

Distribution	Communication Type	NP	Input World Size	Estimated Computation Time	Estimation Communication Time	Estimated Speedup	Actual Time	Actual Speedup	Efficiency
Serial	none	1	900	0.0140292	0	-	0.01403986202	-	-
Row	sync	9	900	0.0015588	0.0000160462	8.908298474	0.001606867478	8.737411278	0.9708234753
Row	sync	25	900	0.000561168	0.0000160462	24.30501537	0.0005892110658	23.82823887	0.953129555
Block	sync	9	900	0.0015588	0.000023175964	8.868149908	0.002269642489	6.185935491	0.6873261656
Block	sync	25	900	0.000561168	0.000021395644	24.08183234	0.0006012503688	23.35110755	0.9340443019
Row	async	9	900	0.0015588	0.0000066762	8.961618196	0.002275048075	0.2642802916	0.02936447684
Row	async	25	900	0.000561168	0.0000066762	24.70607255	0.0008207536913	17.10606017	0.6842424066
Block	async	9	900	0.0015588	0.000004435964	8.974460877	0.001616853613	8.683446611	0.9648274012
Block	async	25	900	0.000561168	0.000002655644	24.88224846	0.0005731589801	24.49558065	0.9798232261
Serial	none	1	2700	0.1262628	0	-	0.1267200522	-	-
Row	sync	9	2700	0.0140292	0.0000293986	8.981179675	0.01444039086	8.775389359	0.9750432621
Row	sync	25	2700	0.005050512	0.0000293986	24.8553193	0.005199314016	24.37245603	0.9748982412
Block	sync	9	2700	0.0140292	0.000032077564	8.979468574	0.01446238505	8.762043865	0.9735604295
Block	sync	25	2700	0.005050512	0.000026736604	24.86835092	0.005277026535	24.01353327	0.9605413306
Row	async	9	2700	0.0140292	0.0000200286	8.987169587	0.03049824951	4.15499428	0.4616660311
Row	async	25	2700	0.005050512	0.0000200286	24.90125017	0.01100568915	11.51404974	0.4605619896
Block	async	9	2700	0.0140292	0.000013337564	8.991451824	0.01712030573	7.40174003	0.8224155588
Block	async	25	2700	0.005050512	0.000007996604	24.96047944	0.00510036826	24.84527505	0.9938110019
Serial	none	1	5400	0.5050512	0	-	0.5003820885	-	-
Row	sync	9	5400	0.0561168	0.0000494272	8.992079853	0.05788604434	8.644261223	0.9604734692
Row	sync	25	5400	0.020202048	0.0000494272	24.93898321	0.02082800148	24.0244888	0.9609795521
Block	sync	9	5400	0.0561168	0.000045429964	8.992719846	0.05795468548	8.634023018	0.9593358909
Block	sync	25	5400	0.020202048	0.000034748044	24.95707319	0.02087042279	23.97565653	0.9590262612
Row	async	9	5400	0.0561168	0.0000400572	8.993580218	0.1017368341	4.918396495	0.5464884994
Row	async	25	5400	0.020202048	0.0000400572	24.95052738	0.03770358195	13.2714735	0.5308589398
Block	async	9	5400	0.0561168	0.000026689964	8.995721504	0.05618877831	8.905374053	0.9894860059
Block	async	25	5400	0.020202048	0.000016008044	24.98020576	0.02003748288	24.97230273	0.9988921093
Serial	none	1	9000	1.40292	0	-	1.390032655	-	-
Row	sync	9	9000	0.15588	0.000076132	8.995606534	0.1605425933	8.658341858	0.9620379843
Row	sync	25	9000	0.0561168	0.000076132	24.96612919	0.05783255178	24.03547159	0.9614188636
Block	sync	9	9000	0.15588	0.000063233164	8.996350605	0.1618214723	8.589914771	0.9544349746
Block	sync	25	9000	0.0561168	0.000045429964	24.97977735	0.05793522534	23.99287562	0.9597150247
Row	async	9	9000	0.15588	0.000066762	8.996147031	0.3115287974	4.461971628	0.4957746253
Row	async	25	9000	0.0561168	0.000066762	24.97029291	0.1149880169	12.08850011	0.4835400045
Block	async	9	9000	0.15588	0.000044493164	8.997431844	0.1607266602	8.648426178	0.960936242
Block	async	25	9000	0.0561168	0.000026689964	24.98811529	0.05573969975	24.93792865	0.997517146
Serial	none	1	12600	2.7497232	0	-	2.833855488	-	-
Row	sync	9	12600	0.3055248	0.0001028368	8.996971703	0.3056398251	9.271879038	1.030208782
Row	sync	25	12600	0.109988928	0.0001028368	24.97664748	0.1570677382	18.04225056	0.7216900223
Block	sync	9	12600	0.3055248	0.000081036364	8.997613503	0.315937177	8.969680348	0.9966311498
Block	sync	25	12600	0.109988928	0.000056111884	24.98725252	0.1138042295	24.90114383	0.9960457532
Row	async	9	12600	0.3055248	0.0000934668	8.997247543	0.628511613	4.508835524	0.5009817248
Row	async	25	12600	0.109988928	0.0000934668	24.97877345	0.2205768469	12.84747483	0.5138989931

Block	async	9	12600	0.3055248	0.000062296364	8.998165278	0.4874276605	5.813899616	0.6459888462
Block	async	25	12600	0.109988928	0.000037371884	24.99150842	0.1092607999	25.93661671	1.037464668
Serial	none	1	900	0.0140292	0	-	0.01386801092	-	-
Row	async-overlapped	9	900	0.0015588	0.0000066762	8.961618196	0.002268790483	6.112512822	0.6791680913
Row	async-overlapped	25	900	0.000561168	0.0000066762	24.70607255	0.0007151177934	19.3926246	0.7757049841
Block	async-overlapped	9	900	0.0015588	0.0000066762	8.961618196	0.001571201347	8.826374123	0.9807082359
Block	async-overlapped	25	900	0.000561168	0.0000066762	24.70607255	0.0005913935863	23.44971477	0.9379885908
Serial	none	1	2700	0.1262628	0	-	0.1250137977	-	-
Row	async-overlapped	9	2700	0.0140292	0.0000200286	8.987169587	0.0242733031	5.150258997	0.5722509997
Row	async-overlapped	25	2700	0.005050512	0.0000200286	24.90125017	0.005188824963	24.09289166	0.9637156665
Block	async-overlapped	9	2700	0.0140292	0.0000200286	8.987169587	0.01761688865	7.096247252	0.7884719168
Block	async-overlapped	25	2700	0.005050512	0.0000200286	24.90125017	0.005009631401	24.95468981	0.9981875926
Serial	none	1	5400	0.5050512	0	-	0.5004488457	-	-
Row	async-overlapped	9	5400	0.0561168	0.0000400572	8.993580218	0.05779953519	8.658354156	0.9620393506
Row	async-overlapped	25	5400	0.020202048	0.0000400572	24.95052738	0.01989232658	25.15788406	1.006315362
Block	async-overlapped	9	5400	0.0561168	0.0000400572	8.993580218	0.05599607686	8.937212637	0.9930236263
Block	async-overlapped	25	5400	0.020202048	0.0000400572	24.95052738	0.01996542648	25.06577289	1.002630916
Serial	none	1	9000	1.40292	0	-	1.40637909	-	-
Row	async-overlapped	9	9000	0.15588	0.000066762	8.996147031	0.1608501652	8.743410915	0.9714901016
Row	async-overlapped	25	9000	0.0561168	0.000066762	24.97029291	0.05804391553	24.22956958	0.9691827832
Block	async-overlapped	9	9000	0.15588	0.000066762	8.996147031	0.1607492257	8.748901177	0.9721001308
Block	async-overlapped	25	9000	0.0561168	0.000066762	24.97029291	0.056245958	25.00409167	1.000163667
Serial	none	1	12600	2.7497232	0	-\	2.722661213	-	-
Row	async-overlapped	9	12600	0.3055248	0.0000934668	8.997247543	0.3061578983	8.89299681	0.9881107567
Row	async-overlapped	25	12600	0.109988928	0.0000934668	24.97877345	0.1106437369	24.60745895	0.9842983579
Block	async-overlapped	9	12600	0.3055248	0.0000934668	8.997247543	0.3156058796	8.626775954	0.9585306616
Block	async-overlapped	25	12600	0.109988928	0.0000934668	24.97877345	0.1089494404	24.99013491	0.9996053964
ta	0.00000001732								
ts	0.000004685								
tc	0.000000003709								