Random(4000000,2)

# of cores	1	2	3	4	5	6	7	8	16	32
serial	1.73	—	—	—	—	—	—	—	—	—
serial_call	1.49	—	—	—	—	—	—	—	—	—
serial_call_membar	1.78	—	—	—	—	—	—	—	—	—
Cilk_membar	2.22	1.33	0.887	0.756	0.648	0.611	0.551	0.526	0.654	0.605
Cilk_R_membar	2.18	1.31	0.887	0.731	0.638	0.599	0.533	0.521	0.654	0.605
Tascell_LWSC_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
Tascell_CLSC_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
Tascell_XCCL_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
Tascell_XCCC_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
serial_call_800	1.68	—	—	—	—	—	—	—	—	—
serial_call_membar_800	2.01	—	—	—	—	—	—	—	—	—
Cilk_membar_800	2.69	1.61	1.02	0.815	0.687	0.615	0.597	0.548	0.685	0.644
Cilk_R_membar_800	2.56	1.52	0.898	0.738	0.639	0.627	0.548	0.520	0.685	0.644
Tascell_LWSC_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644
Tascell_CLSC_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644
Tascell_XCCL_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644
Tascell_XCCC_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644

Hypercube(21)

# of cores	1	2	3	4	5	6	7	8	16	32
serial	1.73	—	—	—	—	—	—	—	—	—
serial_call	1.49	—	—	—	—	—	—	—	—	—
serial_call_membar	1.78	—	—	—	—	—	—	—	—	—
Cilk_membar	2.22	1.33	0.887	0.756	0.648	0.611	0.551	0.526	0.654	0.605
Cilk_R_membar	2.18	1.31	0.887	0.731	0.638	0.599	0.533	0.521	0.654	0.605
Tascell_LWSC_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
Tascell_CLSC_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
Tascell_XCCL_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
Tascell_XCCC_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
serial_call_800	1.68	—	—	—	—	—	—	—	—	—
serial_call_membar_800	2.01	—	—	—	—	—	—	—	—	—
Cilk_membar_800	2.69	1.61	1.02	0.815	0.687	0.615	0.597	0.548	0.685	0.644
Cilk_R_membar_800	2.56	1.52	0.898	0.738	0.639	0.627	0.548	0.520	0.685	0.644
Tascell_LWSC_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644
Tascell_CLSC_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644
Tascell_XCCL_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644
Tascell_XCCC_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644

2D-torus(2000)

# of cores	1	2	3	4	5	6	7	8	16	32
serial	1.73	—	—	—	—	—	—	—	—	—
serial_call	1.49	—	—	—	—	—	—	—	—	—
serial_call_membar	1.78	—	—	—	—	—	—	—	—	—
Cilk_membar	2.22	1.33	0.887	0.756	0.648	0.611	0.551	0.526	0.654	0.605
Cilk_R_membar	2.18	1.31	0.887	0.731	0.638	0.599	0.533	0.521	0.654	0.605
Tascell_LWSC_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
Tascell_CLSC_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
Tascell_XCCL_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
Tascell_XCCC_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
serial_call_800	1.68	—	—	—	—	—	—	—	—	—
serial_call_membar_800	2.01	—	—	—	—	—	—	—	—	—
Cilk_membar_800	2.69	1.61	1.02	0.815	0.687	0.615	0.597	0.548	0.685	0.644
Cilk_R_membar_800	2.56	1.52	0.898	0.738	0.639	0.627	0.548	0.520	0.685	0.644
Tascell_LWSC_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644
Tascell_CLSC_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644
Tascell_XCCL_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644
Tascell_XCCC_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644

Bintree(24)

# of cores	1	2	3	4	5	6	7	8	16	32
serial	1.73	—	—	—	—	—	—	—	—	—
serial_call	1.49	—	—	—	—	—	—	—	—	—
serial_call_membar	1.78	—	—	—	—	—	—	—	—	—
Cilk_membar	2.22	1.33	0.887	0.756	0.648	0.611	0.551	0.526	0.654	0.605
Cilk_R_membar	2.18	1.31	0.887	0.731	0.638	0.599	0.533	0.521	0.654	0.605
Tascell_LWSC_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
Tascell_CLSC_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
Tascell_XCCL_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
Tascell_XCCC_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547	0.654	0.605
serial_call_800	1.68	—	—	—	—	—	—	—	—	—
serial_call_membar_800	2.01	—	—	—	—	—	—	—	—	—
Cilk_membar_800	2.69	1.61	1.02	0.815	0.687	0.615	0.597	0.548	0.685	0.644
Cilk_R_membar_800	2.56	1.52	0.898	0.738	0.639	0.627	0.548	0.520	0.685	0.644
Tascell_LWSC_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644
Tascell_CLSC_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644
Tascell_XCCL_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644
Tascell_XCCC_membar_800	2.07	1.29	0.938	0.699	0.630	0.594	0.544	0.495	0.685	0.644