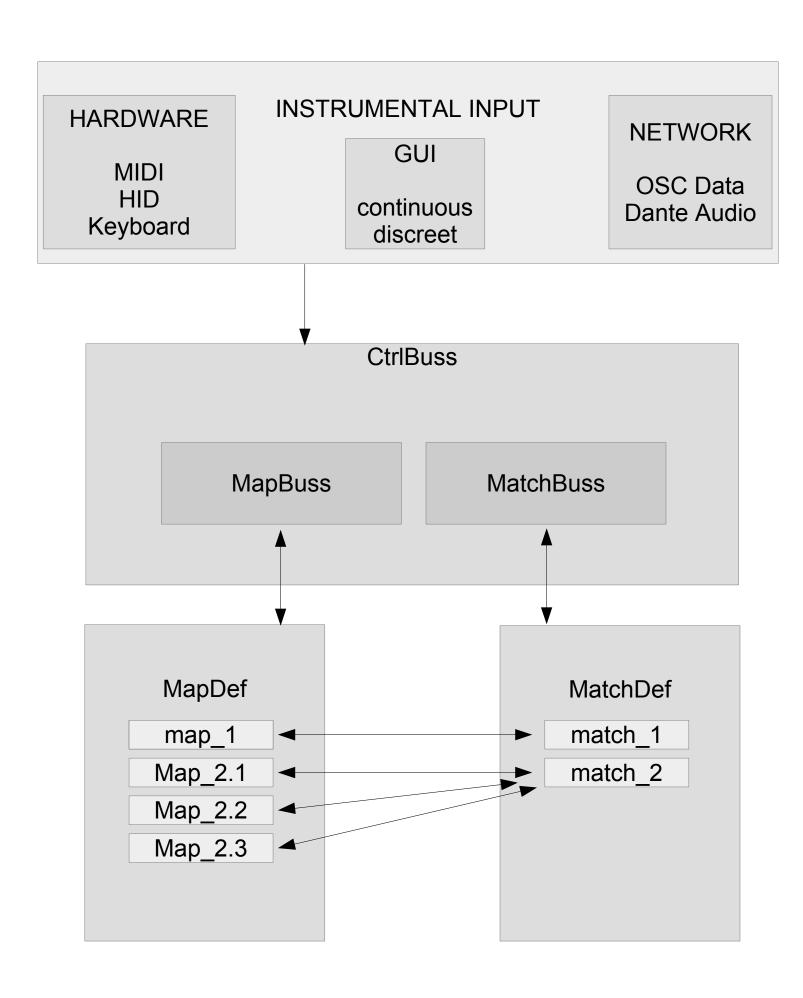
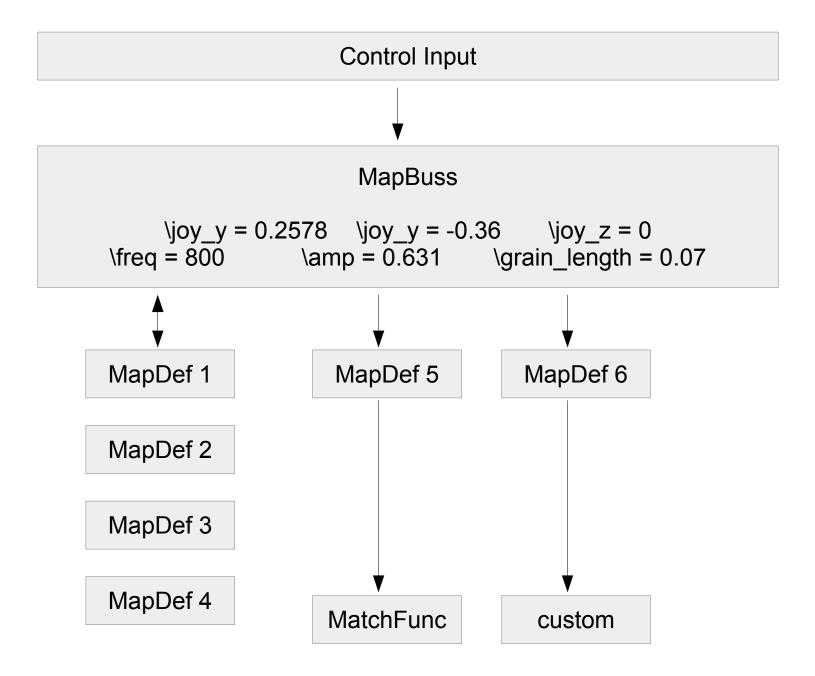
Ctrl Konnekt

Hardware controllers
Hardware Audio Network
Control Mapping Software
Audio Synthesis
Instrumental design and architecture



MapBuss maintains a list of named values and connects them to mapping transformations and intermediaries. Mappings are invoked when their input value (a named value on the buss) changes. Derived data can be routed to other objects or trigger custom functions when updated.

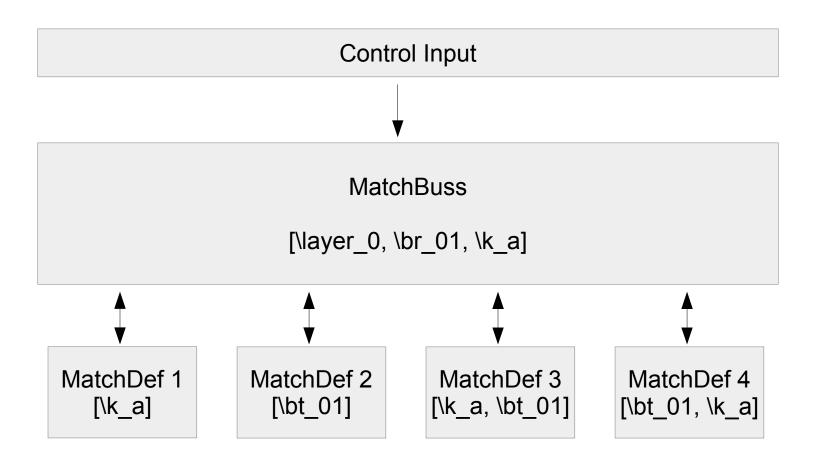


MatchBuss maintains a sequence of logical flags that represent the state of input controllers and functions. As input changes, matches of subsequences start and stop musical functions (MatchDef).

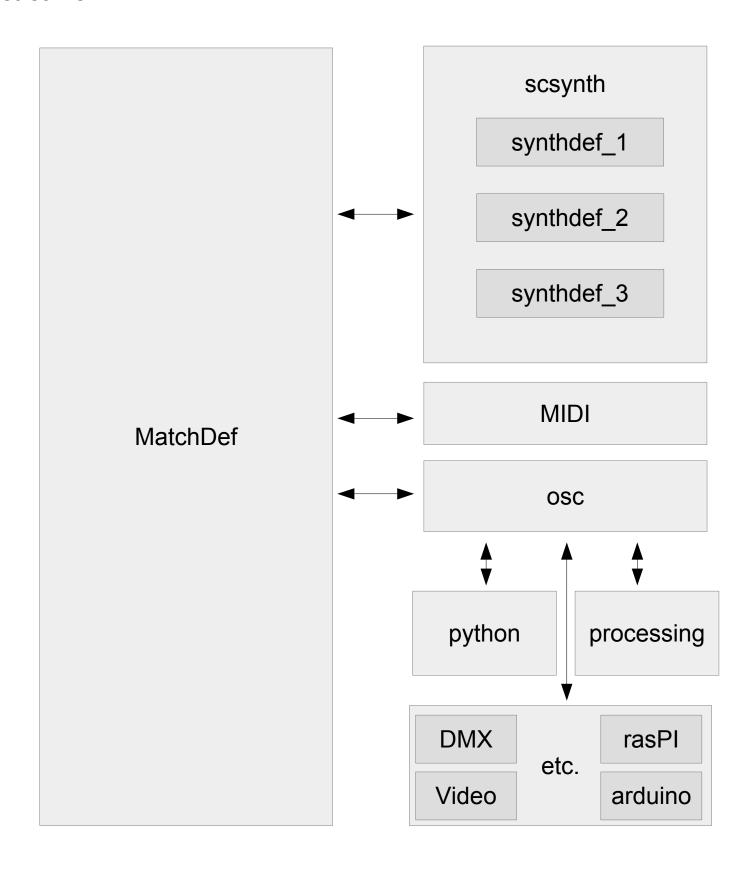
For example, a flag like \bt_01 is added to the sequence when MIDI button one is pressed. Or, \k_a is added to the sequence when the "a" key on the computer keyboard is pressed.

With the two flags \bt_01 and \k_a there are four possible matches: [\k_a], [\bt_01], [\k_a, \bt_01], [\bt_01, \k_a]

Each match can control different MatchDefs.



MatchDef is a mapping intermediary that is the basic unit of event control. It is the element that creates the structure for sound object composition and can control any number of synths and tasks. It has state, memory, history, can start/stop and send/receive data streams.



CtrlBuss is used to automatically create links between a MapBuss and a MatchBuss to send conditioned/mapped data (MapDef) for use in musical functions (MatchDef). This basic model allows for controllers to start/stop and modulate any number of musical objects without explicit hard coded connections. CtrlBuss is the proxy for input and it routes data to the MapBuss and MatchBuss.

