

## Final Test Results

### exchangeBoundary() Test using SugarScapeMass

Computer: dslab@hercules  
Source Dir: ~/MASS/java/source.new3/MASS/

Test Dir: ~/MASS/java/source.new3/testrun/  
Test Files: SugarScapeMass.java, Land.java, Unit.java

Test Settings:

size	= 500	( 500 x 500 = 250,000 place(s) )
numAgents	= 5000	
maxTime	= 100	
collectInterval	= 10	
numProc	= 4	
numThrd	= 2	

### Using the Integrated Code (Original code + Bhargav + Sanjay + my Code):

vDist = 1 (Max visual distance / Shadow Boundary Size - Set in file: SugarScapeMass.java)

#### exchangeBoundary()

1) \*\*\* Total Time (ms) : 42569  
\*\*\* Execution Time (ms) : 42507

2) \*\*\* Total Time (ms) : 41988  
\*\*\* Execution Time (ms) : 41923

3) \*\*\* Total Time (ms) : 42591  
\*\*\* Execution Time (ms) : 42529

#### exchangeAll()

\*\*\* Starts to run, but then hangs \*\*\*

vDist = 4

#### exchangeBoundary()

1) \*\*\* Total Time (ms) : 162484  
\*\*\* Execution Time (ms) : 162413

2) \*\*\* Total Time (ms) : 161876  
\*\*\* Execution Time (ms) : 161807

3) \*\*\* Total Time (ms) : 171443  
\*\*\* Execution Time (ms) : 171379

#### exchangeAll()

\*\*\* Seems to hang connecting to other computers \*\*\*

## Using the Non-Integrated Code (Original source + my code):

vDist = 1 (Max visual distance / Shadow Boundary Size - Set in file: SugarScapeMass.java)

### exchangeBoundary()

1) \*\*\* Total Time (ms) : 46665  
\*\*\* Execution Time (ms) : 43213

2) \*\*\* Total Time (ms) : 47021  
\*\*\* Execution Time (ms) : 43674

3) \*\*\* Total Time (ms) : 48139  
\*\*\* Execution Time (ms) : 44630

### exchangeAll()

1) \*\*\* Total Time (ms) : 63647  
\*\*\* Execution Time (ms) : 60288

2) \*\*\* Total Time (ms) : 64867  
\*\*\* Execution Time (ms) : 61520

3) \*\*\* Total Time (ms) : 57770  
\*\*\* Execution Time (ms) : 54316

vDist = 4

### exchangeBoundary()

1) \*\*\* Total Time (ms) : 281826  
\*\*\* Execution Time (ms) : 278522

2) \*\*\* Total Time (ms) : 295025  
\*\*\* Execution Time (ms) : 287913

3) \*\*\* Total Time (ms) : 294728  
\*\*\* Execution Time (ms) : 290784

### exchangeAll()

\*\*\* Seems to hang connecting to other computers \*\*\*

## Using ORIGINAL source code:

vDist = 1

### exchangeAll()

\*\*\* Starts to run, but then hangs \*\*\*

vDist = 4

### exchangeAll()

\*\*\* Still hangs connecting to other computers \*\*\*

```
----- STARTING EXCHANGE HELPER SERVER -----  
TCP connection established...  
Got output stream  
Got input stream  
Received hostname from uw1-320-17.uwb.edu  
Saving connection object for uw1-320-17.uwb.edu  
----- ESTABLISHED EXCHANGE HELPER SERVER FOR CLIENT uw1-320-17.uwb.edu-----
```