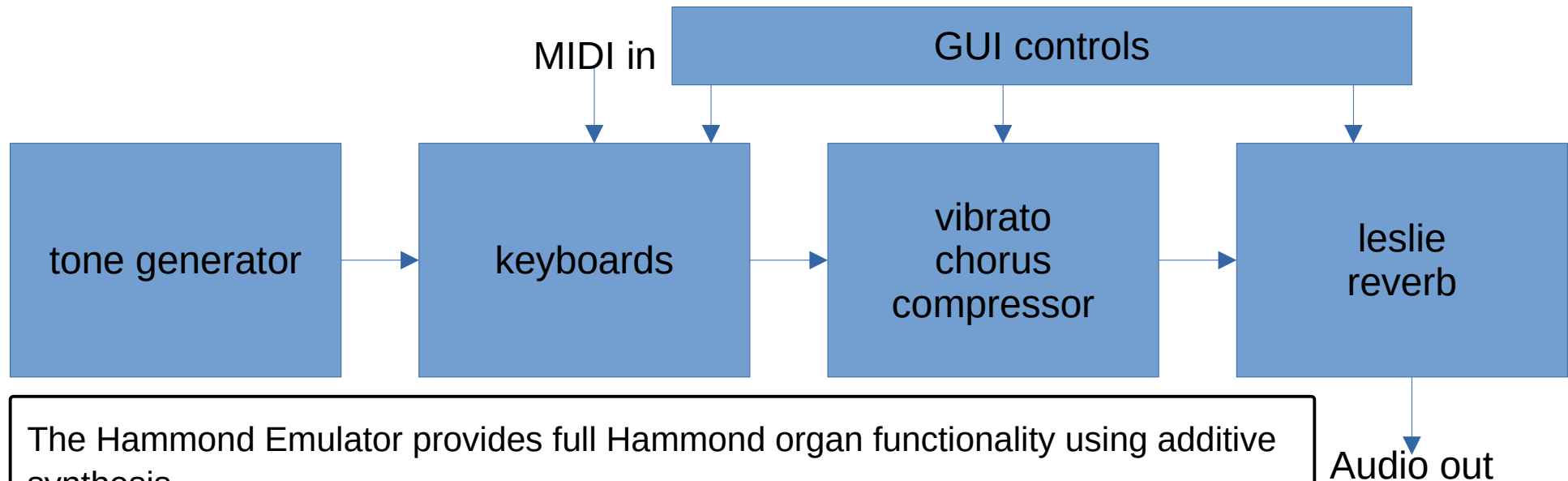


# Hammond Emulator (overview)

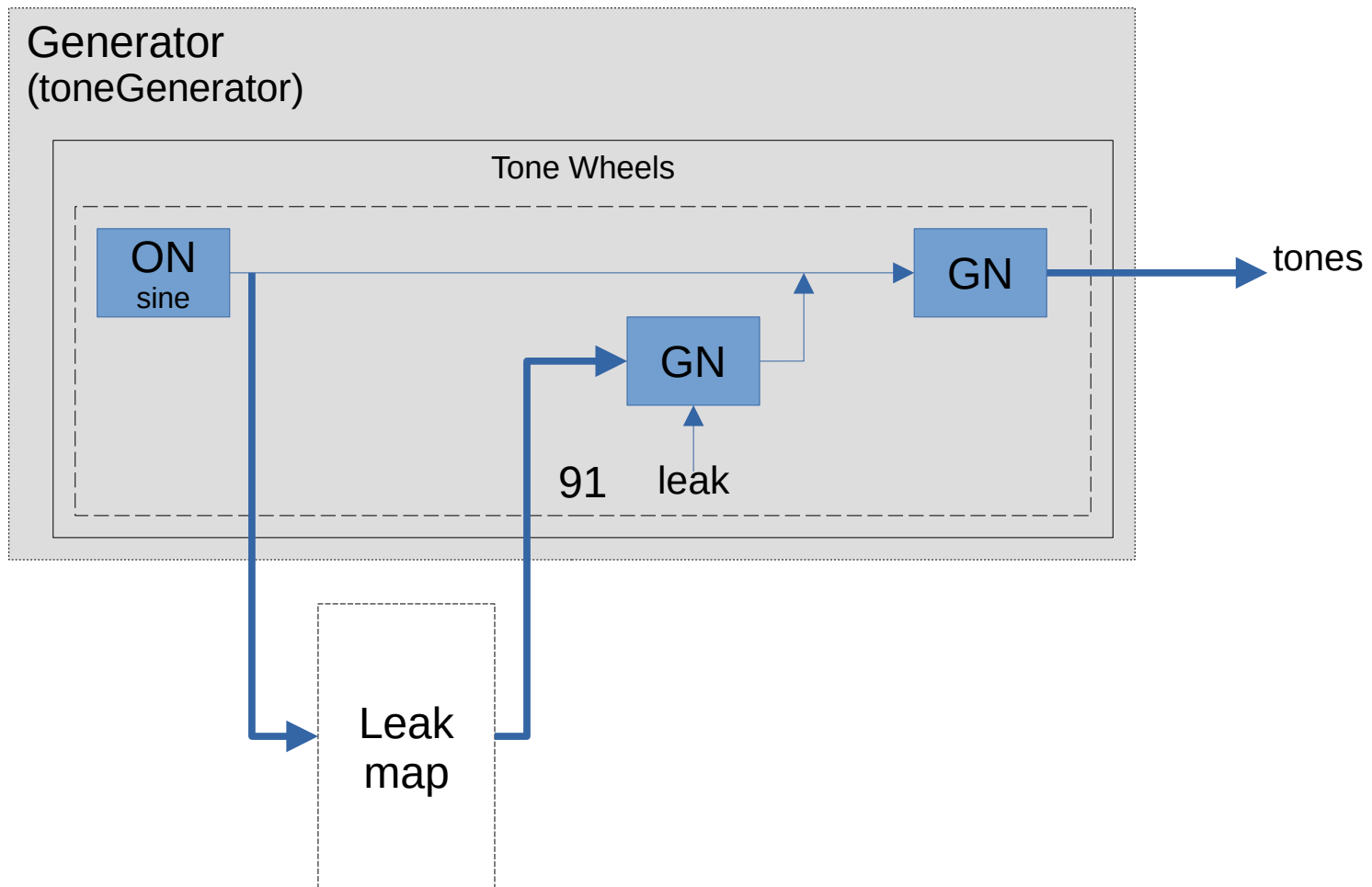


The Hammond Emulator provides full Hammond organ functionality using additive synthesis.

- The Tone Generator consists of 91 tone wheels, each producing a continuous sinusoidal waveform: a tone. Leakage from the adjacent tone wheel can be added.
- The Keyboards are the upper and lower manuals and the pedal board. Upon a key press (either from the GUI or from the MIDI input), multiple tones are switched through to the draw-bars. The draw-bars regulate the volume of each tone (harmonic) to influence the timbre.
- Vibrato, Chorus and Compressor add audio effects that creates a richer sound by making small changes in frequency, phase and volume.
- The Leslie and Reverb emulate the spinning speakers of the Leslie box and the Reverb emulate the acoustics of various spaces where the organ is played.
- The GUI controls provide an upper and lower manual and various controls to change the settings of the organ.

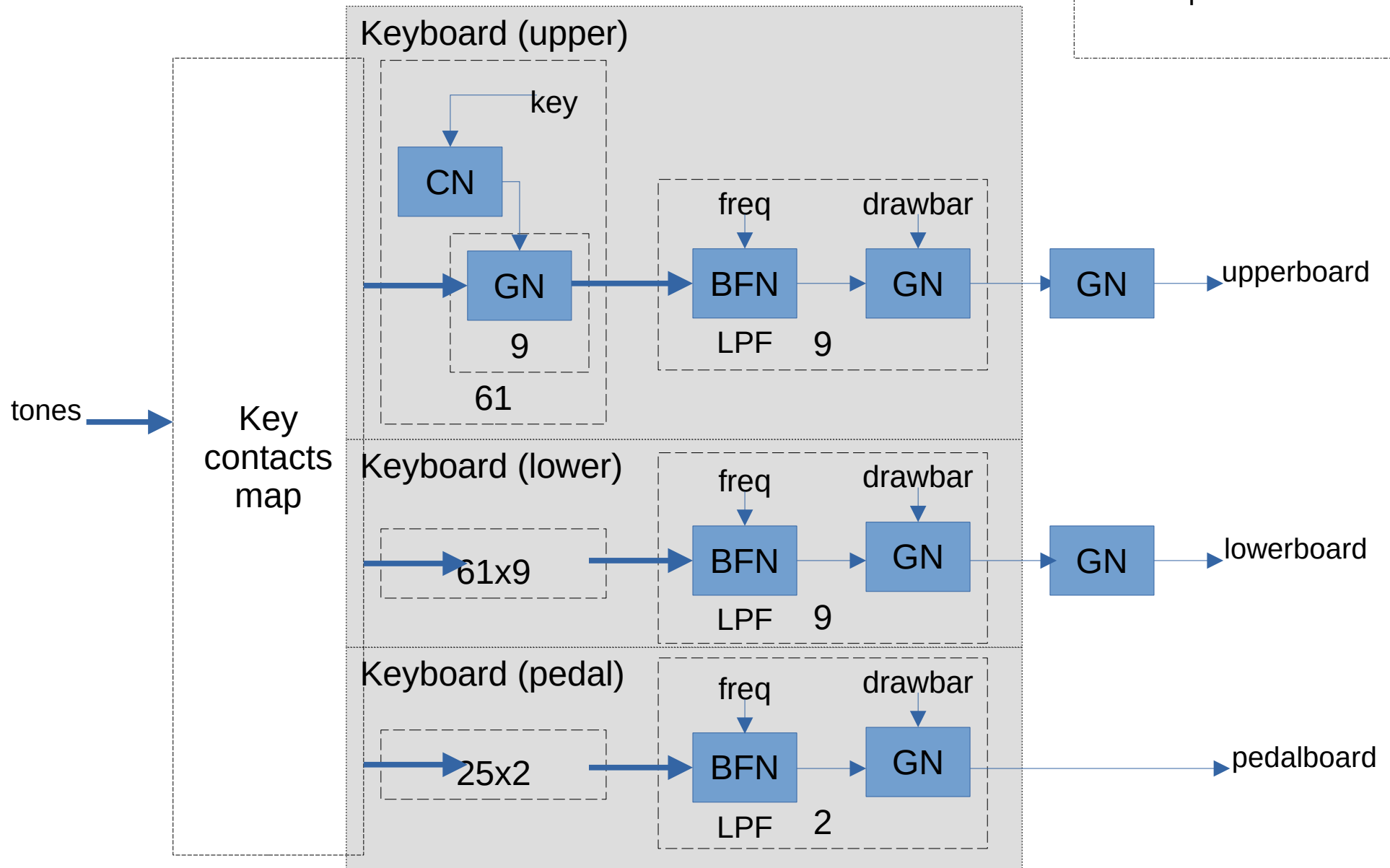
# Hammond Emulator (tone generator)

ON Oscillator Node  
GN Gain Node

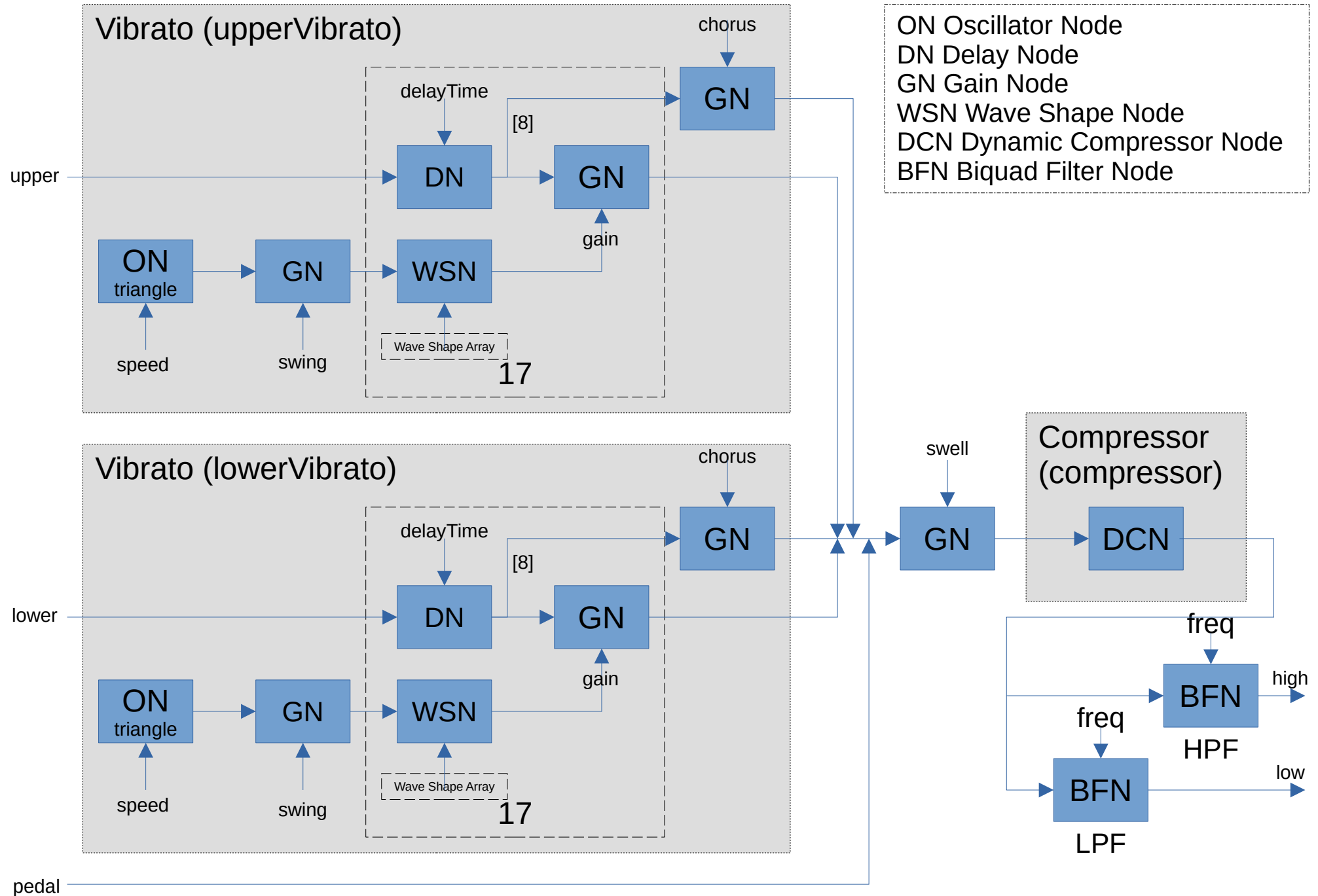


# Hammond Emulator (keyboards)

CN Constant Node  
GN Gain Node  
BFN Biquad Filter Node



# Hammond Emulator (vibrato, chorus, compressor)



# Hammond Emulator (leslie, reverb)

