

Benchmark

Sequential

Valor de Pi						Tempo de Execução					
1		2	3	4	5	1		2	3	4	5
1.00E+02	2.8	2.8	3.28	3.2	3.32	1.00E+02	10	9	10	9	10
1.00E+03	3.212	3.168	3.092	3.172	3.104	1.00E+03	35	35	37	36	35
1.00E+04	3.1512	3.1272	3.1172	3.1932	3.15	1.00E+04	287	288	288	285	287
1.00E+05	3.13296	3.13948	3.14028	3.14504	3.13304	1.00E+05	3063	2791	2792	2818	2857
1.00E+06	3.141212	3.141324	3.140128	3.143152	3.140292	1.00E+06	30795	28307	28184	28053	30821
1.00E+07	3.14176	3.14145	3.141892	3.142508	3.141282	1.00E+07	282886	282494	280869	290568	282843
1.00E+08	3.141704	3.141639	3.141605	3.141381	3.141768	1.00E+08	2830318	2914815	2834505	2843038	2837852
1.00E+09	3.141599	3.141566	3.141591	3.141578	3.141573	1.00E+09	28117168	28033622	28034648	28048268	28025265
1.00E+10	3.141594	3.141592	3.141595	3.141592	3.141594	1.00E+10	280500346	280228907	280138891	279964573	280303605
1.00E+11	*	*	*	*	*	1.00E+11	*	*	*	*	*
1.00E+12	*	*	*	*	*	1.00E+12	*	*	*	*	*

2 threads

Valor de Pi						Tempo de Execução						Speedup					
1		2	3	4	5	1		2	3	4	5	1		2	3	4	5
1.00E+02	3.28	2.96	3.04	3.12	3.28	1.00E+02	89	92	89	105	103	1.00E+02	11.24%	9.78%	11.24%	8.57%	9.71%
1.00E+03	3.144	3.144	3.216	3.24	3.048	1.00E+03	117	109	109	119	127	1.00E+03	29.91%	32.11%	33.94%	30.25%	27.56%
1.00E+04	3.136	3.176	3.1144	3.1608	3.1	1.00E+04	385	325	330	324	328	1.00E+04	74.55%	88.62%	87.27%	87.96%	87.50%
1.00E+05	3.14896	3.12816	3.12904	3.13792	3.14424	1.00E+05	1835	2343	2369	2339	2334	1.00E+05	166.92%	119.12%	117.86%	120.48%	122.41%
1.00E+06	3.144544	3.140584	3.144288	3.143832	3.146248	1.00E+06	15078	17014	16996	17034	17586	1.00E+06	204.24%	166.37%	165.83%	164.69%	175.26%
1.00E+07	3.142114	3.140789	3.140964	3.141358	3.141208	1.00E+07	200142	179457	151244	225138	168587	1.00E+07	141.34%	157.42%	185.71%	129.06%	167.77%
1.00E+08	3.141468	3.141638	3.141131	3.141347	3.14154	1.00E+08	1703396	1947705	2097090	1858184	1592866	1.00E+08	166.16%	149.65%	135.16%	153.00%	178.16%
1.00E+09	3.14161	3.141593	3.141596	3.141576	3.141581	1.00E+09	19731505	19570984	19239716	19756756	19084827	1.00E+09	142.50%	143.24%	145.71%	141.97%	146.85%
1.00E+10	3.141592	3.141596	3.141589	3.141591	3.141595	1.00E+10	192179479	193882544	190497287	192874675	195533761	1.00E+10	145.96%	144.54%	147.06%	145.15%	143.35%
1.00E+11	*	*	*	*	*	1.00E+11	*	*	*	*	*	1.00E+11	*	*	*	*	*
1.00E+12	*	*	*	*	*	1.00E+12	*	*	*	*	*	1.00E+12	*	*	*	*	*

3 threads

Valor de Pi						Tempo de Execução						Speedup					
1		2	3	4	5	1		2	3	4	5	1		2	3	4	5
1.00E+02	2.8	3.4	3.16	3.28	3.04	1.00E+02	136	127	141	131	126	1.00E+02	7.35%	7.09%	7.09%	6.87%	7.94%
1.00E+03	3.228	3.208	3.208	3.204	3.16	1.00E+03	167	143	147	140	146	1.00E+03	20.96%	24.48%	25.17%	25.71%	23.97%
1.00E+04	3.1528	3.1588	3.1456	3.1288	3.1068	1.00E+04	254	252	253	253	255	1.00E+04	112.99%	114.29%	113.83%	112.65%	112.55%
1.00E+05	3.14632	3.14116	3.136	3.13324	3.14244	1.00E+05	1656	1669	1673	1702	1671	1.00E+05	184.96%	167.23%	166.89%	165.57%	170.98%
1.00E+06	3.143404	3.138688	3.140476	3.14208	3.140092	1.00E+06	14378	15007	15017	14977	15738	1.00E+06	214.18%	188.63%	187.68%	187.31%	195.84%
1.00E+07	3.141964	3.141119	3.140475	3.141258	3.141078	1.00E+07	135963	150853	135801	143265	153833	1.00E+07	208.06%	187.26%	206.82%	202.82%	183.86%
1.00E+08	3.141778	3.141545	3.141671	3.141179	3.141445	1.00E+08	1515653	1363380	1409022	1397496	1430213	1.00E+08	186.74%	213.79%	201.17%	203.44%	198.42%
1.00E+09	3.141507	3.141701	3.14153	3.141589	3.141617	1.00E+09	13568218	13361771	13530002	13495157	13688096	1.00E+09	207.23%	209.80%	207.20%	207.84%	204.74%
1.00E+10	3.141596	3.14159	3.1416	3.141593	3.141588	1.00E+10	133652304	134022003	133904506	133340383	133718315	1.00E+10	209.87%	209.09%	209.21%	209.96%	209.62%
1.00E+11	*	*	*	*	*	1.00E+11	*	*	*	*	*	1.00E+11	*	*	*	*	*
1.00E+12	*	*	*	*	*	1.00E+12	*	*	*	*	*	1.00E+12	*	*	*	*	*

Benchmark

4 threads

Valor de Pi						Tempo de Execução						Speedup							
1		2		3		4		5		1		2		3		4		5	
1.00E+02	3.52	2.72	3.68	3.04	3.52	1.00E+02	162	150	151	151	153	1.00E+02	6.17%	6.00%	6.62%	5.96%	6.54%		
1.00E+03	3.296	3.264	3.072	3.04	3.2	1.00E+03	203	144	161	151	151	1.00E+03	17.24%	24.31%	22.98%	23.84%	23.18%		
1.00E+04	3.1648	3.12	3.1424	3.152	3.1408	1.00E+04	361	275	247	259	256	1.00E+04	79.50%	104.73%	116.60%	110.04%	112.11%		
1.00E+05	3.13536	3.14768	3.1472	3.1456	3.13792	1.00E+05	1480	1338	1339	1334	1336	1.00E+05	206.96%	208.59%	208.51%	211.24%	213.85%		
1.00E+06	3.1464	3.141104	3.137808	3.14456	3.136144	1.00E+06	12216	12376	12368	12713	12341	1.00E+06	252.09%	228.72%	227.88%	220.66%	249.74%		
1.00E+07	3.14375	3.141883	3.142301	3.142443	3.14173	1.00E+07	120271	120090	120436	120003	120377	1.00E+07	235.21%	235.24%	233.21%	242.13%	234.96%		
1.00E+08	3.141597	3.141739	3.142046	3.14216	3.142156	1.00E+08	1195526	1211219	1224043	1198886	1196745	1.00E+08	236.74%	240.65%	231.57%	237.14%	237.13%		
1.00E+09	3.141526	3.141511	3.141622	3.14161	3.141606	1.00E+09	11995083	11952330	11950297	11965284	11952279	1.00E+09	234.41%	234.55%	234.59%	234.41%	234.48%		
1.00E+10	3.14159	3.141602	3.141587	3.141599	3.141597	1.00E+10	119524543	119656347	119993341	119593283	119774364	1.00E+10	234.68%	234.19%	233.46%	234.10%	234.03%		
1.00E+11	3.141593	3.141592	3.141593	3.141592	3.141593	1.00E+11	1201008146	1202551849	1203193342	1200559938	1203574797	1.00E+11	*	*	*	*	*		
1.00E+12	*	*	*	*	*	1.00E+12	*	*	*	*	*	1.00E+12	*	*	*	*	*		

5 threads

Valor de Pi						Tempo de Execução						Speedup							
1		2		3		4		5		1		2		3		4		5	
1.00E+02	3.4	3.2	3.2	2.8	3.2	1.00E+02	153	161	167	149	171	1.00E+02	6.54%	5.59%	5.99%	6.04%	5.85%		
1.00E+03	3.24	3.24	3.04	3.16	3.2	1.00E+03	233	200	173	168	166	1.00E+03	15.02%	17.50%	21.39%	21.43%	21.08%		
1.00E+04	3.058	3.148	3.152	3.132	3.148	1.00E+04	322	293	294	293	295	1.00E+04	89.13%	98.29%	97.96%	97.27%	97.29%		
1.00E+05	3.1394	3.1404	3.1452	3.1426	3.1122	1.00E+05	1774	1640	1667	1644	1658	1.00E+05	172.66%	170.18%	167.49%	171.41%	172.32%		
1.00E+06	3.14678	3.14566	3.1371	3.13962	3.1383	1.00E+06	15318	15302	15402	15533	15347	1.00E+06	201.04%	184.99%	182.99%	180.60%	200.83%		
1.00E+07	3.1404	3.141944	3.14135	3.142294	3.14128	1.00E+07	130398	136801	143131	130657	137871	1.00E+07	216.94%	206.50%	196.23%	222.39%	205.15%		
1.00E+08	3.141935	3.141615	3.141298	3.141935	3.141739	1.00E+08	1468643	1319933	1356675	1346917	1331484	1.00E+08	192.72%	220.83%	208.93%	211.08%	213.13%		
1.00E+09	3.141581	3.141612	3.141557	3.141499	3.141579	1.00E+09	13623952	13597283	13567071	13568261	13604632	1.00E+09	206.38%	206.17%	206.64%	206.72%	206.00%		
1.00E+10	3.141582	3.141599	3.141592	3.141597	3.141594	1.00E+10	135174170	135995421	135535350	135857350	135590523	1.00E+10	207.51%	206.06%	206.69%	206.07%	206.73%		
1.00E+11	3.141593	3.141593	3.141593	3.141593	3.141592	1.00E+11	1357282993	1359368352	1357791326	1354537295	1357221225	1.00E+11	*	*	*	*	*		
1.00E+12	*	*	*	*	*	1.00E+12	*	*	*	*	*	1.00E+12	*	*	*	*	*		

6 threads

Valor de Pi						Tempo de Execução						Speedup							
1		2		3		4		5		1		2		3		4		5	
1.00E+02	3.24	3.2	3.24	2.92	2.76	1.00E+02	170	172	184	200	182	1.00E+02	5.88%	5.23%	5.43%	4.50%	5.49%		
1.00E+03	3.136	3.224	3.228	2.944	2.968	1.00E+03	224	193	195	237	185	1.00E+03	15.63%	18.13%	18.97%	15.19%	18.92%		
1.00E+04	3.1168	3.0612	3.174	3.1432	3.0944	1.00E+04	349	293	306	291	310	1.00E+04	82.23%	98.29%	94.12%	97.94%	92.58%		
1.00E+05	3.15088	3.16216	3.1554	3.11896	3.14768	1.00E+05	1770	1700	1700	1704	1480	1.00E+05	173.05%	164.18%	164.24%	165.38%	193.04%		
1.00E+06	3.136232	3.14406	3.13914	3.141488	3.13926	1.00E+06	13495	15599	13248	13735	13220	1.00E+06	228.20%	181.47%	212.74%	204.24%	233.14%		
1.00E+07	3.142504	3.142235	3.141805	3.142652	3.140067	1.00E+07	129743	136448	130435	134385	136975	1.00E+07	218.04%	207.03%	215.33%	216.22%	206.49%		
1.00E+08	3.141644	3.14115	3.141227	3.141702	3.141513	1.00E+08	1331668	1278803	1325363	1352629	1328453	1.00E+08	212.54%	227.93%	213.87%	210.19%	213.62%		
1.00E+09	3.141678	3.141699	3.141484	3.141662	3.141555	1.00E+09	13509233	13417546	13322456	13235895	13363284	1.00E+09	208.13%	208.93%	210.43%	211.91%	209.72%		
1.00E+10	3.141597	3.141583	3.141591	3.141603	3.141603	1.00E+10	133742811	134047003	134292618	134440907	133438725	1.00E+10	209.73%	209.05%	208.60%	208.24%	210.06%		
1.00E+11	3.141593	3.141593	3.141593	3.141594	3.141591	1.00E+11	1337651947	1336530016	1341097789	1335527054	1340819032	1.00E+11	*	*	*	*	*		
1.00E+12	*	*	*	*	*	1.00E+12	*	*	*	*	*	1.00E+12	*	*	*	*	*		