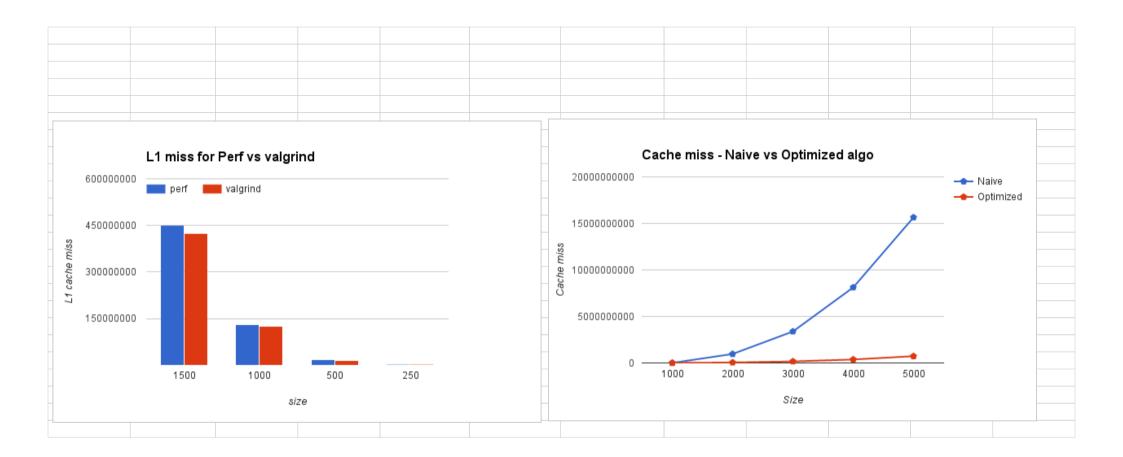
-Cache mi	sses comparision	n between naive	and optimized o	lgemm algorithm	(mac-login-intel.tu	m-mac.cos.lrz.de)			
Size	Algo type	Cache-miss	L1-Load-miss	LLC-Load-miss	dTLB-Load-miss	Elapsed time(s)	cache mis	ss for naive and	optimzied
1000	Naive	3,566,302	1,125,136,829	3	161,792	12.22061025	Size	Naive	Optimized
000	Optimized	542,849	130,695,095	0	52,304	9.506367515	1000	3,566,302	Optimized 542,849 48,757,427 162,964,704 370,145,135 724,838,943
000	Naive	961,856,464	8,607,359,880	0	1,860,122	175.4595018	2000	961,856,464	Optimized 2
_000	Optimized	48,757,427	1,084,882,864	0	79,883	75.97345791	3000	3,381,020,403	
3000	Naive	3,381,020,403	30,435,798,814	0	176,026,132	444.3726011	4000	8,117,926,925	370,145,135
3000	Optimized	162,964,704	6,764,459,595	0	586,565	258.318864	5000	15,646,301,418	724,838,943
1000	Naive	8,117,926,925	113,772,013,19	0	1,032,509,707	1347.328946			
1000	Optimized	370,145,135	16,038,854,049	0	648,043	606.4898687			
5000	Naive	15,646,301,418	141,092,147,56	0	2,684,191,273	2659.116061			
	Optimized	724,838,943	31,321,819,449	6	1,970,185	1188.22697			
	Perf vs valgrind with optimized dgemm algorith								
Size		Perf			Valgrind		size	perf	_
			LLC-Load-miss	Elapsed time(s)		LLd misses	1500		
1500			0	1877.01	423,285,980	1,690,018	1000		
1000				556.944		575,107	500		
500			0	68.4107	15,784,982	96,228	250	2,014,632	1,995,540
250	0.148300976	2,014,632	0	9.11408	1,995,540	25,914			



Strong Scaling (Bl	lcok size = 16, Problem	n size = 3000) (mac-l	ogin-intel.tum-mac	.cos.lrz.de)				
Performance counters		#Threa	nds		cache misses			
Tonormanos Counters	4	8	16	32	#Threads	strong scaling	weak scaling	
Elapsed time(s)	127.8012759	65.20110385	32.5823622	18.17296917	4	114,049,936	2,351,639	
instructions	1,901,611,174,235	1,901,336,389,843	1,900,889,433,912	1,901,967,454,612	8	62,000,534	23,488,149	
cache-misses	114,049,936	62,000,534	45,292,453	31,945,107	16	45,292,453	155,603,861	
branch-misses	116,326,241	116,488,268	118,351,301	123,103,029	32	31,945,107	8,270,798,025	
page-faults	838	855	887	923				
cpu-migrations	16	13	34	508				
stalled-cycles-frontend	794,483,092,495	791,090,929,263	792,137,546,234	1,153,987,033,757		branch	misses	
stalled-cycles-backend	150,968,395,222	148,523,869,321	149,623,462,458	259,446,040,558	#Threads	strong scaling	weak scaling	
L1-dcache-load-misses	677,424,897	669,967,012	720,397,803	792,061,281	4	116,326,241	4,419,033	
L1-dcache-prefetch-misses	1,683,667,823	1,700,101,204	1,626,841,606	1,422,325,139	8	116,488,268	34,712,423	
LLC-prefetch-misses	31,834	31,779	31,792	34,994	16	118,351,301	280,321,623	
dTLB-load-misses	3,755,146	2,864,690	6,261,822	25,891,880	32	123,103,029	2,332,833,673	
branch-load-misses	116,607,097	116,278,824	118,923,208	123,453,038				
						elapsed	time(s)	
Weak S	Scaling (Block size = 1	#Threads	strong scaling	weak scaling				
Performance counters		#Threads - Pro	oblem size		4	127.8012759	4.774563494	
renormance counters	4 - 1000	8-2000	16-4000	32-8000	8	65.20110385	20.32355616	
Elapsed time(s)	4.774563494	20.32355616	77.02798791	347.5451793	16	32.5823622	77.02798791	
instructions	70,343,701,462	563,343,083,269	4,505,940,840,947	36,050,799,685,379	32	18.17296917	347.5451793	
cache-misses	2,351,639	23,488,149	155,603,861	8,270,798,025				
branch-misses	4,419,033	34,712,423	280,321,623	2,332,833,673				
page-faults	463	677	506	1,260				
cpu-migrations	7	23	36	11,047				
stalled-cycles-frontend	28,346,644,823	254,848,207,398	1,870,852,213,944	22,430,075,012,708				
stalled-cycles-backend	4,620,286,119	59,639,929,630	339,593,549,677	5,576,356,946,161				
L1-dcache-load-misses	23,711,722	178,695,884	2,389,586,378	30,676,587,251				
L1-dcache-prefetch-misses	63,777,709	557,082,797	1,909,105,387	24,133,955,294				
LLC-prefetch-misses	1,166	9,821	75,235	673,455				
dTLB-load-misses	109,061	1,047,096	18,852,642	704,559,533				
branch-load-misses	4,389,671	34,778,023	279,929,778	2,333,082,204				

