on Windows 95 but not with Windows 3.1. To correct this problem, replace DMCSR32.DLL with a version of 1/28/98 or newer.

The following UARTS are known to have this flaw:

TI 450
TI 550
TI 552

The following UARTS do not have this flaw:

TI 1650
TI 1750
Oxford Semiconductor 952

To ensure that this problem does not affect the communication between your computer and controller, the user may also purchase a separate serial interface board with a UART that does not have this flaw.