

Group								Execution Time of Student Single Core System when Running Naive SW (cycles)	Execution Time of Naive Single Core System Running Student SW (cycles)	Speedup of Single Core System Due to Hardware	Speedup of Single Core System Due to Software	Execution Time of Student Multi Core System Running Naive SW (cycles)	Execution Time of Naive Multi Core System Running Student SW (cycles)	Speedup of Multi Core System Due to Hardware	Speedup of Multi Core System Due to Software
	Execution Time of Single Core System (cycles)	Single Core CPI	Execution Time of Multi Core System (cycles)	Multi Core CPI	Speeup of Single Core System	Speeup of Multi Core System	Geo Mean								
Naive	58480	5.14	33601	6.39											
A1	8085	1.52	8967	1.87	7.23	3.75	5.21	17745	26640	3.30	2.20	13854	21906	2.43	1.53
B1	11080	1.81	14696	2.90	5.28	2.29	3.47	18766	32089	3.12	1.82	13536	33562	2.48	1.00
C1	12271	1.63	23870	3.39	4.77	1.41	2.59	21456	36744	2.73	1.59	17604	41557	1.91	0.81
C2	15364	1.57	19074	2.23	3.81	1.76	2.59	failed	50825	failed	1.15	14124	42534	2.38	0.79
C3	17892	1.83	19201	2.69	3.27	1.75	2.39	19570	50822	2.99	1.15	13280	45568	2.53	0.74
C4	21090	2.60	16572	3.18	2.77	2.03	2.37	32602	39163	1.79	1.49	20179	28333	1.67	1.19
C5	20399	1.86	18568	2.76	2.87	1.81	2.28	23810	53623	2.46	1.09	16742	36601	2.01	0.92
D1	32432	5.28	26976	6.30	1.80	1.25	1.50	58480	32432	1.00	1.80	31858	28687	1.05	1.17
D2	37369	5.30	27526	6.89	1.56	1.22	1.38	58480	37369	1.00	1.56	failed	29061	failed	1.16
D3	32573	5.30	32313	6.95	1.80	1.04	1.37	58498	32448	1.00	1.80	34715	30977	0.97	1.08
D4	35736	5.10	31022	6.30	1.64	1.08	1.33	58525	35733	1.00	1.64	31891	32591	1.05	1.03
D5	32148	5.24	35080	6.32	1.82	0.96	1.32	58480	32148	1.00	1.82	31901	37086	1.05	0.91
D6	32739	5.20	37041	6.71	1.79	0.91	1.27	failed	32736	failed	1.79	failed	36638	failed	0.92
D7	43978	2.69	28063	4.24	1.33	1.20	1.26	35344	81497	1.65	0.72	27459	37359	1.22	0.90
D8	42315	5.20	31328	6.27	1.38	1.07	1.22	58480	42315	1.00	1.38	34577	31442	0.97	1.07
D9	37540	5.20	37736	6.75	1.56	0.89	1.18	58480	37540	1.00	1.56	32390	39083	1.04	0.86
D10	33424	5.22	42588	7.16	1.75	0.79	1.17	58480	33424	1.00	1.75	36638	39070	0.92	0.86
D11	36414	5.34	39894	6.87	1.61	0.84	1.16	59683	35622	0.98	1.64	34436	38856	0.98	0.86
D12	36382	5.27	40253	6.78	1.61	0.83	1.16	58525	36364	1.00	1.61	33647	39565	1.00	0.85
D13	45547	5.19	34025	5.97	1.28	0.99	1.13	58480	45547	1.00	1.28	31763	35415	1.06	0.95
D14	55379	5.04	28102	5.91	1.06	1.20	1.12	58480	55379	1.00	1.06	33601	28102	1.00	1.20
D15	47005	5.35	34777	6.81	1.24	0.97	1.10	60892	44937	0.96	1.30	34251	34414	0.98	0.98
D16	44937	5.11	38573	6.86	1.30	0.87	1.06	58480	44937	1.00	1.30	33601	38573	1.00	0.87
D17	50844	5.19	35106	6.37	1.15	0.96	1.05	58519	50817	1.00	1.15	31790	36930	1.06	0.91
D18	51080	5.06	39425	6.05	1.14	0.85	0.99	58438	51080	1.00	1.14	32531	41332	1.03	0.81
D19	33314	5.24	76751	6.62	1.76	0.44	0.88	failed	33314	failed	1.76	failed	78884	failed	0.43
D20	68031	4.91	39735	6.33	0.86	0.85	0.85	58525	67953	1.00	0.86	31809	41401	1.06	0.81
D21	46953	5.06	64938	6.17	1.25	0.52	0.80	57763	46953	1.01	1.25	31763	68225	1.06	0.49
D22	51018	5.20	68392	6.97	1.15	0.49	0.75	58480	51018	1.00	1.15	failed	71935	failed	0.47
D23	117877	4.84	34897	6.29	0.50	0.96	0.69	59278	117719	0.99	0.50	33785	34715	0.99	0.97
D24	49767	5.02	96874	7.35	1.18	0.35	0.64	failed	49719	failed	1.18	failed	96380	failed	0.35
D25	83847	5.15	61001	7.11	0.70	0.55	0.62	58480	83847	1.00	0.70	36581	56535	0.92	0.59
D26	82058	5.11	65771	5.86	0.71	0.51	0.60	58504	81917	1.00	0.71	33439	65784	1.00	0.51
D27	97625	5.17	57348	6.43	0.60	0.59	0.59	58525	97085	1.00	0.60	31891	58816	1.05	0.57
D28	166816	5.57	38796	7.01	0.35	0.87	0.55	58480	166816	1.00	0.35	failed	38796	failed	0.87
D29	168181	5.53	39806	7.02	0.35	0.84	0.54	58624	169177	1.00	0.35	33639	39735	1.00	0.85
D30	32722	5.22	326038	7.53	1.79	0.10	0.43	58480	32722	1.00	1.79	31901	345821	1.05	0.10
D31	269333	5.77	46955	6.35	0.22	0.72	0.39	58480	269333	1.00	0.22	33600	46914	1.00	0.72
D32	83183	5.12	161836	6.18	0.70	0.21	0.38	58525	82907	1.00	0.71	31855	167866	1.05	0.20
D33	289641	5.76	53270	7.00	0.20	0.63	0.36	58480	289641	1.00	0.20	33193	54558	1.01	0.62
D34	39078	5.22	failed	failed	1.50	failed	failed	58480	39078	1.00	1.50	failed	98271	failed	0.34
D35	41653	2.05	failed	failed	1.40	failed	failed	18110	109457	3.23	0.53	failed	49756	failed	0.68
D36	208346	5.78	failed	failed	0.28	failed	failed	58480	208346	1.00	0.28	failed	254042	failed	0.13

