Background and Instructions for bbrecord

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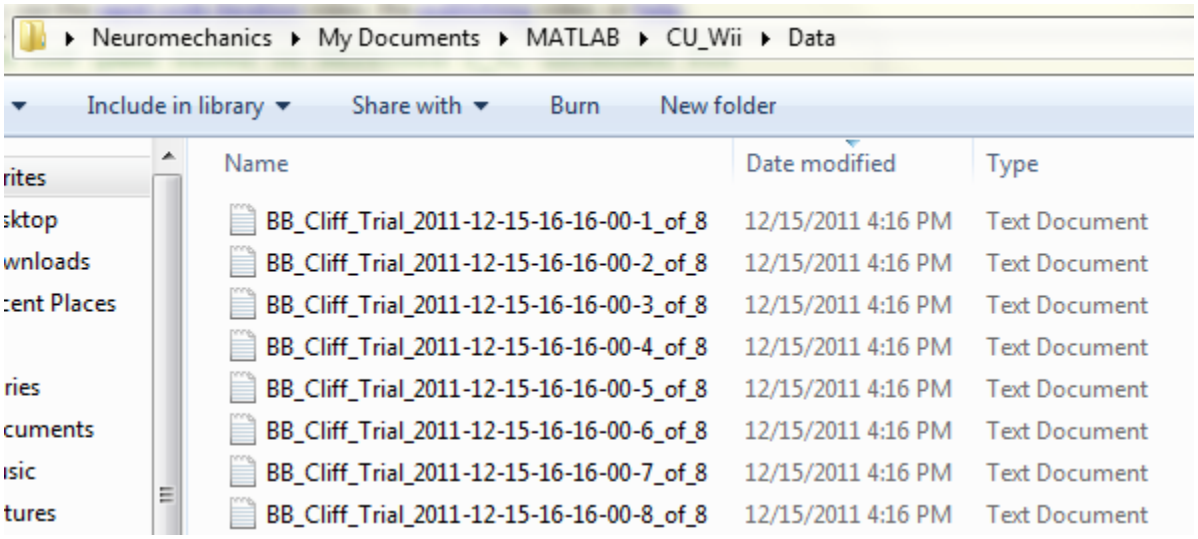
1. What is it?
    a. bbrecord is a MATLAB program for displaying Center of Pressure (CoP) in real time, for recording CoP data sets, and for comparing multiple CoP data sets. It collects data from the Wii Balance Board.
2. What does it do?
    a. bbrecord displays the CoP in real time.
    b. The cursor scales with force. If the force is too small, then the cursor will not appear.
    c. You have to record a data set before you can use "show results." It only shows the two most recent recordings.
3. How do I use it?
    a. Calibration
        i. Bbrecord needs to be calibrated. It records the force with a weight on it as well as the force with nothing on it. You have the option to calibrate any time that you restart bbrecord, but calibration is required each time that you restart MATLAB. The forces displayed in the upper-left-hand corner of the screen are scaled linearly to match the calibration.
    b. Data Collection
        i. Manual recording
            1. Click the Start Recording button to start recording.
            2. Click again to stop recording and finish the trial.
            3. Repeat steps 1 & 2 to record multiple trials in sequence.
            4. Click Show Results when you are done.
        ii. Timed Recording
            1. Push the Timed Recording button.
            2. Enter the number of seconds that you would like to record for.
                a. The default save duration is ten seconds.
            3. Click the Start Recording button to start recording.
                a. After the chosen recording duration, the trial will stop itself.
            4. Repeat step 3 to record multiple trials in sequence.
            5. Click Show Results when you are done.

c. Data Access

i. Data is saved to text (.txt) files in the data folder. Each trial is saved to a separate file, with a name corresponding to its order in the series of trials. For example:



ii. These can be opened and manipulated in spreadsheet software such as Excel.