Measurments

1D
T= N*500

N	seq	2perhost2	4perhost4	8perhost8	8perhost16
300	0,520	0,66346	0,6545	0,70905	1,68261
400	0,960	0,880395	1,0121	0,93191	2,02479
500	1,500	1,40677	1,34078	1,26235	2,66415
1000	6,000	3,82468	3,25647	2,64077	5,19173
2000	23,630	13,4438	8,89189	6,14356	10,7786
3000	53,200	28,37640	17,789	14,8855	19,5114
4000	94,5900	50,9344	29,7689	20,6117	23,9506

2D
T= N*100

N	seq	2perhost2	4perhost4	8perhost8	8perhost16	8perhost 32
50	1,30000	0,18453	0,33029	0,44193	2,23006	12,09250
100	10,19000	0,29661	0,45011	0,61970	4,69579	17,40800
200	81,30000	0,57169	0,91514	1,27542	7,17172	35,68290
300	277,78000	1,01672	1,67534	2,50835	18,33970	44,54750
400	721,48000	1,55310	2,54409	3,98915	25,33690	64,38570

Executiontimes 1D
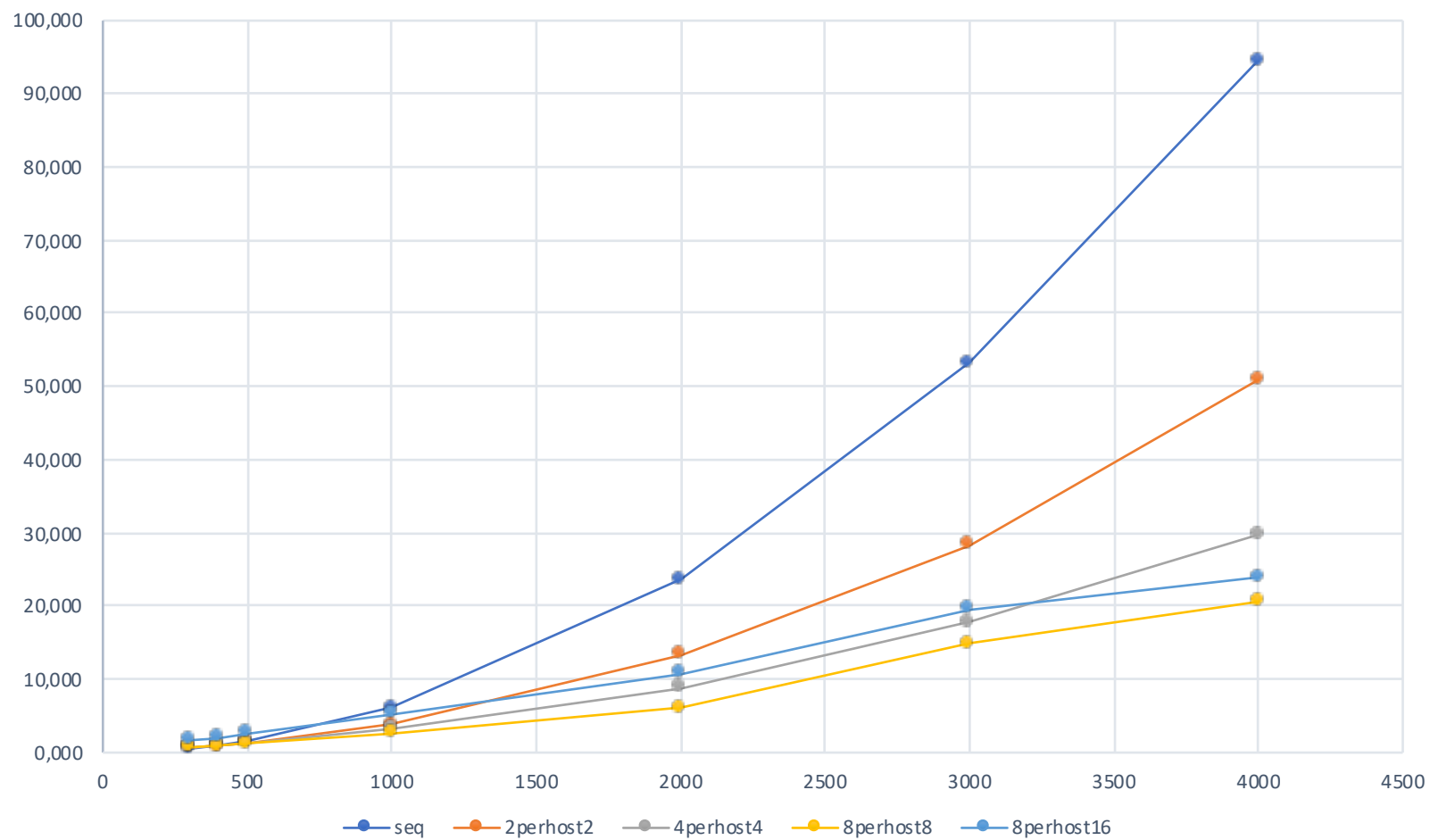
Executiontimes 2D till N=200

Legend: seq, 2perhost2, 4perhost4, 8perhost8, 8perhost16, 8perhost 32
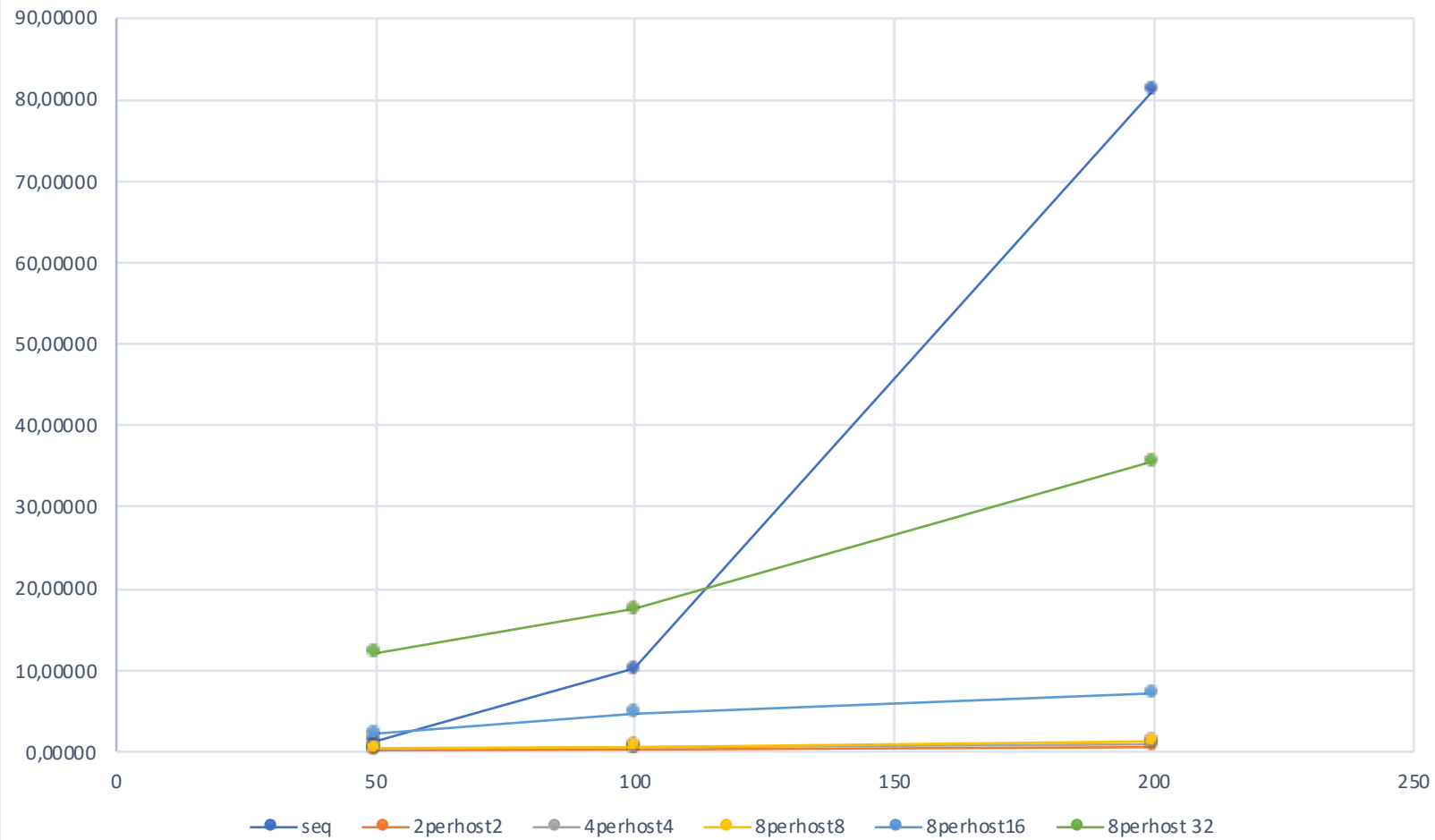
t_1 - Ausführungszeit des Algorithmus A auf einem Pr$\boxed{S_P = \dfrac{t_1}{t_P}}$

t_P - Ausführungszeit des Algorithmus A auf P Proz

$$E_n = \frac{S_n}{n}.$$

speedup 2perhost2	speedup 4perhost4	speedup 8perhost8		eff 2perhost2	eff 4perhost4	eff 8perhost8
0,783769933	0,794499618	0,733375643		0,391884967	0,198624905	0,091671955
1,090419641	0,948522873	1,030142396		0,545209821	0,237130718	0,128767799
1,066272383	1,118751771	1,188259991		0,533136191	0,279687943	0,148532499
1,568758694	1,842485882	2,272064587		0,784379347	0,46062147	0,284008073
1,757687559	2,657477769	3,846304097		0,878843779	0,664369442	0,480788012
1,874797367	2,990612176	3,573947802		0,937398683	0,747653044	0,446743475
1,857094616	3,177477166	4,589141119		0,928547308	0,794369291	0,57364264

speedup 2perhost2	speedup 4perhost4	speedup 8perhost8		eff 2perhost2	eff 4perhost4	eff 8perhost8
7,044772237	3,935982754	2,941629029		3,522386119	0,983995689	0,367703629
34,35510843	22,6387093	16,44351998		17,17755421	5,659677326	2,055439997
142,2091927	88,83935157	63,74370796		71,10459635	22,20983789	7,967963494
273,2118971	165,80515	110,7421213		136,6059485	41,4512875	13,84276516
464,541884	283,5905962	180,8605843		232,270942	70,89764906	22,60757304

Executiontimes 2D

seq   2perhost2   4perhost4   8perhost8   8perhost16   8perhost 32
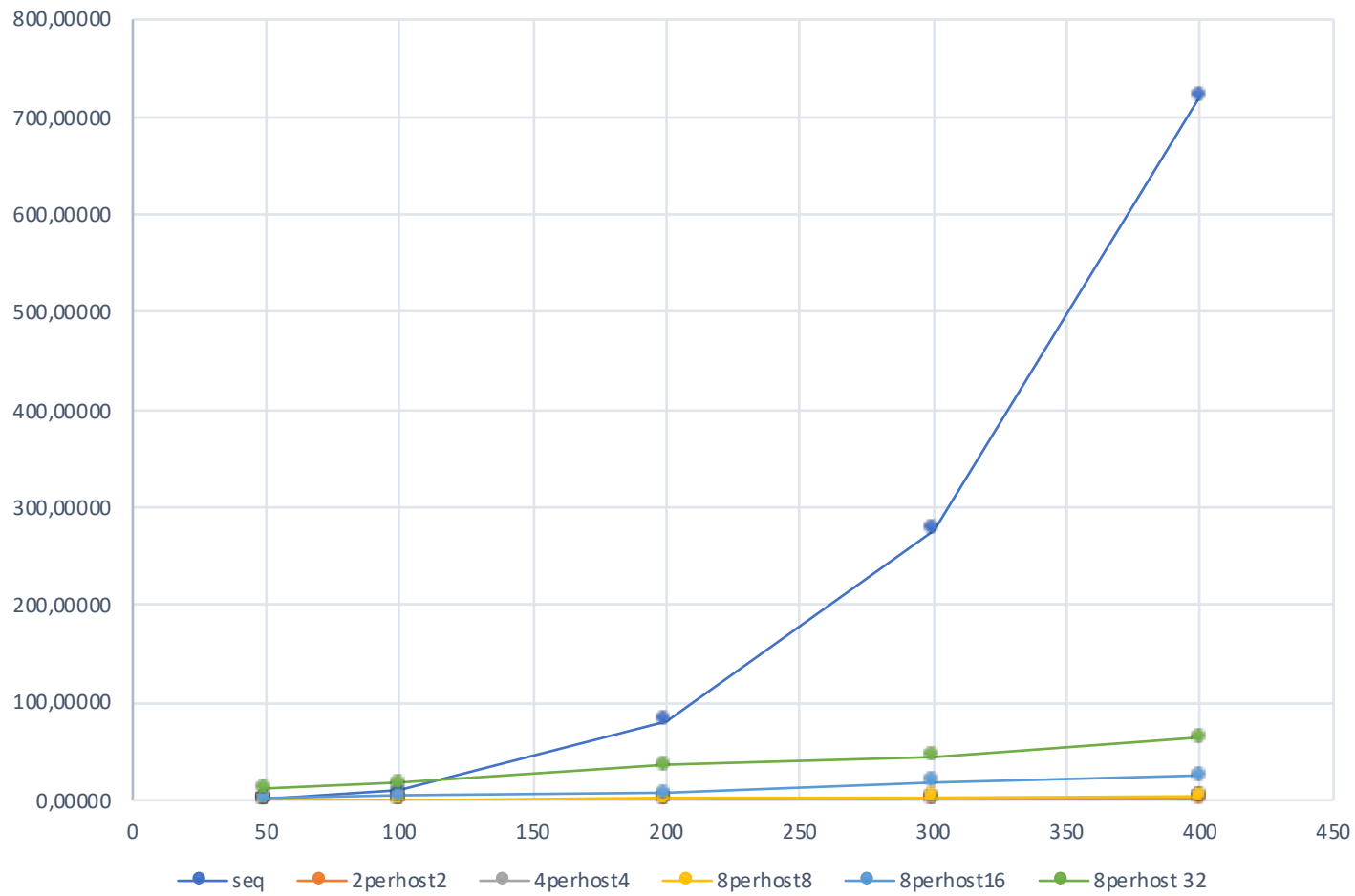
Executiontimes 2D without seq