Sort Type	1000	2000	4000	8000	16000	32000	64000	128000
Insertion Sort	1.72E-05	4.88E-05	5.26E-05	0.00010323	0.00021025	0.00050758	0.00083754	0.00166121
Selection Sort	0.00489067	0.0179907	0.0662236	0.266395	1.06827	4.66384	17.0873	69.1686
Bubble Sort	0.00499843	0.0172402	0.0692479	0.278792	1.53869	4.71676	18.7602	73.1515
Bubble Sort with Flag	8.98E-06	1.68E-05	3.36E-05	6.69E-05	0.00020971	0.00027317	0.00056679	0.00107268
Heapsort	0.000324008	0.00070943	0.0015724	0.00332897	0.00810212	0.0161199	0.0325977	0.0698342
Merge Sort	0.000666724	0.00141704	0.00300237	0.00665359	0.014175	0.0291506	0.10456	0.128815
QuickSort	0.0114005	0.0370606	0.13927	0.558479	2.74108	9.00343	36.1604	144.34
Radix Sort	0.000697553	0.00074423	0.00148724	0.00293648	0.011578	0.0150165	0.0294882	0.0701205
Smooth Sort	4.25E-05	7.34E-05	0.000146014	0.00028825	0.00075785	0.00114905	0.00234658	0.00464435
Counting Sort	8.34E-05	0.00013978	0.000278686	0.00055274	0.00119732	0.00223557	0.00442522	0.00883892

Sorting Ascending Elements

Sorting Ascending Elements Scaled

Seconds

Number of Elements

- Insertion Sort
- Selection Sort
- Bubble Sort
- Bubble Sort with Flag
- Heapsort
- Merge Sort
- QuickSort
- Radix Sort
- Smooth Sort
- Counting Sort
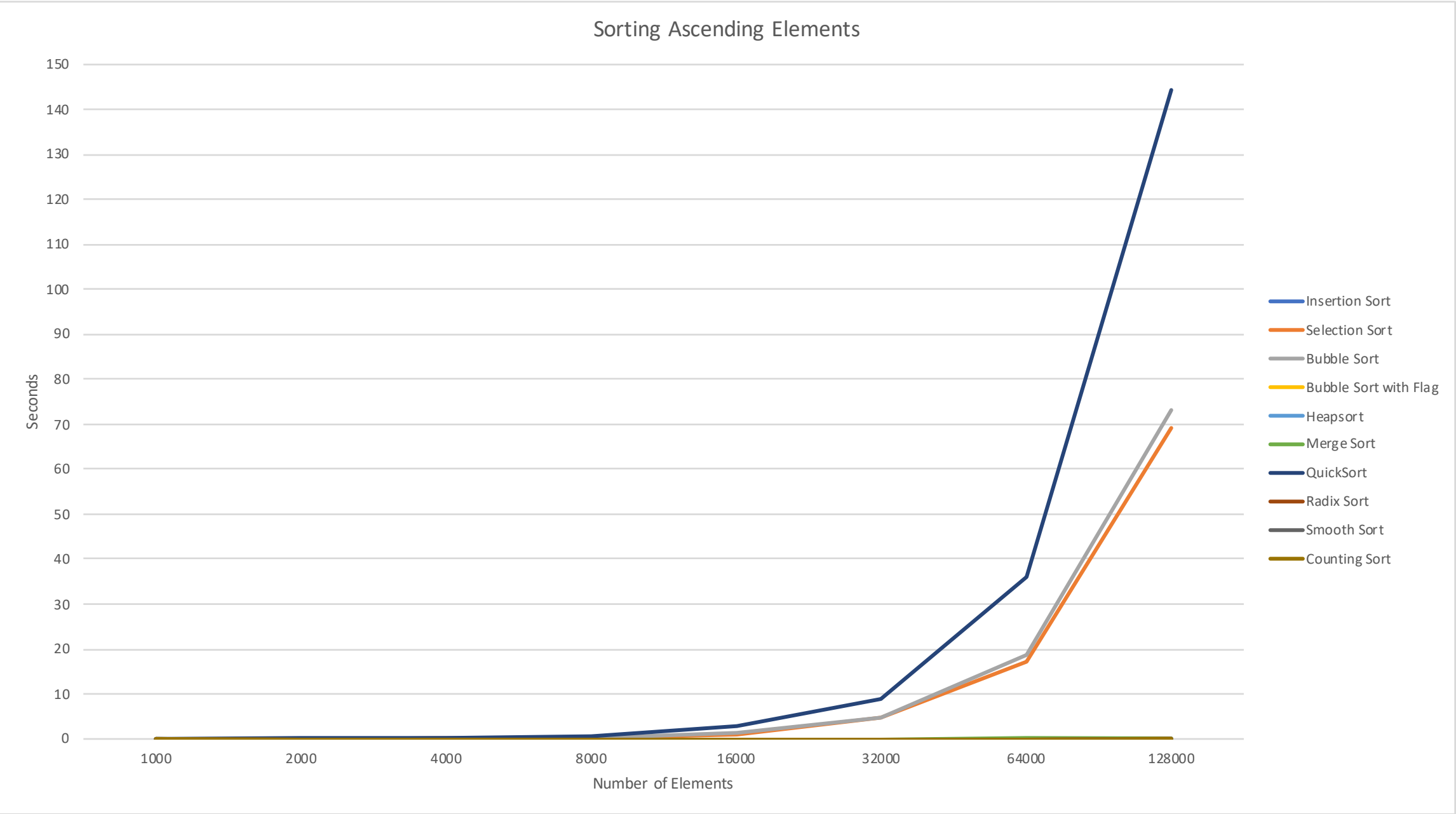
	1000	2000	4000	8000	16000	32000	64000	128000
Insertion Sort	0.00523359	0.0194799	0.0755973	0.308218	1.22597	5.00627	19.7531	78.0241
Selection Sort	0.00429387	0.0169166	0.0692146	0.274077	1.12071	4.32606	17.2331	68.9319
Bubble Sort	0.00734669	0.0294597	0.12028	0.485675	1.92053	7.59703	30.3323	121.383
Bubble Sort with Flag	0.0162818	0.0620531	0.26472	1.00891	4.05076	16.0232	64.1155	256.149
Heapsort	0.00041296	0.0006599	0.00159191	0.00307911	0.0066528	0.0143214	0.0305498	0.0657182
Merge Sort	0.00088844	0.00142195	0.0032484	0.00665366	0.0131867	0.0277349	0.0574822	0.118599
QuickSort	0.00559058	0.0203862	0.0883553	0.330539	1.31208	5.25579	21.011	84.857
Radix Sort	0.00215175	0.00210464	0.0027966	0.00422336	0.0086377	0.0154962	0.0298728	0.0678568
Smooth Sort	0.00017604	0.00037143	0.00084395	0.00160156	0.0033877	0.00720817	0.0152372	0.0319825
Counting Sort	0.00072636	0.00076913	0.00089843	0.00115741	0.00167208	0.00270482	0.0048182	0.00891622

Sorting Descending Elements

Sorting Descending Elements - Scaled
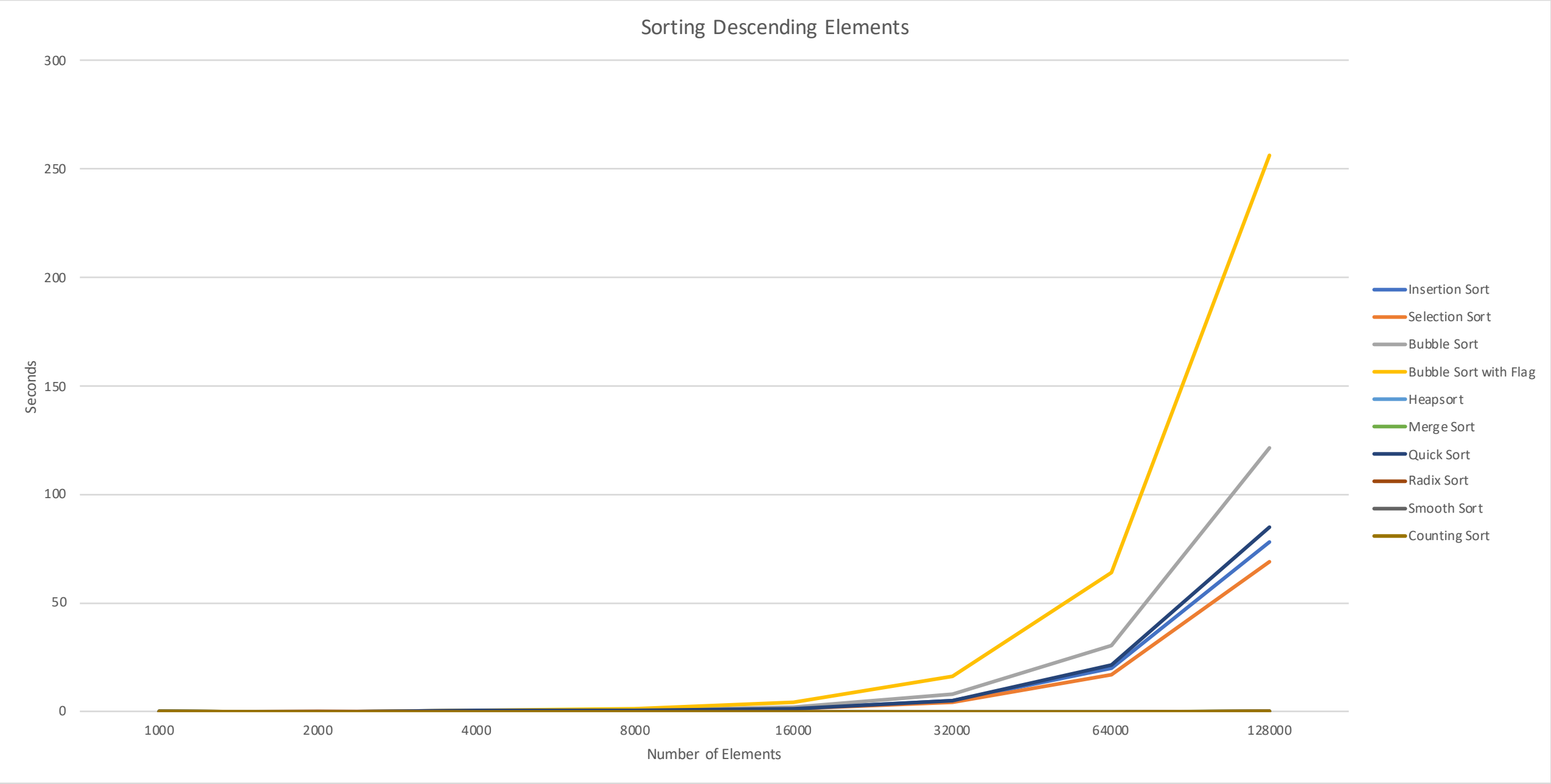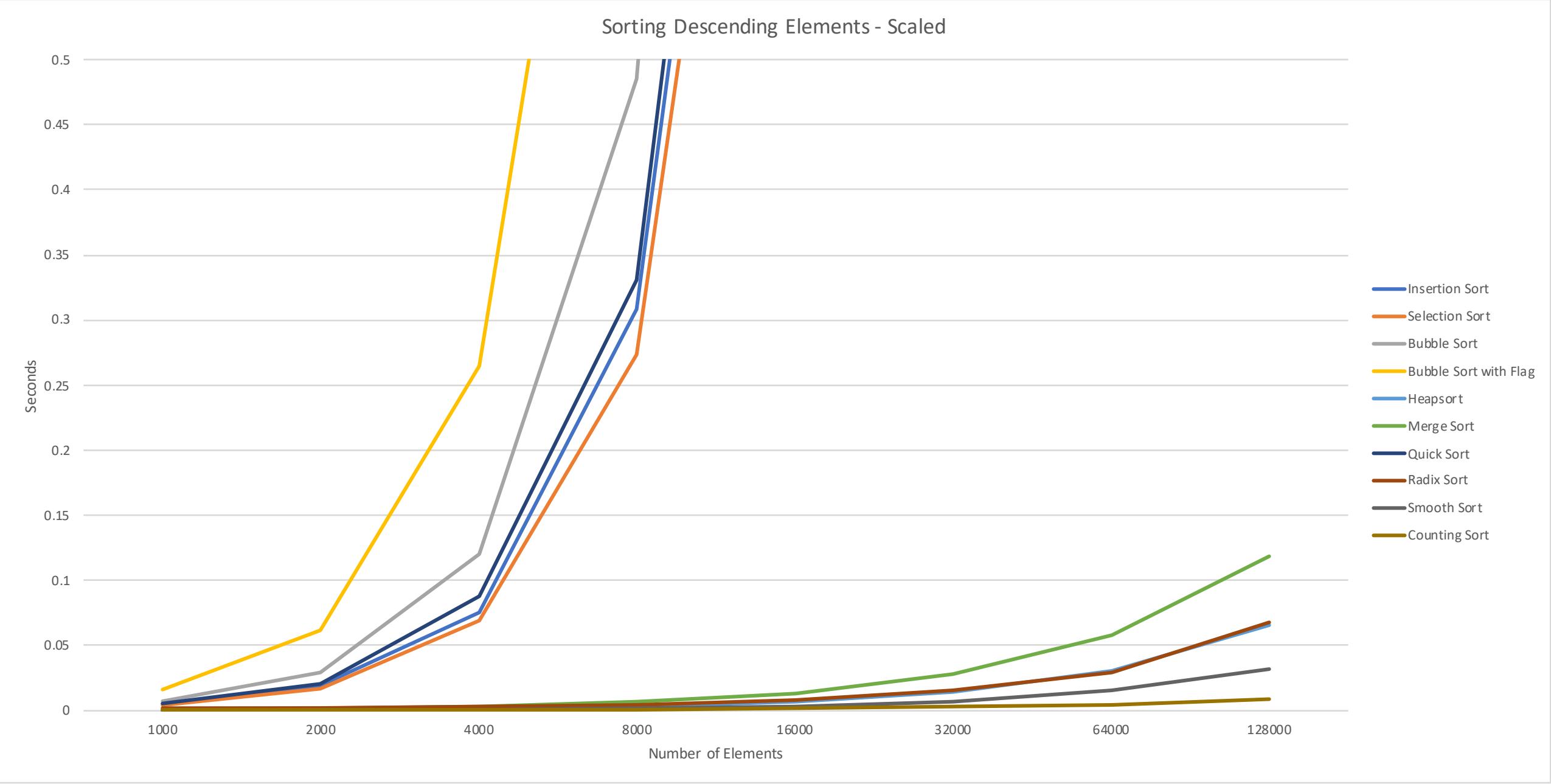
	1000	2000	4000	8000	16000	32000	64000	128000
Insertion Sort	0.00261199	0.00962579	0.0403409	0.18091	0.743745	2.44339	9.85207	40.0814
Selection Sort	0.00600015	0.016643	0.067999	0.283372	1.14206	4.34089	17.2504	69.3153
Bubble Sort	0.00795786	0.0324094	0.144289	0.550939	2.30212	8.36855	33.519	132.547
Bubble Sort with Flag	0.0134406	0.0553557	0.229545	0.999428	3.66577	14.7474	58.4097	228.365
Heapsort	0.000336259	0.000742885	0.00162861	0.00435074	0.00769371	0.0174693	0.0354349	0.0773722
Merge Sort	0.000751841	0.00159075	0.00345575	0.00734101	0.015473	0.0324629	0.066691	0.139245
QuickSort	0.000186177	0.000423112	0.0011171	0.00195733	0.00410664	0.00902583	0.018892	0.0427669
Radix Sort	0.0029329	0.00330436	0.00479426	0.00747153	0.0107316	0.0209368	0.0363064	0.0703043
Smooth Sort	0.00022038	0.000486573	0.00105105	0.00237006	0.0048881	0.0104075	0.0221644	0.0473887
Counting Sort	0.000721654	0.000802724	0.00121709	0.0012949	0.00195137	0.00325042	0.00571427	0.00897161

Sorting Random Elements

Sorting Random Elements - Scaled