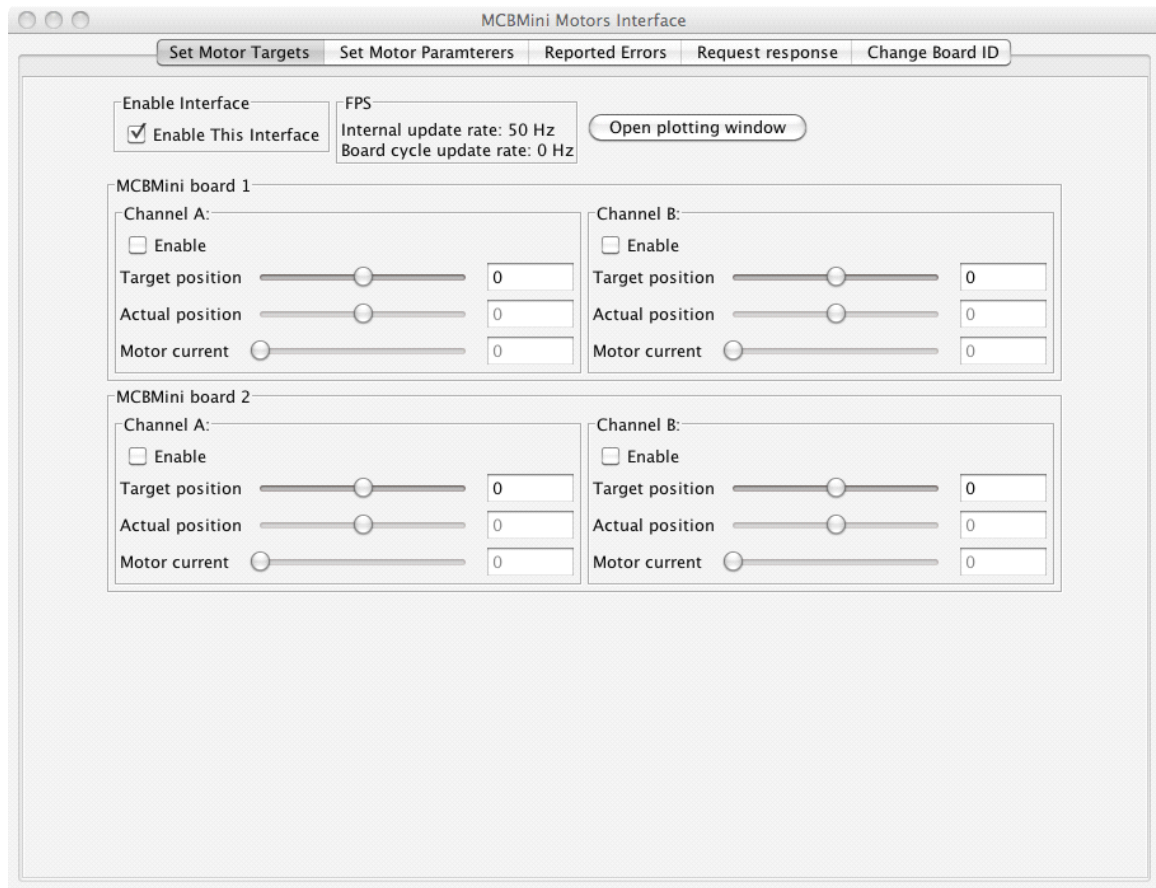


Screenshots from GUI:



This is the main motor target window where a user can specify motor target positions or velocities and observe instantaneous feedback values.

MCBMini Motors Interface

Set Motor Targets Set Motor Paramterers Reported Errors Request response Change Board ID

Motorboard 1

Channel A

Position

P Gain 40

D Gain 20

I Gain 10

Downscale 4

Velocity

P Gain 25

D Gain 100

I Gain 50

Downscale 0

Time Delta 2

Maximum Velocity 20

Maximum Acceleration 20

Polarity

☐ REGULAR ☒ FLIPPED

Feedback

☒ ENCODER ☐ POT

Control

☒ POSITION ☐ VELOCITY ☐ MIXED

Stream

☒ OFF ☐ ON

Channel B

Position

P Gain 40

D Gain 20

I Gain 10

Downscale 4

Velocity

P Gain 15

D Gain 30

I Gain 25

Downscale 0

Time Delta 4

Maximum Velocity 20

Maximum Acceleration 20

Polarity

☐ REGULAR ☒ FLIPPED

Feedback

☒ ENCODER ☐ POT

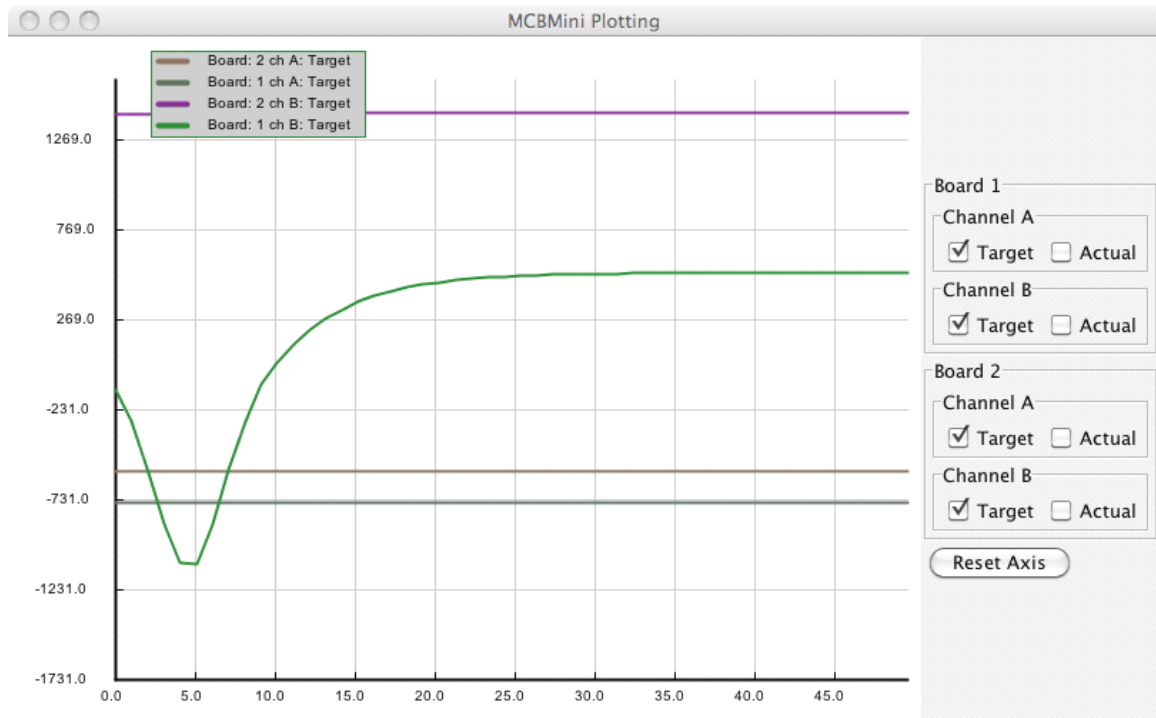
Control

☐ POSITION ☐ VELOCITY ☒ MIXED

Stream

☐ OFF ☒ ON

In this window the user can specify various parameters for the boards and change them on the fly. These parameters are read from a configuration XML file.



In this window the user can observe target and actual values for all the controllers. This is often crucial to tune the controllers for different setups.