$\begin{array}{c} \operatorname{Random}(4000000\\ \# \ \text{of cores} \end{array}$	(2) 1	2	3	4	5	6	7	8
serial	1.73						<u>'</u>	
serial_call	1.49							
Serial_Can	(1.16)							
serial_call_cas	1.82							
berrari_earr_ear	(0.951)							
serial_call_membar	1.78							
	(0.972)							
Cilk_cas	2.56	1.79	2.09	2.30	2.10	1.96	1.90	1.74
	(0.676)	(0.966)	(0.828)	(0.752)	(0.824)	(0.883)	(0.911)	(0.994)
Cilk_membar	2.55	1.82	2.04	2.30	2.19	1.98	1.92	1.84
	(0.678)	(0.951)	(0.848)	(0.752)	(0.790)	(0.874)	(0.901)	(0.940)
Cilk_R_cas	2.21	1.32	0.890	0.738	0.637	0.599	0.541	0.520
	(0.783)	(1.31)	(1.94)	(2.34)	(2.72)	(2.89)	(3.20)	(3.33)
Cilk_R_membar	2.19	1.31	0.873	0.735	0.635	0.602	0.545	0.519
	(0.790)	(1.32)	(1.98)	(2.35)	(2.72)	(2.87)	(3.17)	(3.33)
Tascell_cas	1.85	1.67	0.957	0.821	0.649	0.630	0.568	0.532
	(0.935)	(1.04)	(1.81)	(2.11)	(2.67)	(2.75)	(3.05)	(3.25)
Tascell_membar	1.82	1.64	0.937	0.810	0.666	0.588	0.555	0.547
	(0.951)	(1.05)	(1.85)	(2.14)	(2.60)	(2.94)	(3.12)	(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	0.798	0.635	0.800	0.892	0.710	0.627	0.674	0.608
	(0.213)	(0.268)	(0.212)	(0.191)	(0.239)	(0.271)	(0.252)	(0.280)
Cilk_membar	0.779	0.630	0.746	0.815	0.750	0.663	0.648	0.612
	(0.218)	(0.270)	(0.228)	(0.209)	(0.227)	(0.256)	(0.262)	(0.278)
Cilk_R_cas	0.479	0.279	0.238	0.208	0.185	0.175	0.164	0.161
	(0.355)	(0.609)	(0.714)	(0.817)	(0.919)	(0.971)	(1.04)	(1.06)
Cilk_R_membar	0.455	0.263	0.227	0.205	0.177	0.159	0.160	0.167
	(0.374)	(0.646)	(0.749)	(0.829)	(0.960)	(1.07)	(1.06)	(1.02)
$Tascell\_cas$	0.380	0.267	0.201	0.191	0.171	0.160	0.151	0.146
	(0.447)	(0.637)	(0.846)	(0.890)	(0.994)	(1.06)	(1.13)	(1.16)
	0.050	0.011	0 100	0.100	0.160	0 1 4 0	0.149	0.140
$Tascell\_membar$	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 $(1.20)$	(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	0.686	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_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)
Cilk_R_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_R_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)
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	4   5	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	1.96	0.996	0.67	7 0.518	8 0.411	0.349	9 0.307	0.264
	(0.285)	(0.560)	(0.824)	) (1.08)	(1.36)	(1.60)	)   (1.82)	(2.11)
Cilk_membar	1.81	0.955	0.66	2 0.498	8 0.409	0.34	7 0.289	0.261
	(0.308)	(0.584)	(0.843)	) (1.12	(1.36)	(1.61	)   (1.93)	(2.14)
Cilk_R_cas	1.16	0.581	0.38	8 0.29	5 0.237	7 0.20	$\frac{1}{2}$ 0.175	0.155
	(0.481)	(0.960)	(1.44	) (1.89	(2.35)	(2.76)	) (3.19)	(3.60)
Cilk_R_membar	1.04	0.542	0.35	/			/ / /	/
Onk_rt_membar	1.01				\	(0.00	\ \ (0.40)	(3.80)
Clik_it_lileliibai	(0.537)	(1.03)	(1.57)	)   (2.06)	(2.52)	(2.98)	$) \mid (3.42)$	(3.60)
Tascell_cas			(1.57)			, ,		
	(0.537)	(1.03)		0.31	3 0.251	0.22	0.195	0.178
	(0.537) $0.953$	(1.03) $0.495$	0.37	0  0.313 (1.78)	$ \begin{array}{c c}     \hline     3 & 0.251 \\     \hline     ) & (2.22) \end{array} $	0.228 $(2.48)$	$ \begin{array}{c c} \hline 5 & 0.195 \\ ) & (2.86) \end{array} $	0.178 (3.13)
Tascell_cas	(0.537) 0.953 (0.586)	(1.03) 0.495 (1.13)	0.37 (1.51	0 0.313 ) (1.78 7 0.303	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.225 0 (2.48 5 0.216	$ \begin{array}{c cccc} 5 & 0.195 \\ 0 & (2.86) \\ 0 & 0.173 \end{array} $	0.178 (3.13) 0.155

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	1.53	0.979	0.730	0.632	0.579	0.532	0.532	0.517
	(0.915)	(1.43)	(1.92)	(2.22)	(2.42)	(2.63)	(2.63)	(2.71)
Cilk_membar	1.53	0.974	0.710	0.621	0.579	0.533	0.533	0.515
	(0.915)	(1.44)	(1.97)	(2.25)	(2.42)	(2.63)	(2.63)	(2.72)
Cilk_R_cas	1.38	0.905	0.591	0.513	0.459	0.450	0.418	0.407
	(1.01)	(1.55)	(2.37)	(2.73)	(3.05)	(3.11)	(3.35)	(3.44)
Cilk_R_membar	1.36	0.892	0.582	0.498	0.456	0.446	0.412	0.399
	(1.03)	(1.57)	(2.41)	(2.81)	(3.07)	(3.14)	(3.40)	(3.51)
Tascell_cas	1.29	0.868	0.567	0.512	0.456	0.434	0.410	0.409
	(1.09)	(1.61)	(2.47)	(2.73)	(3.07)	(3.23)	(3.41)	(3.42)
Tascell_membar	1.28	0.858	0.560	0.502	0.454	0.442	0.409	0.407
	(1.09)	(1.63)	(2.50)	(2.79)	(3.08)	(3.17)	(3.42)	(3.44)