

Peter Plessas "links234" (2006)

for four oscillators and four loudspeakers, 8 minutes.

This is the parameter score for a four-voice rectangle wave synthesizer implemented in the Pure Data computer music language.

Numbers in front of the score statements are wait times in milliseconds.

Lines beginning with the keyword "note" are comments.

Score statements that do not produce audible changes are grayed out.

1-rect, 2-rect, 3-rect, 4-rect address four identical square wave synthesizers.

Volume control is in Dezibel values which are arrived in msec:

vol dB msec,

Pitch control is in midi pitches glissandoed to in msec:

pitch midi msec,

Frequency modulation (vibrato) is modulation rate in Hertz, arrived in msec, and modulation depth in +/-1/100th Hertz arrived in msec:

mod rate msec depth msec;

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0    note line1;
      1-rect vol 90 10,      pitch 45 0,      mod 0 0 0 0;
      2-rect vol 90 10,      pitch 67 0,      mod 0 0 0 0;
      3-rect vol 67 10,      pitch 71 0,      mod 0 0 0 0;
      4-rect vol 50 10,      pitch 69 0,      mod 0 0 0 0;

35000 note line1.1;
      1-rect vol 84 10,      pitch 36 0,      mod 0 0 0 0;
      2-rect vol 90 0,       pitch 67 0,      mod 0 0 0 0;
      3-rect vol 84 10,      pitch 51 0,      mod 0 0 0 0;
      4-rect vol 69 10,      pitch 72 0,      mod 0 0 0 0;

20000 note line1.2;
      1-rect vol 90 10,      pitch 45 0,      mod 0 0 0 0;
      2-rect vol 90 0,       pitch 67 0,      mod 0 0 0 0;
      3-rect vol 67 10,      pitch 71 0,      mod 0 0 0 0;
      4-rect vol 50 10,      pitch 69 0,      mod 0 0 0 0;

10000 note line1.2-slide-fade;
      1-rect vol 102 5000,    pitch 36 0,      mod 15 0 10 8000;
      2-rect vol 90 0,       pitch 67 0,      mod 0 0 0 0;
      3-rect vol 67 0,       pitch 71 0,      mod 0 0 0 0;
      4-rect vol 45 5000,    pitch 68 8000,   mod 0 0 0 0;

10000 note line1.3;
      1-rect vol 90 10,      pitch 45 0,      mod 0 0 0 0;
      2-rect vol 90 0,       pitch 67 0,      mod 0 0 0 0;
      3-rect vol 71 2000,     pitch 70.8 9000, mod 0 0 0 0;
      4-rect vol 50 10,      pitch 71 0,      mod 0 0 0 0;

25000 note line2;
      1-rect vol 94 10,      pitch 48 0,      mod 0 0 0 0;
      2-rect vol 88 10,      pitch 57 0,      mod 0 0 0 0;
      3-rect vol 62 10,      pitch 71 0,      mod 0 0 0 0;
      4-rect vol 106 10,     pitch 29 0,      mod 0 0 0 0;
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23000 note line2.1-basic;
  1-rect vol 79 10,      pitch 45 0,      mod 0.7 0 0.3 0;
  2-rect vol 89 10,      pitch 67 0,      mod 0 0 0 0;
  3-rect vol 61 10,      pitch 72 0,      mod 0 0 0 0;
  4-rect vol 53 10,      pitch 69 0,      mod 0 0 0 0;

17000 note line2.2-high;
  1-rect vol 75 10,      pitch 74 0,      mod 0 0 0 0;
  2-rect vol 96 10,      pitch 86 0,      mod 0 0 0 0;
  3-rect vol 57 10,      pitch 72 0,      mod 0 0 0 0;
  4-rect vol 45 10,      pitch 81 0,      mod 0 0 0 0;

17000 note line2.3-basic;
  1-rect vol 77 10,      pitch 45 0,      mod 0.7 0 0.4 0;
  2-rect vol 90 10,      pitch 67 0,      mod 0 0 0 0;
  3-rect vol 59 10,      pitch 72 0,      mod 0 0 0 0;
  4-rect vol 50 10,      pitch 69 0,      mod 0 0 0 0;

7000 note line2.4;
  1-rect vol 94 10,      pitch 48 0,      mod 0 0 0 0;
  2-rect vol 92 10,      pitch 56 0,      mod 0 0 0 0;
  3-rect vol 77 10,      pitch 71 0,      mod 0 0 0 0;
  4-rect vol 106 10,     pitch 29 0,      mod 0 0 0 0;

16000 note line2.5-basic;
  1-rect vol 77 10,      pitch 45 0,      mod 0.7 0 0.4 0;
  2-rect vol 90 10,      pitch 67 0,      mod 0 0 0 0;
  3-rect vol 59 10,      pitch 69 0,      mod 0 0 0 0;
  4-rect vol 50 10,      pitch 69 0,      mod 0 0 0 0;

23000 note line3;
  1-rect vol 77 0,       pitch 38 0,      mod 0 0 0 0;
  2-rect vol 83 10,      pitch 50 0,      mod 0 0 0 0;
  3-rect vol 62 10,      pitch 69 0,      mod 0 0 0 0;
  4-rect vol 50 0,       pitch 48 0,      mod 0 0 0 0;

10000 note line4;
  1-rect vol 70 10,      pitch 62 0,      mod 0 0 0 0;
  2-rect vol 76 10,      pitch 79 0,      mod 0 0 0 0;
  3-rect vol 93 10,      pitch 36 0,      mod 0 0 0 0;
  4-rect vol 81 10,      pitch 40 0,      mod 0 0 0 0;

32000 note line5-high-soft;
  1-rect vol 45 0,       pitch 69 0,      mod 0 0 0 0;
  2-rect vol 63 15000,   pitch 79 0,      mod 0 0 0 0;
  3-rect vol 50 0,       pitch 77 0,      mod 0 0 0 0;
  4-rect vol 40 0,       pitch 81 0,      mod 0 0 0 0;

15000 note line6;
  1-rect vol 45 0,       pitch 69 0,      mod 0.152 0 0.15 7500;
  2-rect vol 58 2000,    pitch 79 0,      mod 0.151 0 0.15 7000;
  3-rect vol 50 0,       pitch 77 0,      mod 0.149 0 0.15 7500;
  4-rect vol 40 0,       pitch 81 0,      mod 0.148 0 0.15 8000;

10000 note line6.1;
  1-rect vol 45 0,       pitch 69 0,      mod 0.152 0 0.25 2500;
  2-rect vol 53 2000,    pitch 81 10000,  mod 0.151 0 0.25 3000;
  3-rect vol 50 0,       pitch 77 0,      mod 0.149 0 0.25 4500;
  4-rect vol 40 0,       pitch 81 0,      mod 0.148 0 0.25 5000;

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10000 note line6.2;
  1-rect vol 44 4000, pitch 69 0, mod 0.152 0 0.25 0;
  2-rect vol 38 4000, pitch 72 0, mod 0.151 0 0.25 0;
  3-rect vol 44 4000, pitch 29 0, mod 0.149 0 0.25 0;
  4-rect vol 63 4000, pitch 38 0, mod 0.148 0 0.25 0;

10000 note line7-grml;
  1-rect vol 45 10, pitch 18 0, mod 0.152 0 0.25 0;
  2-rect vol 48 10, pitch 17 0, mod 0.151 0 0.25 0;
  3-rect vol 44 10, pitch 20 0, mod 0.149 0 0.25 0;
  4-rect vol 58 10, pitch 14 0, mod 0.148 0 0.25 0;

15000 note line7.1-grml;
  1-rect vol 45 0, pitch 18 0, mod 0.152 0 0.25 0;
  2-rect vol 0 10, pitch 17 0, mod 0.151 0 0.25 0;
  3-rect vol 44 0, pitch 20 0, mod 0.149 0 0.25 0;
  4-rect vol 58 0, pitch 14 0, mod 0.148 0 0.25 0;

10000 note line7.2-grml;
  1-rect vol 45 0, pitch 18 0, mod 0.152 0 0.25 0;
  2-rect vol 17 10, pitch 73 5000, mod 0.151 0 0.25 0;
  3-rect vol 44 0, pitch 20 0, mod 0.149 0 0.25 0;
  4-rect vol 58 0, pitch 14 0, mod 0.148 0 0.25 0;

5000 note line7.3-grml;
  1-rect vol 45 0, pitch 18 0, mod 0.152 0 0.25 0;
  2-rect vol 22 8000, pitch 73 0, mod 0.151 0 0.25 0;
  3-rect vol 44 0, pitch 20 0, mod 0.149 0 0.25 0;
  4-rect vol 58 0, pitch 14 0, mod 0.148 0 0.25 0;

10000 note line7.4-grml;
  1-rect vol 57 10, pitch 17 0, mod 0.152 0 0.25 0;
  2-rect vol 20 10, pitch 73 0, mod 0.151 0 0.25 0;
  3-rect vol 44 0, pitch 20 0, mod 0.149 0 0.25 0;
  4-rect vol 58 0, pitch 14 0, mod 0.148 0 0.25 0;

10000 note line7.5-grml;
  1-rect vol 47 10, pitch 17 0, mod 0.152 0 0.25 0;
  2-rect vol 20 0, pitch 73 0, mod 0.151 0 0.25 0;
  3-rect vol 53 3000, pitch 31 500, mod 0.149 0 0.25 0;
  4-rect vol 58 0, pitch 14 0, mod 0.148 0 0.25 0;

10000 note line7.6-grml;
  1-rect vol 0 10, pitch 17 0, mod 0.152 0 0.25 0;
  2-rect vol 20 10, pitch 73 0, mod 0.151 0 0.25 0;
  3-rect vol 47 3000, pitch 31 0, mod 0.149 0 0.25 0;
  4-rect vol 58 0, pitch 14 0, mod 0.148 0 0.25 0;

15000 note line7.7-grml;
  1-rect vol 16 10000, pitch 127 0, mod 0.152 0 0.25 0;
  2-rect vol 20 0, pitch 73 0, mod 0.151 0 0.25 0;
  3-rect vol 47 0, pitch 31 0, mod 0.149 0 0.25 0;
  4-rect vol 58 0, pitch 14 0, mod 0.148 0 0.25 0;

35000 note line8-solo;
  1-rect vol 16 0, pitch 127 0, mod 0 0 0 0;
  2-rect vol 0 0, pitch 67 0, mod 0 0 0 0;
  3-rect vol 0 0, pitch 71 0, mod 0 0 0 0;
  4-rect vol 0 0, pitch 69 0, mod 0 0 0 0;

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4000 note line9-allhigh;
1-rect vol 16 0, pitch 127 0, mod 0 0 0 0;
2-rect vol 20 0, pitch 118 0, mod 0 0 0 0;
3-rect vol 17 0, pitch 121 0, mod 0 0 0 0;
4-rect vol 12 0, pitch 111 0, mod 0 0 0 0;

4000 note line9.1-midfield;
1-rect vol 18 0, pitch 84 0, mod 0 0 0 0;
2-rect vol 20 0, pitch 63 0, mod 0 0 0 0;
3-rect vol 17 0, pitch 60 0, mod 0 0 0 0;
4-rect vol 19 0, pitch 91 0, mod 0 0 0 0;

4000 note line9.2;
1-rect vol 25 0, pitch 84 0, mod 0 0 0 0;
2-rect vol 20 0, pitch 118 0, mod 0 0 0 0;
3-rect vol 17 0, pitch 121 0, mod 0 0 0 0;
4-rect vol 26 0, pitch 87 0, mod 0 0 0 0;

4000 note line9.3;
1-rect vol 50 0, pitch 45 0, mod 0 0 0 0;
2-rect vol 32 0, pitch 67 0, mod 0 0 0 0;
3-rect vol 17 0, pitch 121 0, mod 0 0 0 0;
4-rect vol 26 0, pitch 87 0, mod 0 0 0 0;

14000 note line10-basic;
1-rect vol 90 10, pitch 45 0, mod 0 0 0 0;
2-rect vol 90 10, pitch 67 0, mod 0 0 0 0;
3-rect vol 67 10, pitch 71 0, mod 0 0 0 0;
4-rect vol 50 10, pitch 69 0, mod 0 0 0 0;

10000 note line10.1;
1-rect vol 90 0, pitch 45 0, mod 120 10000 30 10000;
2-rect vol 90 0, pitch 67 0, mod 5000 10000 11 0;
3-rect vol 67 0, pitch 71 0, mod 42 10000 8 10000;
4-rect vol 50 0, pitch 69 0, mod 56 10000 60 10000;

10000 note line10.2-fadeout3;
1-rect vol 90 0, pitch 45 0, mod 120 0 30 0;
2-rect vol 90 0, pitch 67 0, mod 5000 0 11 0;
3-rect vol 0 5000, pitch 71 0, mod 42 0 8 0;
4-rect vol 50 0, pitch 69 0, mod 56 0 60 0;

10000 note line10.3-fadeout2;
1-rect vol 90 0, pitch 45 0, mod 120 0 30 0;
2-rect vol 0 5000, pitch 67 0, mod 5000 0 11 0;
3-rect vol 0 0, pitch 71 0, mod 42 0 8 0;
4-rect vol 50 0, pitch 69 0, mod 56 0 60 0;

10000 note line10.4-fadeout1;
1-rect vol 0 5000, pitch 45 0, mod 120 0 30 0;
2-rect vol 0 0, pitch 67 0, mod 5000 0 11 0;
3-rect vol 0 0, pitch 71 0, mod 42 0 8 0;
4-rect vol 50 0, pitch 69 0, mod 56 0 60 0;

3000 note END;
1-rect vol 0 10, pitch 0 0, mod 0 0 0 0;
2-rect vol 0 10, pitch 0 0, mod 0 0 0 0;
3-rect vol 0 10, pitch 0 0, mod 0 0 0 0;
4-rect vol 0 10, pitch 0 0, mod 0 0 0 0;

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