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Deadlock I.

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Ruby Fulton

Deadlock

Concerto for Beatboxer

Deadlock

I.

Instrumentation

2 Flutes

2 Oboes

2 Clarinets in B \flat

2 Bassoons

4 Horns in F

2 Trumpets in B \flat

3 Trombones

Tuba

Timpani

Percussion 1 [Vibraphone, Xylophone, Drum Set]

Percussion 2 [Marimba, Xylophone, Glockenspiel, Drum Set]

Beatbox Soloist

Violin I

Violin II

Viola

Violoncello

Contrabass

Program Note: *Deadlock* is a concerto custom-made for Baltimore beatboxer Shodekeh, an artist of vocal percussion. Many thanks to Wilbert Brown of the Fells Point Chess Club in Baltimore for writing the chess game which provides the underlying structure of the music. I composed the first movement while in residency at the Hermitage Artist Retreat in Englewood, Florida.

Duration: c.a. 9:30

First Performance: Boulder Philharmonic with Michael Buttermann on March 24, 2012

Deadlock I.

Ruby Fulton

♩ = 80

The musical score is arranged in a standard orchestral format with the following parts from top to bottom:

- Flute 1, 2
- Oboe 1, 2
- Clarinet 1, 2 in B \flat
- Bassoons 1, 2
- Horn in F 1, 2
- Horn in F 3, 4
- Trumpet 1, 2 in B \flat
- Trombone 1, 2
- Trombone 3
- Tuba
- Timpani
- Percussion 1: Vibraphone (measured 32nd notes, *mf*)
- Percussion 2: Marimba (measured 32nd notes, *mf*)
- Beatboxer (*f*)
- Violin I
- Violin II
- Viola
- Violoncello
- Contrabass (*f*)

The score begins with a 4/4 time signature and a tempo of 80 beats per minute. The woodwind and brass sections are mostly silent, with rests throughout. The percussion and beatboxer parts are active, featuring complex rhythmic patterns of measured 32nd notes. The strings are also silent, with rests throughout.

Musical score for orchestral instruments. The score is written for a full orchestra, including woodwinds, brass, percussion, and strings. The instruments listed on the left are: Fl. 1,2; Ob. 1,2; Cl. 1,2; Bsn. 1,2; Hn. 1,2; Hn. 3,4; Tpt. 1,2; Tbn. 1,2; Tbn. 3; Tba.; Timp.; Perc. 1; Perc. 2; B.box; Vln. I; Vln. II; Vla.; Vc.; and Cb. The score is in 2/4 time and begins with a 6-measure rest for the woodwinds. The woodwinds (Flute, Oboe, Clarinet, Bassoon) play a rhythmic pattern of eighth notes starting at measure 6, marked *mp*. The strings (Violins I and II, Viola, Violoncello, and Contrabass) play a rhythmic pattern of eighth notes starting at measure 6, marked *f*. The percussion (Timpani, Percussion 1, Percussion 2, and Bbox) play a rhythmic pattern of eighth notes starting at measure 6. The brass (Trumpets, Trombones, and Tuba) are silent throughout the score.

Musical score for orchestral instruments. The score is divided into two systems. The first system includes Flute 1 & 2 (Fl. 1,2), Oboe 1 & 2 (Ob. 1,2), Clarinet 1 & 2 (Cl. 1,2), Bassoon 1 & 2 (Bsn. 1,2), Horn 1 & 2 (Hn. 1,2), Horn 3 & 4 (Hn. 3,4), Trumpet 1 & 2 (Tpt. 1,2), Trombone 1 & 2 (Tbn. 1,2), Trombone 3 (Tbn. 3), Tuba (Tba.), Timpani (Timp.), Percussion 1 (Perc. 1), Percussion 2 (Perc. 2), Bassoon (B.box), Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and Contrabass (Cb.). The second system includes Bassoon (B.box), Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and Contrabass (Cb.). The score features complex rhythmic patterns, including triplets and sixteenth notes, and dynamic markings such as *f* (forte).

16

Fl. 1,2
Ob. 1,2
Cl. 1,2
Bsn. 1,2
Hn. 1,2
Hn. 3,4
Tpt. 1,2
Tbn. 1,2
Tbn. 3
Tba.
Timp.
Perc. 1
Perc. 2
B.box
Vln. I
Vln. II
Vla.
Vc.
Cb.

22

Fl. 1,2
Ob. 1,2
Cl. 1,2
Bsn. 1,2
Hn. 1,2
Hn. 3,4
Tpt. 1,2
Tbn. 1,2
Tbn. 3
Tba.
Timp.
Perc. 1
Perc. 2
B.box
Vln. I
Vln. II
Vla.
Vc.
Cb.

Musical score for 'Battle #1, White Bishop takes Black Knight'. The score is written for a full orchestra and includes the following parts:

- Fl. 1, 2
- Ob. 1, 2
- Cl. 1, 2
- Bsn. 1, 2
- Hn. 1, 2
- Hn. 3, 4
- Tpt. 1, 2
- Tbn. 1, 2
- Tbn. 3
- Tba.
- Timp.
- Perc. 1
- Perc. 2 (Drum set)
- B.box
- Vln. I
- Vln. II
- Vla.
- Vc.
- Cb.

The score is in 4/4 time and features a variety of dynamics including *mp* (mezzo-piano) and *f* (forte). It includes complex rhythmic patterns such as triplets and sixteenth-note runs. A section titled 'Battle #1, White Bishop takes Black Knight' is marked with a box and begins around measure 29. The score concludes with a final *f* dynamic.

Musical score for measures 36-40. The score includes parts for Flute 1 & 2, Oboe 1 & 2, Clarinet 1 & 2, Bassoon 1 & 2, Horn 1 & 2, Horn 3 & 4, Trumpet 1 & 2, Trombone 1 & 2, Trombone 3, Tuba, Timpani, Percussion 1 & 2, Bassoon, Violin I & II, Viola, Violoncello, and Contrabass. The score features various musical notations including rests, triplets, and dynamic markings such as *mp* and *f*. The woodwinds and brass sections have specific rhythmic patterns, while the strings play a steady accompaniment.

48

Fl. 1,2
Ob. 1,2
Cl. 1,2
Bsn. 1,2
Hn. 1,2
Hn. 3,4
Tpt. 1,2
Tbn. 1,2
Tbn. 3
Tba.
Timp.
Perc. 1
Perc. 2
B.box
Vln. I
Vln. II
Vla.
Vc.
Cb.

Detailed description of the musical score: The score is for measures 48 through 52. The instruments listed on the left are Flutes 1,2; Oboes 1,2; Clarinets 1,2; Bassoons 1,2; Horns 1,2 and 3,4; Trumpets 1,2; Trombones 1,2 and 3; Tuba; Timpani; Percussion 1 and 2; Bassoon; Violin I; Violin II; Viola; Violoncello; and Contrabass. Measures 48-50 show mostly rests for the woodwinds and brass, with some activity in the strings and percussion. Measure 51 features a prominent melodic line for the Trumpets 1,2, with a complex rhythmic pattern. Measure 52 continues the activity in the strings and percussion, with the Bassoon and Bassoon parts showing more rhythmic complexity. The Percussion 1 part has a dense, rhythmic pattern throughout the measures.

53

Fl. 1,2
Ob. 1,2
Cl. 1,2
Bsn. 1,2
Hn. 1,2
Hn. 3,4
Tpt. 1,2
Tbn. 1,2
Tbn. 3
Tba.
Timp.
Perc. 1
Perc. 2
B.box
Vln. I
Vln. II
Vla.
Vc.
Cb.

58

Fl. 1,2
Ob. 1,2
Cl. 1,2
Bsn. 1,2
Hn. 1,2
Hn. 3,4
Tpt. 1,2
Tbn. 1,2
Tbn. 3
Tba.
Timp.
Perc. 1
Perc. 2
B.box
Vln. I
Vln. II
Vla.
Vc.
Cb.

f
f
f
f
mf
f
f
f

Xylophone

63

Fl. 1,2
Ob. 1,2
Cl. 1,2
Bsn. 1,2
Hn. 1,2
Hn. 3,4
Tpt. 1,2
Tbn. 1,2
Tbn. 3
Tba.
Timp.
Perc. 1
Perc. 2
B.box
Vln. I
Vln. II
Vla.
Vc.
Cb.

Detailed description of the musical score: The score is for measures 63 through 66. Measure 63 starts with a 2/4 time signature. The Oboe 1,2 part has a melodic line with accents. The Bassoon 1,2 part has a rhythmic accompaniment. The Percussion 1 and 2 parts have a pattern of eighth notes with triplets. The Bass Drum part has a pattern of eighth notes with accents. The Violin I part has a melodic line with accents. The Violin II part has a melodic line with accents. The Viola part has a melodic line with accents. The Violoncello part has a melodic line with accents. The Contrabass part has a melodic line with accents. Measure 64 continues the patterns. Measure 65 changes to a 3/4 time signature. The Percussion 1 and 2 parts have a pattern of eighth notes with sextuplets. The Bass Drum part has a pattern of eighth notes with accents. Measure 66 continues the patterns.

73

Fl. 1,2

Ob. 1,2

Cl. 1,2

Bsn. 1,2

Hn. 1,2

Hn. 3,4

Tpt. 1,2

Tbn. 1,2

Tbn. 3

Tba.

Timp.

Perc. 1

Perc. 2

B.box

Vln. I

Vln. II

Vla.

Vc.

Cb.

3f

div.

80

Fl. 1,2
Ob. 1,2
Cl. 1,2
Bsn. 1,2
Hn. 1,2
Hn. 3,4
Tpt. 1,2
Tbn. 1,2
Tbn. 3
Tba.
Timp.
Perc. 1
Perc. 2
B.box
Vln. I
Vln. II
Vla.
Vc.
Cb.

88

Fl. 1,2

Ob. 1,2

Cl. 1,2

Bsn. 1,2

Hn. 1,2

Hn. 3,4

Tpt. 1,2

Tbn. 1,2

Tbn. 3

Tba.

Timp.

Perc. 1

Perc. 2

B.box

Vln. I

Vln. II

Vla.

Vc.

Cb.

ff

ff

ff

ff

ff

ff

f

f

f

f

mf

ff

ff

f

f

f

ff

ff

ff

ff

think in 3/4

think in 3/4

arco

arco

arco

ff

ff

ff

ff

ff

96

Fl. 1,2

Ob. 1,2

Cl. 1,2

Bsn. 1,2

Hn. 1,2

Hn. 3,4

Tpt. 1,2

Tbn. 1,2

Tbn. 3

Tba.

Timp.

Perc. 1

Perc. 2

B.box

Vln. I

Vln. II

Vla.

Vc.

Cb.

f

mf

ff

103

Fl. 1,2

Ob. 1,2

Cl. 1,2

Bsn. 1,2

Hn. 1,2

Hn. 3,4

Tpt. 1,2

Tbn. 1,2

Tbn. 3

Tba.

Timp.

Perc. 1

Perc. 2

B.box

Vln. I

Vln. II

Vla.

Vc.

Cb.

This page contains the musical score for 22 measures of an orchestral piece. The score is arranged in a standard orchestral layout with the following parts from top to bottom:

- Fl. 1, 2
- Ob. 1, 2
- Cl. 1, 2
- Bsn. 1, 2
- Hn. 1, 2
- Hn. 3, 4
- Tpt. 1, 2
- Tbn. 1, 2
- Tbn. 3
- Tba.
- Timp.
- Perc. 1 (Drum Set)
- Perc. 2
- B.box
- Vln. I
- Vln. II
- Vla.
- Vc.
- Cb.

The score begins at measure 137. The key signature has one sharp (F#) and the time signature is 4/4. The music features a variety of dynamics, including *f* (forte) and *ff* (fortissimo). There are several triplet markings throughout the score. The percussion parts include a drum set and a second percussionist. The string parts include violins, viola, violin, and cello.

144

Fl. 1, 2

Ob. 1, 2

Cl. 1, 2

Bsn. 1, 2

Hn. 1, 2

Hn. 3, 4

Tpt. 1, 2

Tbn. 1, 2

Tbn. 3

Tba.

Timp.

Perc. 1

Perc. 2

B.box

Vln. I

Vln. II

Vla.

Vcl.

Cb.

Detailed description: This page of a musical score, numbered 144, features 23 staves for various instruments. The woodwind section includes Flute 1 & 2, Oboe 1 & 2, Clarinet 1 & 2, Bassoon 1 & 2, Horns 1 & 2, Horns 3 & 4, Trumpets 1 & 2, Trombones 1 & 2, Trombone 3, and Tuba. The percussion section includes Timpani, Percussion 1, and Percussion 2. The string section includes Bass Drum, Violin I, Violin II, Viola, Violoncello, and Contrabass. The score shows complex rhythmic patterns, including triplets and sixteenth-note runs, across five measures. The woodwinds and strings play active parts, while the brass and percussion are mostly in rests.

Musical score for measures 149-154. The score includes parts for Flute 1 & 2, Oboe 1 & 2, Clarinet 1 & 2, Bassoon 1 & 2, Horn 1 & 2, Horn 3 & 4, Trumpet 1 & 2, Trombone 1 & 2, Trombone 3, Tuba, Timpani, Percussion 1, Percussion 2, Bass Drum, Violin I, Violin II, Viola, Violoncello, and Contrabass. The woodwinds and strings play complex rhythmic patterns, while the brass instruments feature prominent triplets. The percussion parts include various rhythmic accents and patterns.

154

Fl. 1, 2

Ob. 1, 2

Cl. 1, 2

Bsn. 1, 2

Hn. 1, 2

Hn. 3, 4

Tpt. 1, 2

Tbn. 1, 2

Tbn. 3

Tba.

Timp.

Perc. *Vibraphone*

Perc. 2

B.box

Vln. I

Vln. II

Vla.

Vc.

Cb.

ff

mf

f

169

Fl. 1,2 *ff*

Ob. 1,2 *ff*

Cl. 1,2 *ff*

Bsn. 1,2 *ff*

Hn. 1,2

Hn. 3,4

Tpt. 1,2

Tbn. 1,2

Tbn. 3

Tba. *f*

Timpani

Drum set

Perc. 1 *f*

Perc. 2

Battle #6: Black Knight takes White Knight

B.box *f*

Vln. I *pizz.*

Vln. II

Vla. *f*

Vcl. *pizz.*

Cb.

The musical score is for a section titled "Battle #6: Black Knight takes White Knight". It features a variety of instruments including woodwinds (Flute, Oboe, Clarinet, Bassoon), brass (Trumpet, Trombone, Tuba), percussion (Timpani, Drum set, Percussion 1 and 2, Bass Drum), and strings (Violin I, Violin II, Viola, Violoncello, Contrabass). The score is written in 4/4 time and includes dynamic markings such as *ff* (fortissimo) and *f* (forte). The woodwinds and strings play melodic lines, while the brass and percussion provide a rhythmic and harmonic foundation. The section begins at measure 169 and continues through measure 200.

187

Fl. 1,2

Ob. 1,2

Cl. 1,2

Bsn. 1,2

Hn. 1,2

Hn. 3,4

Tpt. 1,2

Tbn. 1,2

Tbn. 3

Tba.

Timp.

Perc. 1

Perc. 2

B.box

Vln. I

Vln. II

Vla.

Vc.

Cb.

Cadenza record static sound

mf

f

200

Fl. 1,2

Ob. 1,2

Cl. 1,2

Bsn. 1,2

Hn. 1,2

Hn. 3,4

Tpt. 1,2

Tbn. 1,2

Tbn. 3

Tba.

Timp.

Perc. 1

Perc. 2

B.box

Vln. I

Vln. II

Vla.

Vc.

Cb.

Drum set

Battle #7: White Pawn takes Black Knight

205

Fl. 1,2

Ob. 1,2 *f* *a2*

Cl. 1,2

Bsn. 1,2 *f*

Hn. 1,2

Hn. 3,4

Tpt. 1,2 *f*

Tbn. 1,2 *f*

Tbn. 3 *f*

Tba. *f*

Timp.

Perc. 1 *f*

Perc. 2

B.box *ff*

Vln. I *ff*

Vln. II *f* *ff*

Vla. *f* *ff*

Vc. *f* *ff*

Cb. *f* *ff*

Battle #8: Black Bishop takes White Pawn

Beatbox soloist improvises on "Queen beat" until the end

The musical score is arranged in a standard orchestral format with multiple staves. The woodwind section (Flute, Oboe, Clarinet, Bassoon, Horns, Trumpets, Trombones, Tuba) and percussion (Percussion 1 and 2) are active throughout. The strings (Violins I and II, Viola, Violoncello, Contrabass) provide a harmonic and rhythmic foundation. The beatbox soloist has a prominent role, playing a complex, syncopated rhythm. The score includes various musical notations such as dynamics (f, ff), articulation (accents), and performance instructions. The piece is in 4/4 time and features a key signature of one flat.

211

Fl. 1,2
Ob. 1,2
Cl. 1,2
Bsn. 1,2
Hn. 1,2
Hn. 3,4
Tpt. 1,2
Tbn. 1,2
Tbn. 3
Tba.
Timp.
Perc. 1
Perc. 2
B.box
Vln. I
Vln. II
Vla.
Vc.
Cb.

223

Fl. 1, 2 *ff* *fp* *ff* *fp*

Ob. 1, 2 *ff* *fp* *ff* *fp*

Cl. 1, 2 *ff* *fp* *ff* *fp*

Bsn. 1, 2 *ff* *fp* *ff* *fp*

Hn. 1, 2 *ff* *fp* *ff* *fp*

Hn. 3, 4 *ff* *fp* *ff* *fp*

Tpt. 1, 2

Tbn. 1, 2

Tbn. 3

Tba.

Timp.

Perc. 1

Perc. 2

B.box

Vln. I *ff* *fp* *ff* *fp*

Vln. II *ff* *fp* *ff* *fp*

Vla. *ff* *fp* *ff* *fp*

Vc. *ff* *fp* *ff* *fp*

Cb. *ff* *fp* *ff* *fp*

