

# Appendix B

## Usage Examples

Listing 28: Configuration (tests.cfg)

```
1 HashInsertTest 4 100000 5
2 TreeInsertTest 4 200000 5
3 TreeRemoveTest 4 200000 5
4 ArraySumTest 4 1000000 5
5 ArrayInsertTest 4 1000000 5
6 ListInsertTest 4 100000 5
```

Listing 29: Output

```
1 roman@home:~/GCC-TM-Test$ make run
2 TinySTM-ABI v1.0.3 using TinySTM 1.0.3.
3 Tester compiled with LOCKTYPE_TM
4 Waiting for configuration data from stdin...
5 Test: HashInsertTest
6 Threads count: 4
7 Input size: 100000
8 Repeat count: 5
9     Run... OK 46.611 ms, 2146 ops/s
10    Run... OK 32.221 ms, 3104 ops/s
11    Run... OK 30.314 ms, 3299 ops/s
12    Run... OK 30.856 ms, 3241 ops/s
13    Run... OK 29.010 ms, 3448 ops/s
14
15 > HashInsertTest TM OK 100000 4 5 33.802 2959
16
17
18 Test: TreeInsertTest
19 Threads count: 4
20 Input size: 200000
21 Repeat count: 5
22    Run... OK 146.428 ms, 1366 ops/s
23    Run... OK 144.713 ms, 1383 ops/s
24    Run... OK 144.482 ms, 1385 ops/s
25    Run... OK 145.910 ms, 1371 ops/s
26    Run... OK 151.009 ms, 1325 ops/s
27
28 > TreeInsertTest TM OK 200000 4 5 146.508 1366
29
30
31 Test: TreeRemoveTest
32 Threads count: 4
33 Input size: 200000
34 Repeat count: 5
35    Run... OK 361.402 ms, 554 ops/s
36    Run... OK 368.294 ms, 544 ops/s
37    Run... OK 378.355 ms, 529 ops/s
38    Run... OK 366.735 ms, 546 ops/s
39    Run... OK 367.959 ms, 544 ops/s
40
41 > TreeRemoveTest TM OK 200000 4 5 368.549 543
42
43
44 Test: ArraySumTest
45 Threads count: 4
46 Input size: 1000000
47 Repeat count: 5
48    Run... OK 0.894 ms, 1118569 ops/s
49    Run... OK 0.880 ms, 1136364 ops/s
50    Run... OK 0.859 ms, 1164145 ops/s
51    Run... OK 0.851 ms, 1175089 ops/s
52    Run... OK 0.808 ms, 1237624 ops/s
53
54 > ArraySumTest TM OK 1000000 4 5 0.858 1164959
55
56
57 Test: ArrayInsertTest
58 Threads count: 4
59 Input size: 1000000
60 Repeat count: 5
61    Run... OK 826.182 ms, 1211 ops/s
62    Run... OK 613.151 ms, 1631 ops/s
63    Run... OK 648.392 ms, 1543 ops/s
64    Run... OK 668.954 ms, 1495 ops/s
65    Run... OK 649.201 ms, 1541 ops/s
66
67 > ArrayInsertTest TM OK 1000000 4 5 681.176 1469
68
69
```

```
70 Test: ListInsertTest
71 Threads count: 4
72 Input size: 100000
73 Repeat count: 5
74     Run... OK 135.787 ms, 737 ops/s
75     Run... OK 137.946 ms, 725 ops/s
76     Run... OK 129.351 ms, 774 ops/s
77     Run... OK 127.452 ms, 785 ops/s
78     Run... OK 135.165 ms, 740 ops/s
79
80 > ListInsertTest TM OK 100000 4 5 133.140 752
```