

nemo
for
Ensemble and Electronics

Jukka Tiensuu 1997

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***nemo* (1997)**
for ensemble and electronics

Ensemble (note the 1st violin and the clarinet at the extreme left and right ends of the stage):

keyboard	horn	picc. trumpet B ^b	trombone	percussion
bass clarinet	violin II	oboe	viola	cello
violin I	bassoon			contrabass
			flute	clarinet
				<u>conductor</u>

FL	ensemble conductor	FR
		audience
BL		BR

4 loudspeakers in the corners

Notation

Small note-heads have two meanings. In *glissandi* passages they indicate approximate pitches. In the fast note repetitions the note head size presents 'symbolically' the *diminuendo al niente* - the last notes being just about (or not any more) audible.

Accidentals apply to the whole bar (as in traditional notation). However, to avoid ambiguity, micro-tonal accidental are placed before each note they apply to. Also, any accidental, including a micro-tonal one, cancels the previous accidental.

♯ ♭ quarter-tone sharp and flat respectively. (Using always the natural as reference, no combined accidentals are used.)

▼ cuneiform symbol above or below a note indicates a sharp staccato, which is always short, regardless of the length of the note or the surrounding musical texture, while normal staccato dots (•) are interpreted in conform with the length of the note and the musical texture.

Glissandi should be played evenly through the whole indicated duration (to differentiate them from mere *portamento*). *Glissandi* should never be replaced by a (chromatic) scale. Where performance of the total glissando is beyond the player's capability, a maximal bending of the tone to the direction indicated by *glissando* is to be performed.

Articulation: where not indicated (by slurs, dots etc.) articulation is left to the players' discretion, but should reflect the character of the music played. In general the notes should be played in full length but well articulated. Very rapid passages (like sixteenth-note triplets at MM. 120) may be slurred. It is not necessary to aim at a uniform tonguing and bowing. Rather, the players are encouraged to make individual decisions and even vary their articulation principles within their part.

General

Bars 263-267: the players perform *individual diminuendi* and (molti) *rallentandi* and will thus arrive to bar 265 at different times. There, while letting the instrumental sound slowly die away, the players will pick up the indicated pitch and sing the passage (transposing an octave if necessary) gradually moving from one phoneme to the next. The beginning of the voice part is not synchronous (wind-players still playing their instruments, whereas the others *must* start singing while still playing), but bar 267 should be sung in synchron. In bar 267 the sampler fades in on the very chord sung by the players and in bar 268 the players should fade in tuning to the pitches and dynamics of the sampler-chord. In the following bars (276-280) the sampler-chord does small pitch-deviations but the musicians should not change their pitches (the result being a variable rate of beat).

The tempi in bars 106-131, 161-186, 386-413 and 518-545 must be exact to synchronise with the sampler part *). Also the long, "static" sampler sounds in 267-280 and 446-459 should be taken in exact tempo. Elsewhere tempi may be taken slightly slower (but not faster) than indicated depending on the acoustic conditions of the performance situation. It is then recommended that when approaching any of the above-mentioned bars, an *accelerando* is performed the exact tempo reached already before reaching those bars.

Bars 205-216 and 424-445 (inclusive) are played by all musicians "portamento/glissando e con molto vibrato lentissimo" all the time. Sporadic ornament and glissando signs function mainly as reminders. Creativity (with good taste) is encouraged.

Bars 226-263 and 460-471 the accented notes should be very loud, but reasonably balanced between the instruments, to create a continuous "melody". Everything else is played *pp(p)* to create a soft, "distant" background harmony.

Keyboardist: The keyboardist uses a MIDI keyboard (preferably Yamaha, for quick program/channel changes) to control a software sampler (e.g. Kontakt). The keyboardist should play the indicated dynamics, although sometimes the resulting dynamics are pre-programmed (i.e. insensitive to the velocity (force) of the key-press. This is indicated in the part, The resulting dynamic level of the sounds may also vary greatly depending on the samples/programs used and the simultaneous positions of the mixer's faders. The circled numbers (1.-15.) indicate the programs selection. Care should be taken to not perform these changes too to avoid any clipping in the preceding sounds' possible "tails" (fade, reverb, delays etc.).

There are short sound files for the musicians to help practise the synchronisation in bars 120-131/402-413, 161-186 and 518-545:

<https://tiensuu.fi/nemoMatskut/nemoPracticeClips/>

nemo was commissioned by the French Ministry of Culture ("commande d'Etat") for Nouvel Ensemble Moderne (conducted by Lorraine Vaillancourt). The electronic part was partly realised at IRCAM with Ipke Starke as musical assistant.

nemo

for ensemble and electronics

Jukka Tiensuu 1997

♩=120 con brio

1

fl
ob
cl
bcl
bsn

hn
tpt
tne

perc
kbd

v.1
v.2
val
vc
cb

marimba
1

(with C-string)

(above line:) MIXER ACTIONS

mx 3 (below:) SAMPLER
(for reference, only)

5 (program numbers are chosen by the player)

6

fl ob cl bc bsn hn tpt tne perc kbd

v.1 v.2 va vc cb mx

3 5 6

3 3 3

>>>

mp f

3 3

mp f

3

p <<< f

mp f

f

3

pp f

f

6

p f 6

p f 6

3

11

fl f 3 3 3 - 3 -

ob

cl

bc

bsn p f 3 - 3 -

hn 6:4 f p 6:4 f 3 f pp

tpt f cuivré ord.

tne

perc

kbd

v.1 ff f p f p f

v.2 ff f f pp f

va ff f f

vc 3 (ff) pp ff s.pont. 3 pp ff

cb pp ff

mx 6 2 8

This musical score page contains two systems of music. System 11 begins with a forte dynamic for flute and bassoon, followed by a transition through various dynamics and articulations. The score includes parts for flute, oboe, clarinet, bassoon, horn, trumpet, tuba, percussion, keyboard, violin 1, violin 2, viola, cello, and bass. The bottom half of the page shows woodwind entries with sustained notes and dynamic changes.

17

fl *mp* 3 3 5 6

ob

cl *pp* f

bc *f* 5 6

bsn *f*

hn *f*

tpt *f* 3

tne

perc

kbd

v.1 3

v.2 *f*

va *f*

vc *pizz.* *f* *pizz.* *f* arco

cb *f* arco

mx 3 4 7 4

21

fl. 6

ob. 6

cl.

bcl.

bsn.

hn. 3 3 lunga!

tpt. f lunga!

tne. lunga! 6 p — f

perc. lunga!

kbd. lunga!

v.1. mp ff

v.2. mp ff

va. p ff

vc. 3 ff ff pizz.

cb. s.p. ff ff pizz.

mx. 6

Musical score for orchestra and keyboard, page 26. The score consists of two systems of four measures each. The instrumentation includes flutes (fl), oboes (ob), clarinets (c), bassoon (bsn), horn (hn), trumpet (tpt), timpani (tne), percussion (perc), keyboard (kbd), violins (v.1, v.2), bassoon (ba), cello (vc), double bass (cb), and marimba (mx). Measure 1 (measures 1-4): Flutes play eighth-note patterns with grace notes. Oboes play sixteenth-note patterns. Clarinets play eighth-note patterns. Bassoon plays eighth-note patterns. Horns play eighth-note patterns. Trumpet plays eighth-note patterns. Timpani play eighth-note patterns. Percussion plays eighth-note patterns. Keyboard plays eighth-note patterns. Violin 1 and 2 play eighth-note patterns. Bassoon plays eighth-note patterns. Cello plays eighth-note patterns. Double bass plays eighth-note patterns. Marimba plays eighth-note patterns. Measure 2 (measures 5-8): Flutes play eighth-note patterns with grace notes. Oboes play sixteenth-note patterns. Clarinets play eighth-note patterns. Bassoon plays eighth-note patterns. Horns play eighth-note patterns with grace notes. Trumpet plays eighth-note patterns. Timpani play eighth-note patterns. Percussion plays eighth-note patterns. Keyboard plays eighth-note patterns. Violin 1 and 2 play eighth-note patterns. Bassoon plays eighth-note patterns. Cello plays eighth-note patterns. Double bass plays eighth-note patterns. Marimba plays eighth-note patterns. Measure 3 (measures 9-12): Flutes play eighth-note patterns with grace notes. Oboes play sixteenth-note patterns. Clarinets play eighth-note patterns. Bassoon plays eighth-note patterns. Horns play eighth-note patterns with grace notes. Trumpet plays eighth-note patterns. Timpani play eighth-note patterns. Percussion plays eighth-note patterns. Keyboard plays eighth-note patterns. Violin 1 and 2 play eighth-note patterns. Bassoon plays eighth-note patterns. Cello plays eighth-note patterns. Double bass plays eighth-note patterns. Marimba plays eighth-note patterns. Measure 4 (measures 13-16): Flutes play eighth-note patterns with grace notes. Oboes play sixteenth-note patterns. Clarinets play eighth-note patterns. Bassoon plays eighth-note patterns. Horns play eighth-note patterns with grace notes. Trumpet plays eighth-note patterns. Timpani play eighth-note patterns. Percussion plays eighth-note patterns. Keyboard plays eighth-note patterns. Violin 1 and 2 play eighth-note patterns. Bassoon plays eighth-note patterns. Cello plays eighth-note patterns. Double bass plays eighth-note patterns. Marimba plays eighth-note patterns.

34 ♩=120

fl ob cl bsn hn tpt tne perc kbd

v.1 v.2 vc cb

piano

38

This musical score page contains six systems of music, each with multiple staves for different instruments. The instruments include flute (fl), oboe (ob), clarinet (cl), bassoon (bsn), horn (hn), trumpet (tpt), timpani (tne), percussion (perc), keyboard (kbd), violin 1 (v.1), violin 2 (v.2), viola (va), cello (vc), double bass (cb), and bassoon (bassoon). The score is in common time (indicated by '8'). Measure 38 begins with a dynamic of *p*. The first system features woodwind entries with grace notes and slurs. Measures 39-40 show a transition with various dynamics including *f*, *p*, and *f*. Measures 41-42 continue with woodwind patterns. Measures 43-44 show a return to woodwind entries. Measures 45-46 feature a prominent brass section (trumpet and horn) with sustained notes and rhythmic patterns. Measures 47-48 conclude with woodwind entries. Measures 49-50 show a return to woodwind patterns. Measures 51-52 feature a prominent brass section (trumpet and horn) with sustained notes and rhythmic patterns. Measures 53-54 conclude with woodwind entries.

48 ♩ = 120

fl ob cl bsn hn tpt tne perc kbd

v.1 v.2 vc cb mx

slowly add some reverb.

2 8 13

52

fl ob c bsn hn tpt tne perc kbd

v.1 v.2 va vc cb mx

arco ord.

f

56

fl
ob
cl
bcl
bsn
hn
tpt
tne
perc
kbd

v.1
v.2
va
vc
cb
mx

(sempre 8va)

(ossia 8va) 6 6 6

60

fl ob cl bsn hn tpt tne perc kbd v.1 v.2 va vc cb mx

64

fl f

ob f

cl f

bcl f

bsn f

hn 5 f

tpt 5 pp f

tne 6 f

perc

kbd

v.1 v.2

va

vc

cb

mx

This page contains two systems of musical notation. The first system starts with a dynamic f for flute, followed by measures for oboe, clarinet, bassoon, and brass instruments. The second system begins with a dynamic p for brass instruments, followed by measures for woodwinds and brass. The keyboard part shows continuous eighth-note patterns. The string section (violin, viola, cello) has sustained notes with grace notes. The page ends with a dynamic f for brass instruments.

Musical score for flute (fl), oboe (ob), clarinet (cl), and violin 1 (v.1). The score consists of five staves. The first staff (flute) starts with a dynamic of p , followed by f , then p with a measure length indicator of 3, and finally mf . The second staff (oboe) starts with f , followed by p with a measure length indicator of 3, and then mf . The third staff (clarinet) starts with f , followed by p , and then mf with a measure length indicator of 3. The fourth staff (violin 1) starts with f , followed by p with a measure length indicator of 3, and then mp with a dynamic 3.

add delay: 0.7" (one shot). Front speakers only.

Musical score for orchestra, page 74. The score includes parts for flute (fl), oboe (ob), clarinet (cl), and violin 1 (v.1). The flute and oboe play eighth-note patterns in measures 1-3. The flute has grace notes in measure 1. The oboe has grace notes in measure 2. Measures 4-6 are rests. Measures 7-9 show the flute and oboe continuing their patterns with dynamic changes: *mp*, *f*, *mp*, *f*, *p*. The clarinet and violin 1 enter in measures 7-9 with eighth-note patterns. Measure 10 shows the violin 1 playing eighth-note pairs with a fermata. Measure 11 ends with a forte dynamic.

Musical score for orchestra and piano, page 168, measures 80 and 81.

Measure 80: Flute (fl.) plays eighth-note patterns. Dynamics: *mf*, *p*, *G.P.*, *f*, *mp*, *f*, *mp*.

Measure 81: Oboe (ob.) rests. Clarinet (cl.) plays eighth-note patterns. Dynamics: *mp*, *p*, *G.P.*, *f*, *6*, *v.*

Measure 82: Violin 1 (v.1) plays eighth-note patterns. Dynamics: *p*, *G.P.*, *f*, *6*, *mp*, *f*, *5*, *mp*.

87

fl ob cl bsn tpt kbd v.1 mx

mf 3 3 6 *f* 6 6

(6) *p*

mf 3 3 6 *f* 6

6

92

fl ob cl bsn tpt kbd v.1 mx

p 6 G.P. *p* *p*

G.P. G.P. *p* *p*

G.P. *p*

6 6 G.P. *p* 3 *p*

6 *p* 3 G.P. *p* 3 *p*

95

6 *p* 3 G.P. *p* 3 *p*

6 *p*

100

fl

ob

cl

bsn

tpt

kbd

v.1

mx

Musical score for orchestra and keyboard, page 105. The score includes parts for flute (fl), oboe (ob), clarinet (cl), bassoon (bsn), trumpet (tpt), keyboard (kbd), and violin (v.1). The score features complex rhythmic patterns with sixteenth-note figures and grace notes. Dynamic markings include *p*, *mf*, *pp*, *f*, *mp*, and *pp(subito)*. The keyboard part includes a sustain pedal. The violin part features a melodic line with grace notes and sixteenth-note patterns. The score concludes with a instruction "delay off".

110

fl ob cl bsn tpt v.1 mx

mf ff pp mf pp f pp mf f pp f ff > pp

p sf p pp f pp mf f pp fz

mp 6 < mf pp > ff pp

f ff pp

115

fl ob cl bsn tpt v.1 mx

f pp

p mp pp 5 pp f pp 5 p pp p

pp pp 5 pp p

mf pp mp pp p

p

(3)

v.1 5 p pp < mf

3

121

fl
ob pp^3
cl
bsn
tpt
kbd
v.1
mx

pp p pp
 mf f pp
 pp mp f pp mf pp
 mf ff pp mf pp
 pp

127

fl
ob
cl
bsn
tpt
kbd
v.1
mx

$\text{<} \text{mf pp} \text{>}$ $\text{<} \text{ff pp} \text{>}$
 $\text{<} \text{f} \text{>}$ ff pp f pp
 f pp p mf > pp f pp 5
 mf pp fz mf pp $\text{<} \text{mf pp} \text{>}$ p pp
 p

133

33

fl
ob
cl
bcl
bsn
hn
tpt
tne
perc
kbd
v.1
v.2
va
vc
cb
mx

f *mp* *pp* *f*

f *f* *f* *f*

f *senza sord.* *f* *f*

f

(marimba)

4

ffff *p* *f*

p *ff* *p* *f*

ff *f* *f*

f

137

fl ob cl bsn hn tpt tne perc kbd

v.1 v.2 vc cb mx

Musical score page 3, measures 142-143. The score includes parts for flute (fl), oboe (ob), clarinet (cl), bassoon (bsn), horn (hn), trumpet (tpt), tuba (tne), percussion (perc), keyboard (kbd), violin 1 (v.1), violin 2 (v.2), cello (vc), double bass (cb), and marimba (mx). Measure 142 starts with a dynamic of *f*. The woodwind section (flute, oboe, clarinet, bassoon) plays sixteenth-note patterns. The brass section (horn, trumpet, tuba) follows with eighth-note patterns. Measures 143 begin with a dynamic of *p*, followed by *f*. The woodwinds play sixteenth-note patterns. The brass section continues with eighth-note patterns. Measure 143 concludes with a dynamic of *pp*.

Measure 142:

- Flute (fl): *f*
- Oboe (ob): *p* *f*
- Clarinet (cl): *p* *f*
- Bassoon (bsn): *p* *f*
- Horn (hn): *cuivré*
- Trumpet (tpt): *p* *f*
- Tuba (tne): *cuivré*
- Percussion (perc): Rest
- Keyboard (kbd): Rest

Measure 143:

- Flute (fl): *p* *f*
- Oboe (ob): *f* *p* *f*
- Clarinet (cl): *f* *p* *f*
- Bassoon (bsn): *f* *p* *f*
- Horn (hn): *ord.* *6:4*
- Trumpet (tpt): *6:4*
- Tuba (tne): *ord.* *f* *pp*
- Percussion (perc): Rest
- Keyboard (kbd): Rest

Measure 144 (beginning):

- Violin 1 (v.1): *ff*
- Violin 2 (v.2): *ff*
- Cello (vc): *ff*
- Double Bass (cb): *pp* *ff*
- Marimba (mx): *s.p.* *3*

148

fl ob cl bsn hn tpt tne perc kbd

v.1 v.2 val vc cb

mx

Measure 148: fl (f), ob (f), cl (f), bsn (f), hn (f), tpt (f), perc (f), v.1 (f), v.2 (f), val (f), vc (f), cb (f)

Measure 149: fl (p), ob (p), cl (p), bsn (p), hn (p), tpt (p), perc (p), v.1 (p), v.2 (p), val (p), vc (p), cb (p)

Measure 150: fl (f), ob (f), cl (f), bsn (f), hn (f), tpt (f), perc (f), v.1 (f), v.2 (f), val (f), vc (f), cb (f)

Measure 151: fl (ff), ob (ff), cl (ff), bsn (ff), hn (ff), tpt (ff), perc (ff), v.1 (ff), v.2 (ff), val (ff), vc (ff), cb (ff)

Measure 152: fl (ff), ob (ff), cl (ff), bsn (ff), hn (ff), tpt (ff), perc (ff), v.1 (ff), v.2 (ff), val (ff), vc (ff), cb (ff)

157

fl ob cl bsn hn tpt tne perc kbd

v.1 v.2 vc cb mx

11 13

161

flute (fl) *p*
clarinet (cl) *p*
percussion (perc)
keyboard (kbd) *(play "pp", real dynamics are pre-programmed)*
violin 1 (v.1) *s.pont.*
violin 2 (v.2) *s.pont.*
mixing console (mx) *13*

cresc. p. a p. *5:6* *3* *mp*

• (sempre)

pp cresc. p. a p.

pp cresc. p. a p.

flute slowly to Back Right speaker

166

flute (fl)
clarinet (cl)
percussion (perc)
keyboard (kbd)
violin 1 (v.1) *f*
violin 2 (v.2) *f*

dim. p. a p.

dim. p. a p.

6 *3* *3* *3*

mixing console (mx)

170

fl

cl

perc

kbd

v.1

v.2

mx

5 5 3 6 3 7

ppp

ppp

174

fl

cl

perc

kbd

v.1

v.2

mx

3 7 3 6 (mf) 5 (mp)

dim. p. a p.

ord.

pp cresc. p. a p. 3 6 (p) 5 (mp) 5

1. violin to Back Left speaker

178

(*p*)

(*pp*) 6 — 3 —

(*ppp*)

(*dim. al niente*)

perc

kbd

v.1

v.2

mx | 1. violin slowly (6 bars) to Front Left

182

(*mime only, no sound*)

3 —

5:6 —

(*mf*)

f

flute to Front Right speaker

mx |

♩=60

$\text{♩}=120$

197

fl 3 6

ob *f* 3 *pp*

cl 5 8 *pp*

bsn 5 8 *f*

hn

tpt 6:4 *f* *pp*

tne *f*

perc

kbd (ord.) *f*

v.1 *f* *p* *f*

v.2 *f* *pp*

va *f* *pp*

vc *s.p.* *f* *s.p.*

cb

mx

201

fl ob cl bsn hn tpt tne perc kbd v.1 v.2 vc cb mx

202

Musical score page 207, featuring two systems of music. The top system includes parts for flute (fl), oboe (ob), clarinet (cl), bassoon (bsn), horn (hn), trumpet (tpt), and triangle (tne). The bottom system includes parts for violin 1 (v.1), violin 2 (v.2), cello (vc), double bass (cb), and bass drum (kdb). The score uses a 4/4 time signature and includes dynamic markings such as ff , f , p , mf , and mp . Measure numbers 1 through 6 are indicated at the end of each system.

211

J=90

218

fl *mf* 3 *p*
 ob *f* 3 *p* 3
 cl *f* 3 *p* 3
 kbd
 v.1
 v.2 *mf* 3
 mx

221

fl 3 6 *f* 6 *p* 6 *p* 6
 ob 3 *f* 3 3 *p* 3 3
 cl 6 *f* 6 *p* 6 *p* 6
 kbd (6) *p* 6
 v.1
 v.2
 mx

fl *p* 3 6 *f* 6 *p* 6 *p* 3
 ob *p* 3 3 *f* 3 3 *p* 3
 cl *p* 3 3 *f* 3 3 *p* 3
 kbd
 v.1
 v.2 *p* 3 6 *f* 6 *p* 6 *p*
 mx 6

225 fl. ob. cl. bc. bsn. hn. tpt. tne. perc. kbd. v.l. v.2. va. vc. cb.

vibrphone

227

con sord.

12

start spatialisation (accel...capriccioso...rall., see perf. note!)

232

fl ob cl tpt perc kbd v.1 v.2

Flute part: Measures 1-6 show eighth-note patterns with dynamic markings like v , f , and ff . Measure 7 starts with a forte dynamic f .

Oboe part: Measures 1-6 show eighth-note patterns with dynamic markings like v , f , and ff . Measure 7 starts with a forte dynamic f .

Clarinet part: Measures 1-6 show eighth-note patterns with dynamic markings like v , f , and ff . Measure 7 starts with a forte dynamic f .

Trumpet part: Measures 1-6 show eighth-note patterns with dynamic markings like v , f , and ff . Measure 7 starts with a forte dynamic f .

Percussion part: Measures 1-6 show eighth-note patterns with dynamic markings like v , f , and ff . Measure 7 starts with a forte dynamic f . Includes dynamic markings Ped. and $*$.

Keyboard part: Measures 1-6 show eighth-note patterns with dynamic markings like v , f , and ff . Measure 7 starts with a forte dynamic f .

Violin parts: Measures 1-6 show eighth-note patterns with dynamic markings like v , f , and ff . Measure 7 starts with a forte dynamic f .

236

fl ob cl tpt perc kbd v.1 v.2

Musical score for orchestra and keyboard, page 10, measures 240-244.

The score consists of six staves:

- f**: Flute (G clef) plays eighth-note patterns.
- ob**: Oboe (C clef) plays eighth-note patterns.
- cl**: Clarinet (C clef) plays eighth-note patterns.
- tpt**: Trumpet (C clef) plays eighth-note patterns.
- perc**: Percussion (G clef) plays eighth-note patterns. Includes dynamic markings: Ped. (pedal down) and $*$.
- kbd**: Keyboard (G clef) plays eighth-note patterns.
- v.1** and **v.2**: Violin (G clef) parts, grouped by a brace. The violin parts are identical.

Measure 240 starts with a forte dynamic (f). Measures 241-244 show a repeating pattern of eighth-note chords and eighth-note patterns from the woodwind and brass sections. The percussion part features a rhythmic pattern of eighth notes with Ped. and $*$ markings. The keyboard part follows the same eighth-note pattern as the woodwinds and brass. The violin parts provide harmonic support with eighth-note chords.

244

This musical score page contains six systems of music, each with two staves. The instruments are: Flute (fl), Oboe (ob), Clarinet (cl), Trumpet (tpt), Percussion (perc), Keyboard (kbd), Violin 1 (v.1), and Violin 2 (v.2). Measure 244 starts with a dynamic of f . Measures 245-247 show a repeating pattern of eighth-note chords and sustained notes with grace notes. The percussion part includes several "Ped." (pedal) markings.

248

This musical score page contains six systems of music, each with two staves. The instruments are: Flute (fl), Oboe (ob), Clarinet (cl), Trumpet (tpt), Percussion (perc), Keyboard (kbd), Violin 1 (v.1), and Violin 2 (v.2). Measure 248 begins with a dynamic of f . Measures 249-251 continue the rhythmic pattern established in measure 248, featuring eighth-note chords and sustained notes with grace notes. The percussion part includes several "Ped." (pedal) markings.

252

This musical score page contains six staves of music. The top four staves are for woodwind instruments: Flute (fl), Oboe (ob), Clarinet (cl), and Trumpet (tpt). The fifth staff is for Percussion (perc) and the sixth staff is for Keyboard (kbd). The bottom two staves are for strings: Violin 1 (v.1) and Violin 2 (v.2). Measure 252 starts with a dynamic of $\frac{1}{8}$ followed by a fermata. Measures 253-254 show eighth-note patterns with grace notes. Measure 255 concludes with a dynamic of $\frac{1}{8}$. The percussion part includes several 'Ped.' (pedal) markings.

256

This musical score page contains six staves of music. The top four staves are for woodwind instruments: Flute (fl), Oboe (ob), Clarinet (cl), and Trumpet (tpt). The fifth staff is for Percussion (perc) and the sixth staff is for Keyboard (kbd). The bottom two staves are for strings: Violin 1 (v.1) and Violin 2 (v.2). Measure 256 starts with a dynamic of $\frac{1}{8}$. Measures 257-258 show eighth-note patterns with grace notes. Measure 259 concludes with a dynamic of $\frac{1}{8}$. The percussion part includes several 'Ped.' (pedal) markings.

260

rallentandi e diminuendi individuali

fl

ob

cl

bc

bsn

hn

tpt

tne

perc

kbd

v.1

v.2

va

vc

cb

pp (sempre legato)

pp (sempre legato)

pp (sempre legato)

rallentandi e diminuendi individuali

pp (legato sempre)

rallentandi e diminuendi individuale

p pp (legato)

pp (legato)

rallentandi e diminuendi individuale

pp (sempre legato)

pp (sempre legato)

spatialisation ends in Front (sampler also in Front) add some reverb. (Front only)

♩=20

264

fl sing: [m - u - o - a -] (play) sing: [u - a - o - um-] (play)

ob sing: [m - u - o - a -] (play) sing: [u - a - o - um-] (play)

cl sing: [m - u - o - a -] (play) sing: [u - a - o - um-] (play)

bc sing: [m - u - o - a -] (play) sing: [u - a - o - um-] (play)

bsn p molto f (play) f (play)

hn sing: [m - u - o - a -] (play) sing: [u - a - o - um-] (play)

tpt sing: [m - u - o - a -] (play) senza sord. sing: [u - a - o - um-] (play)

tne sing: [m - u - o - a -] (play) f (play) mf (play)

perc sing: [m - u - o - a -] pp sing: [u - a - o - um-] >

kbd sing: [m - u - o - a -] (14) (mf) sing: [u - a - o - um-] (mf)

♩=20

(tutti senza vibr. al 285)

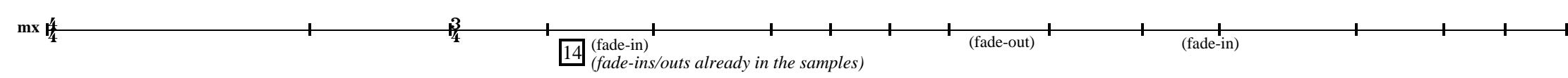
v.l sing: [m - u - o - a -] (play) sing: [u - a - o - um-] (play)

v.2 sing: [m - u - o - a -] (play) sing: [u - a - o - um-] (play)

va sing: [m - u - o - a -] (play) sing: [u - a - o - um-] (play)

vc sing: [m - u - o - a -] (play) sing: [u - a - o - um-] (play)

cb sing: [m - u - o - a -] (play) f (play) mf (play)



279

fl **ob** **cl** **bcl** **bsn** **hn** **tpt** **tne**

perc **kbd**

v.1 **v.2** **va** **vc** **cb**

mx

fl **ob** **cl** **bcl** **bsn** **hn** **tpt** **tne**

perc **kbd**

v.1 **v.2** **va** **vc** **cb**

mx

290

fl ob cl bsn hn tpt tne perc kbd

v.1 v.2 va vc cb mx

296

Flute (fl) - Oboe (ob) - Clarinet (cl) - Bassoon (bsn)

Horn (hn) - Trumpet (tpt) - Trombone (tne) - Percussion (perc) - Keyboard (kbd)

Violin 1 (v.1) - Violin 2 (v.2) - Cello (vc) - Double Bass (cb) - Marimba (mx)

ord.

302

fl *lunga!*
ob *lunga!*
cl
bcl *f*
bsn *f* *p* *f* *lunga!*
hn *lunga!*
tpt *f* *pp* *f* *lunga!*
tne *f* *3* *3* *f* *6* *lunga!*
perc *lunga!*
kbd *lunga!*

v.1 *s.pont.* *f* *ff* *ff* *lunga!* *ord.*
v.2 *s.pont.* *f* *ff* *ff* *lunga!* *ord.*
va *s.p.* *ff* *ff* *lunga!* *ord.*
vc *s.p.* *ff* *ff* *lunga!* *ord.*
cb *s.p.* *ff* *ff* *lunga!* *ord.*
mx *pp*

307

fl ob cl bsn hn tpt tne perc kbd

v.1 v.2 vc cb mx

ord.

f *ff* *f*

f *f*

f

60

Musical score for orchestra and piano, page 10, measures 60-64. The score includes parts for Violin 1 (v.1), Violin 2 (v.2), Cello (va), Double Bass (vc), Bassoon (cb), and Marimba (mx). The tempo is indicated as ♩=60. The score shows various dynamics (ff, f, p) and performance techniques such as slurs, grace notes, and dynamic markings like † and ‡. Measure 60: v.1 sustained note, v.2 eighth-note pattern, va sustained note, vc eighth-note pattern, cb sustained note. Measure 61: ff dynamic, v.1 eighth-note pattern, v.2 eighth-note pattern, va eighth-note pattern, vc eighth-note pattern, cb eighth-note pattern. Measure 62: ff dynamic, v.1 eighth-note pattern, v.2 eighth-note pattern, va eighth-note pattern, vc eighth-note pattern, cb eighth-note pattern. Measure 63: ff dynamic, v.1 eighth-note pattern, v.2 eighth-note pattern, va eighth-note pattern, vc eighth-note pattern, cb eighth-note pattern. Measure 64: v.1 eighth-note pattern, v.2 eighth-note pattern, va eighth-note pattern, vc eighth-note pattern, cb eighth-note pattern, mx eighth-note pattern.

$\text{♩}=120$

316

fl
ob
cl
bc
bsn
hn
tpt
tne
perc
kbd

$\text{♩}=120$

v.1
v.2
va
vc
cb
mx $\frac{3}{4}$

321

fl
ob
cl
bcl
bsn
hn
tpt
tne
perc
kbd

v.1
v.2
va
vc
cb

mx

331

fl
ob
cl
bcl
bsn
hn
tpt
tne
perc
kbd
v.1
v.2
va
vc
cb
mx

335

fl
ob
c
bcl
bsn
hn
tpt
tne
perc
kbd
v.1
v.2
va
vc
cb
mx

340

fl ob cl bcl bsn hn tpt tne perc kbd

v.1 v.2 vla vcl cb mx

This page contains two systems of musical notation. The top system includes parts for flute (fl), oboe (ob), clarinet (cl), bassoon (bcl), bassoon (bsn), horn (hn), trumpet (tpt), triangle (tne), percussion (perc), and keyboard (kbd). The bottom system includes parts for violin 1 (v.1), violin 2 (v.2), viola (vla), cello (vc), double bass (cb), and a mixed ensemble (mx) consisting of flute, oboe, clarinet, bassoon, and bassoon. The music is in common time (indicated by '6' over a '4'). Measure 340 begins with a dynamic of *f*. Various sixteenth-note patterns are played across the staves, with dynamics such as *ff* and *f*. The piano part in the middle section features a continuous sixteenth-note pattern. Measure 341 continues with similar patterns and dynamics. Measure 342 shows a transition, indicated by a vertical bar line, followed by measures 343 and 344, which conclude the page.

348

ob *mp*

cl *mp*

bcl *mp* *f* *p* *f* *p*

bsn *mp* *f* *mp* *f* *p*

tne *mp* *f* *p*

vc *f* *p*

add delay: 0.7" (one shot, Back speakers only)

353

bcl *mf* *mp* *mp* *5* *mp*

bsn *p* *pp* *mp*

tne *mf* *3*

vc *mf* *mp* *mf* *mp* *mp*

mx

359

bcl *mp* *mp* *3* *mp* *p* *G.P.* *f* *3* *3* *> >*

bsn *f* *mp* *p* *G.P.* *f* *6* *G.P.* *f* *6* *> >*

tne *mp* *f* *p* *G.P.* *f* *6* *G.P.* *f*

vc *f* *mp* *p* *G.P.* *f*

62

366

bcl
bsn
tne
vc

mp *f* *6* *mf*
mp *f* *5* *mf*
mp *f* *5* *mf*
mf



371

bcl
bsn
tne
vc

f *3* *3* *3* *3* *3* *3*
f *3* *6* *6* *6* *6*
f *3* *6* *6* *6* *6*



375

bcl
bsn
tne
vc

p *3* *3* *>* G.P. *p*
p G.P. *p*
p *6* *>* G.P. *p* *3* *3*
p G.P. *p* *3* *6* *>* G.P. *p* *3* *3*



381

bcl
bsn
tne
vc

mp
mf
mp
mf
p
pp
p
p
mf



387

63

bcl *p* *mf* *mf*

bsn *3* *3*

hn

tne *mf* *6* *>* *p*

vc *3* *mp* *3* *5* *mf* *pp*

mx delay off

392

63

bcl *3*

bsn *3*

hn

tne *p* *sf*

vc *mf* *3* *ff* *pp* *mf* *>* *pp* *f* *pp* *f pp*

398

63

bcl *5*

bsn *mp*

hn

tne *mf*

vc *pp* *f* *pp*

64

64 402

bcl: $\begin{array}{c} \text{mf} \\ \text{p} \end{array}$

bsn: $\begin{array}{c} 3 \\ 6 \\ 3 \\ p \\ pp \end{array}$

hn: $\begin{array}{c} 6 \\ 3 \\ mp \\ f \\ pp \\ mf \\ pp \\ 5 \\ 3 \end{array}$

tne: $\begin{array}{c} 3 \\ p \\ 3 \\ 3 \\ 3 \\ mf \\ f \\ pp \\ 3 \\ 3 \end{array}$

kbd: (3) f

vc: $\begin{array}{c} 5 \\ 3 \\ 3 \\ pp \\ 3 \\ mf \\ 3 \end{array}$

mx: 3

407

407

bcl
bsn
hn
tne
kbd
vc

mp

mf pp

ff pp

mp

p sf

mf pp

fz

f

ff pp

f pp

pp

mf

pp mf

> pp

f

> pp

mf

f

pp

ff > pp

p

> pp

mf

f

pp

< f pp

414

414

fl
ob
cl
bcl
bsn
hn
tpt
tne
perc
kbd
v.1
v.2
va
vc
cb
mx

3 *ff* *3* *3* *3*
ff *3* *3* *3*
3
3 *3* *3*
3
6 *f* *pp* *5*
6
f *pp*
6 *f* *pp*
ff
ff
ff
ff

418

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

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168

169

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173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

422

♩=40 or less

fl
ob
cl
bc
bsn

hn
tpt
tne

perc

kbd

v.1
v.2

va

vc
cb

mx

add reverb. "molto"

427

fl (simile \sim and gliss.)

ob (simile \sim and gliss.)

cl (simile \sim and gliss.)

bc (simile \sim and gliss.)

bsn (simile \sim and gliss.)

hn (simile \sim and gliss.)

tpt (simile \sim and gliss.)

tne (simile \sim and gliss.)

perc

kbd

v.1 (simile \sim and gliss.)

v.2 (simile \sim and gliss.)

va (simile \sim and gliss.)

vc (simile \sim and gliss.)

cb (simile \sim and gliss.)

mx

432

fl ob cl bsn hn tpt tne perc kbd

v.1 v.2 va vc cb mx

442

fl f >> ff >

ob 3 >> ff >

cl f >> ff >

bc f >> ff >

bsn 3 >> ff >

hn f >> ff >

tpt f >> ff >

tne f >> ff >

perc

kbd (8) sampler solo 52''
(not conducted)

v.1 3 << ff >

v.2 f << ff >

va f << ff >

vc 3 << ff >

cb f << ff >

sampler in all loudspeakers
with maximal reverb.

71

454

459

fl

ob

cl

bcl

bsn

hn

tpt

tne

vibraphone

perc

kbd

v.1

v.2

va

vc

cb

mx

accel. p. a p.

(simile)

(pp)

(mp)

cresc. on accented notes
(small notes stay pp)

simile
cresc. (on accented notes only)

cresc. on accented notes
(small notes stay pp)

con sord.

pp

(*p*)

*cresc. on accented notes
(small notes stay pp)*

*cresc. on accented notes
(small notes stay pp)*

12

accel. e cresc. p. a p.

pp
(bars 460-472 optional)

(p)

*cresc. on accented notes
(small notes stay pp)*

accel. p. a p.

(*p*)

*cresc. on accented notes
(small notes stay pp)*

less reverb. (ensemble + sampler)
spatial rotation (see perf. note!)

12

462

fl
ob
cl
tpt
perc
kbd
v.1
v.2

(mf) (pp)
(pp, mf)
(mf) (pp)
(mf)
* Ped. *
(mf) * Ped.
(pp) * Ped.
* Ped. * Ped.
* Ped. * Ped.
(pp)

(=56) (=64) (=76) (=92)

(mf) (pp)
(mf) (pp)
(mf) (pp)
(f)
(mf)

466

fl (f) (pp)

ob (pp f)

cl (f) (pp)

tpt (f) (ff) (pp) (pp ff)

perc (f) * Ped. * Ped. * Ped. (ff) * (pp) Ped. * Ped. * Ped. (ff) (pp)

kbd (f) (pp) (ff) (pp)

v.1 (pp) (ff) (pp) (f)

v.2

73

470 $\text{♩} = 120$

fl ob cl bcl bsn hn tpt tne perc kbd

senza sord.

$\text{♩} = 108$ $\text{♩} = 120$

v.1 v.2 va vc cb

(end rotation in Front)

475

fl
ob
cl
bcl
bsn

hn
tpt
tne

perc
kbd

v.1
v.2
va
vc
cb

mx

(sampler now in rear speakers only)

479

Musical score page 479, featuring multiple staves for different instruments. The top section includes flutes, oboes, clarinets (marked f), bassoon, horns, trumpets, and tubas. The middle section includes percussion and keyboards (marked f). The bottom section includes violins (marked f), violas, cellos, and double basses (marked f). Measure numbers 1 through 8 are indicated above each staff. Measure 3 is marked with a bracket. Measure 8 is marked with a bracket and a circled '3'. The score is in 2/4 time.

reverb. OFF (acoustic ensemble only)

mx

2

494

fl
ob
cl
bcl
bsn
hn
tpt
tne
perc
kbd
f
mp
pp

v.1
v.2
va
vc
cb
pp

501

fl
ob
cl
bc
bsn
hn
tpt
tne
perc
kbd
v.1
v.2
va
vc
cb
mx

508

fl ob cl bsn hn tpt tne perc kbd v.1 v.2 va vc cb mx

513

fl ff

ob ff

cl ff

bc ff

bsn ff

hn ff

tpt ff

tne ff

perc

kbd

v.1 ff

v.2 ff

va ff

vc ff

cb ff

dim. leggiero

sempre leggiero

(ossia)

8va

15

3 3 3

dim. 6

(al fine)

slowly add reverb. (Front only)

reverb. "medium+"

15 (sampled outs and dynamics
are pre-programmed)

519

flute: Measures 1-2, dynamic *p. a p. diminuendo*, measure 3-4 dynamic *f*. Measure 5-6 dynamic *p. a p. dim.*, measure 7 dynamic *f*.

clarinet: Measures 1-2, dynamic *p. a p. diminuendo*, measure 3-4 dynamic *f*. Measure 5-6 dynamic *p. a p. dim.*, measure 7 dynamic *f*.

percussion: Measures 1-7, dynamic *p. a p. dim.*

keyboard: Measures 1-7, dynamic *p. a p. dim.*

v.1 (Violin 1): Measures 1-2, dynamic *p. a p. dim.*, measure 3-4 dynamic *f*. Measure 5-6 dynamic *p. a p. dim.*, measure 7 dynamic *f*.

v.2 (Violin 2): Measures 1-2, dynamic *p. a p. dim.*, measure 3-4 dynamic *f*. Measure 5-6 dynamic *p. a p. dim.*, measure 7 dynamic *f*.

mx (Basso Continuo): Measures 1-7, dynamic *p. a p. dim.*

(play "pp", real dynamics are pre-programmed)

525

This musical score page contains five staves. The top staff is for the clarinet (cl), featuring a treble clef and a key signature of one sharp. It includes two groups of six eighth-note strokes each, with a bracket above them labeled '5'. The second measure consists of six eighth-note strokes. The third measure starts with a dynamic marking *mf*. The fourth staff is for percussion (perc), with a treble clef and a key signature of one sharp. It shows six vertical bars, each containing a single eighth note. The fifth staff is for keyboard (kbd), with a treble clef and a key signature of one sharp. It shows six vertical bars, each containing a single eighth note. The bottom staff is for violin 1 (v.1), with a treble clef and a key signature of one sharp. It features six groups of six eighth-note strokes each, with a bracket below them labeled '6' and another bracket below it labeled '5'. The dynamic marking *mf* is placed under the first group of strokes. The last staff at the bottom is for mallets (mx), with a treble clef and a key signature of one sharp. It shows six vertical bars, each containing a single eighth note.

82

530

cl
perc
kbd
v.1
mx

clarinet to Back Right, violin to Back Left slowly...

add reverb. to all "poco a poco" till "molto"

535

cl
perc
kbd
v.1
mx

(all sounds now from Back speakers only)

540

cl
perc
kbd
v.1
mx

(mime only, repeat 4-6 times)

(repeat 4-6 times)

First time "ppp", then 3-5 repeats in pantomime

perc. sampler very slow fade-out... (15"-20")