Random(4000000,2)

# of cores	1	2	3	4	5	6	7	8
serial	1.73	—	—	—	—	—	—	—
serial_call	1.49 (1.16)	—	—	—	—	—	—	—
serial_call_cas	1.82 (0.951)	—	—	—	—	—	—	—
serial_call_membar	1.78 (0.972)	—	—	—	—	—	—	—
Cilk_cas	2.21 (0.783)	1.32 (1.31)	0.890 (1.94)	0.738 (2.34)	0.637 (2.72)	0.599 (2.89)	0.541 (3.20)	0.520 (3.33)
Cilk_membar	2.19 (0.790)	1.31 (1.32)	0.873 (1.98)	0.735 (2.35)	0.635 (2.72)	0.602 (2.87)	0.545 (3.17)	0.519 (3.33)
Cilk_S_cas	2.56 (0.676)	1.79 (0.966)	2.09 (0.828)	2.30 (0.752)	2.10 (0.824)	1.96 (0.883)	1.90 (0.911)	1.74 (0.994)
Cilk_S_cas_membar	2.55 (0.678)	1.82 (0.951)	2.04 (0.848)	2.30 (0.752)	2.19 (0.790)	1.98 (0.874)	1.92 (0.901)	1.84 (0.940)
Tascell_cas	1.85 (0.935)	1.67 (1.04)	0.957 (1.81)	0.821 (2.11)	0.649 (2.67)	0.630 (2.75)	0.568 (3.05)	0.532 (3.25)
Tascell_membar	1.82 (0.951)	1.64 (1.05)	0.937 (1.85)	0.810 (2.14)	0.666 (2.60)	0.588 (2.94)	0.555 (3.12)	0.547 (3.16)

Hypercube(20)

# of cores	1	2	3	4	5	6	7	8
serial	0.170	—	—	—	—	—	—	—
serial_call	0.277 (0.614)	—	—	—	—	—	—	—
serial_call_cas	0.354 (0.480)	—	—	—	—	—	—	—
serial_call_membar	0.326 (0.521)	—	—	—	—	—	—	—
Cilk_cas	0.479 (0.355)	0.279 (0.609)	0.238 (0.714)	0.208 (0.817)	0.185 (0.919)	0.175 (0.971)	0.164 (1.04)	0.161 (1.06)
Cilk_membar	0.455 (0.374)	0.263 (0.646)	0.227 (0.749)	0.205 (0.829)	0.177 (0.960)	0.159 (1.07)	0.160 (1.06)	0.167 (1.02)
Cilk_S_cas	0.798 (0.213)	0.635 (0.268)	0.800 (0.212)	0.892 (0.191)	0.710 (0.239)	0.627 (0.271)	0.674 (0.252)	0.608 (0.280)
Cilk_S_cas_membar	0.779 (0.218)	0.630 (0.270)	0.746 (0.228)	0.815 (0.209)	0.750 (0.227)	0.663 (0.256)	0.648 (0.262)	0.612 (0.278)
Tascell_cas	0.380 (0.447)	0.267 (0.637)	0.201 (0.846)	0.191 (0.890)	0.171 (0.994)	0.160 (1.06)	0.151 (1.13)	0.146 (1.16)
Tascell_membar	0.358 (0.475)	0.244 (0.697)	0.186 (0.914)	0.180 (0.944)	0.162 (1.05)	0.148 (1.15)	0.142 (1.20)	0.140 (1.21)

2D-torus(2000)

# of cores	1	2	3	4	5	6	7	8
serial	0.580	—	—	—	—	—	—	—
serial_call	0.493	—	—	—	—	—	—	—
	(1.18)							
serial_call_cas	0.533	—	—	—	—	—	—	—
	(1.09)							
serial_call_membar	0.525	—	—	—	—	—	—	—
	(1.10)							
Cilk_cas	0.594	0.387	0.260	0.223	0.205	0.194	0.181	0.175
	(0.976)	(1.50)	(2.23)	(2.60)	(2.83)	(2.99)	(3.20)	(3.31)
Cilk_membar	0.583	0.378	0.253	0.218	0.198	0.191	0.180	0.172
	(0.995)	(1.53)	(2.29)	(2.66)	(2.93)	(3.04)	(3.22)	(3.37)
Cilk_S_cas	0.686	0.431	0.332	0.287	0.258	0.247	0.233	0.249
	(0.845)	(1.35)	(1.75)	(2.02)	(2.25)	(2.35)	(2.49)	(2.33)
Cilk_S_cas_membar	0.684	0.429	0.327	0.279	0.254	0.247	0.234	0.227
	(0.848)	(1.35)	(1.77)	(2.08)	(2.28)	(2.35)	(2.48)	(2.56)
Tascell_cas	0.552	0.367	0.248	0.222	0.199	0.192	0.181	0.174
	(1.05)	(1.58)	(2.34)	(2.61)	(2.91)	(3.02)	(3.20)	(3.33)
Tascell_membar	0.545	0.364	0.242	0.218	0.196	0.190	0.175	0.173
	(1.06)	(1.59)	(2.40)	(2.66)	(2.96)	(3.05)	(3.31)	(3.35)

Bintree(20)

# of cores	1	2	3	4	5	6	7	8
serial	0.558	—	—	—	—	—	—	—
serial_call	0.626	—	—	—	—	—	—	—
	(0.891)							
serial_call_cas	0.840	—	—	—	—	—	—	—
	(0.664)							
serial_call_membar	0.732	—	—	—	—	—	—	—
	(0.762)							
Cilk_cas	1.16	0.581	0.388	0.295	0.237	0.202	0.175	0.155
	(0.481)	(0.960)	(1.44)	(1.89)	(2.35)	(2.76)	(3.19)	(3.60)
Cilk_membar	1.04	0.542	0.356	0.271	0.221	0.187	0.163	0.147
	(0.537)	(1.03)	(1.57)	(2.06)	(2.52)	(2.98)	(3.42)	(3.80)
Cilk_S_cas	1.96	0.996	0.677	0.518	0.411	0.349	0.307	0.264
	(0.285)	(0.560)	(0.824)	(1.08)	(1.36)	(1.60)	(1.82)	(2.11)
Cilk_S_cas_membar	1.81	0.955	0.662	0.498	0.409	0.347	0.289	0.261
	(0.308)	(0.584)	(0.843)	(1.12)	(1.36)	(1.61)	(1.93)	(2.14)
Tascell_cas	0.953	0.495	0.370	0.313	0.251	0.225	0.195	0.178
	(0.586)	(1.13)	(1.51)	(1.78)	(2.22)	(2.48)	(2.86)	(3.13)
Tascell_membar	0.839	0.438	0.327	0.301	0.205	0.210	0.173	0.155
	(0.665)	(1.27)	(1.71)	(1.85)	(2.72)	(2.66)	(3.23)	(3.60)

Hypercube(21)

# of cores	1	2	3	4	5	6	7	8
serial	1.40	—	—	—	—	—	—	—
serial_call	1.18 (1.19)	—	—	—	—	—	—	—
serial_call_cas	1.26 (1.11)	—	—	—	—	—	—	—
serial_call_membar	1.25 (1.12)	—	—	—	—	—	—	—
Cilk_cas	1.38 (1.01)	0.905 (1.55)	0.591 (2.37)	0.513 (2.73)	0.459 (3.05)	0.450 (3.11)	0.418 (3.35)	0.407 (3.44)
Cilk_membar	1.36 (1.03)	0.892 (1.57)	0.582 (2.41)	0.498 (2.81)	0.456 (3.07)	0.446 (3.14)	0.412 (3.40)	0.399 (3.51)
Cilk_S_cas	1.53 (0.915)	0.979 (1.43)	0.730 (1.92)	0.632 (2.22)	0.579 (2.42)	0.532 (2.63)	0.532 (2.63)	0.517 (2.71)
Cilk_S_cas_membar	1.53 (0.915)	0.974 (1.44)	0.710 (1.97)	0.621 (2.25)	0.579 (2.42)	0.533 (2.63)	0.533 (2.63)	0.515 (2.72)
Tascell_cas	1.29 (1.09)	0.868 (1.61)	0.567 (2.47)	0.512 (2.73)	0.456 (3.07)	0.434 (3.23)	0.410 (3.41)	0.409 (3.42)
Tascell_membar	1.28 (1.09)	0.858 (1.63)	0.560 (2.50)	0.502 (2.79)	0.454 (3.08)	0.442 (3.17)	0.409 (3.42)	0.407 (3.44)