SUMMARY

- 1. Server starts running
 - a. Searches Instruments directory, attempts to load files (ignores directories)
 - **b.** Constructs list of instruments from files
 - i. MidiInstrument class sets up MIDI output and translation from OSC
 - ii. Base class Instrument sets up OSC listeners according to what is defined in file.
 - iii. All instruments have two default messages they expect if nothing is specified /<name>/note, ii and /<name>/control, ii
 - **c.** Starts listening for new clients

2. Client starts

- a. Sends /system/addme, si to Server (with own hostname and port)
- **b.** Server responds with a series of /system/instruments/add, s messages which list the instruments constructed earlier by name.
- c. Any instruments with possible messages beyond the basic two send /system/instruments/extend, ssi to the client which contain the name of the instrument, the pattern for the message and the MIDI status byte to transform.
- d. All instruments send any information they know about themselves in /system/instruments/note, ss messages where the first string is the name of the instrument and the second is a note about the instrument, probably defined in the data file. ¹
- e. Client uses this data to construct a table of MIDI input to OSC output and prints details about the instruments connected to the server to the console.
- **f.** Client listens for MIDI input on specified port and translates appropriately.

¹Confusion between /<name>/note, ii and /system/instrument/note, ss should be avoidable given the different typetags and the /system prefix, although it is an unfortunate homonym.