

Trial	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Average	Speedup			
N = 4; P = 1	0.012	0.008	0.008	0.009	0.009	0.008	0.008	0.009	0.010	0.009	0.012	0.008	0.008	0.009	0.009	0.008	0.008	0.009	0.010	0.009	0.009				
N = 4; P = 8	0.011	0.009	0.008	0.010	0.008	0.010	0.009	0.008	0.009	0.010	0.009	0.013	0.008	0.008	0.010	0.010	0.009	0.009	0.008	0.009	0.009	0.973			
N = 4; P = 16	0.010	0.008	0.009	0.009	0.008	0.009	0.010	0.008	0.008	0.008	0.009	0.009	0.013	0.009	0.010	0.010	0.008	0.008	0.008	0.009	0.009	1.000			
N = 64; P = 1	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.010	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.010	0.011				
N = 64; P = 8	0.023	0.020	0.022	0.017	0.022	0.021	0.021	0.019	0.072	0.017	0.021	0.019	0.021	0.020	0.070	0.023	0.017	0.018	0.018	0.020	0.025	0.419			
N = 64; P = 16	0.032	0.026	0.027	0.029	0.030	0.028	0.027	0.027	0.036	0.028	0.041	0.028	0.106	0.025	0.028	0.028	0.057	0.027	0.032	0.029	0.035	0.304			
N = 256; P = 1	0.104	0.092	0.098	0.097	0.096	0.120	0.103	0.095	0.093	0.179	0.104	0.092	0.098	0.097	0.096	0.120	0.103	0.095	0.093	0.179	0.108				
N = 256; P = 8	0.078	0.091	0.078	0.076	0.086	0.078	0.082	0.080	0.078	0.079	0.077	0.084	0.087	0.082	0.084	0.082	0.078	0.088	0.083	0.301	0.093	1.163			
N = 256; P = 16	0.115	0.105	0.111	0.103	0.104	0.107	0.100	0.107	0.096	0.102	0.100	0.109	0.109	0.102	0.125	0.104	0.097	0.526	0.100	0.106	0.126	0.852			
N = 1024; P = 1	5.670	5.689	5.609	5.898	5.540	5.672	5.681	5.281	5.262	5.943	5.670	5.689	5.609	5.898	5.540	5.672	5.681	5.281	5.262	5.943	5.625				
N = 1024; P = 8	1.912	2.513	2.681	3.476	2.469	2.983	3.698	3.332	3.251	3.032	2.421	2.412	2.505	2.322	2.343	2.287	2.381	2.849	3.022	3.195	2.754	2.042			
N = 1024; P = 16	1.907	1.667	2.026	1.625	1.858	1.887	1.839	1.769	1.749	1.678	2.002	2.272	2.510	2.801	2.660	2.815	2.156	1.734	1.881	1.944	2.039	2.758			
N = 2048; P = 1	47.162	43.713	37.905	38.008	38.013	38.024	37.898	37.839	37.935	44.978	47.162	43.713	37.905	38.008	38.013	38.024	37.898	37.839	37.935	44.978	40.148				
N = 2048; P = 8	12.878	11.746	12.132	12.999	12.074	10.873	11.382	12.172	16.777	13.618	12.942	13.620	24.779	26.672	37.802	27.845	25.843	29.252	34.964	31.460	19.592	2.049			
N = 2048; P = 16	21.027	12.101	14.890	7.419	7.663	7.272	7.261	9.535	9.009	7.987	11.616	11.474	10.863	14.545	16.688	15.931	15.389	14.685	14.594	14.879	12.241	3.280			
N = 4096; P = 1	230.050	230.360	229.610	230.780	229.870	230.310	230.900	239.950	238.760	231.190	230.560	230.440	229.980	229.890	232.450	231.330	228.320	230.450	229.330	230.120	231.233				
N = 4096; P = 8	95.010	98.710	102.930	102.660	102.750	103.100	99.800	98.350	97.560	97.030	97.510	97.690	97.570	97.380	98.010	97.390	97.350	96.890	96.700	96.830	98.561	2.346			
N = 4096; P = 16	51.634	49.542	44.060	42.752	45.570	43.509	43.151	41.077	43.244	41.088	41.166	40.850	41.645	42.219	43.873	42.283	40.802	41.748	44.052	43.539	43.390	5.329			
Runtime				Speedup																					
N	P = 1	P = 8	P = 16		N	P = 8	P = 16																		
4	0.009	0.009	0.009		4	0.973	1.000																		
64	0.011	0.025	0.035		64	0.419	0.304																		
256	0.108	0.093	0.126		256	1.163	0.852																		
1024	5.625	2.754	2.039		1024	2.042	2.758																		
2048	40.148	19.592	12.241		2048	2.049	3.280																		
4096	231.233	98.561	43.390		4096	2.346	5.329																		

