Copley Drive additional functionality.

From Firmware revision 3.02 onwards 3 additional mode are supported, which are set using Register 0x24. (these tests were performed using a BE2 with 3.10 firmware.

7 – current mode slave. Axis is in current mode and follows the current command of the other axis.

17 – Velocity mode slave. Axis is in velocity mode and follows the velocity command of the other axis.

27 – Position mode slave. Axis is in Position mode and follows the position command of the other axis.

Set one axis up normally and the other axis to one of these slave modes. I will then follow the command of the first axis.

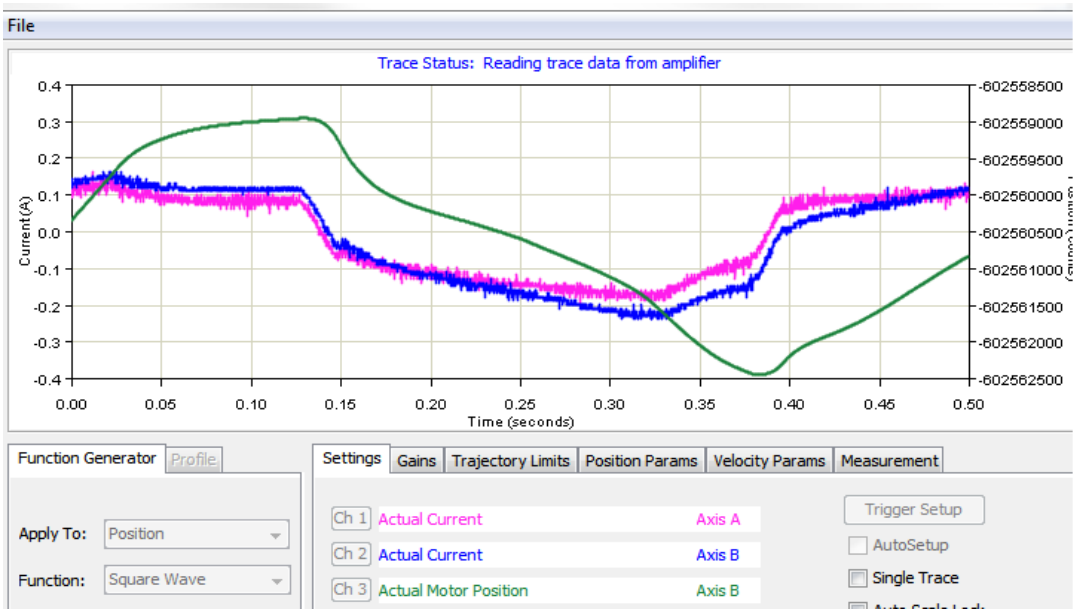
Note Version 7.1 (release is required to ensure the correct mode message is display in the control panel, else "unknown" will be displayed. However, it should still operate using the ascii commands.

To make the A axis the master, set axis A to the required mode.

Using the Ascii command line function type: s r0x24 7 (for current mode)

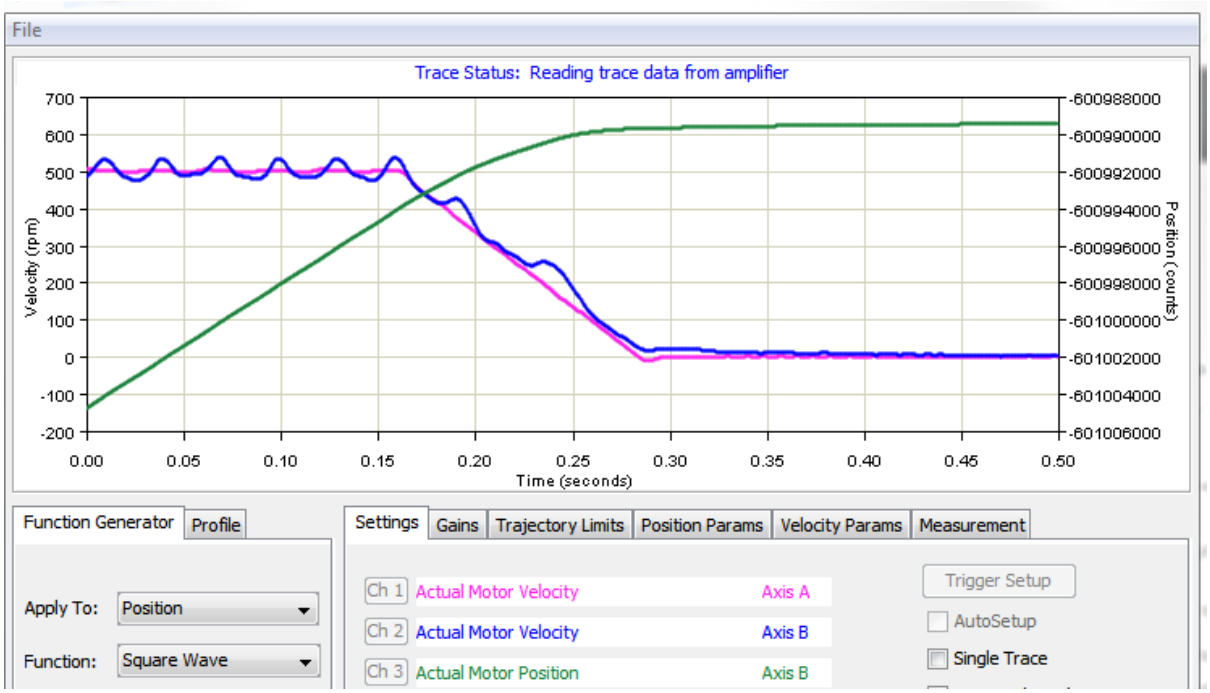
Command the B axis (Master) as required. i.e .using the control panel for testing purposes.

Below shows the current in both axes, as the master is moved.



If you require the A axis to be the master, then set the B Axis as the slave using the following command in the B axis command line function: .b s r0x024 7

Here is an example of the B Axis following the A Axis velocity. (.b s r0x024 17)



Here is an example of the B Axis following the A Axis position. (.b s r0x024 27)