

1.2 Basic Usage

Startup

1. Follow the Hardware Setup outlined in section 0.3 Hardware Setup.
2. At each endpoint right click on the relevant launch file (found in the \Batch Scripts directory, “**launch_A.bat**”, “**launch_B.bat**” and “**launch_TB.bat**”. Select “**run as administrator**”.
3. At performer endpoints the launch script will launch JACK, Jacktrip, Reaper and the MATLAB participant GUI. At the Control Room endpoint the launch script will launch Jacktrip.
4. In the Jacktrip CMD windows, wait until you see the message “received connection from Peer!”.
5. Once the “received connection from Peer!” message in Jacktrip is observed in each instance of Jacktrip at each endpoint, a second set of scripts must be run to configure JACK connections. At each endpoint right click on the relevant connections file (found in the \Batch Scripts directory, “**connections_A.bat**”, “**connections_B.bat**”, and “**connections_TB.bat**”). Select “**run as administrator**”.
6. The system should now be ready to use.

Test Sequence

1. After a welcome screen, the MATLAB GUI will prompt each participant to input personal information. When personal information is input, it is saved to a generated file with the naming convention “**personalData_participantID.xlsx**”. This file is saved to the current MATLAB directory.
2. The MATLAB GUI then proceeds to provide a brief description of each Likert rating item for the participants.
3. Participants are then invited to practice performing freely for a brief amount of time prior to beginning the testing protocol.
4. The MATLAB GUI then sets latency and audio conditions by sending OSC messages to the DAW. Performers are prompted to attempt the performance task under the specified conditions, and then are invited to provide rating of 5 Likert items. Each time rating is input for any Likert item, the Likert ratings are saved to a generated file with the naming convention “**likertData_participantID.xlsx**”. This file is saved to the current MATLAB directory.
5. When one performer is finished rating they may click “Next”. They will be prompted to wait if their co-performer has not also clicked “Next” – and will be notified that their co-performer is ready if they have also clicked “Next”. When both performers are ready the system will increment to the next set of conditions in the test protocol.
6. This performance task and rating cycle is repeated until the test protocol is complete – at which point each performer is notified.