

Dan VanHassel

Lush Intrinsic

for piano and live electronics

Duration: 10 minutes

Commissioned by Keith Kirchoff
Composed 2009

Lush Intrinsic *for piano and live electronics* by Dan VanHassel

Notes on Electronics

This piece uses a custom Max/MSP patch available from the composer. Coordination with the electronics is done by a series of numbered cues indicated in the score with arrows showing precisely when they should occur. The cues are triggered with the left foot of the pianist by a MIDI sustain pedal.

The pianist will also need to use headphones in order to synchronize rhythmically with the electronics.

The output of the electronics is mono. An ordinary stereo PA should be used without any surround speakers. All sound should appear to be emanating from the stage.

List of Equipment Needed

- Computer with Max 6 or Max Runtime 6 software
(available for download at: <http://cycling74.com/downloads/>)
- 1 microphone (+ stand and cable)
- Digital audio hardware interface
- MIDI sustain pedal and MIDI keyboard
- Headphones
- Stereo PA system


Setup Instructions:

1. Place microphone inside the piano lid, approximately six inches above the strings. Placement will vary depending on the specific microphone, piano, room, etc. The piano sound should be as isolated as possible and relatively balanced between high and low strings.
2. Plug the microphone into input 1 of the digital audio interface and plug the interface into the computer (via USB or Firewire).
3. Connect outputs to the PA system. The feed to the PA will be coming from Outputs 1 & 2 of the interface by default. If desired, a separate output can be used for just the amplified piano sound. These options can be selected in the Max patch.
4. Connect the MIDI sustain pedal to the MIDI keyboard, and the keyboard to the computer.
5. Start Max/MSP or Max Runtime once all of the hardware is connected. Load the *Lush Intrinsic* patch.
6. Double-click on “Setup Instructions” in the upper-right corner of the Max patch and follow these directions to ensure everything is working correctly in the patch.
7. Please feel free to contact the composer with any questions:
dan.vanhassel@gmail.com

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♩=96

Electronics *delayed piano:*  *etc.*

1 Delay On *play in time with delayed piano, as shown*

legato (no accents) (11-13x) (7-8x) (5-6x)

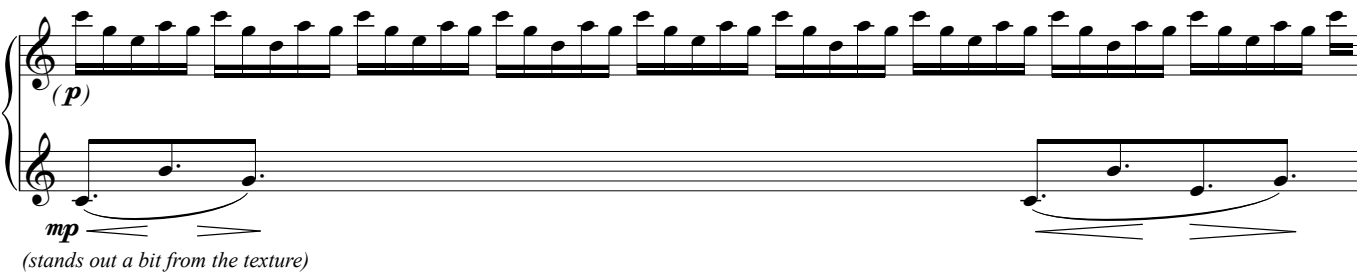
Piano *p* *crystalline, pristine*

mf *(cresc. gradually over 7-8 bars)* *p* *(dim. gradually over 5-6 bars)*

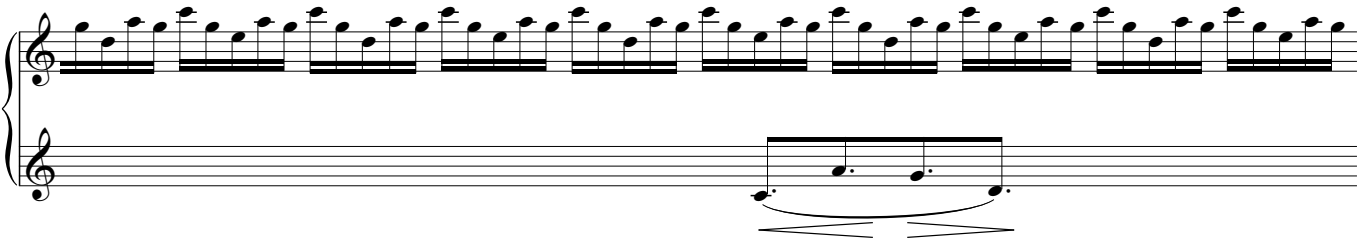
ped. (continue holding pedal)

Pno. *(p)*

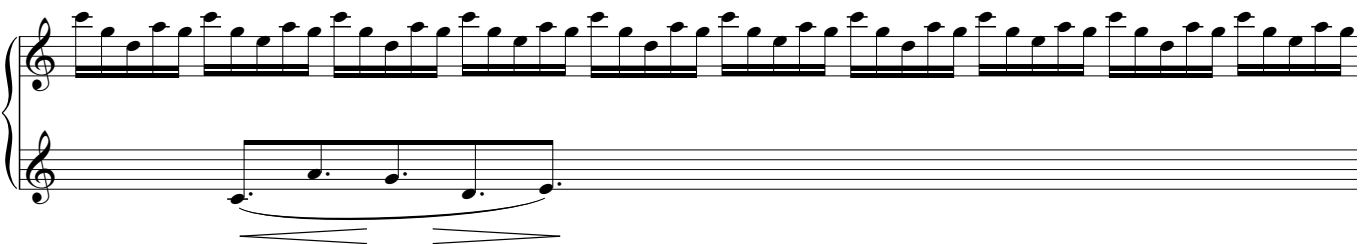
mp *(stands out a bit from the texture)*



Pno.



Pno.

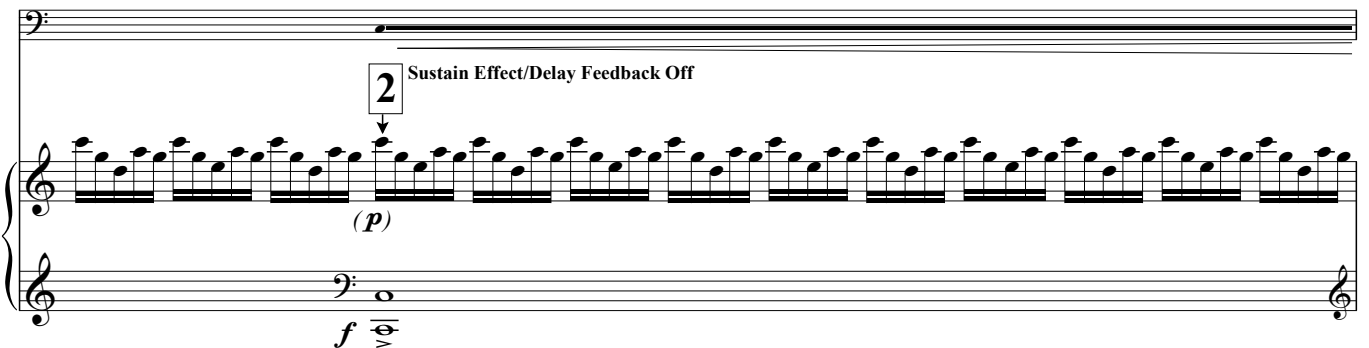


Elec.

2 Sustain Effect/Delay Feedback Off

Pno. *(p)*

f



Elec. Wah-delay: *(etc.)*

3 Wah-Delay

4 Wah-Delay

Pno. *p* (both hands) *mf*

5 Sustain Effect

6 Wah-Delay

7 Wah-Delay

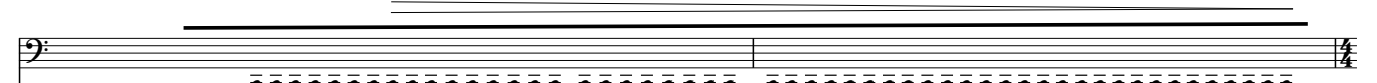
8 Sustain Effect

9 Wah-Delay


10 Wah-Delay

11 Sustain Effect

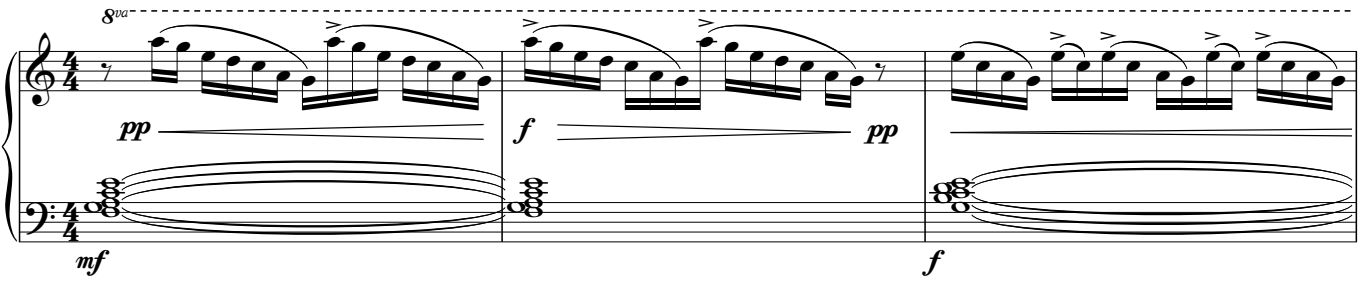
Pno. *f* *ppp*

Elec. 

12 Layer 1 (Pulses) Enters

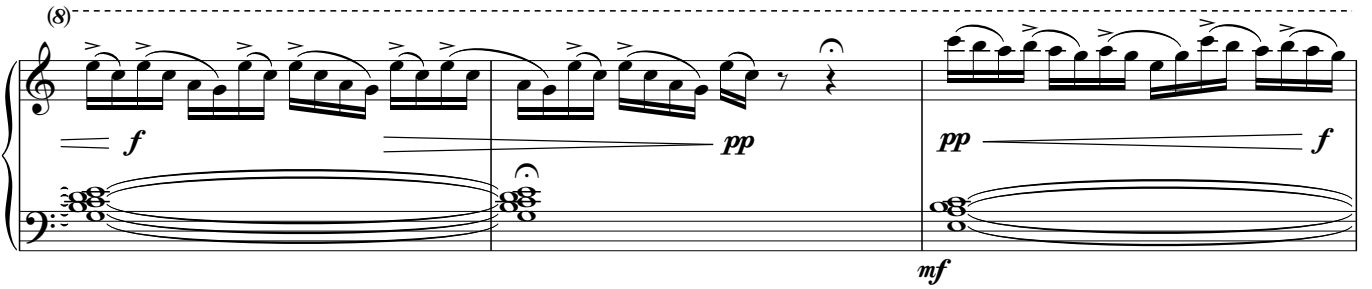
Pno. 

f

Pno. 


pp *f* *pp*

mf *f*

Pno. 

f *pp* *pp* *f*

mf

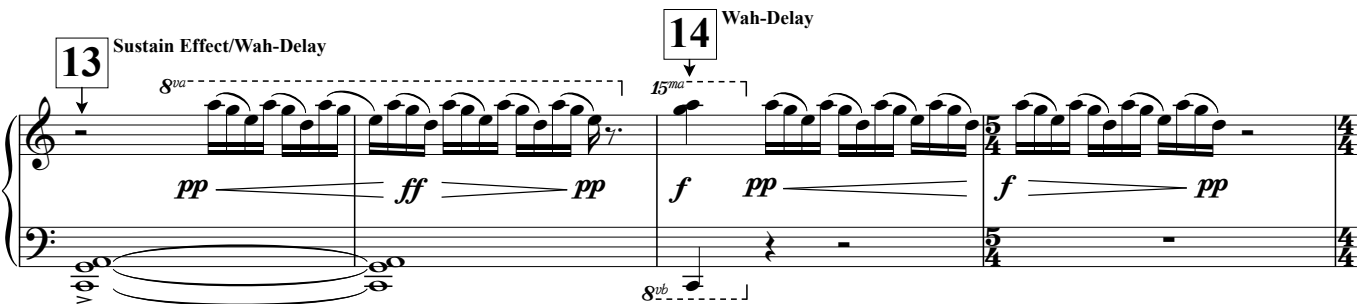
Pno. 

pp *pp* *f* *pp*

mp *f*

13 Sustain Effect/Wah-Delay

14 Wah-Delay


Pno. 

pp *ff* *pp* *f* *pp* *f* *pp*

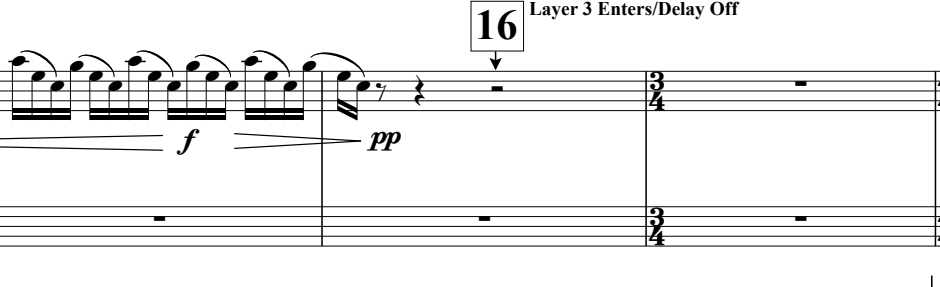
v *8^{va}* *15^{ma}* *8^{ub}*


Layer 2 (rhythm varies randomly):

(etc.)

Elec. 

15 Record Sample/Layer 2 Enters  **pp** **f** **pp**

16 Layer 3 Enters/Delay Off 

Pno. 

Layer 3 (responds to low notes on piano):

(etc.)



Pno.  **f**

senza pedal

with growing excitement...

Pno.  **8^{va}** **ppp** **mf cresc. (both hands)**

Pno. 

Pno.  **ff**

17 Sustain Effect

Piano score for measures 17-20. The right hand features a continuous sixteenth-note arpeggiated pattern. The left hand has a simple accompaniment. Dynamics are marked *mp*, *pp*, *mf*, and *pp*. A sustain pedal is indicated with a dashed line and a downward arrow.

18 Layer 3 Back In

Piano score for measures 18-20. The right hand has a sixteenth-note arpeggiated pattern with accents. The left hand has a simple accompaniment. Dynamics are marked *mp* and *f*. An 8va octave line is shown above the right hand.

Piano score for measures 18-20, showing the right hand part with accents and an 8va octave line.

Piano score for measures 18-20, showing the left hand part with accents.

19 Sustain Effect

Piano score for measures 19-20. The right hand has a sixteenth-note arpeggiated pattern. The left hand has a simple accompaniment. Dynamics are marked *mf*, *p*, *mf*, and *p*. A sustain pedal is indicated with a dashed line and a downward arrow.

20 Record Sample for Layer 3

Piano score for measures 19-20, showing the right hand part with accents and dynamics *p*, *mf*, and *p*.

21 Layer 3 Back In

Pno. *pp cresc.*

Pno.

Pno.

22 Fade Out Layers 2 & 3

Pno. *f*

Ped.

Pno. *pp* *mf* *pp*

(continue holding pedal)

23 Fade Out Sustain

Pno. *legato*

Pno. *f*

(etc.)

(etc.)

24 Layer 2 Begins Fade In

Pno. *p*

Elec. (etc.)

25 Layer 3 Enters

Pno. *f* *ppp*

Pno. *f* *p*

26 Sustain Effect

Pno. *p* (both hands)

Pno. *mf* *pp*

Elec. (etc.)

27 Layer 4 (Bass) Enters

Pno. *f* *8va*

Pno. (8)

Pno. (8)

28 Bass to F/Sustain Effect

Piano score for measures 28-32. The right hand features a continuous eighth-note pattern starting at measure 28 with a *p* dynamic, transitioning to *ppp* by measure 32. The left hand has a bass line starting at measure 28 with an *f* dynamic and an 8^{va} octave sign, transitioning to *pp* by measure 32.

Piano score for measures 33-36. The right hand is marked *loco* and *pp*. The left hand starts at measure 33 with an *f* dynamic and continues with a steady eighth-note pattern.

29 Bass to C/Sustain Effect

Piano score for measures 37-40. The right hand has a *f* dynamic. The left hand starts at measure 37 with a *pp* dynamic and a *ff* dynamic in measure 39.

30 Layer 3 Stops

31 Wah-Delay

Piano score for measures 41-44. Measure 41 is marked *pp*. Measure 42 is marked *pp*. Measure 43 is marked *Wah-Delay*. Measure 44 features an 8^{va} octave sign.

32 Wah-Delay

33 Bass to F/ Sustain Effect

Piano score for measures 45-48. Measure 45 is marked *f*. Measure 47 is marked *Wah-Delay*. Measure 48 is marked *Bass to F/ Sustain Effect* and *ff* 8^{va}.

34 Wah-Delay

Piano score for measures 49-52. Measure 51 is marked *Wah-Delay*. The right hand continues with eighth-note patterns, and the left hand has rests.

Pno.

35 Wah-Delay

36 Bass to C/Sustain Effect Layer 3 Returns

ff

Pno.

37 Wah-Delay

8^{vb}

Pno.

38 Wah-Delay

39 Bass to Eb/Sustain Effect

8^{va}

8^{vb}

p

Pno.

40 Bass to C/Sustain Effect

(8)

mf

ff

Pno.

41 Bass to Eb/Pulses Return

Pno.

(f) 8vb

(both hands)

Pno.

p f p

(8)

Elec.

reverse effects:

42 Reverse Effects, Layers 2 & 4 Begin Fadeout (6x)

43 Reverse Effects (4x)

44 Reverse Effects

Pno.

p f (cresc. gradually over 6 bars)

sf sub.p f (cresc. gradually over 4 bars)

(f)

(8)

Pno.

45 Reverse Effects (4x) (6x) (4x)

sf sub.p ff (cresc. gradually over 6 bars) (dim. gradually over 4 bars) pp

(8)

Pno.

46 Delay On/Pulses Fade Out (14x)

47 Delay Off

pp mf pp pp fff (cresc. gradually over 14 bars)

(8)