Entangled Voltages – sequenced function generator

Entangled Voltages is a line sequencer. A sequence defines an automation line. Each step is akin to an AD envelope and there are two inependent envelopes of 8 steps each. It's like an uber LFO. It's bipolar by default. There is a context menu item to switch it into a unipolar mode.

CLK input takes a 24PPQN BPM clock signal that runs the sequencer. The easy way to provide it is Impromptu Clocked module with a clock multiplier set to a maximum of x96.
CLK knob sets the length of the steps (they are of the same length) from 2 notes to 1/16th of a note.

When the sequencer is reset it restarts both sequences from the first enabled step.
There are three ways to reset the sequencer:
- **RST button,** immediate reset;
- **RST input**, reset by a trigger signal;
- **RST knob**, reset by number of steps in a cycle. 0 disables this function.

There are **two outputs** for the upper sequence and the lower sequence accordingly.
The **button between the outputs** controls, so called, entanglement of the sequences.
It chooses a master sequence. When there is no master sequence the sequences play independently.
When there is one, the other sequence play time becomes the same as the master one's.
Effectively, putting the sequences into a polyrhythmic relationship.

Currently playing step is yellow

Each button switches between three states of a sequencer's step

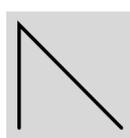Cyan – play step

Off – skip step

Green – play and hold step (ignore it for now)

Each knob controls a position of a peak of an AD envelope
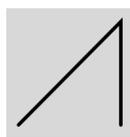

When fully to the left the AD looks like this

When in the middle the AD looks like this

When fully to the right the AD looks like this

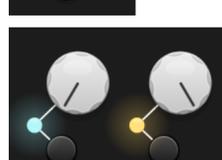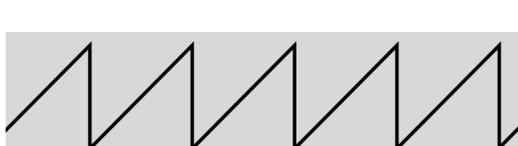Enabled steps are repeated in a cycle

One enabled step at the minimum

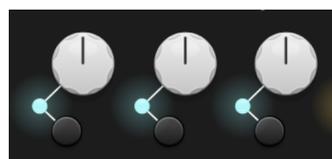

One enabled step at the medium
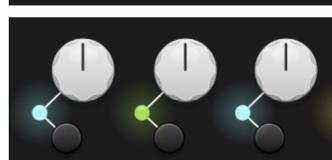

One enabled step at the maximum

Two steps enabled

The green step will hold its value after peak, and the next step will hold its value before peak

Without hold

With hold