

**Portfolio of Compositions and Exegesis:**

**Conflict and Resolution -**

**modelling emergent ensemble dynamics**

by

**Luke Adrian Harrald**

Submitted in fulfilment of the requirements for the degree of

**Doctor of Philosophy**

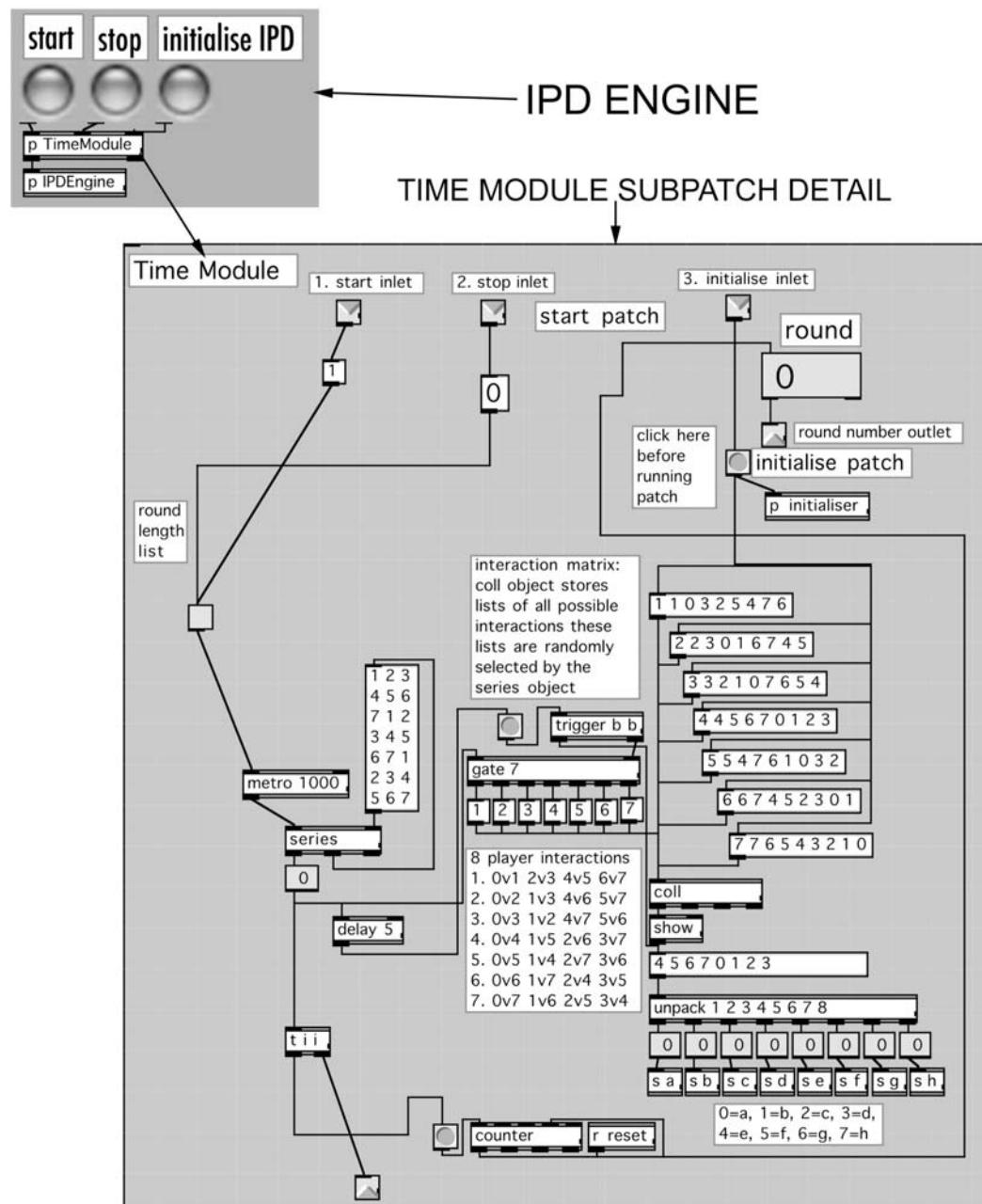
Elder Conservatorium of Music  
Faculty of Humanities and Social Sciences  
The University of Adelaide

February 2008

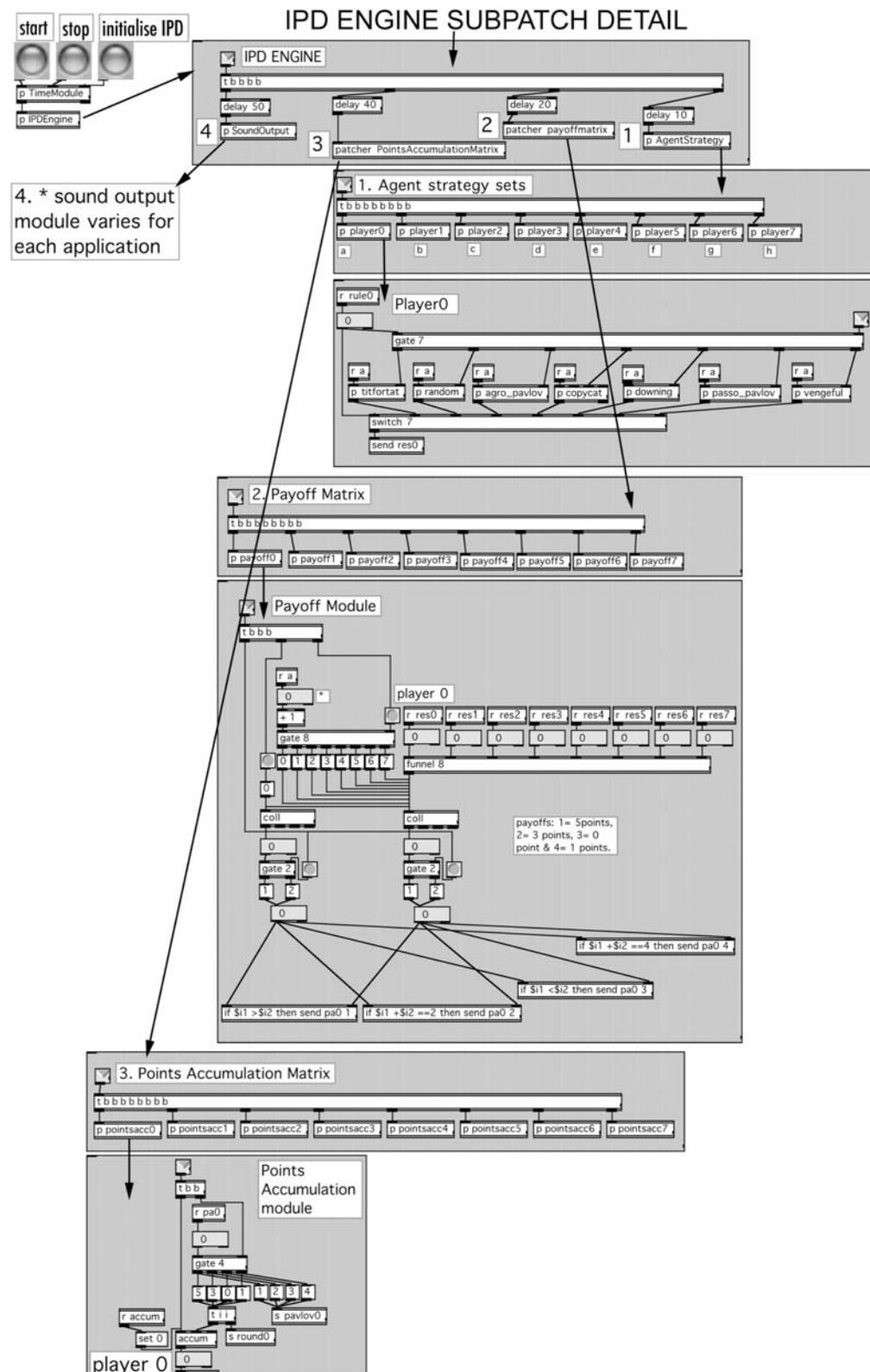
## Appendix A

**MaxMSP Patches.**

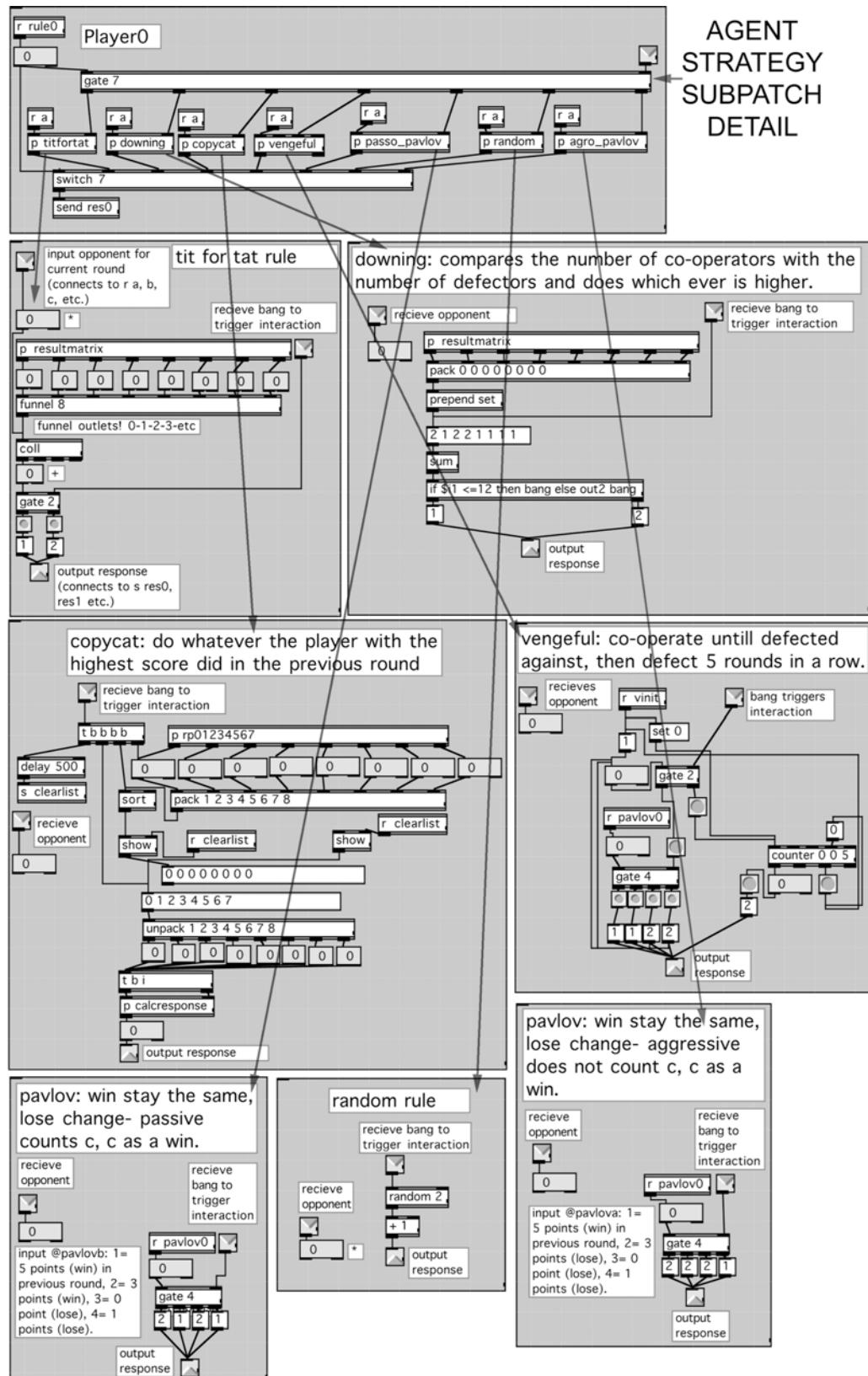
## IPD Engine: Time Module



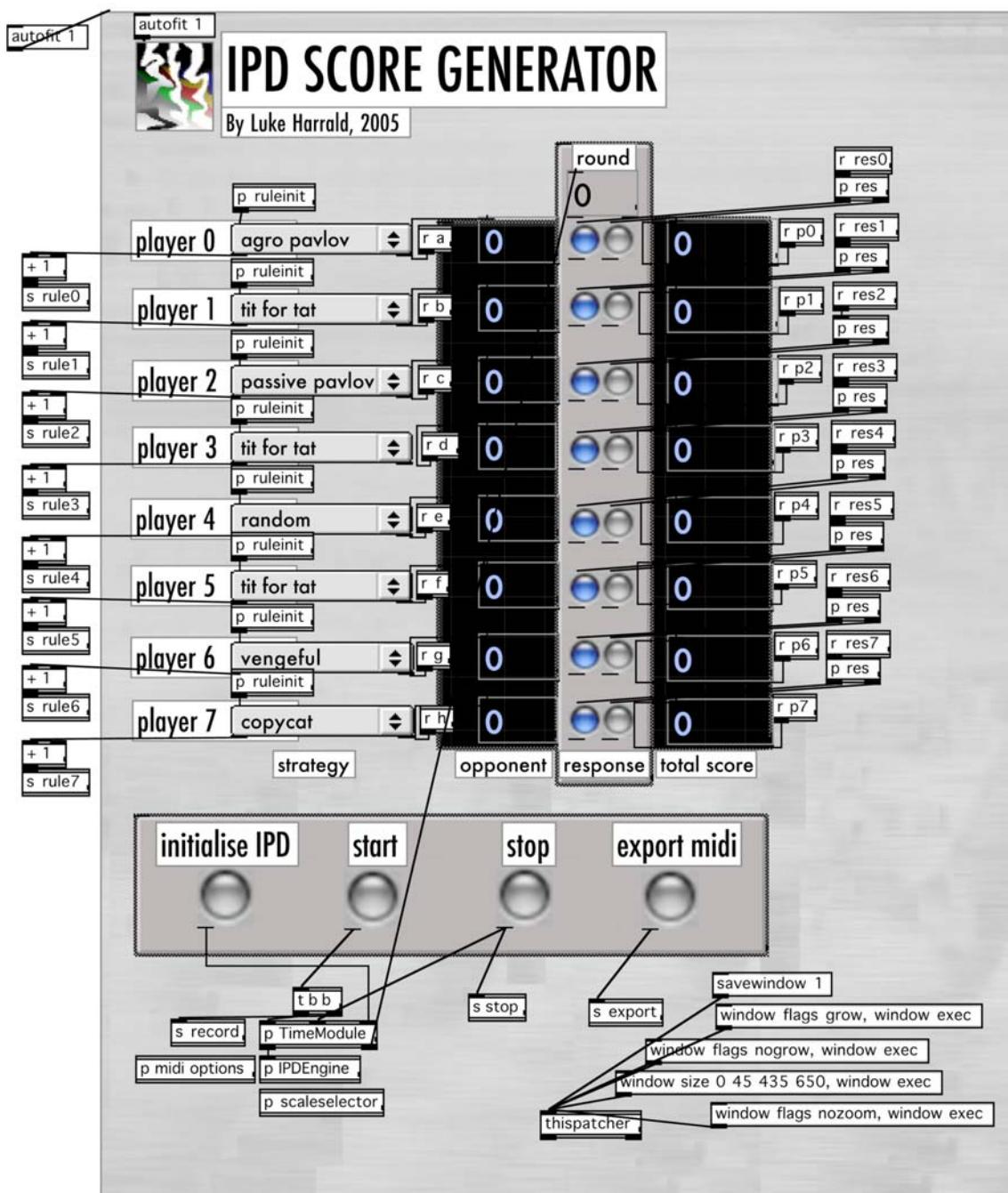
## IPD Engine: Layer 1. Patch Sequencer



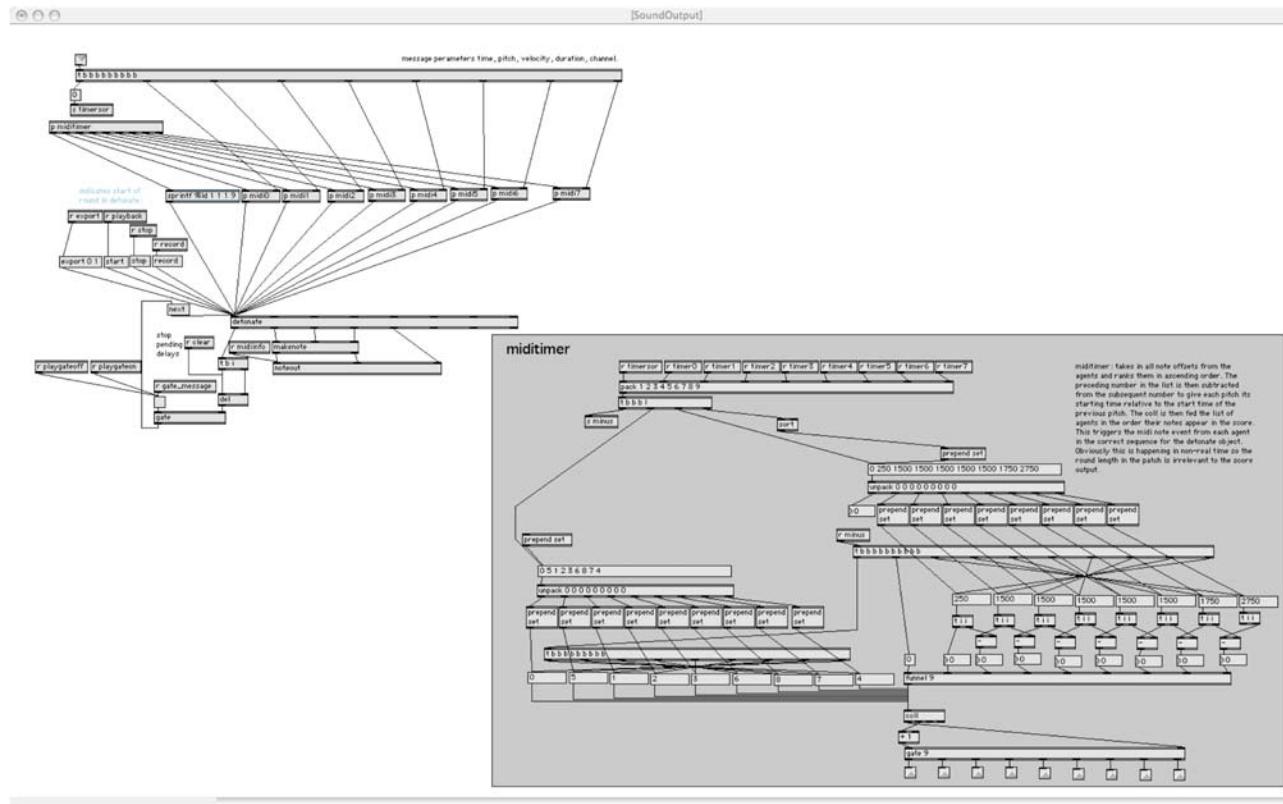
## IPD Engine: Layer 2. Behavioural Engine (Strategy Set)



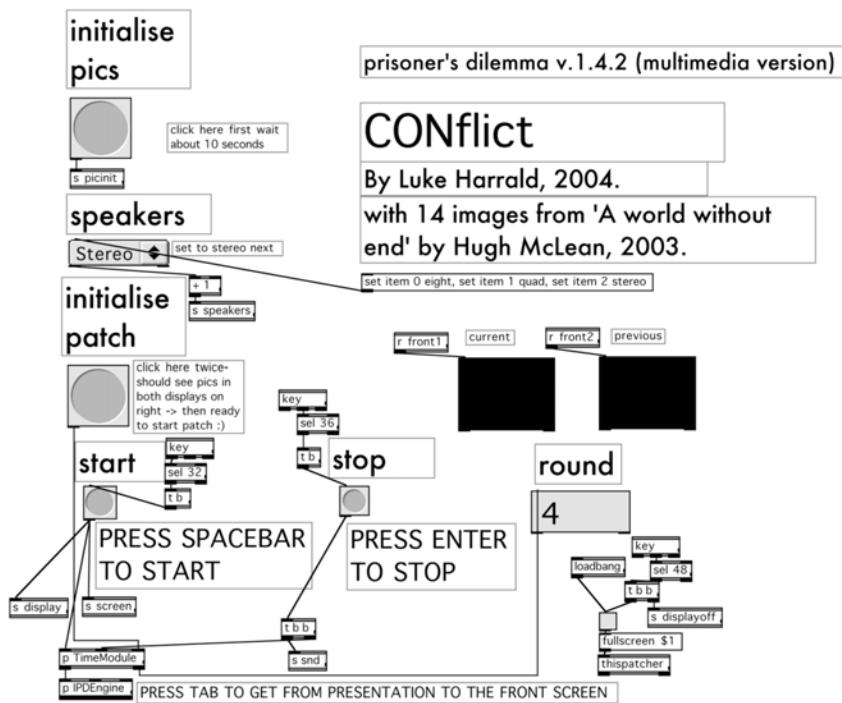
## IPD Score Generator: GUI and Main Patch



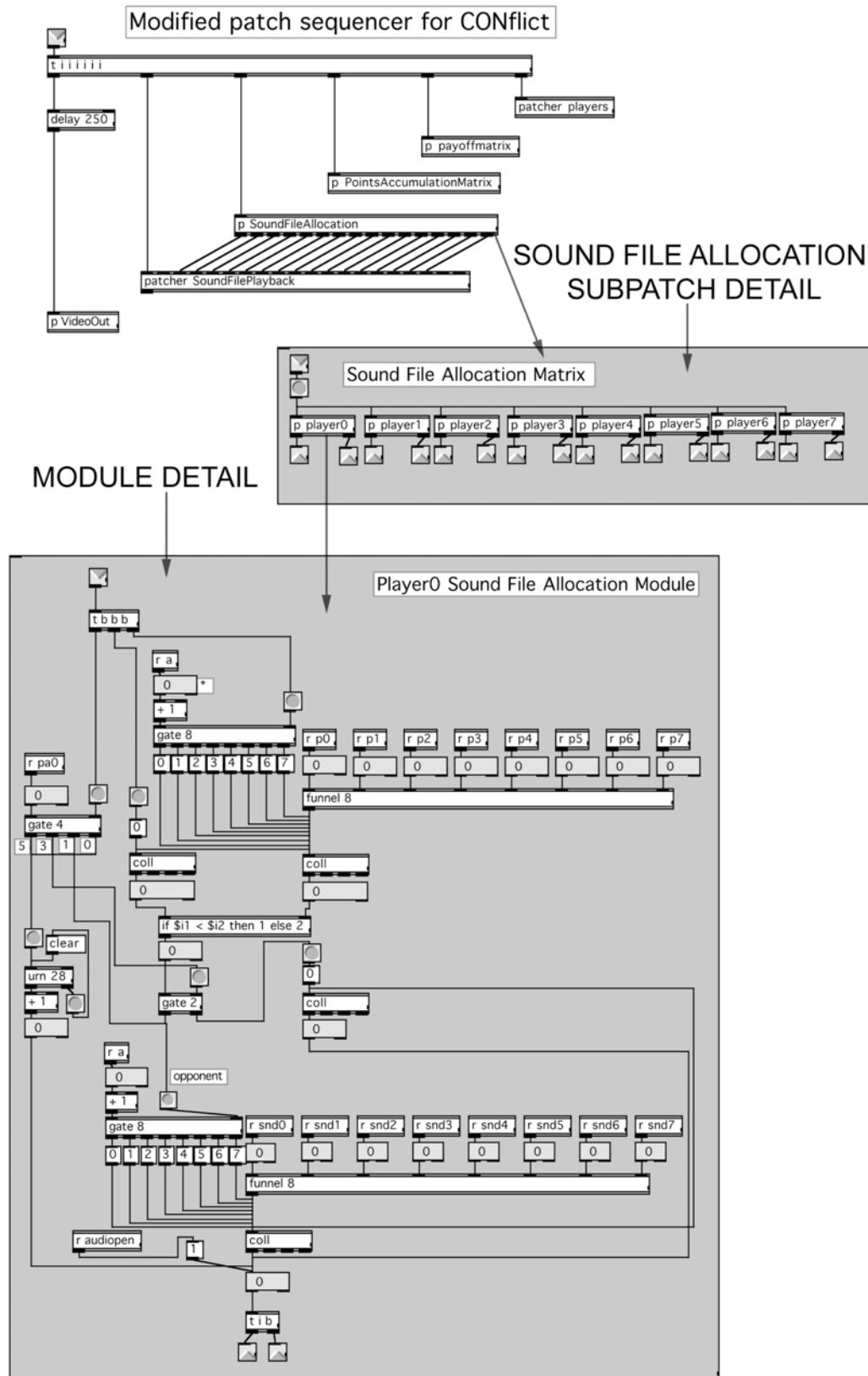
## IPD Score Generator: MIDI Output Module



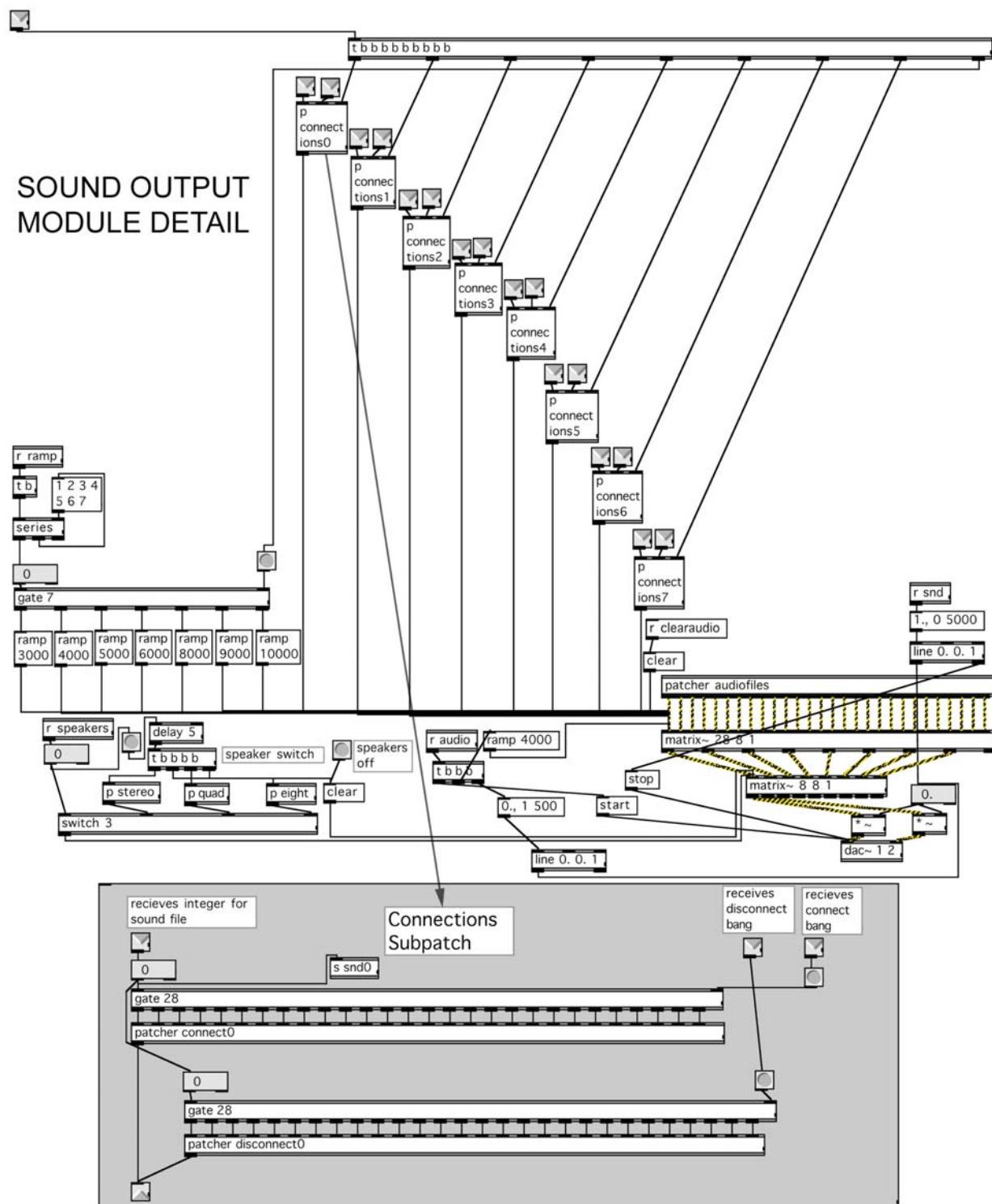
## **CONflict: Main Patch**



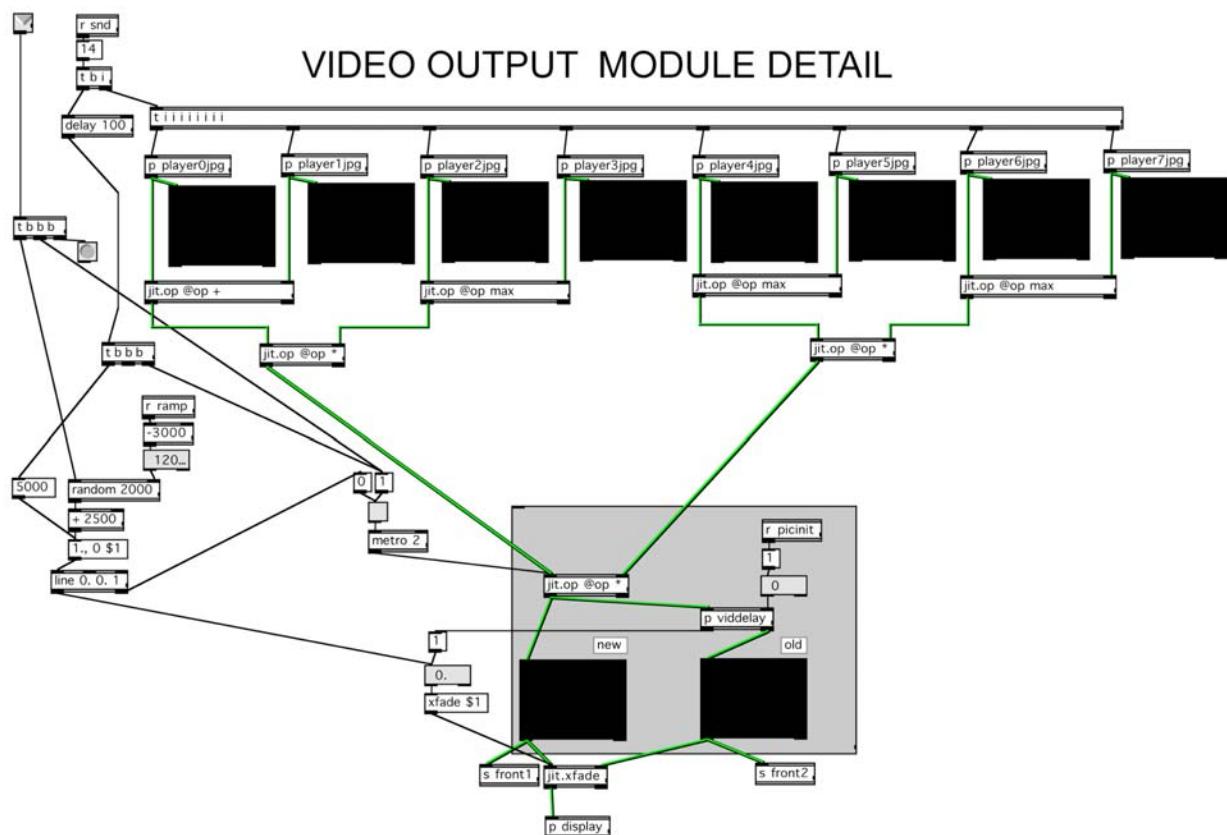
## CONflict: IPD Engine Patch Sequencer and Sound File Allocation



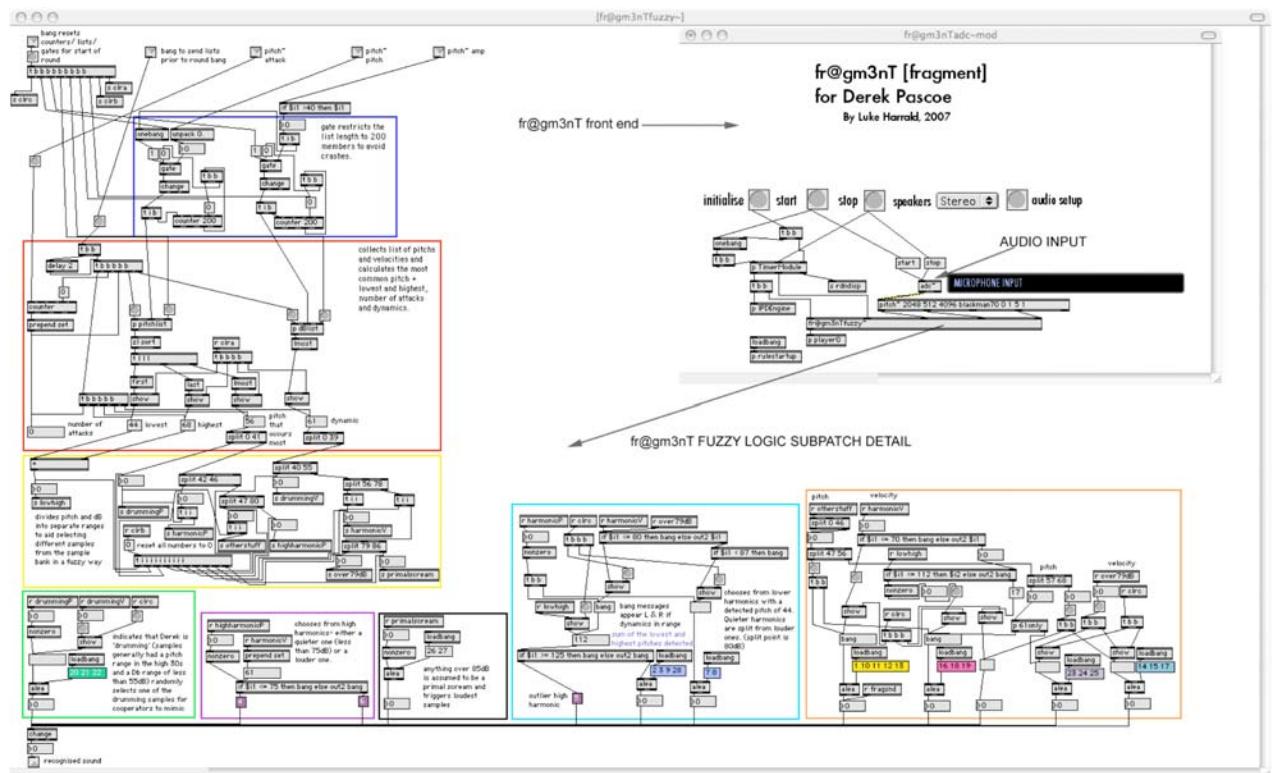
## CONflict: Sound Output Module (SoundFilePlayback Subpatch)



## CONflict: Video Output (VideoOut Subpatch)



## Fr@gm3nT: Fuzzy Logic Module and Main Patch



## Appendix B

**Compositions conceptually unrelated to the main portfolio.**

# ***The Pacific Solution***

**(*Ocean Floor 2*)**

**for orchestra**

**by**

**Luke Harrald**

*The Pacific Solution* draws inspiration from topographical maps of the floor of the Pacific Ocean. Ocean currents are used to determine the density of musical materials and instrumental groupings, while the features encountered between lines of latitude and longitude determine the actual sonic events within each time bracket. Much like the ocean itself, the work aims to maintain a constant state of flux, punctuated by landmarks that are more or less constant.

**2003**

# The Pacific Solution

## Performance Notes

### Orchestral Set Up

Two monitors or screens displaying the time should be placed to either side of the conductor in full view of the members of the orchestra. Alternatively, a large screen could be suspended from the ceiling of the auditorium to serve the same purpose, thus not obscuring the orchestra from the audience.

### The Role of the Conductor

Through the use of time brackets, the conductor is liberated from the role of metronome, and can concentrate more whole heartedly on shaping the sound of the piece. All Dynamics within the score are spatially related to time, and as such the conductor can use gestures to guide the dynamics and effects within the piece. The conductor still also performs their traditional role of music interpreter and achieving a balance within the overall colours of the orchestra.

### Time Brackets

The left time indicates the start of the bracket, the right time indicates the end, all material within the bracket must be played between the times indicated. Where there are pairs of starting and ending times, the performers must begin and end the material between the pairs of times. Alternatively, where there are single starting and ending times, the performer can play the notes as they choose, and do not have to fill the entire bracket. The exceptions to this rule are at 7'35" where all the brass must stop playing as close to 7'35" as possible, and at the end of the piece. In both these situations the conductor can cut off the sound in the traditional manner.

Where there are a number of pitches within a bracket, the performer is under no obligation to spread the pitches evenly across the bracket as notated in the score. The pitches can be performed any way the performer chooses within the times specified, and are evenly spread in the score so as to not suggest any particular rhythm.

The small notes which almost look like crotchets marked sfz in the score represent an articulated attack within a long note that is quite a lot louder than the preceding dynamic marking. Following the attack the performer quickly dies away to the original dynamic. Immediately before the attack is a good opportunity for the wind players to breathe (although they can breathe anytime they require within a long note provided they stagger their breathing). These attacks must be played within the times indicated on the stave. This type of material is handled specially in the vibraphone part, where the long note is bowed, and the attack is struck using a hard mallet. Following the attack, the performer continues to bow the note at the previously specified dynamic.

# The Pacific Solution

## (Ocean Floor 2)

Score

Luke Harrald

**0'00"**

Flute 1: *p*, *sffz p*, *sffz f*, *f*

Flute 2: *p*, *sffz p*, *sffz f*, *f*

Oboe 1: *p*, *sffz p*, *sffz f*, *f*

Oboe 2: *p*, *sffz p*, *sffz f*, *f*

Clarinet in B♭ 1: *p*, *sffz p*, *sffz f*, *f*

Clarinet in B♭ 2: *p*, *sffz p*, *sffz f*, *f*

Bassoon 1: *p*, *sffz p*, *sffz f*, *f*

Bassoon 2: *p*, *sffz p*, *sffz f*, *f*

Horn in F 1: *p*, *sffz p*, *sffz f*, *f*

Horn in F 2: *p*, *sffz p*, *sffz f*, *f*

Horn in F 3: *p*, *sffz p*, *sffz f*, *f*

Horn in F 4: *p*, *sffz p*, *sffz f*, *f*

Trumpet in B♭ 1: *p*, *sffz p*, *sffz f*, *f*

Trumpet in B♭ 2: *p*, *sffz p*, *sffz f*, *f*

Trombone: *p*, *sffz p*, *sffz f*, *f*

Bass Trombone: *p*, *sffz p*, *sffz f*, *f*

Vibraphone: *p*, *sffz p*, *sffz f*, *f*

Violin I: *f*, *pizz.*, *p*, *arco*, *mp*, *p*, *ff*, *f*

Violin II: *f*, *pizz.*, *p*, *arco*, *mp*, *p*, *ff*, *f*

Viola: *f*, *pizz.*, *p*, *mp*, *p*, *ff*, *f*

Cello: *f*, *p*, *mp*, *p*, *ff*, *f*

**1'11"**

2'29"

**1'11"** □ = from previous page  
1'18" - 1'22"

Fl. 1  
Fl. 2  
Ob. 1  
Ob. 2  
B♭ Cl. 1  
B♭ Cl. 2  
Bsn. 1  
Bsn. 2  
Hn. 1  
Hn. 2  
Hn. 3  
Hn. 4  
B♭ Tpt. 1  
B♭ Tpt. 2  
Tbn.  
B. Tbn.  
Vib.  
Vln. I  
Vln. II  
Vla.  
Vc.

1'18" - 1'20" *sfp* 1'24"  
1'21" - 1'23" *p* 1'28" - 1'32" 1'36" - 1'42"  
1'16" - 1'18" 1'17" - 1'22" 1'26" - 1'28" *sfp* *p* 1'36" - 1'42"  
1'18" - 1'23" *f* 1'37" - 1'41"  
1'17" - 1'19" *f* 1'37" - 1'41" 1'38" - 1'40"  
1'12" - 1'14" *p* *sfp* 1'25" - 1'29" 1'37" - 1'41"  
1'22" - 1'24" *p* 1'22" - 1'27" 1'37" - 1'41"  
1'20" - 1'22" *f* *sfp* *p* 1'38" - 1'40"  
1'17" - 1'21" 1'18" - 1'20" *p* *sfp* *p* 1'37" - 1'41"  
1'14" - 1'18" 1'18" - 1'20" *p* 1'37" - 1'41"  
1'22" 1'36" - 1'42"  
1'17" - 1'19" 1'22" - 1'24" 1'37" - 1'41"  
1'20" - 1'25" *p* *sfp* 1'38" - 1'40"  
1'16" - 1'18" 1'19" - 1'22" 1'37" - 1'41"  
1'16" - 1'19" 1'37" - 1'41"  
1'12" - 1'14" *p* *sfp* 1'38" - 1'40"  
1'12" - 1'18" 1'38" - 1'40"  
1'13" - 1'15" *p* *sfp* 1'30" - 1'36" 1'38" - 1'40"  
*p* 1'25" - 1'30" 1'43" - 1'46" 2'03" - 2'05" 2'16" - 2'18" with hard mallets  
1'13" - 1'16" <*f*> *p* 1'41" 2'02" - 2'05" 2'16" - 2'21" smooth - non vib  
1'29" - 1'31" 1'40" - 1'42" >*p* >*f* >*p* >*f* 2'12" - 2'16"  
1'35" - 1'39" <*p*> <*f*> >*p* >*f* 1'54" - 1'56" >*p* >*f* >*p* >*f* 2'03" - 2'05" arco 2'28" - 2'30" smooth - non vib  
1'43" - 1'46" >*p* >*f* >*p* >*f* 2'03" - 2'05" arco 2'23" smooth - non vib  
1'52" - 1'58" >*p* >*f* >*p* >*f* 2'03" - 2'05" arco 2'23" smooth - non vib

**2'29"**

Fl. 1                          *ppp* — *p*                          3'19" - 3'21"                          3'41 - 3'43                          *sfp*  
 Fl. 2                          *ppp* — *mp*                          3'23" - 3'29"                          3'41 - 3'43                          *sfp*  
 Ob. 1                          *ppp* — *p*                          3'30"                          3'41 - 3'43                          *sfp*  
 Ob. 2                          *ppp* — *mf*                          3'29" - 3'31"                          3'41 - 3'43                          *sfp*  
 B♭ Cl. 1                          *ppp* — *mf*                          3'12" - 3'25"                          3'41 - 3'43                          *sfp*  
 B♭ Cl. 2                          *ppp* — *mf*                          3'37" - 3'39"                          3'41 - 3'43                          *sfp*  
 Bsn. 1                          *ppp* — *mp*                          3'23" - 3'28"                          3'41 - 3'43                          *sfp*  
 Bsn. 2                          *ppp* — *mp*                          3'31" - 3'33"                          3'41 - 3'43                          *sfp*  
 Hn. 1  
 Hn. 2  
 Hn. 3  
 Hn. 4  
 B♭ Tpt. 1  
 B♭ Tpt. 2  
 Tbn.  
 B. Tbn.  
 Vib.                          *ff*                          2'34" - 2'38"                          *ff*                          2'52" - 2'54"                          *p* — *mp*                          3'08" - 3'11"                          *p* — *mp*                          3'23" - 3'28"                          soft mallets  
 Vln. I                          *p*                          2'34" - 2'38"                          *ff*                          2'52" - 2'54"                          *p* — *mp*                          3'07" - 3'09"                          *p* — *mp*                          3'19" - 3'22"                          *p*                          3'34" - 3'40"                          *ff*  
 Vln. II                          *p* — *ff*                          2'36" - 2'43"                          *p* — *mp*                          2'53" - 2'56"                          *p* — *mp*                          3'11"                          *p* — *mp*                          3'23" - 3'29"                          *p* — *mp*                          3'42" - 3'44"                          non vib  
 Vla.                          *f* — *p*                          2'33" - 2'35"                          *p* — *ff*                          2'48" - 2'53"                          *p* — *sfz*                          2'55" - 2'57"                          *p* — *sfz*                          3'09" - 3'12"                          *p* — *sfz*                          3'14" - 3'16"                          *p* — *sfz*                          3'29"                          *p* — *sfz*                          3'32" - 3'34"                          *p* — *sfz*                          3'45"                          *p* — *sfz*  
 Vc.                          *f* — *non vib*                          2'41" - 2'45"                          *p* — *ff*                          3'02"                          *p* — *sfz*                          3'11" - 3'13"                          *p* — *sfz*                          3'14" - 3'16"                          *p* — *sfz*                          3'27" - 3'29"                          *p* — *sfz*                          3'30" - 3'33"                          *p* — *sfz*                          3'44" - 3'50"                          *p* — *sfz*  
**3'47"**

**3'47"**

Fl. 1  
Fl. 2  
Ob. 1  
Ob. 2  
B♭ Cl. 1  
B♭ Cl. 2  
Bsn. 1  
Bsn. 2  
Hn. 1  
Hn. 2  
Hn. 3  
Hn. 4  
B♭ Tpt. 1  
B♭ Tpt. 2  
Tbn.  
B. Tbn.  
Vib.  
Vln. I  
Vln. II  
Vla.  
Vc.

**5'05"**

Detailed description: This is a page from a complex musical score. It contains 18 staves, each representing a different instrument or voice. The instruments listed on the left are Flute 1, Flute 2, Oboe 1, Oboe 2, Bassoon Clarinet 1, Bassoon Clarinet 2, Bassoon 1, Bassoon 2, Horn 1, Horn 2, Horn 3, Horn 4, Bass Trombone 1, Bass Trombone 2, Trombone, Bass Trombone 2, Vibraphone, Violin 1, Violin 2, Cello, and Double Bass. The music is divided into two measures by a vertical dashed line. Measure 1 (3'47") starts with Flute 1 and Flute 2 playing eighth-note patterns. Oboe 1 and Oboe 2 enter with sustained notes. Bassoon Clarinet 1 and Bassoon Clarinet 2 play eighth-note patterns. Bassoon 1 and Bassoon 2 play sustained notes. Horn 1, Horn 2, Horn 3, and Horn 4 play eighth-note patterns. Bass Trombone 1 and Bass Trombone 2 play sustained notes. Trombone plays eighth-note patterns. Bass Trombone 2 and Vibraphone play eighth-note patterns. Violin 1 and Violin 2 play eighth-note patterns. Double Bass and Cello play sustained notes. Measure 2 (5'05") continues with similar patterns, with some instruments like Flute 1 and Flute 2 having longer sustained notes. Various dynamics like 'mp', 'f', 'sfz', and 'p' are used throughout, along with performance instructions like 'sfz' and 'p' placed on specific notes. Measure times are written above the staves, such as '3'53" - 3'55" for Bassoon 1 and '4'08" - 4'12" for Bassoon 2. Measure times for the next measure range from '4'26" to '5'05".

5'05" 6'23"

Fl. 1

Fl. 2

Ob. 1

Ob. 2

B♭ Cl. 1

B♭ Cl. 2

Bsn. 1

Bsn. 2

Hn. 1

Hn. 2

Hn. 3

Hn. 4

B♭ Tpt. 1

B♭ Tpt. 2

Tbn.

B. Tbn.

Vib.

Vln. I

Vln. II

Vla.

Vc.

**6'23"**

Fl. 1  
Fl. 2  
Ob. 1  
Ob. 2  
B♭ Cl. 1  
B♭ Cl. 2  
Bsn. 1  
Bsn. 2  
Hn. 1  
Hn. 2  
Hn. 3  
Hn. 4  
B♭ Tpt. 1  
B♭ Tpt. 2  
Tbn.  
B. Tbn.  
Vib.  
Vln. I  
Vln. II  
Vla.  
Vc.

**7'41"**

6'37" - 6'42" **#**  
6'58" - 7'04"  
6'31" - 6'33" **f** **ff**  
6'52" - 6'56"  
6'47" - 6'53"  
6'30" **6'47"**  
6'29" - 6'32" **f** **ff**  
6'52" - 6'55"  
6'31" - 6'35" **6'50"**  
6'32" - 6'34" **ff** **6'54" - 6'56"**  
6'35" - 6'41" **f** **ff** **sfz** **6'48** **6'46** **6'48** **ff** **ff** **ff** **utter tongue** **7'12" - 7'14"** **7'27"** **7'35" 7'37" - 7'39"**  
6'29" - 6'33" **f** **ff** **sfz** **< ff** **6'46" legato** **6'55" - 7'00" legato** **7'03"** **7'15" - 7'17"** **7'35" 7'37" - 7'39"**  
**f** **ff** **sfz** **< ff** **6'46" legato** **7'00" - 7'02"** **7'15" - 7'17"** **7'25" - 7'27"** **7'35" 7'37" - 7'39"**  
**f** **ff** **sfz** **< ff** **6'41"** **6'50" legato** **7'07" - 7'09"** **7'19" - 7'22"** **7'35" 7'37" - 7'39"**  
**f** **ff** **6'49" - 6'52"** **7'07" - 7'11"** **7'19" - 7'25"** **7'35" 7'37" - 7'39"**  
**f** **ff** **sfz** **6'52" - 6'54** **7'00** **7'11 - 7'13** **7'19" - 7'25"** **7'35" 7'37" - 7'39"**  
**f** **p** **f** **ff** **sfz** **6'42" - 6'46"** **6'51" - 6'53** **6'57" - 6'59"** **utter tongue** **7'25" - 7'27"** **7'35" 7'37" - 7'39"**  
**f** **6'28" (bowed)** **6'43" - 6'49"** **sfz** **struck** **sim.** **7'01" - 7'07"** **7'37" - 7'39"**  
**p** **sfz** **p** **6'39" - 6'43"** **6'51" - 6'53** **6'57" - 6'59** **sfz** **< f** **7'02" - 7'06"** **7'37" - 7'39"**  
**f** **6'37" - 6'42"** **6'53" - 6'56"** **7'03" - 7'05** **7'37" - 7'39"**  
**p** **6'32" - 6'37"** **6'50" - 6'52"** **7'03" - 7'05** **7'37" - 7'39"**  
**p** **6'32" - 6'37" \* 8va for bass** **6'49" - 6'53"** **7'01" - 7'07"** **7'37" - 7'39"**  
**p** **8va** **8va** **8va** **8va** **ppp** **< p**

**7'41"** **8'59"**

Fl. 1      7'53" - 7'56"      8'10" - 8'14"      8'32" - 8'34"

Fl. 2      *mp* *sfz* < *mf*      *p*      *sfz* *p*

Ob. 1      7'56" - 7'59"      8'14" - 8'18"      8'33" - 8'35"

Ob. 2      *mp* *sfz* < *mf*      *p*      *sfz*

B♭ Cl. 1      8'02"      8'13"      8'31"

B♭ Cl. 2      8'04" - 8'07"      8'17" - 8'20"      8'34" - 8'37"

Bsn. 1      7'44 - 7'46      7'53 - 7'55      8'00" - 8'02"      8'26"      8'50" - 8'52"

Bsn. 2      *mf* *sfz* > *p*      *sfz* *p*      *mf*      *p* > *f*

Hn. 1      *mf* *sfz* > *p*      *sfz* *p*      *mf*      *p*      *sfz* *f* *sfz*

Hn. 2      *utter tongue*      7'59" - 8'04"      8'21" - 8'27"      8'28" - 8'30"      8'43" - 8'45"

Hn. 3      *utter tongue*      7'55"      8'10"      8'29" - 8'31"      8'36" - 8'38"

Hn. 4      *utter tongue*      7'49"      8'07"      8'25"      8'41" - 8'43"

B♭ Tpt. 1      *utter tongue*      *p* > < *p*      7'45" - 7'56"      8'17" - 8'21" *b*      *utter tongue*      *utter tongue*

B♭ Tpt. 2      *p* > < *p*      7'43 - 7'45      7'53 - 7'55      8'19" - 8'23"      8'47" - 8'49"

Tbn.      *p* *sfz* *sfz* > *p*      7'43 - 7'45 7'47 - 7'49      7'53 - 7'55      8'19" - 8'21"      8'39" - 8'43"

B. Tbn.      *p* *sfz* *sfz* > *p*      7'44 - 7'46 7'49 - 7'51      7'52 - 7'54      8'16" - 8'20"      8'22 - 8'24      8'36 - 8'38      8'43"      8'57 - 8'59"

Vib.      *bowed*      8'06" - 8'11"      8'22" - 8'24"      *with hard mallets* 8'37" - 8'42"

Vln. I      *p* *sfz* *sfz* > *p*      7'57" - 8'02"      8'17" - 8'20"      8'32" - 8'35"

Vln. II      *p* *sfz* > *p*      7'57" - 8'00"      8'08" - 8'14" *pizz.*      *arcò*      *pizz.* 8'38" - 8'40"

Vla.      7'44 - 7'46      7'59"      8'01" - 8'03      8'10" - 8'12      8'17" - 8'19      8'23" - 8'25      8'29" - 8'31      8'39 - 8'41

Vc.      *p* *sfz* > *p*      7'58" - 8'00"      8'01" - 8'03      8'10" - 8'12      8'15" - 8'17      8'20" - 8'22      8'27" - 8'29      8'39" - 8'41

**8'59"**

**10'17"**

Fl. 1

Fl. 2

Ob. 1

Ob. 2

B♭ Cl. 1

B♭ Cl. 2

Bsn. 1

Bsn. 2

Hn. 1

Hn. 2

Hn. 3

Hn. 4

B♭ Tpt. 1

B♭ Tpt. 2

Tbn.

B. Tbn.

Vib.

Vln. I

Vln. II

Vla.

Vc.

## ***Last Exit***

**for flute, clarinet in B flat, tenor saxophone in B flat, drums,  
electric guitar, piano, violin, cello, double bass.**

**by**

**Luke Harrald**

*Last Exit* was written specifically for a master class conducted by Kristjan Järvi and the Absolute Ensemble in the 2004 Adelaide Festival of Arts. Dealing with themes of being on the edge of oblivion (with the hope of new life), the work was inspired by the sight of two burned out busses sitting on top of a giant pile of scrap metal at sunset on the docks of Port Adelaide. Very much a crossover work, rhythms influenced by 'Rage Against the Machine' are combined with guitar riffs inspired by the virtuosity of Neil Young's playing on the soundtrack of Jim Jarmusch's 'Dead Man'.

**2004**

# Last Exit

Luke Harald

**Flute** *f*

**Clarinet in Bb**

**Tenor Saxophone**

**Drum Set** *f*

**Electric Guitar**

**Piano**

**Violin** *f*

**Cello**

**Double Bass** *f*

**Fl.**

**Bb Cl.**

**T. Sx.**

**D. S.**

**E.Gtr.**

**Pno.**

**Vln.**

**Vc.**

**D. B.**

6

6

*mp*

*mp*

Fl.

Bb Cl.

T. Sx.

11

D. S.

E. Gtr.

11

Pno.

Vln.

Vc.

mp

D. B.

mp

15

Fl.

Bb Cl.

T. Sx.

15

D. S.

E. Gtr.

15

Pno.

Vln.

Vc.

mf

D. B.

mf

Fl. 20

Bb Cl.

T. Sx.

D. S. 20

E. Gtr.

Pno. 20

Vln.

Vc.

D. B.

This section of the musical score covers measures 20 through 25. It includes parts for Flute, Bassoon, Tenor Saxophone, Double Bass, Electric Guitar, Piano, Violin, Cello, and Double Bass. The piano part is grouped together. The electric guitar and double bass provide harmonic support, while the woodwind and brass instruments play melodic lines.

Fl. 25

Bb Cl.

T. Sx. <f

D. S. 25 <f

E. Gtr. <f

Pno. <f

Vln. <f

Vc. <f

D. B. <f

This section of the musical score covers measures 25 through 30. The instrumentation remains the same, with the addition of a dynamic instruction <f (fortissimo) for the tenor saxophone, double bass, electric guitar, piano, violin, cello, and double bass. The flute and bassoon continue their melodic lines.

Fl. *mp* *mf*

Bb Cl. *mp* *mf*

T. Sx. *mp* *mf*

D. S. *mf*

E. Gtr. *mf*

Pno.

Vln. *f*

Vc. *mf*

D. B. *mf*

Fl. *f*

Bb Cl. *f*

T. Sx. *f*

D. S. *f*

E. Gtr. *f*

Pno. *mf* *f*

Vln. *f*

Vc. *f*

D. B. *f*

Fl.

Bb Cl.

T. Sx.

D. S.

E. Gtr.

Pno.

Vln.

Vc.

D. B.

This musical score page contains nine staves of music for various instruments. The instruments listed on the left are Flute (Fl.), Bassoon (Bb Cl.), Tenor Saxophone (T. Sx.), Double Bass (D. S.), Electric Guitar (E. Gtr.), Piano (Pno.), Violin (Vln.), Cello (Vc.), and Double Bass (D. B.). The music is divided into measures by vertical bar lines. Measure 39 starts with sixteenth-note patterns in the Flute, Bassoon, and Tenor Saxophone staves. The Double Bass and Electric Guitar provide harmonic support with sustained notes. Measures 40 and 41 continue with similar patterns, with dynamic markings 'f' for forte and 'mf' for mezzo-forte. Measure 42 begins with a sustained note from the Double Bass, followed by eighth-note patterns in the other staves. Measure 43 concludes with a final dynamic marking 'f'.

Fl.

Bb Cl.

T. Sx.

D. S.

E. Gtr.

Pno.

Vln.

Vc.

D. B.

This musical score page continues the sequence of measures. The instruments remain the same: Flute, Bassoon, Tenor Saxophone, Double Bass, Electric Guitar, Piano, Violin, Cello, and Double Bass. Measure 43 begins with a sustained note from the Double Bass, followed by eighth-note patterns in the other staves. Measure 44 continues with similar patterns. Measure 45 begins with a sustained note from the Double Bass, followed by eighth-note patterns in the other staves. Measure 46 concludes with a final dynamic marking 'f'.

48

48

48

48

48

48

48

48

48

55

55

55

55

55

55

55

55

55

Fl.

Bb Cl.

T. Sx.

D. S.

E.Gtr.

Pno.

Vln.

Vc.

D. B.

61

62

f

f

f

ff

ff

f

f

f

Fl.

Bb Cl.

T. Sx.

D. S.

E.Gtr.

Pno.

Vln.

Vc.

D. B.

67

68

ff

ff

ff

ff

ff

ff

ff

ff

Fl.

Bb Cl.

T. Sx.

D. S.

E. Gtr.

Pno.

Vln.

Vc.

D. B.

This musical score page shows two staves of music for a nine-piece ensemble. The top staff begins with the Flute (Fl.) playing eighth-note pairs. The Bassoon (Bb Cl.) and Tenor Saxophone (T. Sx.) provide harmonic support with sustained notes. The Double Bass (D. S.) and Electric Guitar (E. Gtr.) play rhythmic patterns. The Piano (Pno.) provides harmonic chords. The Violin (Vln.) and Cello (Vc.) play melodic lines with grace notes and slurs. The Double Bass (D. B.) plays a steady bass line. Measure 73 concludes with a dynamic marking of *mp*. Measure 74 begins with a dynamic marking of *mf*.

Fl.

Bb Cl.

T. Sx.

D. S.

E. Gtr.

Pno.

Vln.

Vc.

D. B.

This musical score page shows two staves of music for the same ensemble. The Flute (Fl.) and Bassoon (Bb Cl.) play sustained notes. The Tenor Saxophone (T. Sx.) and Double Bass (D. S.) provide harmonic support. The Electric Guitar (E. Gtr.) and Piano (Pno.) play rhythmic patterns. The Violin (Vln.) and Cello (Vc.) play melodic lines with grace notes and slurs. The Double Bass (D. B.) plays a steady bass line. Measure 80 concludes with a dynamic marking of *mf*. Measure 81 begins with a dynamic marking of *mf*.

84

Fl.

Bb Cl.

T. Sx.

D. S.

E.Gtr.

Pno.

Vln.

Vc.

D. B.

89

Fl.

Bb Cl.

T. Sx.

D. S.

E.Gtr.

Pno.

Vln.

Vc.

D. B.

94

Fl.

Bb Cl.

T. Sx.

D. S.

E.Gtr.

Pno.

Vln.

Vc.

D. B.

100

Fl.

Bb Cl.

T. Sx.

D. S.

E.Gtr.

Pno.

Vln.

Vc.

D. B.