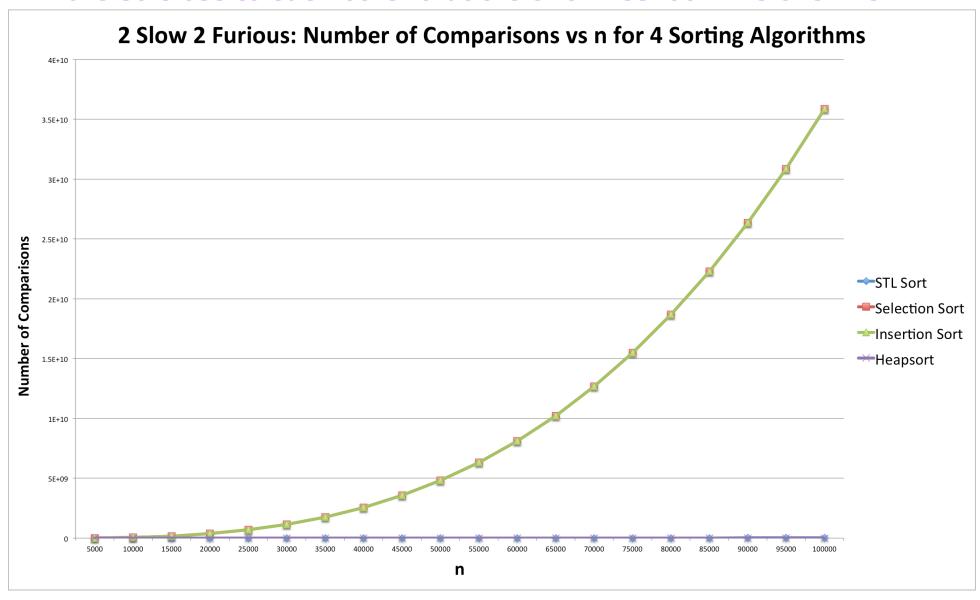
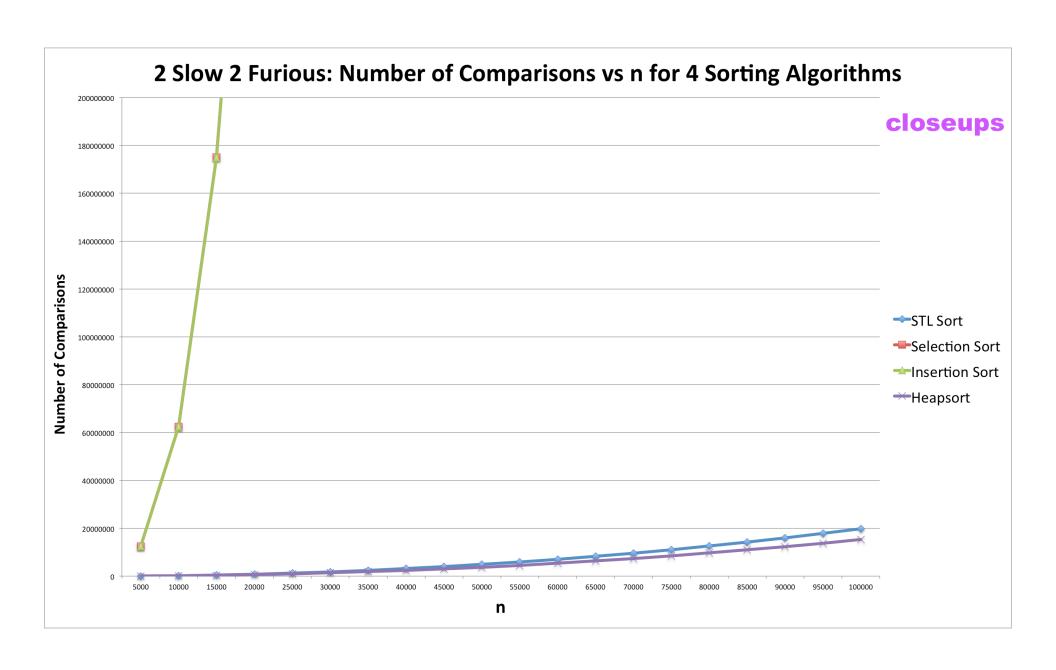
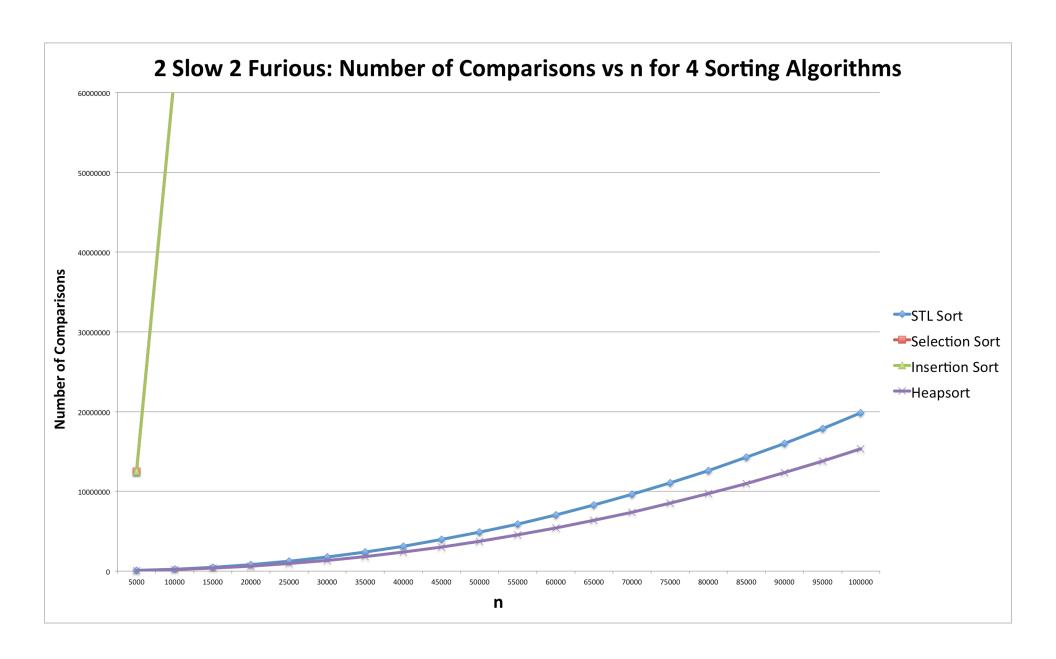
| A B C D E | | | | | | | | |
|--|----|--------|----------|------------|------------|----------|---|--|
| 2 10000 236801 62507500 62492500 174220 3 15000 490228 175015000 174985000 362551 4 20000 826441 375025000 374975000 621637 5 25000 1259029 687537500 687462500 953487 6 30000 1784383 ######### ######### 1359580 7 35000 2416418 ######### ######### 2399367 9 45000 3958382 ######### ######## 3036033 10 50000 4886543 ######### ######## 3749790 11 55000 5905299 ######### ######## 4542520 12 60000 7059175 ######### ######## 5414408 13 65000 8274615 1.0238E+10 1.0237E+10 6365336 14 70000 9619520 1.2688E+10 1.0237E+10 6365336 15 75000 11070340 1.55E+10 1.55E+10 7397386 15 75000 11070340 1.55E+10 1.55E+10 9708640 17 85000 12599258 1.87E+10 1.87E+10 9708640 17 85000 14269086 2.2313E+10 2.2312E+10 10988283 18 90000 16007836 2.6363E+10 2.6362E+10 12350292 19 95000 17854560 3.0875E+10 3.0875E+10 13795742 20 100000 19829646 3.5876E+10 3.5874E+10 15324922 21 STL Select Insert Heap | | Α | В | С | D | E | F | |
| 3 15000 490228 175015000 174985000 362551 4 20000 826441 375025000 374975000 621637 5 25000 1259029 687537500 687462500 953487 6 30000 1784383 ######### ######### 1359580 7 35000 2416418 ######### ######### 2399367 8 40000 3135009 ######### ######## 3036033 10 50000 4886543 ######### ######## 3749790 11 55000 5905299 ######### ######## 4542520 12 60000 7059175 ######### ######## 5414408 13 65000 8274615 1.0238E+10 1.0237E+10 6365336 14 70000 9619520 1.2688E+10 1.2687E+10 7397386 15 75000 11070340 1.55E+10 1.55E+10 8511520 16 80000 12599258 1.87E+10 1.87E+10 9708640 17 85000 14269086 2.2313E+10 2.2312E+10 10988283 18 90000 16007836 2.6363E+10 2.6362E+10 12350292 19 95000 17854560 3.0875E+10 3.0875E+10 13795742 20 100000 19829646 3.5876E+10 3.5874E+10 15324922 21 STL Select Insert Heap | 1 | 5000 | 73783 | 12502500 | 12497500 | 54779 | | |
| 4 20000 826441 375025000 374975000 621637 5 25000 1259029 687537500 687462500 953487 6 30000 1784383 #################################### | 2 | 10000 | 236801 | 62507500 | 62492500 | 174220 | | |
| 5 25000 1259029 687537500 687462500 953487 6 30000 1784383 #################################### | 3 | 15000 | 490228 | 175015000 | 174985000 | 362551 | | |
| 6 30000 1784383 ########## ######### 1359580 7 35000 2416418 ########## ######## 1840554 8 40000 3135009 ########## ######## 2399367 9 45000 3958382 ######### ######## 3036033 10 50000 4886543 ######### ######## 3749790 11 55000 5905299 ######### ######## 4542520 12 60000 7059175 ######### ######## 5414408 13 65000 8274615 1.0238E+10 1.0237E+10 6365336 14 70000 9619520 1.2688E+10 1.2687E+10 7397386 15 75000 11070340 1.55E+10 1.55E+10 8511520 16 80000 12599258 1.87E+10 1.87E+10 9708640 17 85000 14269086 2.2313E+10 2.2312E+10 10988283 18 90000 16007836 2.6363E+10 2.6362E+10 12350292 19 95000 17854560 3.0875E+10 3.0875E+10 13795742 20 100000 19829646 3.5876E+10 3.5874E+10 15324922 21 STL Select Insert Heap | 4 | 20000 | 826441 | 375025000 | 374975000 | 621637 | | |
| 7 35000 2416418 #################################### | 5 | 25000 | 1259029 | 687537500 | 687462500 | 953487 | | |
| 8 40000 3135009 ########## ######### 2399367 9 45000 3958382 ########## ######## 3036033 10 50000 4886543 ######### ######## 3749790 11 55000 5905299 ########## ######## 4542520 12 60000 7059175 ######### ######## 5414408 13 65000 8274615 1.0238E+10 1.0237E+10 6365336 14 70000 9619520 1.2688E+10 1.2687E+10 7397386 15 75000 11070340 1.55E+10 1.55E+10 8511520 16 80000 12599258 1.87E+10 1.87E+10 9708640 17 85000 14269086 2.2313E+10 2.2312E+10 10988283 18 90000 16007836 2.6363E+10 2.6362E+10 12350292 19 95000 17854560 3.0875E+10 3.0875E+10 13795742 20 100000 19829646 3.5876E+10 3.5874E+10 15324922 21 STL Select Insert Heap | 6 | 30000 | 1784383 | ********** | ********** | 1359580 | | |
| 9 | 7 | 35000 | 2416418 | ********** | ********** | 1840554 | | |
| 10 50000 4886543 #################################### | 8 | 40000 | 3135009 | ********** | ********** | 2399367 | | |
| 11 55000 5905299 #################################### | 9 | 45000 | 3958382 | ********** | ********** | 3036033 | | |
| 12 60000 7059175 #################################### | 10 | 50000 | 4886543 | ********** | ********** | 3749790 | | |
| 13 65000 8274615 1.0238E+10 1.0237E+10 6365336 14 70000 9619520 1.2688E+10 1.2687E+10 7397386 15 75000 11070340 1.55E+10 1.55E+10 8511520 16 80000 12599258 1.87E+10 1.87E+10 9708640 17 85000 14269086 2.2313E+10 2.2312E+10 10988283 18 90000 16007836 2.6363E+10 2.6362E+10 12350292 19 95000 17854560 3.0875E+10 3.0875E+10 13795742 20 100000 19829646 3.5876E+10 3.5874E+10 15324922 21 STL Select Insert Heap | 11 | 55000 | 5905299 | ********** | ********** | 4542520 | | |
| 14 70000 9619520 1.2688E+10 1.2687E+10 7397386 15 75000 11070340 1.55E+10 1.55E+10 8511520 16 80000 12599258 1.87E+10 1.87E+10 9708640 17 85000 14269086 2.2313E+10 2.2312E+10 10988283 18 90000 16007836 2.6363E+10 2.6362E+10 12350292 19 95000 17854560 3.0875E+10 3.0875E+10 13795742 20 100000 19829646 3.5876E+10 3.5874E+10 15324922 21 STL Select Insert Heap | 12 | 60000 | 7059175 | ********** | ********** | 5414408 | | |
| 15 75000 11070340 1.55E+10 1.55E+10 8511520 16 80000 12599258 1.87E+10 1.87E+10 9708640 17 85000 14269086 2.2313E+10 2.2312E+10 10988283 18 90000 16007836 2.6363E+10 2.6362E+10 12350292 19 95000 17854560 3.0875E+10 3.0875E+10 13795742 20 100000 19829646 3.5876E+10 3.5874E+10 15324922 21 STL Select Insert Heap | 13 | 65000 | 8274615 | 1.0238E+10 | 1.0237E+10 | 6365336 | | |
| 16 80000 12599258 1.87E+10 1.87E+10 9708640 17 85000 14269086 2.2313E+10 2.2312E+10 10988283 18 90000 16007836 2.6363E+10 2.6362E+10 12350292 19 95000 17854560 3.0875E+10 3.0875E+10 13795742 20 100000 19829646 3.5876E+10 3.5874E+10 15324922 21 STL Select Insert Heap | 14 | 70000 | 9619520 | 1.2688E+10 | 1.2687E+10 | 7397386 | | |
| 17 85000 14269086 2.2313E+10 2.2312E+10 10988283 18 90000 16007836 2.6363E+10 2.6362E+10 12350292 19 95000 17854560 3.0875E+10 3.0875E+10 13795742 20 100000 19829646 3.5876E+10 3.5874E+10 15324922 21 STL Select Insert Heap | 15 | 75000 | 11070340 | 1.55E+10 | 1.55E+10 | 8511520 | | |
| 18 90000 16007836 2.6363E+10 2.6362E+10 12350292 19 95000 17854560 3.0875E+10 3.0875E+10 13795742 20 100000 19829646 3.5876E+10 3.5874E+10 15324922 21 STL Select Insert Heap | 16 | 80000 | 12599258 | 1.87E+10 | 1.87E+10 | 9708640 | | |
| 19 95000 17854560 3.0875E+10 3.0875E+10 13795742 20 100000 19829646 3.5876E+10 3.5874E+10 15324922 21 STL Select Insert Heap | 17 | 85000 | 14269086 | 2.2313E+10 | 2.2312E+10 | 10988283 | | |
| 20 100000 19829646 3.5876E+10 3.5874E+10 15324922 21 STL Select Insert Heap | 18 | 90000 | 16007836 | 2.6363E+10 | 2.6362E+10 | 12350292 | | |
| 21 STL Select Insert Heap | 19 | 95000 | 17854560 | 3.0875E+10 | 3.0875E+10 | 13795742 | | |
| | 20 | 100000 | 19829646 | 3.5876E+10 | 3.5874E+10 | 15324922 | | |
| | 21 | | | | Insert | Heap | | |
| 22 Data plotted | 22 | Data | plotted | | | | | |

- graph with all data points
- as you can see, the comparison values for selection and insertion sort are so close to each other that the two lines look like one line







even more closeups

