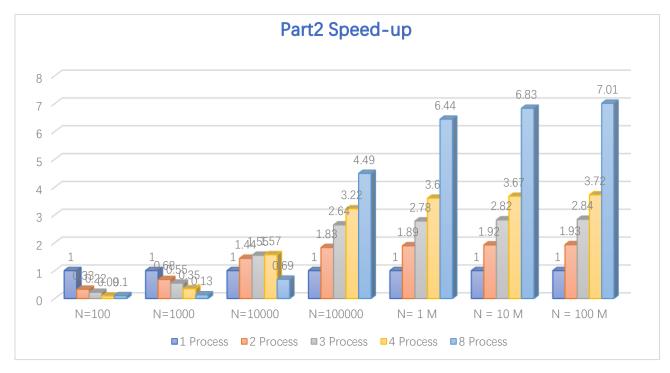
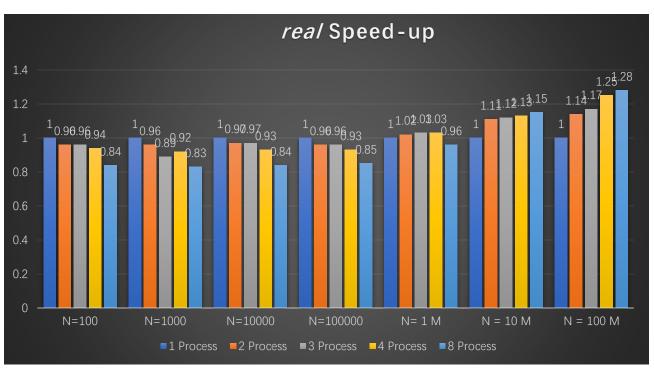
Parallel Computing

Lab1 Report Name: Yukun,Jiang (jy2363)





Notice: All the data graphs drawn above are created by taking an average of 3 experiments. Namely for each run-time data point, I run it three times on crunchy3 and record it then take its average. The detailed data table is provided below for easy reference.

a=3, b=5, c=11	N=100	N=1000	N=10000	N=100000	N=1 M	N = 10M	N=100M
refcheckdiv	0/0/0	0/0/0	0/0/0	0/0/0	0.03/0.03/0.03	0.37/0.37/0.37	4.04/4.02/4.03
	0.004/0.004/0.004	0.004/0.003/0.004	0/012/0.006/0.005	0.025/0.018/0.018	0.164/0.160/0.160	1.661/1.694/1.673	16.459/16.436/16.684
Мрі 1р	0.000019/0.000017/0. 000017	0.000048/0.000047/0.0 00047	0.000377/0.000361/0. 000363	0.003825/0.003805/0. 003813	0.04083/0.04080/0.04 0938	0.43951/0.4394/0.440 98	4.74725/4.739105/4.7 2571
	0.314/0.305/0.304	0.308/0.302/0.303	0.306/0.306/0.318	0.323/0.328/0.320	0.503/0.490/0.486	2.244/2.256/2.237	20.089/20.385/19.923
Мрі 2р	0.000054/0.000048/0. 000059	0.000064/0.000068/0.0 00077	0.000242/0.000260/0. 000261	0.002119/0.002063/0. 002071	0.021546/0.021652/0. 021656	0.22941/0.22892/0.22 926	2.45507/2.45044/2.44 645
	0.321/0.321/0.320	0.316/0.320/0.316	0.324/0.319/0.319	0.346/0.335/0.333	0.487/0.481/0.479	2.04/2.034/2.026	18.046/17.321/17.676
Мрі Зр	0.000096/0.000082/0. 000064	0.000104/0.000067/0.0 00087	0.000242/0.000213/0. 000254	0.00145/0.001432/0.0 01445	0.014724/0.014748/0. 014709	0.15603/0.15561/0.15 646	1.67326/1.66316/1.66 835
	0.320/0.320/0.319	0.392/0.320/0.319	0.324/0.319/0.319	0.336/0.333/0.346	0.486/0.473/0.475	2.042/1.988/1.964	17.381/17.352/17.063
Мрі 4р	0.000219/0.000170/0. 000177	0.000121/0.000141/0.0 00139	0.000228/0.000228/0. 00245	0.001207/0.001189/0. 001156	0.01133/0.01130/0.01 138	0.11986/0.11987/0.11 937	1.27451/1.27887/1.27 0943
	0.329/0.324/0.328	0.340/0.327/0.322	0.337/0.328/0.332	0.358/0.340/0.345	0.48/0.476/0.479	1.996/2.001/1.989	16.36/15.476/16.488
Мрі 8р	0.000184/0.000185/0. 000144	0.000267/0.000277/0.0 00524	0.000625/0.000560/0. 000399	0.000841/0.000875/0. 000831	0.00623/0.00632/0.00 648	0.06433/0.06438/0.06 443	0.67863/0.67799/0.67 865
	0.363/0.365/0.369	0.372/0.363/0.366	0.376/0.361/0.373	0.384/0.382/0.373	0.522/0.510/0.510	1.937/1.934/1.963	15.684/16.116/15.455