Table 1:- Configuration Table

	Table 1 Configuration fault						
	S.No	L1_i (KiB)	L1_d (KiB)	L2 (MiB)	L1_i Assoc	L1_d Assoc	L2 Assoc
C 1	1	8	16	2	2	2	4
	2	16	32	2	2	2	4
C2	1	32	64	2	2	2	4
	2	64	128	2	2	2	4
C3	1	128	256	4	2	2	4
	2	256	512	4	2	2	4
C4	1	8	16	2	4	4	8
	2	16	32	2	4	4	8
C5	1	32	64	4	4	4	8
	2	64	128	4	4	4	8
C6	1	128	256	8	4	4	8
	2	256	512	8	4	4	8

Table 2:- Benchmark Table

Benchmark no.	Name	
B1	parest	
B2	povray	
В3	namd	
В4	omnetpp	
В5	xalancbmk	
В6	blender	
В7	sjeng	
В8	leela	
В9	cactus	
B10	lbm	

 Table 3:- Experiment Table

Experiment no.	Questions
E1	 a) Count the no.of hits and misses of the L1-I cache between "T1" and "T2" using fast forward with "F" instructions with maximum instructions "M", where T1 represents the start time of the clock cycle and T2 represents the end time of the clock cycle. b) Print hits per set and hits per way in the L1-I cache.
E2	 a) Count the no.of hits and misses of the L1-D cache between "T1" and "T2" using fast forward with "F" instructions with maximum instructions "M", where T1 represents the start time of the clock cycle and T2 represents the end time of the clock cycle. b) List the top 5 frequently accessed sets in the L1-D cache.
Е3	 a) Count the no.of hits and misses of the L1-I and L1-D cache between "T1" and "T2" using fast forward with "F" instructions with maximum instructions "M", where T1 represents the start time of the clock cycle and T2 represents the end time of the clock cycle. b) List the no.of evictions per set in the L1-I and L1-D cache.

Consider the number of CPUs is 1 and the memory size is 8GB for all experiments.

Group no.	Configuration	Benchmarks	Experiment no.	Parameters
1	C2	B2, B3	E2	F = 1000000 T1 = 3000000 T2 = 3250000 Max Insts = 10000000
2	C5	B7, B8	E1	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$
3	С3	B1, B6	E3	F = 1000000 $T1 = 5000000$ $T2 = 5500000$ $Max Insts = 10000000$
4	C6	B4, B5	E2	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$
5	C1	B9, B10	E1	F = 1000000 T1 = 5000000 T2 = 6000000 Max Insts = 10000000
6	C4	B7, B8	Е3	F = 1000000 T1 = 6000000 T2 = 7000000 Max Insts = 10000000
7	СЗ	B2, B9	E1	F = 1000000 T1 = 3250000 T2 = 3500000 Max Insts = 10000000
8	C5	B3, B7	E2	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$

9	C2	B5, B6	Е3	F = 1000000 $T1 = 6000000$ $T2 = 7000000$ $Max Insts = 10000000$
10	C1	B8, B10	E2	F = 1000000 $T1 = 6000000$ $T2 = 7000000$ $Max Insts = 10000000$
11	C6	B1, B7	E3	F = 1000000 $T1 = 5500000$ $T2 = 6000000$ $Max Insts = 10000000$
12	C4	B4, B9	E1	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$
13	C5	B2, B6	E3	F = 1000000 T1 = 3500000 T2 = 3750000 Max Insts = 10000000
14	C1	B3, B9	E1	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$
15	СЗ	B5, B7	E2	F = 1000000 T1 = 7000000 T2 = 8000000 Max Insts = 10000000
16	C2	B1, B4	E1	F = 1000000 $T1 = 6000000$ $T2 = 6500000$ $Max Insts = 10000000$
17	C6	B8, B10	E2	F = 1000000 T1 = 7000000 T2 = 8000000 Max Insts = 10000000

18	C4	B6, B7	E3	F = 1000000 T1 = 7000000 T2 = 8000000 Max Insts = 10000000
19	C5	B3, B10	E1	F = 1000000 $T1 = 8000000$ $T2 = 9000000$ $Max Insts = 10000000$
20	C1	B2, B5	E3	F = 1000000 $T1 = 3750000$ $T2 = 4000000$ $Max Insts = 10000000$
21	C3	B7, B8	E2	F = 1000000 $T1 = 8000000$ $T2 = 9000000$ $Max Insts = 10000000$
22	C6	B4, B6	E1	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$
23	C2	B9, B10	E3	F = 1000000 $T1 = 9000000$ $T2 = 10000000$ $Max Insts = 10000000$
24	C4	B1, B7	E2	F = 1000000 $T1 = 6500000$ $T2 = 7000000$ $Max Insts = 10000000$
25	C5	B2, B10	E1	F = 1000000 $T1 = 4000000$ $T2 = 4250000$ $Max Insts = 10000000$
26	СЗ	B3, B5	ЕЗ	F = 1000000 T1 = 8000000 T2 = 9000000 Max Insts = 10000000

27	C6	B7, B9	E2	F = 1000000 $T1 = 9000000$ $T2 = 10000000$ $Max Insts = 10000000$
28	C1	B4, B9	E1	F = 1000000 $T1 = 6000000$ $T2 = 7000000$ $Max Insts = 10000000$
29	C2	B6, B10	E3	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$
30	C4	B1, B8	E2	F = 1000000 $T1 = 7000000$ $T2 = 7500000$ $Max Insts = 10000000$
31	C2	B2, B3	E2	F = 1000000 $T1 = 3000000$ $T2 = 3250000$ $Max Insts = 10000000$
32	C5	B7, B8	E1	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$
33	C3	B1, B6	E3	F = 1000000 $T1 = 5000000$ $T2 = 5500000$ $Max Insts = 10000000$
34	C6	B4, B5	E2	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$
35	C1	B9, B10	E1	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$

36	C4	B7, B8	E3	F = 1000000 $T1 = 6000000$ $T2 = 7000000$ $Max Insts = 10000000$
37	C3	B2, B9	E1	F = 1000000 T1 = 3250000 T2 = 3500000 Max Insts = 10000000
38	C5	B3, B7	E2	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$
39	C2	B5, B6	E3	F = 1000000 $T1 = 6000000$ $T2 = 7000000$ $Max Insts = 10000000$
40	C1	B8, B10	E2	F = 1000000 $T1 = 6000000$ $T2 = 7000000$ $Max Insts = 10000000$
41	C6	B1, B7	Е3	F = 1000000 T1 = 5500000 T2 = 6000000 Max Insts = 10000000
42	C4	B4, B9	E1	F = 1000000 T1 = 5000000 T2 = 6000000 Max Insts = 10000000
43	C5	B2, B6	Е3	F = 1000000 T1 = 3500000 T2 = 3750000 Max Insts = 10000000
44	C1	B3, B9	E1	F = 1000000 T1 = 5000000 T2 = 6000000 Max Insts = 10000000

45	С3	B5, B7	E2	F = 1000000 $T1 = 7000000$ $T2 = 8000000$ $Max Insts = 10000000$
46	C2	B1, B4	E1	F = 1000000 $T1 = 6000000$ $T2 = 6500000$ $Max Insts = 10000000$
47	C6	B8, B10	E2	F = 1000000 $T1 = 7000000$ $T2 = 8000000$ $Max Insts = 10000000$
48	C4	B6, B7	E3	F = 1000000 $T1 = 7000000$ $T2 = 8000000$ $Max Insts = 10000000$
49	C5	B3, B10	E1	F = 1000000 $T1 = 8000000$ $T2 = 9000000$ $Max Insts = 10000000$
50	C1	B2, B5	E3	F = 1000000 $T1 = 3750000$ $T2 = 4000000$ $Max Insts = 10000000$
51	СЗ	B7, B8	E2	F = 1000000 $T1 = 8000000$ $T2 = 9000000$ $Max Insts = 10000000$
52	C6	B4, B6	E1	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$
53	C2	B9, B10	ЕЗ	F = 1000000 T1 = 9000000 T2 = 10000000 Max Insts = 10000000

54	C4	B1, B7	E2	F = 1000000 $T1 = 6500000$ $T2 = 7000000$ $Max Insts = 10000000$
55	C5	B2, B10	E1	F = 1000000 $T1 = 4000000$ $T2 = 4250000$ $Max Insts = 10000000$
56	C3	B3, B5	E3	F = 1000000 $T1 = 8000000$ $T2 = 9000000$ $Max Insts = 10000000$
57	C6	B7, B9	E2	F = 1000000 $T1 = 9000000$ $T2 = 10000000$ $Max Insts = 10000000$
58	C1	B4, B9	E1	F = 1000000 $T1 = 6000000$ $T2 = 7000000$ $Max Insts = 10000000$
59	C2	B6, B10	E3	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$
60	C4	B1, B8	E2	F = 1000000 $T1 = 7000000$ $T2 = 7500000$ $Max Insts = 10000000$
61	C5	B2, B10	E1	F = 1000000 $T1 = 4000000$ $T2 = 4250000$ $Max Insts = 10000000$
62	С3	B3, B5	Е3	F = 1000000 $T1 = 8000000$ $T2 = 9000000$ $Max Insts = 10000000$

63	C6	B7, B9	E2	F = 1000000 $T1 = 9000000$ $T2 = 10000000$ $Max Insts = 10000000$
64	C1	B4, B9	E1	F = 1000000 T1 = 6000000 T2 = 7000000 Max Insts = 10000000
65	C2	B6, B10	E3	F = 1000000 $T1 = 5000000$ $T2 = 6000000$ $Max Insts = 10000000$
66	C4	B1, B8	E2	F = 1000000 $T1 = 7000000$ $T2 = 7500000$ $Max Insts = 10000000$
67	C2	B2, B3	E2	F = 1000000 T1 = 3000000 T2 = 3250000 Max Insts = 10000000
68	C5	B7, B8	E1	F = 1000000 T1 = 5000000 T2 = 6000000 Max Insts = 10000000
69	СЗ	B1, B6	E3	F = 1000000 T1 = 5000000 T2 = 5500000 Max Insts = 10000000
70	C5	B3, B10	E1	F = 1000000 T1 = 8000000 T2 = 9000000 Max Insts = 10000000