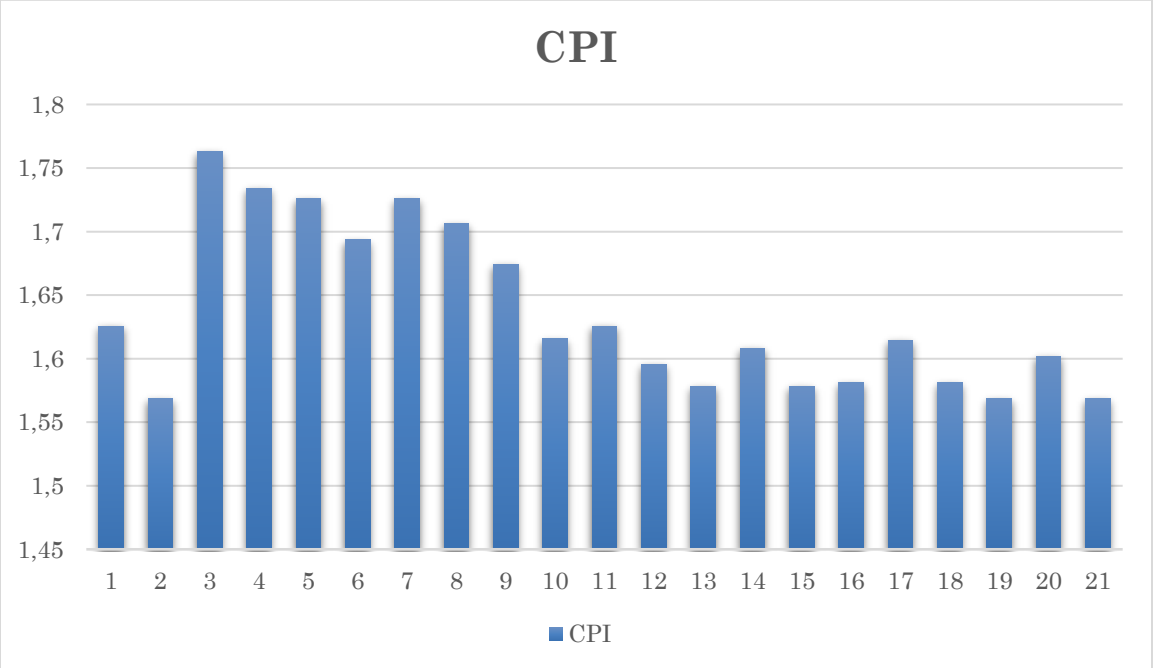
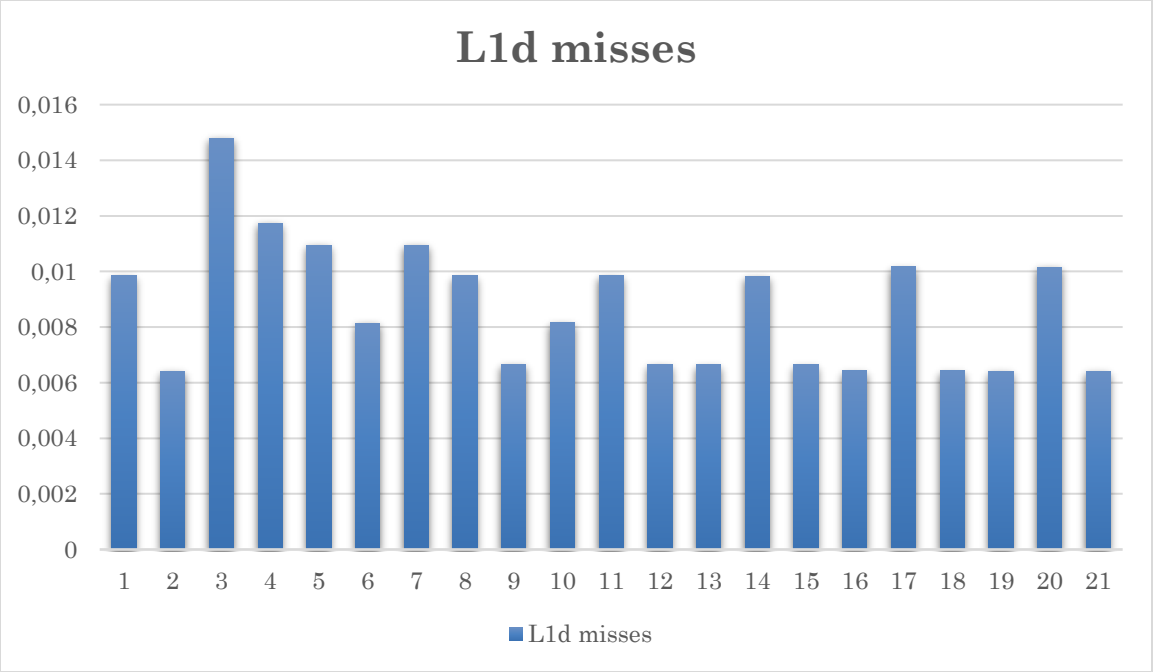
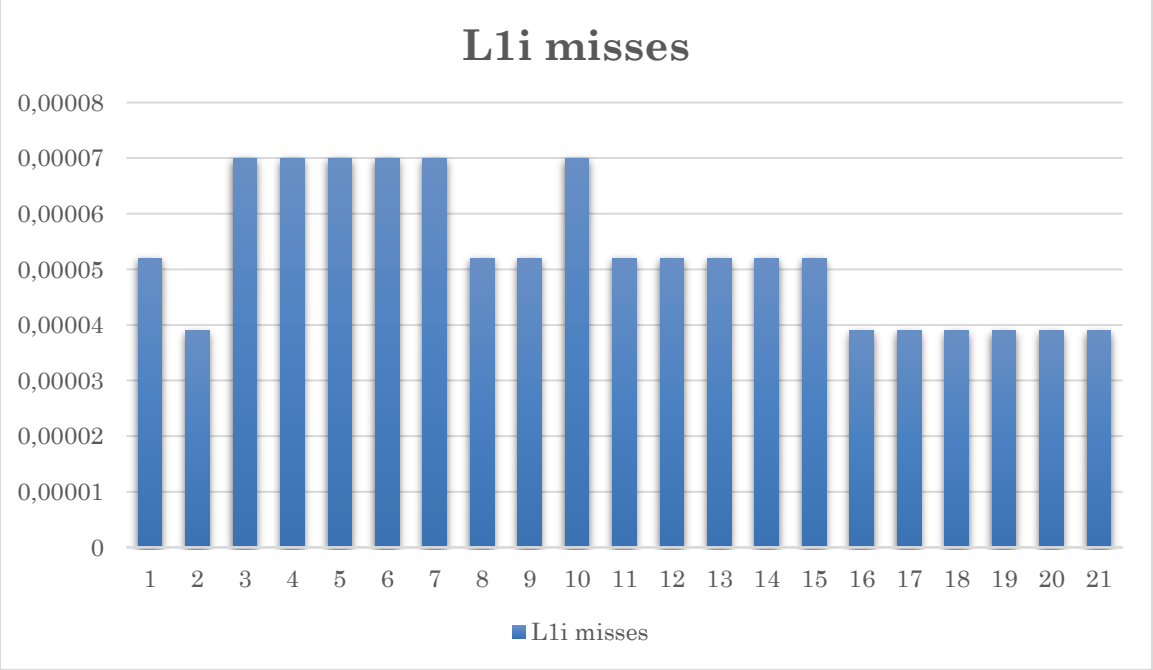
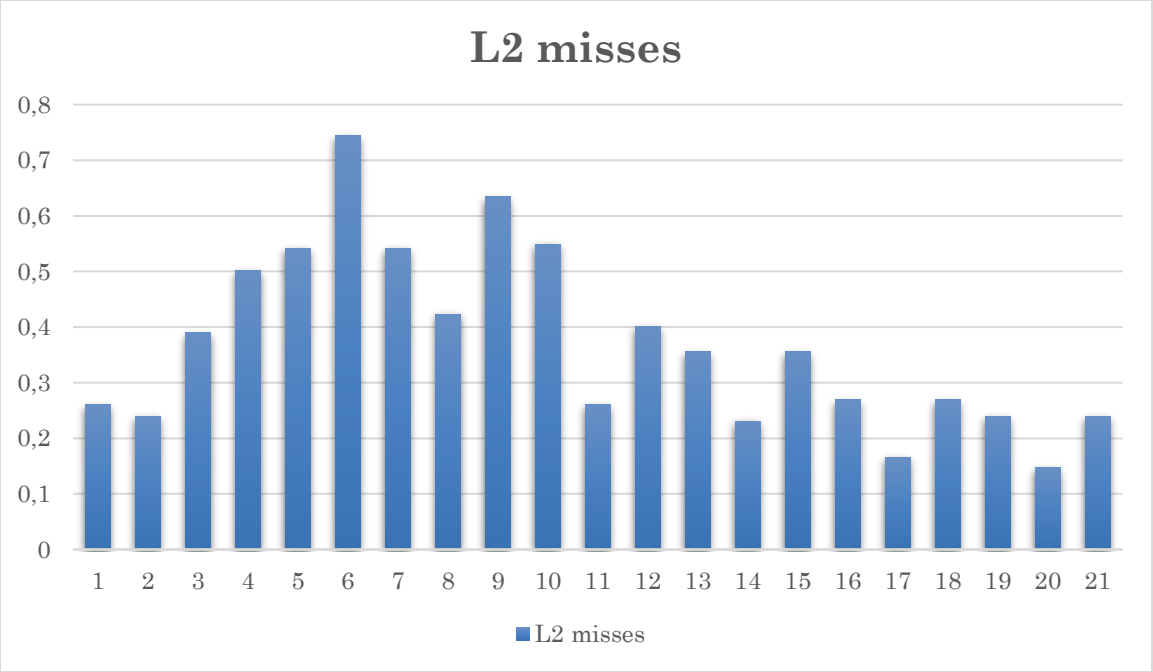
Benchmarks	CPI	L1 icache miss rate	L1 dcache miss rate	L2 cache miss rate
spec_bzip_1	1.625545	0.009840	0.000052	0.260147
spec_bzip_2	**1.568358**	**0.006406**	**0.000039**	**0.239579**
spec_bzip_3	1.762777	0.014788	0.000070	0.389456
spec_bzip_4	1.733908	0.011737	0.000070	0.501141
spec_bzip_5	1.725947	0.010943	0.000070	0.541104
spec_bzip_6	1.693425	0.008137	0.000070	0.744686
spec_bzip_7	1.725947	0.010943	0.000070	0.541104
spec_bzip_8	1.706361	0.009844	0.000052	0.422921
spec_bzip_9	1.674225	0.006656	0.000052	0.634310
spec_bzip_10	1.615582	0.008146	0.000070	0.548997
spec_bzip_11	1.625545	0.009840	0.000052	0.260147
spec_bzip_12	1.595505	0.006652	0.000052	0.400484
spec_bzip_13	1.578183	0.006643	0.000052	0.355401
spec_bzip_14	1.608244	0.009832	0.000052	**0.230856**
spec_bzip_15	1.578147	0.006643	0.000052	0.355400
spec_bzip_16	1.580989	0.006426	0.000039	0.269146
spec_bzip_17	1.614321	0.010170	**0.000039**	0.165346
spec_bzip_18	1.580989	0.006426	**0.000039**	0.269146
spec_bzip_19	**1.568383**	**0.006405**	**0.000039**	**0.239581**
spec_bzip_20	1.601726	0.010149	**0.000039**	0.147184
spec_bzip_21	**1.568358**	**0.006406**	**0.000039**	**0.239579**

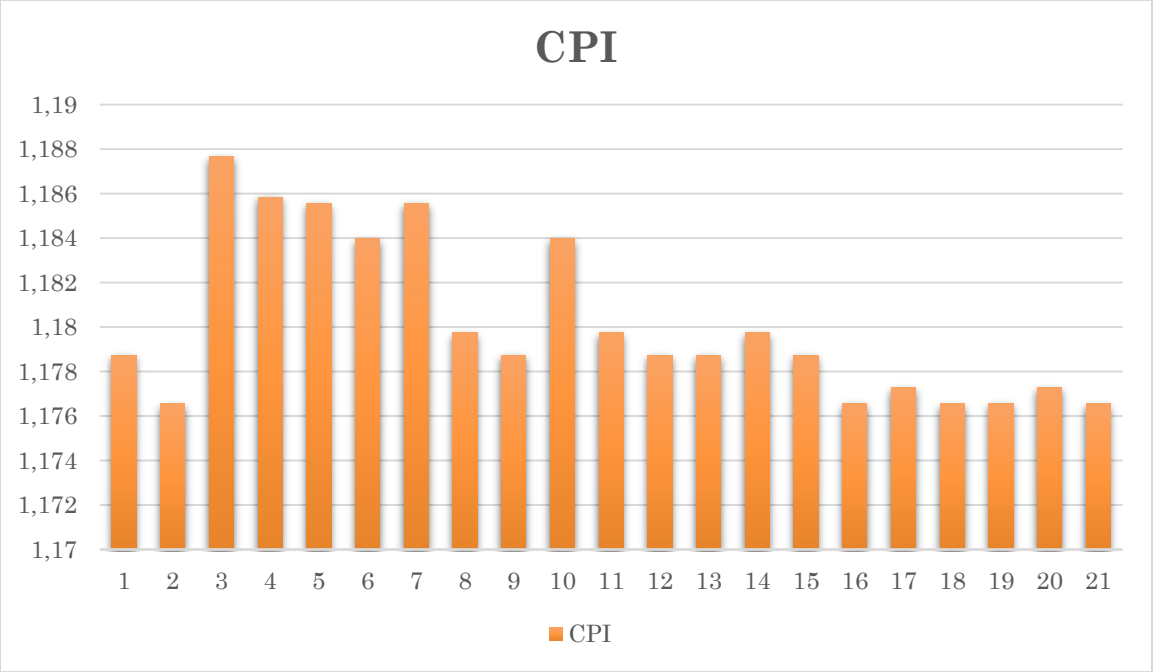


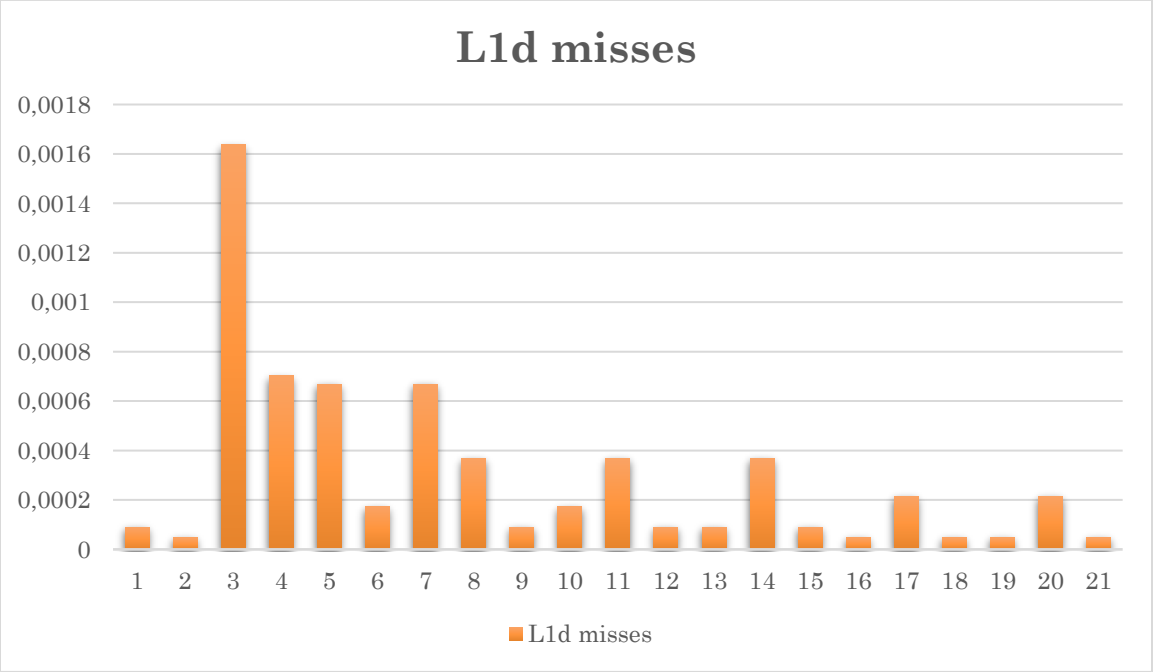

L1d misses
0,016
0,014
0,012
0,01
0,008
0,006
0,004
0,002
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
L1d misses

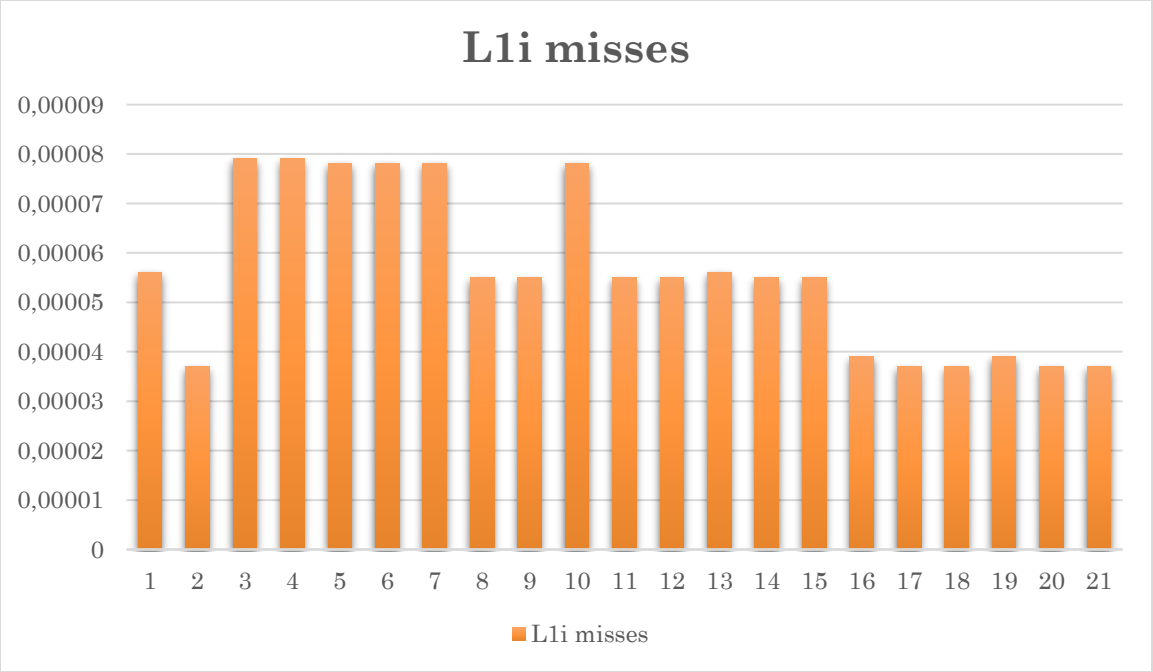

L1i misses
0,00008
0,00007
0,00006
0,00005
0,00004
0,00003
0,00002
0,00001
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
L1i misses

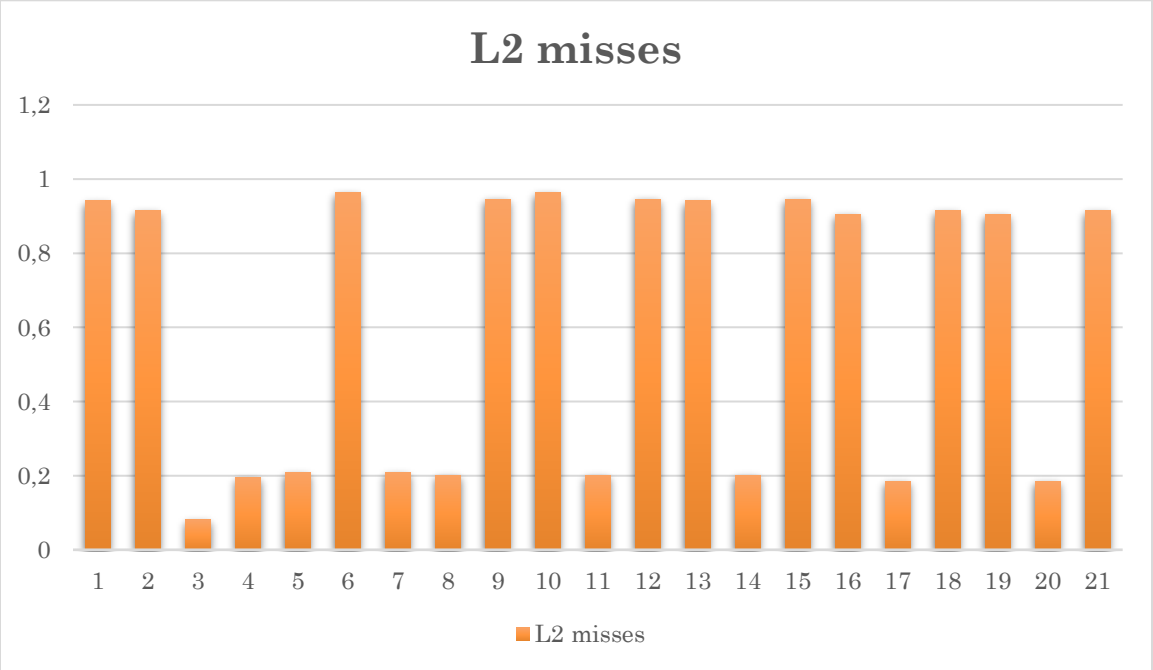

L2 misses
0,8
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
L2 misses

Benchmarks	CPI	L1 icache miss rate	L1 dcache miss rate	L2 cache miss rate
spec_hmmer_1	1.178721	0.000090	0.000056	0.941364
spec_hmmer_2	**1.176550**	**0.000048**	**0.000037**	0.914882
spec_hmmer_3	1.187649	0.001638	0.000079	**0.080654**
spec_hmmer_4	1.185839	0.000702	0.000079	**0.194939**
spec_hmmer_5	1.185557	0.000669	0.000078	**0.208092**
spec_hmmer_6	1.183970	0.000173	0.000078	0.962664
spec_hmmer_7	1.185557	0.000669	0.000078	**0.208139**
spec_hmmer_8	1.179746	0.000368	0.000055	**0.201171**
spec_hmmer_9	1.178721	0.000090	0.000055	0.945280
spec_hmmer_10	1.183970	0.000173	0.000078	0.962664
spec_hmmer_11	1.179746	0.000368	0.000055	**0.201171**
spec_hmmer_12	1.178721	0.000090	0.000055	0.945280
spec_hmmer_13	1.178721	0.000090	0.000056	0.941364
spec_hmmer_14	1.179746	0.000368	0.000055	**0.201171**
spec_hmmer_15	1.178721	0.000090	0.000055	0.945280
spec_hmmer_16	**1.176563**	0.000048	**0.000039**	0.905187
spec_hmmer_17	1.177266	0.000216	**0.000037**	**0.185189**
spec_hmmer_18	**1.176550**	**0.000048**	**0.000037**	0.914882
spec_hmmer_19	**1.176563**	**0.000048**	**0.000039**	**0.905187**
spec_hmmer_20	1.177266	**0.000216**	**0.000037**	**0.185189**
spec_hmmer_21	**1.176550**	**0.000048**	**0.000037**	0.914882

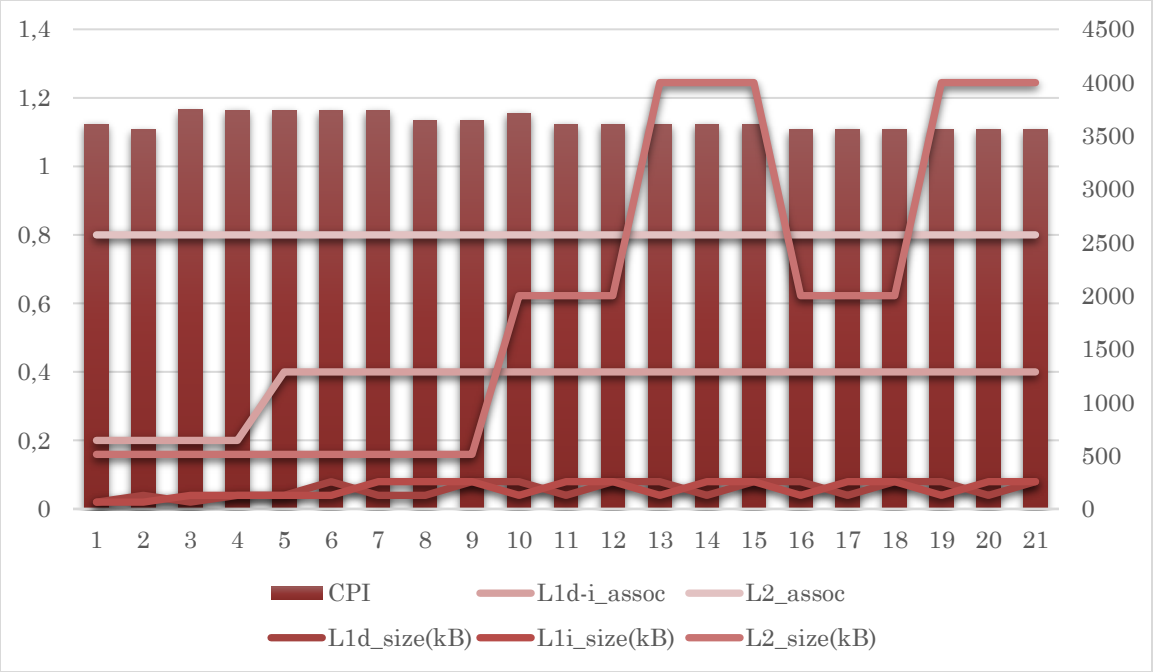

CPI
1,19
1,188
1,186
1,184
1,182
1,18
1,178
1,176
1,174
1,172
1,17
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
CPI

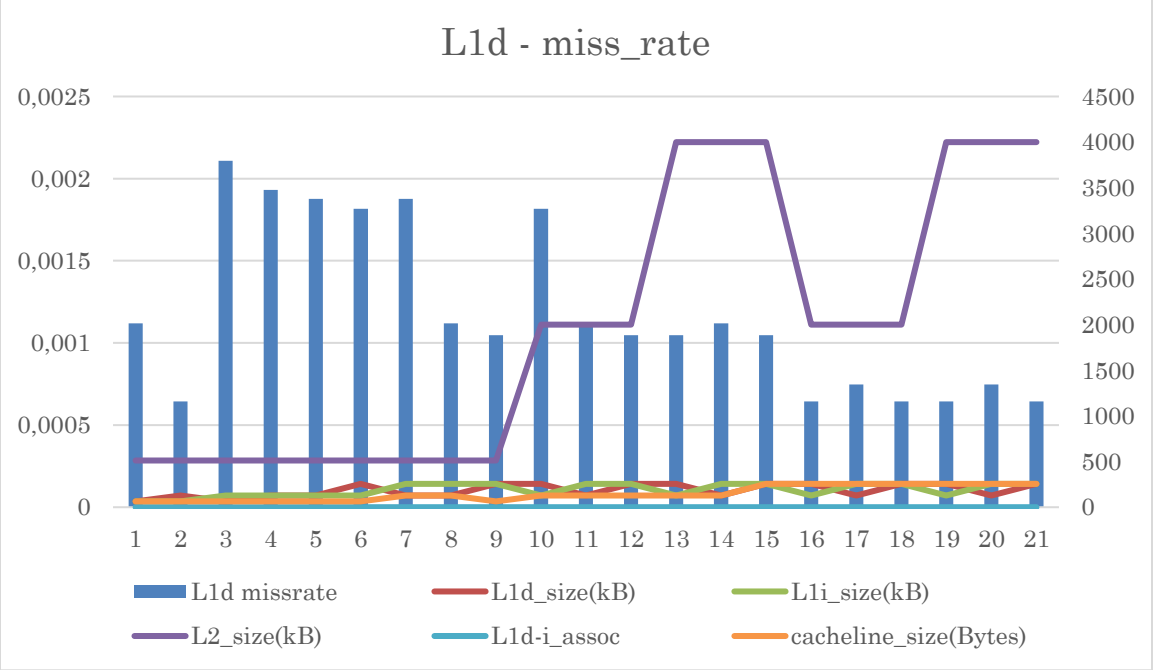

L1d misses
0,0018
0,0016
0,0014
0,0012
0,001
0,0008
0,0006
0,0004
0,0002
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
L1d misses

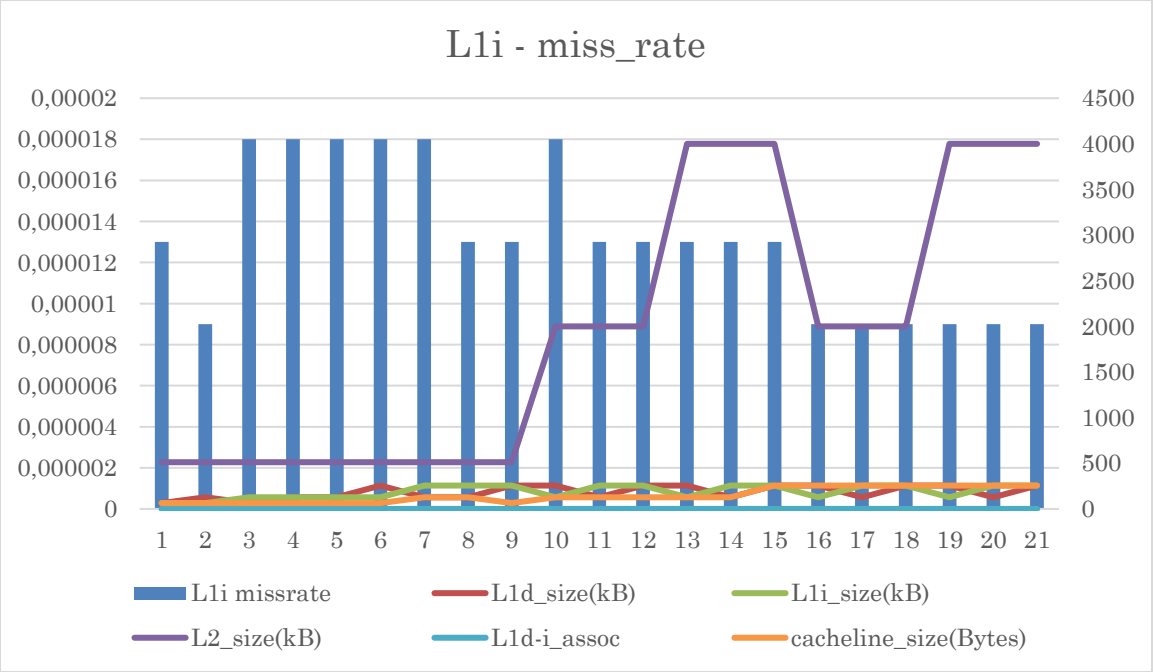

L1i misses
0,00009
0,00008
0,00007
0,00006
0,00005
0,00004
0,00003
0,00002
0,00001
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
L1i misses


L2 misses
1,2
1
0,8
0,6
0,4
0,2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
L2 misses

Benchmarks	CPI	L1 icache miss rate	L1 dcache miss rate	L2 cache miss rate
spec_mcf_1	1.123187	0.001120	0.000013	0.659583
spec_mcf_2	**1.106962**	**0.000644**	**0.000009**	**0.548701**
spec_mcf_3	1.164542	0.002108	0.000018	0.824538
spec_mcf_4	1.163892	0.001932	0.000018	0.901493
spec_mcf_5	1.163529	0.001877	0.000018	0.920099
spec_mcf_6	1.163061	0.001816	0.000018	0.948854
spec_mcf_7	1.163529	0.001877	0.000018	0.920099
spec_mcf_8	1.133872	0.001120	0.000013	0.862079
spec_mcf_9	1.133126	0.001047	0.000013	0.917994
spec_mcf_10	1.154860	0.001816	0.000018	0.820557
spec_mcf_11	1.123187	0.001120	0.000013	0.659583
spec_mcf_12	1.122793	0.001047	0.000013	0.707570
spec_mcf_13	1.122503	0.001047	0.000013	0.701050
spec_mcf_14	1.122884	0.001120	0.000013	0.653408
spec_mcf_15	1.122503	0.001047	0.000013	0.701050
spec_mcf_16	**1.107147**	**0.000644**	**0.000009**	**0.553344**
spec_mcf_17	**1.107728**	**0.000748**	**0.000009**	**0.473172**
spec_mcf_18	**1.107147**	**0.000644**	**0.000009**	**0.553404**
spec_mcf_19	**1.106962**	**0.000644**	**0.000009**	**0.548641**
spec_mcf_20	**1.107630**	**0.000748**	**0.000009**	**0.469336**
spec_mcf_21	**1.106962**	**0.000644**	**0.000009**	**0.548701**


1,4
1,2
1
0,8
0,6
0,4
0,2
0
4500
4000
3500
3000
2500
2000
1500
1000
500
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
CPI
L1d-i_assoc
L2_assoc
L1d_size(kB)
L1i_size(kB)
L2_size(kB)


L1d - miss_rate
0,0025
0,002
0,0015
0,001
0,0005
0
4500
4000
3500
3000
2500
2000
1500
1000
500
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
L1d missrate
L1d_size(kB)
L1i_size(kB)
L2_size(kB)
L1d-i_assoc
cacheline_size(Bytes)


L1i - miss_rate
0,00002
0,000018
0,000016
0,000014
0,000012
0,00001
0,000008
0,000006
0,000004
0,000002
0
4500
4000
3500
3000
2500
2000
1500
1000
500
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
L1i missrate
L1d_size(kB)
L1i_size(kB)
L2_size(kB)
L1d-i_assoc
cacheline_size(Bytes)

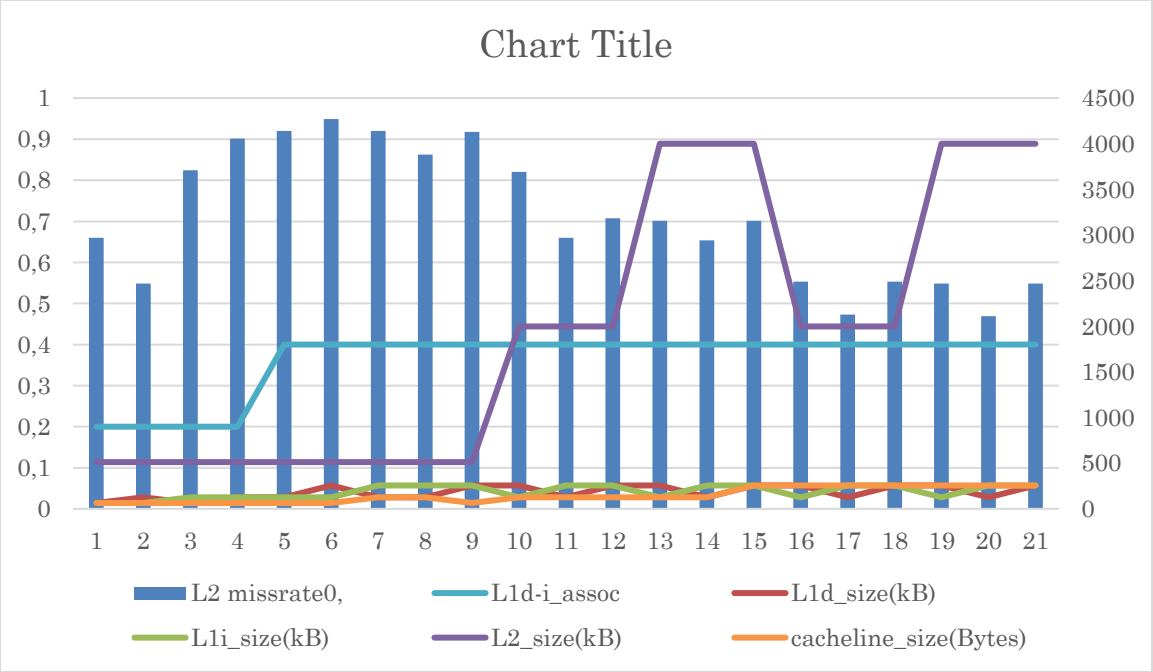


Chart Title
1
0,9
0,8
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0
4500
4000
3500
3000
2500
2000
1500
1000
500
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
L2 missrate0,
L1d-i_assoc
L1d_size(kB)
L1i_size(kB)
L2_size(kB)
cacheline_size(Bytes)

Benchmarks	CPI	L1 icache miss rate	L1 dcache miss rate	L2 cache miss rate
spec_libm_1	**1.990606**	**0.015244**	**0.000081**	**0.999919**
spec_libm_2	**1.989308**	**0.015244**	**0.000080**	**0.999922**
spec_libm_3	3.496180	0.060972	0.000085	0.999981
spec_libm_4	3.496180	0.060972	0.000085	0.999981
spec_libm_5	3.496180	0.060972	0.000085	0.999982
spec_libm_6	3.534550	0.060972	0.000085	0.999982
spec_libm_7	3.496180	0.060972	0.000085	0.999982
spec_libm_8	2.584771	0.030487	0.000083	0.999961
spec_libm_9	2.567901	0.030487	0.000083	0.999961
spec_libm_10	3.493293	0.060972	0.000085	0.999982
spec_libm_11	2.581257	0.030487	0.000083	0.999961
spec_libm_12	2.581257	0.030487	0.000083	0.999961
spec_libm_13	2.576597	0.030487	0.000084	0.999958
spec_libm_14	2.576600	0.030487	0.000083	0.999961
spec_libm_15	2.576600	0.030487	0.000083	0.999961
spec_libm_16	**1.990606**	**0.015244**	**0.000081**	**0.999919**
spec_libm_17	**1.990606**	**0.015244**	**0.000080**	**0.999922**
spec_libm_18	**1.990606**	**0.015244**	**0.000080**	**0.999922**
spec_libm_19	**1.989308**	**0.015244**	**0.000081**	**0.999919**
spec_libm_20	**1.989308**	**0.015244**	**0.000080**	**0.999922**
spec_libm_21	**1.989308**	**0.015244**	**0.000080**	**0.999922**

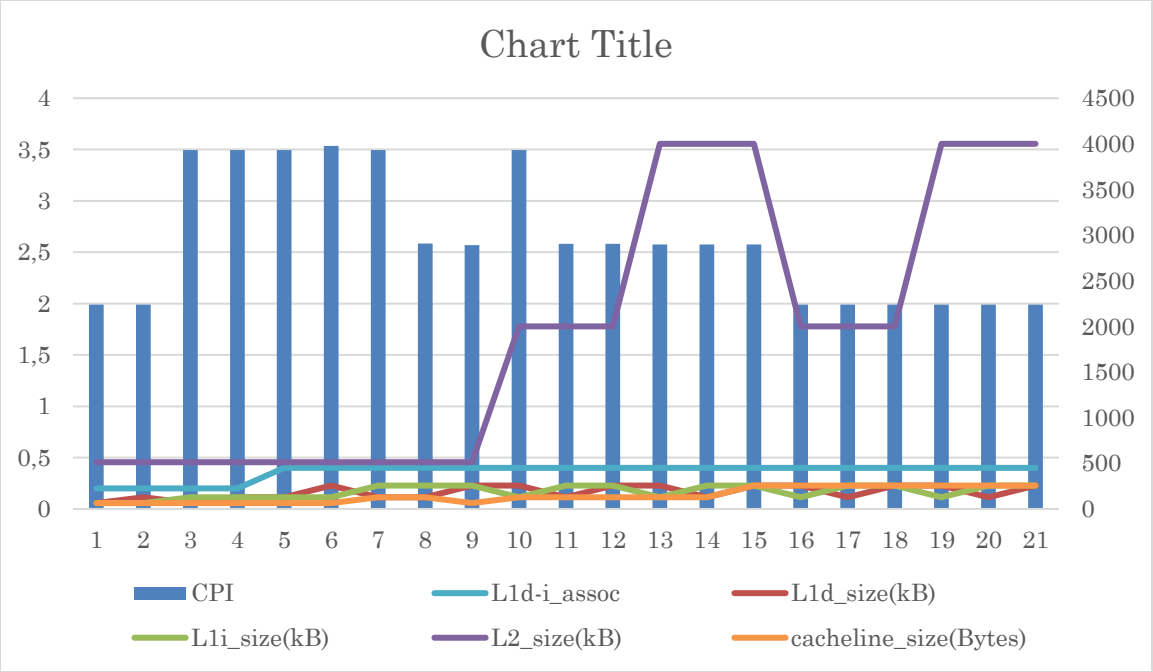
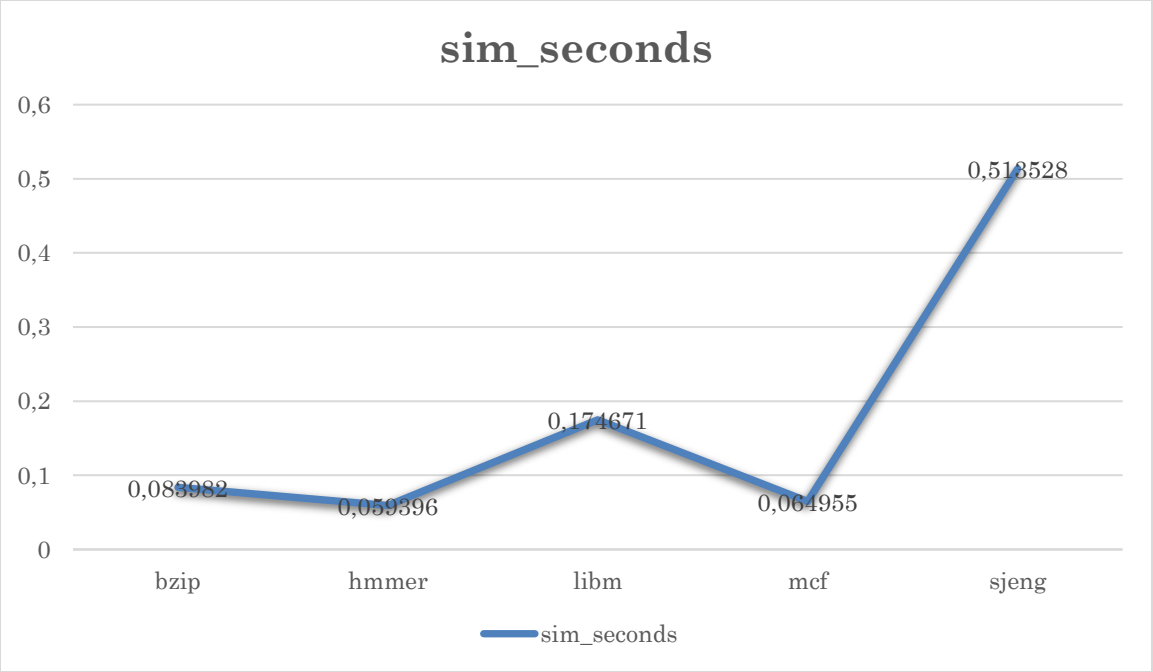
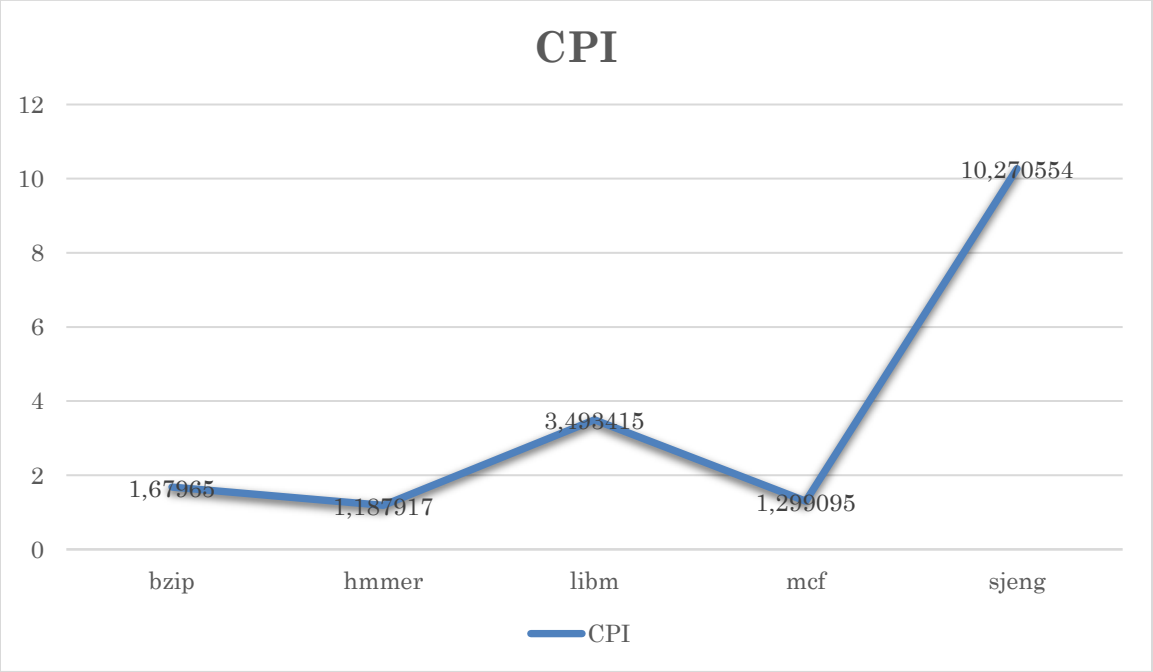
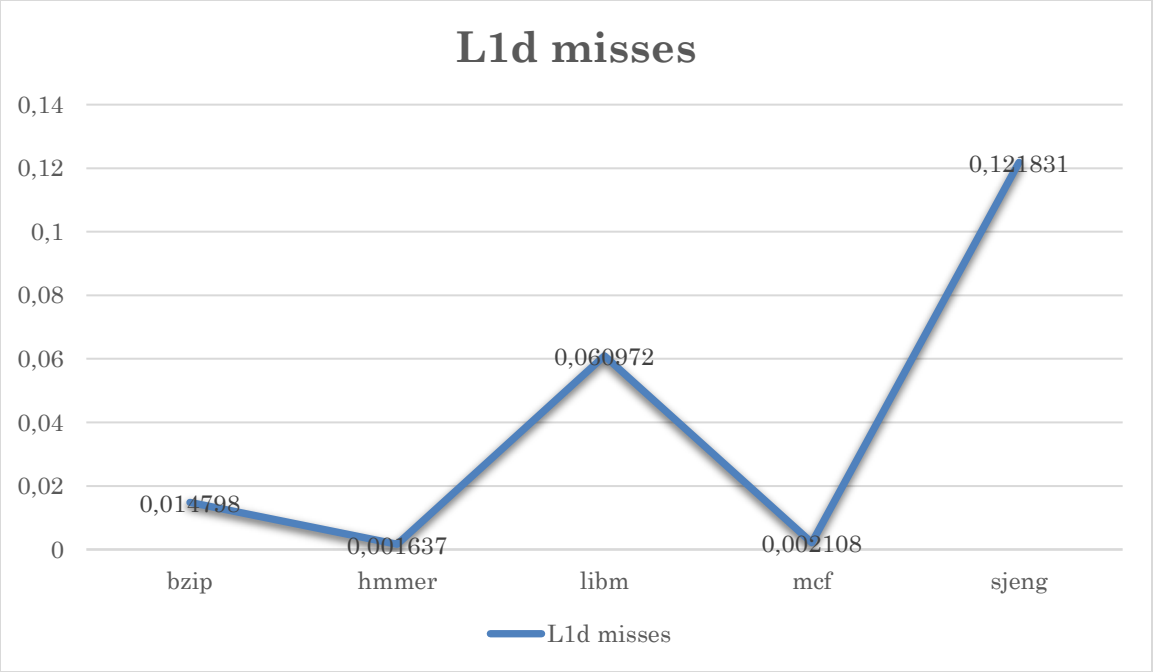


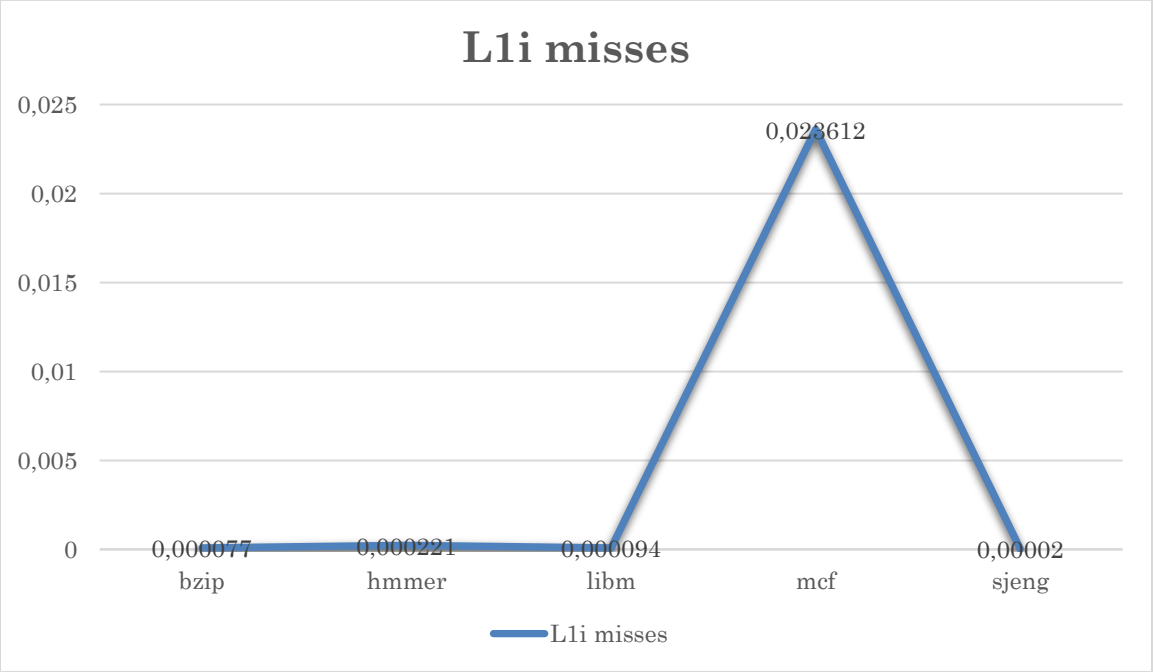
Chart Title
4
3,5
3
2,5
2
1,5
1
0,5
0
4500
4000
3500
3000
2500
2000
1500
1000
500
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
CPI
L1d-i_assoc
L1d_size(kB)
L1i_size(kB)
L2_size(kB)
cacheline_size(Bytes)

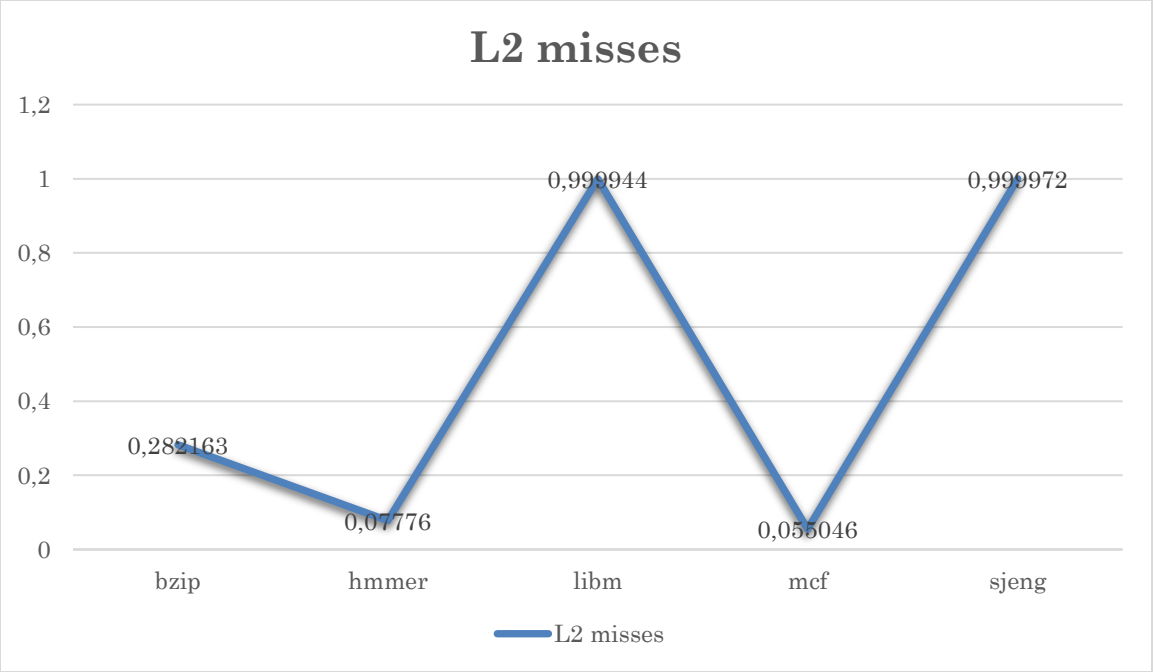
Benchmarks	CPI	L1 icache miss rate	L1 dcache miss rate	L2 cache miss rate
spec_sjeng_1	10.270271	0.121830	0.000019	0.999992
spec_sjeng_2	5.171437	0.030461	0.000009	0.999974
spec_sjeng_3	10.273131	0.121831	0.000019	0.999979
spec_sjeng_4	10.272923	0.121831	0.000019	0.999983
spec_sjeng_5	10.272833	0.121831	0.000019	0.999986
spec_sjeng_6	10.410857	0.121830	0.000019	0.999992
spec_sjeng_7	10.272833	0.121831	0.000019	0.999986
spec_sjeng_8	6.801093	0.060918	0.000013	0.999978
spec_sjeng_9	6.947617	0.060917	0.000013	0.999985
spec_sjeng_10	10.270271	0.121830	0.000019	0.999992
spec_sjeng_11	6.799380	0.060918	0.000013	0.999978
spec_sjeng_12	6.799609	0.060917	0.000013	0.999985
spec_sjeng_13	6.795137	0.060917	0.000013	0.999985
spec_sjeng_14	6.795331	0.060918	0.000013	0.999978
spec_sjeng_15	6.795137	0.060917	0.000013	0.999985
spec_sjeng_16	5.175651	0.030461	0.000009	0.999974
spec_sjeng_17	5.175651	0.030461	0.000009	0.999964
spec_sjeng_18	5.175651	0.030461	0.000009	0.999974
spec_sjeng_19	5.171414	0.030461	0.000009	0.999974
spec_sjeng_20	5.171381	0.030461	0.000009	0.999964
spec_sjeng_21	5.171437	0.030461	0.000009	0.999974


sim_seconds
0,6
0,5
0,4
0,3
0,2
0,1
0
0,083982
0,059396
0,174671
0,064955
0,518528
bzip
hmmer
libm
mcf
sjeng
sim_seconds


CPI
12
10
8
6
4
2
0
1,67965
1,187917
3,493415
1,299095
10,270554
bzip
hmmer
libm
mcf
sjeng
CPI


L1d misses
0,14
0,12
0,1
0,08
0,06
0,04
0,02
0
0,014798
0,001637
0,060972
0,002108
0,121831
bzip
hmmer
libm
mcf
sjeng
L1d misses


L1i misses
0,025
0,02
0,015
0,01
0,005
0
0,000077
0,000221
0,000094
0,023612
0,00002
bzip
hmmer
libm
mcf
sjeng
L1i misses



L1d_size(kB)	L1i_size(kB)	L2_size(kB)	L1d-i_assoc	cacheline_size(Bytes)
64	64	512	0,2	64
128	64	512	0,2	64
64	128	512	0,2	64
128	128	512	0,2	64
128	128	512	0,4	64
256	128	512	0,4	64
128	256	512	0,4	128
128	256	512	0,4	128
256	256	512	0,4	64
256	128	2000	0,4	128
128	256	2000	0,4	128
256	256	2000	0,4	128
256	128	4000	0,4	128
128	256	4000	0,4	128
256	256	4000	0,4	256
256	128	2000	0,4	256
128	256	2000	0,4	256
256	256	2000	0,4	256
256	128	4000	0,4	256
128	256	4000	0,4	256
256	256	4000	0,4	256