source(s)
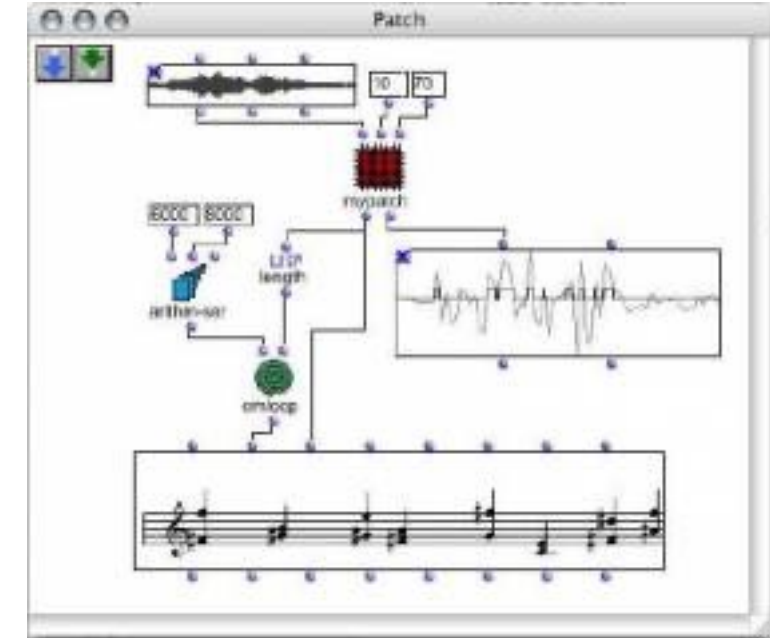
Audio recording

MIDI device (score edition)

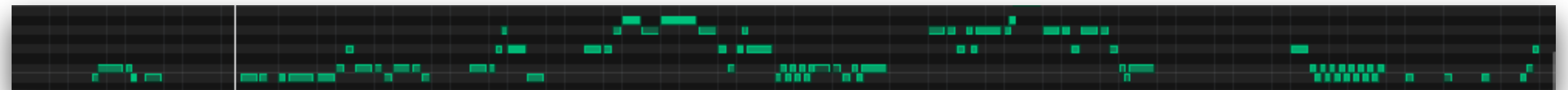Algorithmic composition DAW

Audio-to-MIDI (A2M) AMT
- fundamental freq. estimation
- onset detection

piano roll (MIDI file)

MIDI-to-score (M2S) AMT
- rhythm quantization
- tempo tracking
- pitch spelling
- score engraving…

target music score
(*e.g.* XML file)