multiMORF II

to Victoria, Thorolf and HC

Knut Vaage

2008 (version 23de Sept 2008)

electric violin and computer

for

made on request from Victoria Johnson project financed by Norsk Forskningsråd premiere performance in Oslo Konserthus the 23de of Sept. 2008

the Max/MSP programming is done by Thorolf Thuestad video by HC Gilje

TECHNICAL NEEDS:

full quadraphonic PA with sub

a computer with Max/MSP, and a sound card, midi-controller with 8 sliders and 15 "pots" are required el. vln. can use MAX/MSP or simular, controlled by a midi controller (pedals or sensor bow) or "guitar" effects: Volum, Fuzz, Octaver and Digital Delay Pedals the video part needs a vide screen and a high quality video projector

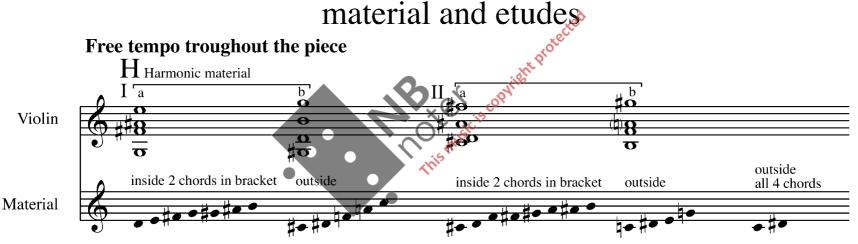
ABOUT THE NOTATION OF THE SCORE:

Page 1-3 contents material to use and some etudes to get the player to become familiar with this material, This is examples of what can be done out of the material, but should be performed more freely than written The etudes is only ment for studying. In perfomances, improvise your own verisions Notice that the big letters is used later on to indicate the improvised morphings between materials

DURATION:

 $8 - 15 \, \text{min}$

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The scale material is put here only if the player wants to have some material to improvise on top of



An example of how to treat the harmonic material. Player are absolutely free to change patterns. Only one rule to follow: The two chords together inside brackets (I a+b and II a+b) fills up each their sustainer buffer on Computer



SN Soft Noise material: Bowings on body, tail piece, neck, bridge add max gain

Etude: Immitate harmonic etude (page 1) by sorting bowings in relative pitches (bow body will mace a low sound, bow bridge will make a high sound)

Space material: pizz behind bridge and neck add max gain, into sustainer or delay

O Overtone (harmonics) material: Soft playing add gain, optional into sustainer or delay

N Noise material: Crush tone and other distrotions (bow twist, metal scrapes, wood sounds etc.) use limiter or compressor

Etude: From continous noise to secco noise staccatto interrupted by gradually longer pauses

TG Trem./trills/gliss material: If you want to use gliss, always add trem.

Etude: Add TG also on SN and O (artificial harmonics) to make sound variation

EFFECTS USED ON VLN (e.g. progr. in MAX/MSP. If no computer, adapt to analog pedals) sustainer octaver delay gain control granulation

Lap-top:

the programmer joins the violinist on stage use a lap-top with MAX/MSP connected to a midi-controller program MAX/MSP so that the controller appears as a kind of refind mixer receive a stereo out from the treated violin signal make samplings and further treatments from this material

program a loop sampler with 8 buffers for each slider (look at performance pages to get the overwiev of buffers) the morphings happens by mooving the sliders slowly in crossfades (option: 2 extra buffers to sample ad lib from the violin output, controlled by "pots")

PROGRAMMED EFFECTS (used like aux):

Spectrum generator (spectrum analyzer to noise resonators)

Pitch shifter (no time correction)

Surround delay

Sustainer

Surround reverb

Granulation

Filter bank (equalizer etc.)

Harmonizer (with and without pitch glide)

Sampler

Morpher (FFT)

Ring modulator

Analog overdrive simulator (vst plug-in)

BUFFERS:

Buffer 1	Harmonic material I	Buffer 2	Harmonic material II
Buffer 3	Bass material	Buffer 4	Rhytmic material
Buffer 5	Overtone material	Buffer 6	Space material
Buffer 7	Tremolo/trill/gliss material	Buffer 8	Soft Noise material

Introduction fill up buffers

.	Harmonic material I (feed lap top buf	opt. rest c. 5 sec.	$oldsymbol{H}$ Harmonic material $oldsymbol{\mathrm{II}}$ (feed bu	opt. res ffer 2) c. 5 sec
•	into sustainer			
	Buffer 1 Harmonic material I		Buffer 2 Harmonic materi	al II
.	Vln into sustainer Buffer	r 1 into surround delay		***************************************
ŀ	B Bass material (feed buffer 3)	(B)	MORPH	XII+R
	8va basso (boost low freq.)			12 tone/rhytmic mat. (feed buffer 4)
	Buffer 3 Bass material		(keep for later use)	Buffer 4 Rhytm. mat.
ţ	Buffer 1 surround delay	MORPH		► Buffer 2 surround delay
ı	O Overtones (feed buffer 5)	MORPH		\sum S Space material
	loco, delay, gain up			(feed buffer 6) max gain, sustainer
	Buffer 5 Overtone material Buffer Buffer 3 spectrum generator	· 5 surround delay		Buffer 6 Space material, sustainer
	FADE buffer 1 and 2 MORPH	TG Tremolo/trill/gl	iss. mak ^{yright} Ordtectied MORPH	TG + B
	less gain (still high)	(feed buffer 7) Duffer 7 (keep t	cor	15ma basso
ł	Buffer 3 and 5 continues Buffer 6 into granulated delay	Tremolo/trill/gliss. mate	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	***************************************
	SN Soft Noise material	•••••	MORPH	P Pause
	continuous sound — (feed buffer 8) granulation		secco (sho	ort noise sounds)
Ī	Buffer 8 Noise material Buffer 3 continues FADE buffer 5 and 6	••••••	······································	•••••••••••
RF	EASING	Morphin	g section	
ı	P opt. rest c. 5 sec.		MORPH	SN
	max gain, add granulation ad lib.			ending: ad lib. into sustainer
	Buffer 1	MOR	·····	Buffer 2
	FADE buffer 3 ———————aux treatment ad lib	(one or several ti (option: harmon	mes) izer, pitch changed)	FADE in buffer 8

Vln.	S+O+P	<i>MORPH</i>	H+SN
2	"hangovers" ad lib. high gain		
	Buffer 8	MORPH	Buffer 7
Lap.	"hangovers" ad lib. ————aux. ad lib.		harmonizer pitch glides
Vln.		MORPH	XII+R
3	"hangovers" ad lib. normal gain		
S Lap.	Buffer 4	<i>MORPH</i>	Buffer 3 and 8 add noise by using e.g. Ringmod., Bit reducer, Overdrive simulator
	aux. ad 116.		Bit reducer, everance simulation
Vln.		MORPH	R+N
_	"hangovers" ad lib. ————————————————————————————————————		
4	Ruffer 1 and 2	MORPH	P opt. rest c. 5 sec.
Lap.	"hangovers" ad lib. harmonizer pitched		r c. 5 sec.
	namonizer prened	A Souriest protected	
NO L	IMITS	ight pic	
Vln.	No rules. Free use of all material adapt effects to the use of material	······································	······································
5	No rules. Free use of all material	O te de la constant d	
Lap.	crossfade buffers adapt aux to the use of buffers		***************************************
DECE	REASING		
Vln.	N	MORPH	<u> Р</u>
6	granulation		secco (short noise sounds)
6	Buffer 3 and 4	MORPH	Buffer 5 and 6
Lap.	FADE "hangover" buffers		sustainer, surround delay
Vln.	SN+O+TG	MORPH	<u>Р</u>
7	high gain		
-	Buffer 3 spectrum generator	МО <i>R</i> PH	FADE P
Lap.	Buffer 6 and 8 FADE "hangover" buffers		all buffers and aux.

POSTSCRIPT:

The Introduction (at page 4) has to be played in the order it is suggested to fill up buffers However, the way to play it and the length of each cell can differ a lot.

The Morphing section gives the performers total freedom to make form and choose what to do Cell 1 - 5 are increasing the density Cell 7 and 8 are decreasing cells

Follow this structure, or use cell 7 and 8 when feeling the need to calm down

Any cell can be left out, but keep at least 4 of them to insure variation in form

The performers may also alter the order of the cells in use Continuation is taken care of by using "hangovers" (let the buffers privious used continue in next cell, or fade gradually

