

Synth Challenge 2020 entry

Jakub Hlusička

Used Techniques

- convolutional reverb via an impulse response;
- formant synthesis (used for most instruments);
- wavetable synthesis for the piano;
- exponential ADSR envelope for the piano;
- different panning offsets for different channels;
- quantization for one of the instruments used for arbitrary synthesis

Sources:

- Audio synthesis course at CTU, lead by Prof. Ing. Roman Čmejla, CSc.
- Reverb impulse responses: <https://www.voxengo.com/impulses/>
 - Musikvereinsaal for dvorak.mid
 - Small Drum Room for Intensive Care Unit
- MIDI for arbitrary synthesis: Intensive Care Unit, originally composed by Emma Essex, translated to MIDI by TheVocoderGuy.
- Wavetable piano sample Ensoniq ESQ-1 Piano C3 from: <https://freewavesamples.com/ensoniq-esq-1-piano-c3>