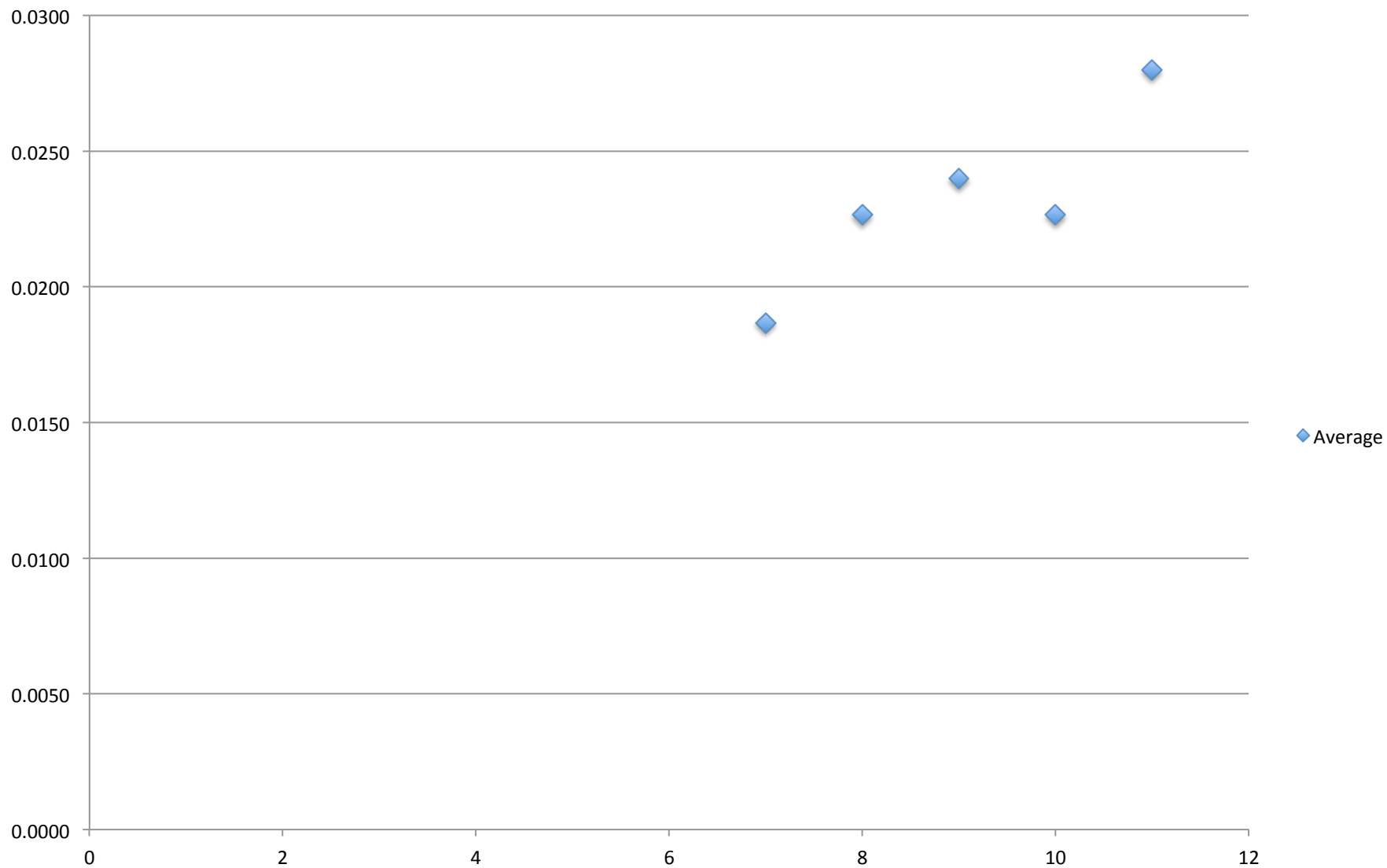
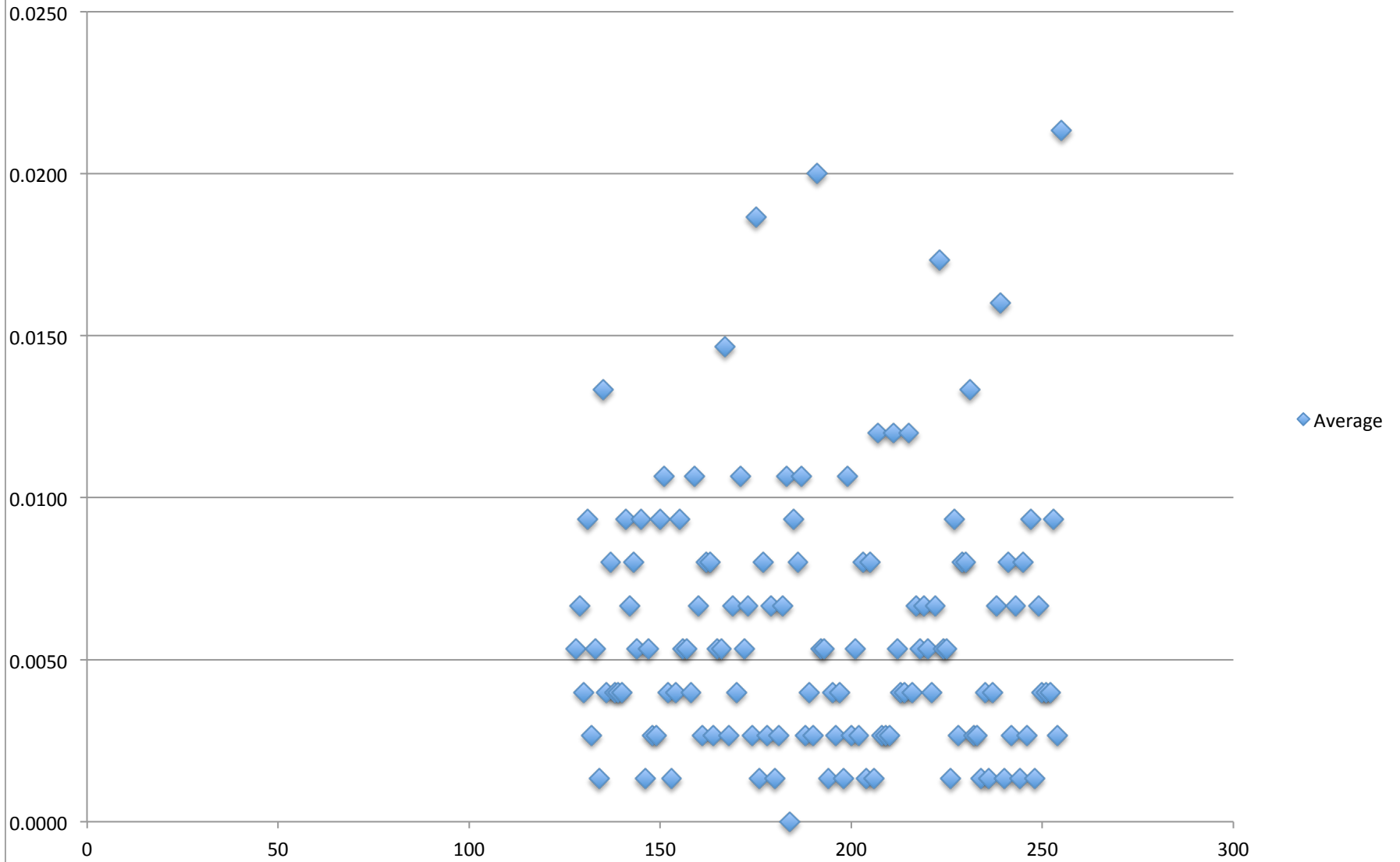


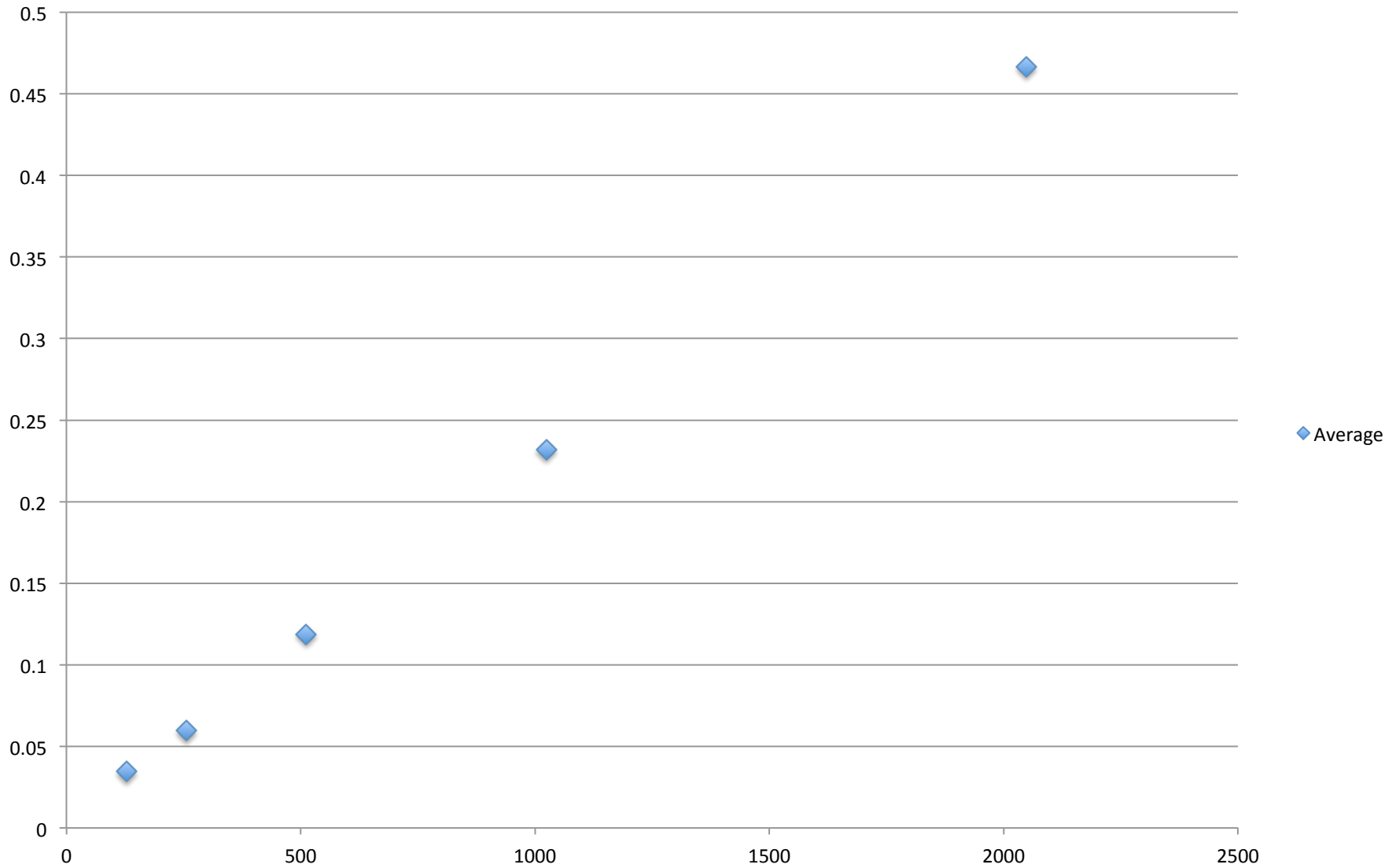
log(Size of List) vs Worst Case Look Up Time for BitsImpl



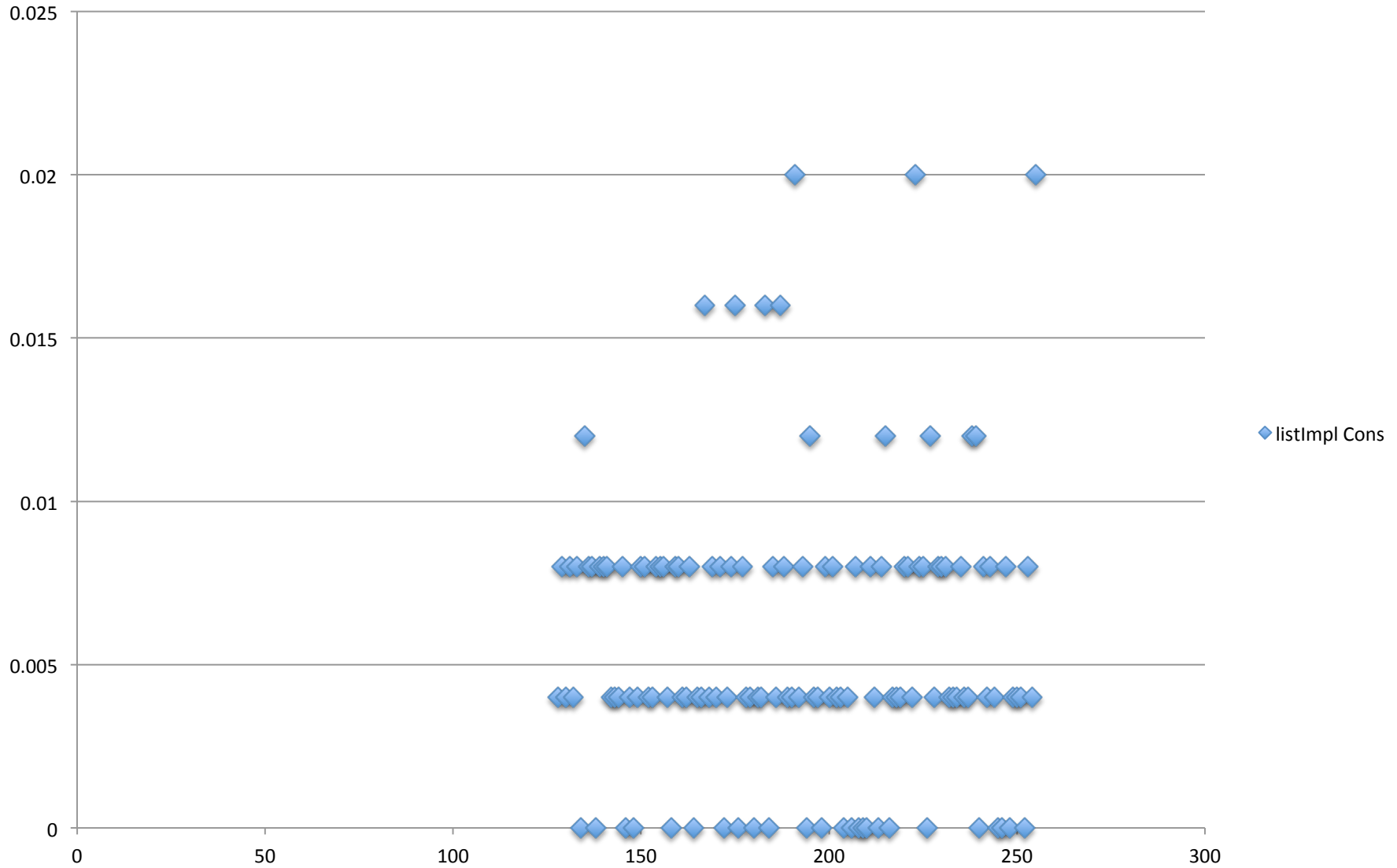
Size of List vs Cons Time for BitsImpl



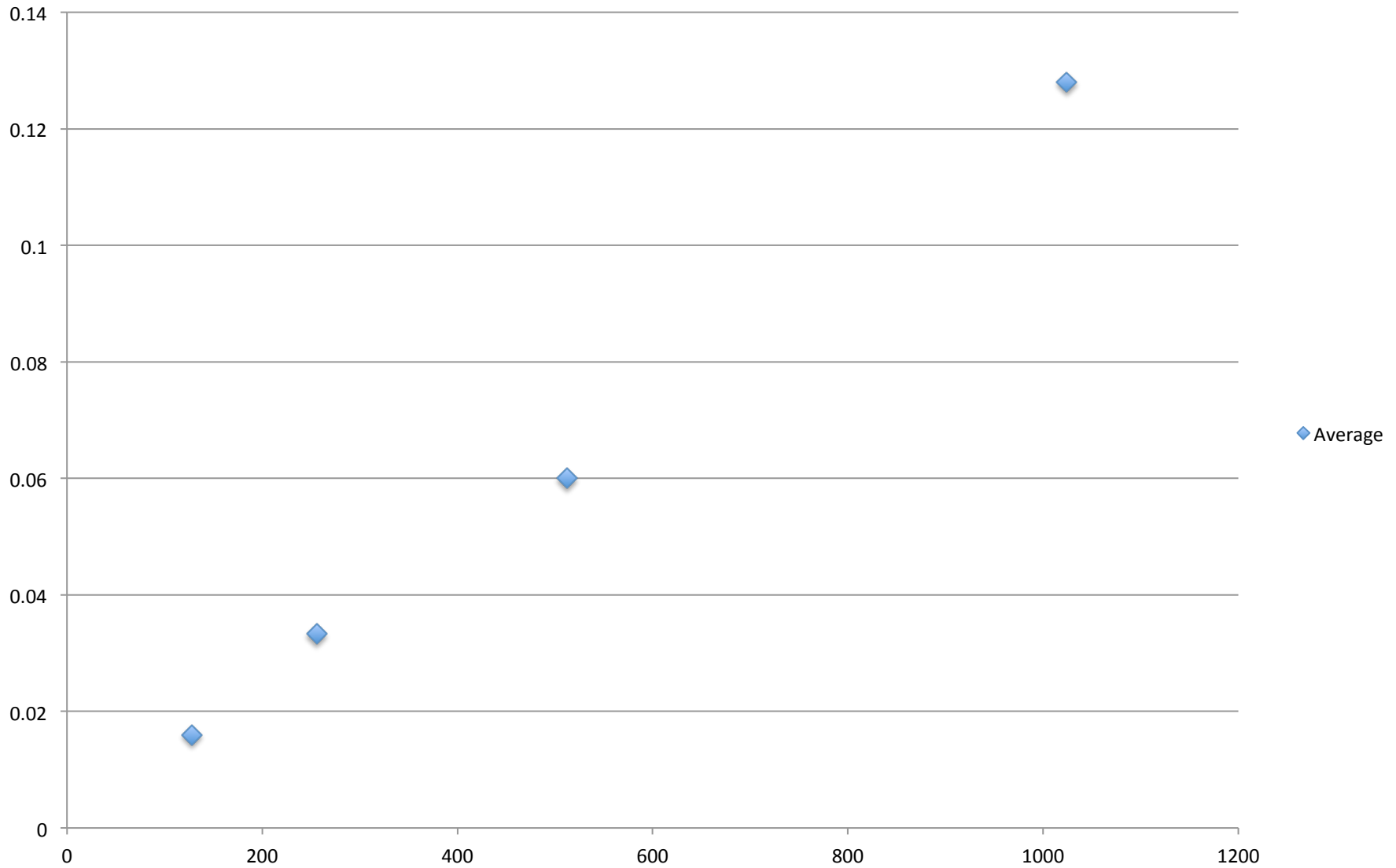
List Size vs Worst Case Look Up Time for ListImpl



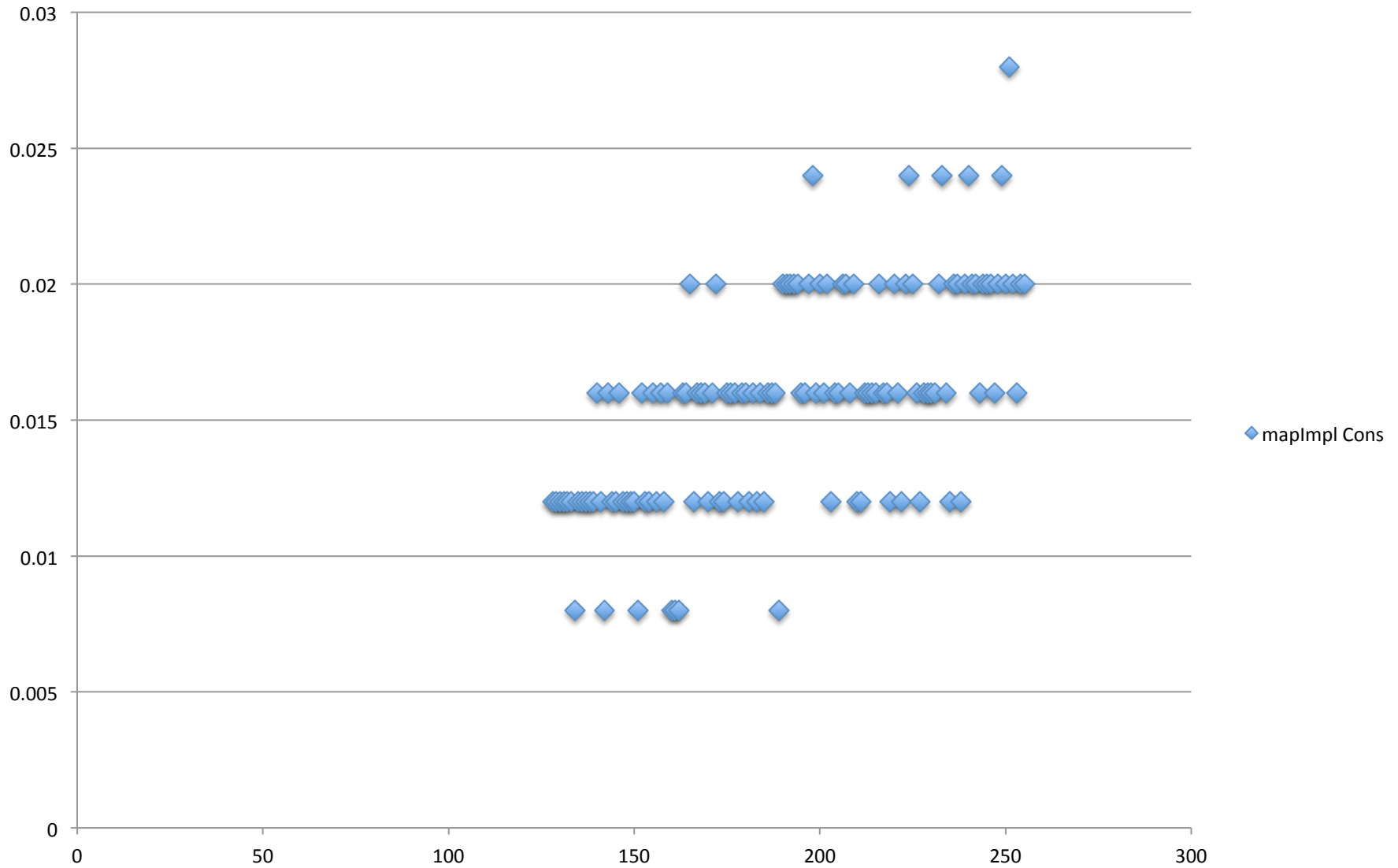
Size of List vs Cons Time for ListImpl



Size of List vs Worst Case Look Up Time for MapImpl



Size of List vs Cons Time for MapImpl



N	log(N)	bitsImpl Look	bitsImpl Look	bitsImpl Look	Average
128	7	0.016	0.02	0.02	0.0187
256	8	0.02	0.028	0.02	0.0227
512	9	0.028	0.02	0.024	0.0240
1024	10	0.02	0.024	0.024	0.0227
2048	11	0.032	0.028	0.024	0.0280

N	bitsImpl Con:	bitsImpl Con:	bitsImpl Con:	Average
128	0.008	0.004	0.004	0.0053
129	0.008	0.004	0.008	0.0067
130	0.004	0.004	0.004	0.0040
131	0.016	0.004	0.008	0.0093
132	0	0.004	0.004	0.0027
133	0.004	0.004	0.008	0.0053
134	0	0.004	0	0.0013
135	0.012	0.016	0.012	0.0133
136	0	0.004	0.008	0.0040
137	0.012	0.004	0.008	0.0080
138	0.008	0.004	0	0.0040
139	0.004	0	0.008	0.0040
140	0.004	0	0.008	0.0040
141	0.012	0.008	0.008	0.0093
142	0.008	0.008	0.004	0.0067
143	0.012	0.008	0.004	0.0080
144	0.008	0.004	0.004	0.0053
145	0.012	0.008	0.008	0.0093
146	0	0.004	0	0.0013
147	0.008	0.004	0.004	0.0053
148	0.004	0.004	0	0.0027
149	0	0.004	0.004	0.0027
150	0.008	0.012	0.008	0.0093
151	0.012	0.012	0.008	0.0107
152	0.004	0.004	0.004	0.0040
153	0	0	0.004	0.0013
154	0.004	0	0.008	0.0040
155	0.008	0.012	0.008	0.0093
156	0.004	0.004	0.008	0.0053
157	0.008	0.004	0.004	0.0053
158	0.012	0	0	0.0040
159	0.016	0.008	0.008	0.0107
160	0.008	0.004	0.008	0.0067
161	0.004	0	0.004	0.0027

162	0.012	0.008	0.004	0.0080
163	0.008	0.008	0.008	0.0080
164	0.004	0.004	0	0.0027
165	0.008	0.004	0.004	0.0053
166	0.004	0.008	0.004	0.0053
167	0.008	0.02	0.016	0.0147
168	0	0.004	0.004	0.0027
169	0.008	0.004	0.008	0.0067
170	0.008	0	0.004	0.0040
171	0.012	0.012	0.008	0.0107
172	0.008	0.008	0	0.0053
173	0.004	0.012	0.004	0.0067
174	0	0	0.008	0.0027
175	0.024	0.016	0.016	0.0187
176	0.004	0	0	0.0013
177	0.008	0.008	0.008	0.0080
178	0.004	0	0.004	0.0027
179	0.008	0.008	0.004	0.0067
180	0.004	0	0	0.0013
181	0.004	0	0.004	0.0027
182	0.008	0.008	0.004	0.0067
183	0.008	0.008	0.016	0.0107
184	0	0	0	0.0000
185	0.008	0.012	0.008	0.0093
186	0.012	0.008	0.004	0.0080
187	0.008	0.008	0.016	0.0107
188	0	0	0.008	0.0027
189	0.008	0	0.004	0.0040
190	0.004	0	0.004	0.0027
191	0.02	0.02	0.02	0.0200
192	0.012	0	0.004	0.0053
193	0.008	0	0.008	0.0053
194	0.004	0	0	0.0013
195	0	0	0.012	0.0040
196	0.004	0	0.004	0.0027
197	0.004	0.004	0.004	0.0040
198	0	0.004	0	0.0013
199	0.008	0.016	0.008	0.0107
200	0	0.004	0.004	0.0027
201	0.004	0.004	0.008	0.0053
202	0	0.004	0.004	0.0027
203	0.016	0.004	0.004	0.0080

204	0.004	0	0	0.0013
205	0.012	0.008	0.004	0.0080
206	0.004	0	0	0.0013
207	0.016	0.012	0.008	0.0120
208	0.004	0.004	0	0.0027
209	0.004	0.004	0	0.0027
210	0	0.008	0	0.0027
211	0.012	0.016	0.008	0.0120
212	0.004	0.008	0.004	0.0053
213	0.012	0	0	0.0040
214	0	0.004	0.008	0.0040
215	0.016	0.008	0.012	0.0120
216	0.008	0.004	0	0.0040
217	0.004	0.012	0.004	0.0067
218	0.012	0	0.004	0.0053
219	0	0.016	0.004	0.0067
220	0	0.008	0.008	0.0053
221	0.004	0	0.008	0.0040
222	0.012	0.004	0.004	0.0067
223	0.016	0.016	0.02	0.0173
224	0.004	0.004	0.008	0.0053
225	0.008	0	0.008	0.0053
226	0.004	0	0	0.0013
227	0.008	0.008	0.012	0.0093
228	0.004	0	0.004	0.0027
229	0.008	0.008	0.008	0.0080
230	0.008	0.008	0.008	0.0080
231	0.02	0.012	0.008	0.0133
232	0.004	0	0.004	0.0027
233	0.004	0	0.004	0.0027
234	0	0	0.004	0.0013
235	0.004	0	0.008	0.0040
236	0	0	0.004	0.0013
237	0.008	0	0.004	0.0040
238	0.004	0.004	0.012	0.0067
239	0.016	0.02	0.012	0.0160
240	0	0.004	0	0.0013
241	0.004	0.012	0.008	0.0080
242	0	0.004	0.004	0.0027
243	0.004	0.008	0.008	0.0067
244	0	0	0.004	0.0013
245	0.012	0.012	0	0.0080

246	0.004	0.004	0	0.0027
247	0.008	0.012	0.008	0.0093
248	0.004	0	0	0.0013
249	0.008	0.008	0.004	0.0067
250	0.004	0.004	0.004	0.0040
251	0.008	0	0.004	0.0040
252	0.004	0.008	0	0.0040
253	0.012	0.008	0.008	0.0093
254	0.004	0	0.004	0.0027
255	0.028	0.016	0.02	0.0213

N	listImpl Look	listImpl Look	listImpl Look	Average
128	0.04	0.032	0.032	0.03466667
256	0.052	0.06	0.068	0.06
512	0.112	0.12	0.124	0.11866667
1024	0.224	0.24	0.232	0.232
2048	0.456	0.46	0.484	0.46666667

N	listImpl Cons
128	0.004
129	0.008
130	0.004
131	0.008
132	0.004
133	0.008
134	0
135	0.012
136	0.008
137	0.008
138	0
139	0.008
140	0.008
141	0.008
142	0.004
143	0.004
144	0.004
145	0.008
146	0
147	0.004
148	0
149	0.004
150	0.008
151	0.008
152	0.004
153	0.004
154	0.008
155	0.008
156	0.008
157	0.004
158	0
159	0.008
160	0.008
161	0.004

162	0.004
163	0.008
164	0
165	0.004
166	0.004
167	0.016
168	0.004
169	0.008
170	0.004
171	0.008
172	0
173	0.004
174	0.008
175	0.016
176	0
177	0.008
178	0.004
179	0.004
180	0
181	0.004
182	0.004
183	0.016
184	0
185	0.008
186	0.004
187	0.016
188	0.008
189	0.004
190	0.004
191	0.02
192	0.004
193	0.008
194	0
195	0.012
196	0.004
197	0.004
198	0
199	0.008
200	0.004
201	0.008
202	0.004
203	0.004

204	0
205	0.004
206	0
207	0.008
208	0
209	0
210	0
211	0.008
212	0.004
213	0
214	0.008
215	0.012
216	0
217	0.004
218	0.004
219	0.004
220	0.008
221	0.008
222	0.004
223	0.02
224	0.008
225	0.008
226	0
227	0.012
228	0.004
229	0.008
230	0.008
231	0.008
232	0.004
233	0.004
234	0.004
235	0.008
236	0.004
237	0.004
238	0.012
239	0.012
240	0
241	0.008
242	0.004
243	0.008
244	0.004
245	0

246	0
247	0.008
248	0
249	0.004
250	0.004
251	0.004
252	0
253	0.008
254	0.004
255	0.02

N	mapImpl Loc	mapImpl Loc	mapImpl Loc	Average
128	0.02	0.012	0.016	0.016
256	0.036	0.028	0.036	0.03333333
512	0.064	0.056	0.06	0.06
1024	0.124	0.136	0.124	0.128

N	mapImpl Cons
128	0.012
129	0.012
130	0.012
131	0.012
132	0.012
133	0.012
134	0.008
135	0.012
136	0.012
137	0.012
138	0.012
139	0.012
140	0.016
141	0.012
142	0.008
143	0.016
144	0.012
145	0.012
146	0.016
147	0.012
148	0.012
149	0.012
150	0.012
151	0.008
152	0.016
153	0.012
154	0.012
155	0.016
156	0.012
157	0.016
158	0.012
159	0.016
160	0.008
161	0.008

162	0.008
163	0.016
164	0.016
165	0.02
166	0.012
167	0.016
168	0.016
169	0.016
170	0.012
171	0.016
172	0.02
173	0.012
174	0.012
175	0.016
176	0.016
177	0.016
178	0.012
179	0.016
180	0.016
181	0.012
182	0.016
183	0.012
184	0.016
185	0.012
186	0.016
187	0.016
188	0.016
189	0.008
190	0.02
191	0.02
192	0.02
193	0.02
194	0.02
195	0.016
196	0.016
197	0.02
198	0.024
199	0.016
200	0.02
201	0.016
202	0.02
203	0.012

204	0.016
205	0.016
206	0.02
207	0.02
208	0.016
209	0.02
210	0.012
211	0.012
212	0.016
213	0.016
214	0.016
215	0.016
216	0.02
217	0.016
218	0.016
219	0.012
220	0.02
221	0.016
222	0.012
223	0.02
224	0.024
225	0.02
226	0.016
227	0.012
228	0.016
229	0.016
230	0.016
231	0.016
232	0.02
233	0.024
234	0.016
235	0.012
236	0.02
237	0.02
238	0.012
239	0.02
240	0.024
241	0.02
242	0.02
243	0.016
244	0.02
245	0.02

246	0.02
247	0.016
248	0.02
249	0.024
250	0.02
251	0.028
252	0.02
253	0.016
254	0.02
255	0.02