

Title: Symmetries  
Composer: Ivica Ico Bukvic  
Medium: solo violin and computer

### **Program Notes**

*Symmetries* (for computer and violin) is an experiment in relegating musical structure and expression to the inherently stupid box of transistors. By concurrently utilizing various GNU/Linux audio software (Fluidsynth/QSynth, Pd, LADSPA, Jack-rack, JACK) it was composer's intention to generate a lush interactive texture whose frail balance engenders a consistent forward drive. In an ever-changing array of hierarchical probabilities no two instances are expected to ever be the same. The piece has been designed to be completely modular in terms of computer-driven sound diffusion and can utilize 2-8 channels. *Symmetries* was commissioned by violinist Ania Zielinska from Poland who also premiered the piece at the 3<sup>rd</sup> Linux Audio Conference (2005) in Karlsruhe, Germany.

For its premiere the piece used 8-channel diffusion. However, the recording is provided as a stereo-downmix.

# Symmetries

Violin

Ivica Ico Bukvic 2005

1-1

2-1

1-2

pizz.

arco

2-2

ppp

1-3

tr

pizz.

arco

2-3

1-4

tr

pizz.

arco

2-4

1-5

tr

pizz.

arco

sul pont.

2-5

tr

tr

1-6

tr

2-6

trm

1-7

tr

3

2-7

trm

1-8

tr

pizz.

arco

2-8

trm

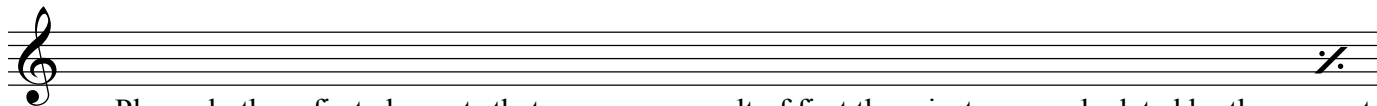
pizz.



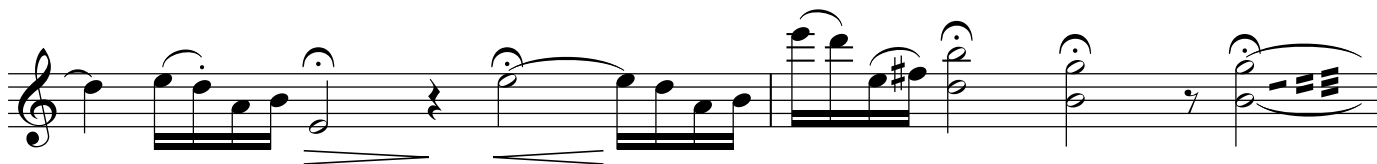
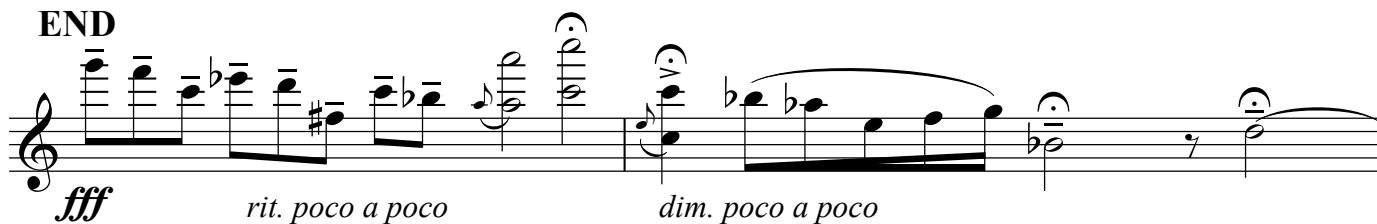


Musical score for two staves, measures 7-1 to 7-8 and 8-1 to 8-8. The score is written in treble clef with a key signature of one flat (B-flat). The left staff contains measures 7-1 through 7-8, and the right staff contains measures 8-1 through 8-8. Measure 7-1 features a melodic line with a slur and a fermata. Measure 7-2 continues the melodic line. Measure 7-3 includes a slur and a fermata. Measure 7-4 features a melodic line with a slur and a fermata. Measure 7-5 includes a slur and a fermata. Measure 7-6 features a melodic line with a slur and a fermata. Measure 7-7 includes a slur and a fermata. Measure 7-8 features a melodic line with a slur and a fermata. Measure 8-1 features a melodic line with a slur and a fermata. Measure 8-2 features a melodic line with a slur and a fermata. Measure 8-3 features a melodic line with a slur and a fermata. Measure 8-4 features a melodic line with a slur and a fermata. Measure 8-5 features a melodic line with a slur and a fermata, marked *pizz.* and *arco*. Measure 8-6 features a melodic line with a slur and a fermata, marked *tr*. Measure 8-7 features a melodic line with a slur and a fermata, marked *port.*. Measure 8-8 features a melodic line with a slur and a fermata.

*ppp*  $\leftarrow$  *fff*

**BEGINNING**

Play solo three first elements that occur as a result of first three instances calculated by the computer, for instance 3-1, 2-1, and 1-1 respectively.

**END****INSTANCE AT THE PREMIERE (DEFAULT SEED=0, END TRIGGER=3):**

BEGINNING(3-1 2-1 1-1) 3-1 2-1 1-1 3-2 4-1 5-1 6-1 7-1 8-1 5-2 3-3 1-2  
4-2 2-2 4-3 2-3 4-4 1-3 5-3 7-2 4-5 7-3 4-6 8-2 3-4 7-4 2-3 **8-3** END

# Symmetries (an instance)

Violin

Ivica Ico Bukvic 2005

**BEGINNING**

3-1

2-1 1-1 3-2 4-1

5

5-1 6-1 7-1

9

8-1 5-2

12

3-3 1-2 pizz. arco 4-2

14

2-2 4-3 2-3

17

4-4 1-3 pizz. arco 5-3

20

trill

ppp

23 **7-2** **4-5** *trm*

25 **7-3** **4-6**

27 **8-2** **3-4** *port.*

29 **7-4** **2-4**

**END**  
31 **8-3** **7-0**  
*fff* *rit. poco a poco* *dim. poco a poco*

33 **6-0** **5-0**

35 **4-0** **3-0** **2-0** *ppp*