CPU Performance Analysis Report 4.2.1

Measured time	Sat Jul 9 20:08:57 2022
Node name	i31-4201c

Process no.	2
CMG no.	2
Measured region	axhelm_kernel, 1

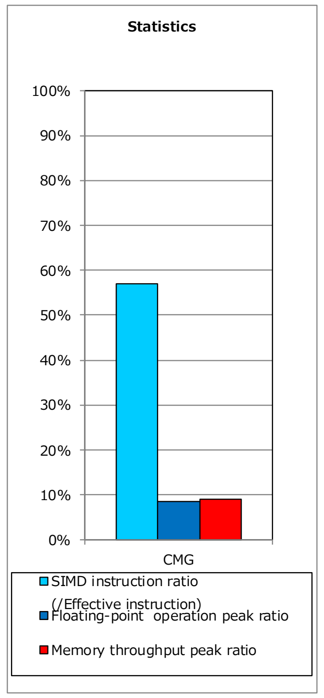
Vector length (bit)	512
CPU frequency (GHz)	2.000

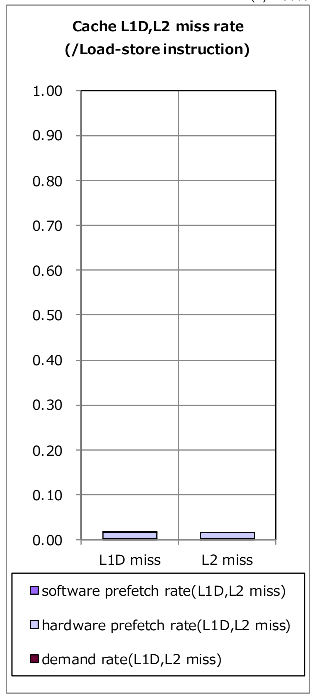
Statistics		Execution time (s)	GFLOPS	Floating-point operation peak ratio (%)	Memory throughput (GB/s)	Memory throughput peak ratio (%)	Effective instruction	Floating-point operation	SIMD instruction rate (%) (/Effective instruction)	SVE operation rate (%)	Floating-point pipeline Active element rate (%)	IPC	GIPS
Process	Thread												
2	0	3.17E-01	5.40	8.44%	1.99		6.64E+08	1.71E+09	57.06%	91.87%	92.31%	1.05	2.10
2	1	3.17E-01	5.40	8.45%	1.96		6.64E+08	1.71E+09	57.06%	91.87%	92.31%	1.05	2.10
2	2	3.17E-01	5.40	8.45%	1.93		6.64E+08	1.71E+09	57.06%	91.87%	92.31%	1.05	2.10
2	3	3.17E-01	5.40	8.44%	1.94		6.64E+08	1.71E+09	57.06%	91.87%	92.31%	1.05	2.10
2	4	3.17E-01	5.40	8.45%	1.93		6.64E+08	1.71E+09	57.06%	91.87%	92.31%	1.05	2.10
2	5	3.17E-01	5.40	8.44%	1.96	9.15%	6.64E+08	1.71E+09	57.06%	91.87%	92.31%	1.05	2.10
2	6	3.17E-01	5.40	8.44%	1.95		6.64E+08	1.71E+09	57.06%	91.87%	92.31%	1.05	2.10
2	7	3.17E-01	5.40	8.44%	1.94		6.64E+08	1.71E+09	57.06%	91.87%	92.31%	1.05	2.10
2	8	3.17E-01	5.40	8.44%	1.96		6.64E+08	1.71E+09	57.06%	91.87%	92.31%	1.05	2.10
2	9	3.17E-01	5.40	8.44%	1.93		6.64E+08	1.71E+09	57.06%	91.87%	92.31%	1.05	2.10
2	10	3.17E-01	5.40	8.44%	1.94		6.64E+08	1.71E+09	57.06%	91.87%	92.31%	1.05	2.10
2	11	3.17E-01	5.41	8.45%	1.98		6.64E+08	1.71E+09	57.06%	91.87%	92.31%	1.05	2.10
CMG 2 total		3.17E-01	64.85	8.45%	23.41	9.15%	7.97E+09	2.05E+10	57.06%	91.87%	92.31%	1.05	25.17

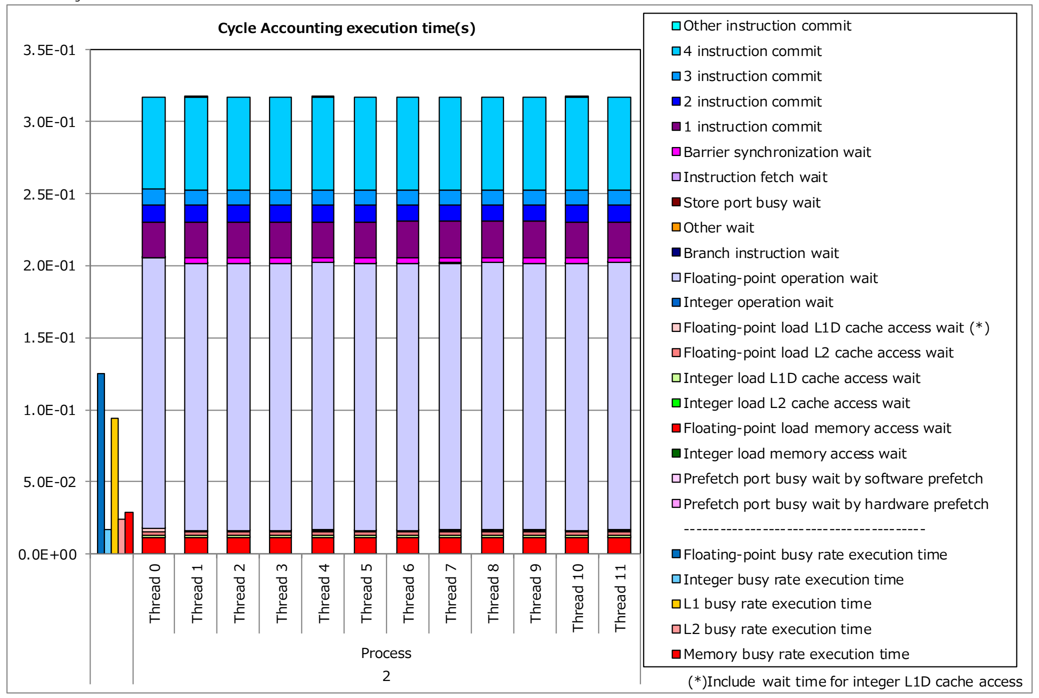
Cycle Accounting		Prefetch port busy wait		Memory access wait & Cache access wait						Operation wait		Other wait		Store port busy wait	Instruction fetch wait	Barrier synchronization wait	1 instruction commit	Other instruction commit				Total
		Prefetch port busy wait by hardware prefetch	Prefetch port busy wait by software prefetch	Integer load memory access wait	Floating-point load memory access wait	Integer load L2 cache access wait	Integer load L1D cache access wait	Floating-point load L2 cache access wait	Floating-point load L1D cache access wait (*)	Integer operation wait	Floating-point operation wait	Branch instruction wait	Other wait					2 instruction commit	3 instruction commit	4 instruction commit	Other instruction commit	
Process	Thread																					
2	0	0.00E+00	0.00E+00	9.65E-05	1.14E-02	4.36E-05	1.76E-03	1.79E-03	2.34E-03	5.21E-04	1.87E-01	2.60E-06	3.54E-06	0.00E+00	1.88E-05	1.25E-04	2.51E-02	1.18E-02	1.07E-02	6.40E-02	0.00E+00	3.17E-01
2	1	0.00E+00	0.00E+00	7.77E-05	1.11E-02	4.61E-05	1.51E-03	2.25E-03	7.08E-04	4.92E-04	1.85E-01	2.38E-06	3.18E-06	0.00E+00	1.56E-05	4.21E-03	2.47E-02	1.13E-02	1.05E-02	6.45E-02	2.00E-07	3.17E-01
2	2	0.00E+00	0.00E+00	8.58E-05	1.12E-02	4.68E-05	1.52E-03	2.35E-03	6.11E-04	5.14E-04	1.85E-01	2.32E-06	3.46E-06	0.00E+00	1.57E-05	4.11E-03	2.47E-02	1.13E-02	1.04E-02	6.45E-02	0.00E+00	3.17E-01
2	3	0.00E+00	0.00E+00	7.73E-05	1.11E-02	5.15E-05	1.52E-03	2.29E-03	6.48E-04	4.79E-04	1.85E-01	2.41E-06	3.34E-06	0.00E+00	1.51E-05	4.17E-03	2.47E-02	1.13E-02	1.05E-02	6.45E-02	0.00E+00	3.17E-01
2	4	0.00E+00	0.00E+00	8.88E-05	1.13E-02	4.47E-05	1.53E-03	2.50E-03	6.26E-04	5.12E-04	1.85E-01	2.13E-06	3.53E-06	0.00E+00	1.48E-05	3.90E-03	2.47E-02	1.13E-02	1.05E-02	6.45E-02	1.41E-06	3.17E-01
2	5	0.00E+00	0.00E+00	6.78E-05	1.11E-02	4.81E-05	1.51E-03	2.40E-03	7.13E-04	5.02E-04	1.85E-01	2.51E-06	3.30E-06	0.00E+00	1.58E-05	4.11E-03	2.47E-02	1.13E-02	1.04E-02	6.45E-02	0.00E+00	3.17E-01
2	6	0.00E+00	0.00E+00	7.34E-05	1.11E-02	5.06E-05	1.51E-03	2.64E-03	5.08E-04	5.15E-04	1.85E-01	2.39E-06	3.53E-06	0.00E+00	1.56E-05	4.14E-03	2.48E-02	1.13E-02	1.04E-02	6.45E-02	0.00E+00	3.17E-01
2	7	0.00E+00	0.00E+00	6.72E-05	1.11E-02	4.80E-05	1.51E-03	2.62E-03	6.74E-04	5.00E-04	1.85E-01	2.25E-06	3.49E-06	0.00E+00	1.50E-05	3.90E-03	2.48E-02	1.13E-02	1.05E-02	6.45E-02	0.00E+00	3.17E-01
2	8	5.07E-09	0.00E+00	1.01E-04	1.12E-02	4.87E-05	1.51E-03	2.68E-03	6.63E-04	5.08E-04	1.85E-01	2.22E-06	3.14E-06	0.00E+00	1.48E-05	3.72E-03	2.48E-02	1.13E-02	1.05E-02	6.45E-02	0.00E+00	3.17E-01
2	9	0.00E+00	0.00E+00	6.72E-05	1.11E-02	4.93E-05	1.50E-03	2.70E-03	5.94E-04	5.06E-04	1.85E-01	2.41E-06	3.56E-06	0.00E+00	1.53E-05	3.97E-03	2.47E-02	1.13E-02	1.04E-02	6.45E-02	0.00E+00	3.17E-01
2	10	0.00E+00	0.00E+00	8.83E-05	1.09E-02	4.83E-05	1.50E-03	2.69E-03	6.29E-04	4.92E-04	1.85E-01	2.29E-06	3.07E-06	0.00E+00	1.51E-05	4.08E-03	2.47E-02	1.13E-02	1.04E-02	6.45E-02	1.28E-06	3.17E-01
2	11	0.00E+00	0.00E+00	1.03E-04	1.10E-02	5.18E-05	1.52E-03	2.80E-03	6.37E-04	5.05E-04	1.85E-01	2.26E-06	2.90E-06	0.00E+00	1.41E-05	3.82E-03	2.47E-02	1.13E-02	1.05E-02	6.45E-02	0.00E+00	3.17E-01
CMG 2 total		4.22E-10	0.00E+00	8.28E-05	1.11E-02	4.81E-05	1.53E-03	2.48E-03	7.79E-04	5.04E-04	1.86E-01	2.35E-06	3.34E-06	0.00E+00	1.55E-05	3.69E-03	2.47E-02	1.13E-02	1.05E-02	6.45E-02	2.41E-07	3.17E-01

(*) Include wait time for integer L1D cache access

Busy		Floating-point operation pipeline A busy rate (%)	Floating-point operation pipeline B busy rate (%)	Integer operation pipeline A busy rate (%)	Integer operation pipeline B busy rate (%)	L1 busy rate (%)	L2 busy rate (%)	Memory busy rate (%)	Address calculation operation pipeline A busy rate (%)	Address calculation operation pipeline B busy rate (%)	Floating-point pipeline A Active element rate (%)	Floating-point pipeline B Active element rate (%)	L1 pipeline 0 Active element rate (%)	L1 pipeline 1 Active element rate (%)	SFI(Store Fetch Interlock) rate
Process	Thread														
2	0	43.83%	35.37%	2.99%	7.43%	30.41%			20.24%	22.53%	86.11%	100.00%	100.00%	100.00%	0.01
2	1	44.05%	35.15%	3.19%	7.50%	29.56%			20.11%	22.39%	86.17%	100.00%	100.00%	100.00%	0.01
2	2	44.05%	35.16%	3.17%	7.52%	29.56%			20.11%	22.38%	86.17%	100.00%	100.00%	100.00%	0.01
2	3	44.05%	35.15%	3.20%	7.50%	29.56%			20.09%	22.39%	86.17%	100.00%	100.00%	100.00%	0.01
2	4	44.07%	35.14%	3.16%	7.53%	29.57%			20.09%	22.41%	86.17%	100.00%	100.00%	100.00%	0.01
2	5	44.07%	35.13%	3.17%	7.52%	29.56%	7.70%	9.15%	20.09%	22.40%	86.18%	100.00%	100.00%	100.00%	0.01
2	6	44.05%	35.16%	3.18%	7.51%	29.57%			20.11%	22.39%	86.17%	100.00%	100.00%	100.00%	0.01
2	7	44.06%	35.14%	3.15%	7.53%	29.57%			20.10%	22.40%	86.17%	100.00%	100.00%	100.00%	0.01
2	8	44.07%	35.13%	3.17%	7.53%	29.56%			20.09%	22.39%	86.18%	100.00%	100.00%	100.00%	0.01
2	9	44.05%	35.15%	3.16%	7.52%	29.56%			20.08%	22.41%	86.17%	100.00%	100.00%	100.00%	0.01
2	10	44.05%	35.15%	3.17%	7.52%	29.56%			20.08%	22.42%	86.17%	100.00%	100.00%	100.00%	0.01
2	11	44.07%	35.14%	3.18%	7.51%	29.57%			20.10%	22.39%	86.18%	100.00%	100.00%	100.00%	0.01
CMG 2 total		44.04%	35.16%	3.16%	7.51%	29.63%	7.70%	9.15%	20.11%	22.41%	86.17%	100.00%	100.00%	100.00%	0.01







Cache		L1I miss rate (/Effective instruction)	Load-store instruction	L1D miss	L1D miss rate (/Load-store instruction)	L1D miss demand rate (%) (/L1D miss)	L1D miss hardware prefetch rate (%) (/L1D miss)	L1D miss software prefetch rate (%) (/L1D miss)	L2 miss	L2 miss rate (/Load-store instruction)	L2 miss demand rate (%) (/L2 miss)	L2 miss hardware prefetch rate (%) (/L2 miss)	L2 miss software prefetch rate (%) (/L2 miss)	L1D TLB miss rate (/Load-store instruction)	L2D TLB miss rate (/Load-store instruction)
Process	Thread														
2	0	0.00	1.35E+08	2.29E+06	0.02	25.93%	61.53%	12.54%	2.16E+06	0.02	17.29%	87.24%	0.00%	0.00000	0.00000
2	1	0.00	1.35E+08	2.33E+06	0.02	26.59%	60.40%	13.01%	2.16E+06	0.02	16.45%	88.50%	0.00%	0.00000	0.00000
2	2	0.00	1.35E+08	2.33E+06	0.02	26.54%	60.49%	12.97%	2.16E+06	0.02	16.60%	88.51%	0.00%	0.00000	0.00000
2	3	0.00	1.35E+08	2.31E+06	0.02	26.44%	60.84%	12.73%	2.16E+06	0.02	16.11%	87.82%	0.00%	0.00000	0.00000
2	4	0.00	1.35E+08	2.33E+06	0.02	26.53%	60.46%	13.01%	2.16E+06	0.02	16.33%	87.89%	0.00%	0.00000	0.00000
2	5	0.00	1.35E+08	2.33E+06	0.02	26.55%	60.46%	12.99%	2.16E+06	0.02	16.24%	88.66%	0.00%	0.00000	0.00000
2	6	0.00	1.35E+08	2.31E+06	0.02	26.44%	60.83%	12.73%	2.16E+06	0.02	15.99%	88.07%	0.00%	0.00000	0.00000
2	7	0.00	1.35E+08	2.31E+06	0.02	26.51%	60.80%	12.70%	2.16E+06	0.02	16.02%	88.21%	0.00%	0.00000	0.00000
2	8	0.00	1.35E+08	2.31E+06	0.02	26.49%	60.81%	12.70%	2.16E+06	0.02	16.14%	87.87%	0.00%	0.00000	0.00000
2	9	0.00	1.35E+08	2.32E+06	0.02	26.49%	60.77%	12.74%	2.16E+06	0.02	15.74%	88.12%	0.00%	0.00000	0.00000
2	10	0.00	1.35E+08	2.31E+06	0.02	26.40%	60.79%	12.81%	2.15E+06	0.02	15.95%	88.09%	0.00%	0.00000	0.00000
2	11	0.00	1.35E+08	2.32E+06	0.02	26.44%	60.72%	12.83%	2.16E+06	0.02	15.63%	88.06%	0.00%	0.00000	0.00000
CMG 2 total		0.00	1.62E+09	2.78E+07	0.02	26.45%	60.74%	12.81%	2.59E+07	0.02	16.21%	88.08%	0.00%	0.00000	0.00000

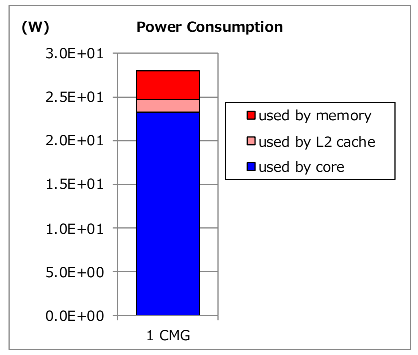
Instruction		Load-store instruction														Prefetch instruction			DCZVA instruction	Floating-point instruction			Floating-point move and conversion instruction		Integer instruction	Branch instruction	Predicate instruction	Crypto-graphic instruction	Other instruction	Total
		Load instruction								Store instruction																				
		SIMD							Non-SIMD	SIMD					Non-SIMD															
		Single vector contiguous load instruction	Multiple vector contiguous structure load instruction	Non-contiguous gather load instruction	Broadcast load instruction	Floating-point register fill instruction	Predicate register fill instruction	First-fault load instruction	Non-SIMD load instruction	Single vector contiguous store instruction	Multiple vector contiguous structure store instruction	Non-contiguous scatter store instruction	Floating-point register spill instruction	Predicate register spill instruction	Non-SIMD store instruction	Contiguous prefetch instruction	Gathering prefetch instruction	Scalar prefetch instruction		Floating-point instruction except FMA and reciprocal	FMA instruction	Floating-point reciprocal instruction	Floating-point conversion instruction	Floating-point move instruction						
Process	Thread																													
2	0	4.22E+06	0.00E+00	2.79E+07	0.00E+00	1.02E+06	1.70E+01	0.00E+00	6.06E+07	1.02E+06	0.00E+00	0.00E+00	8.00E+02	0.00E+00	4.05E+07	0.00E+00	0.00E+00	6.14E+06	8.00E+00	2.38E+08	4.92E+07	0.00E+00	0.00E+00	1.48E+08	0.00E+00	1.31E+06	1.01E+02	0.00E+00	8.67E+07	6.64E+08
2	1	4.22E+06	0.00E+00	2.79E+07	0.00E+00	1.02E+06	1.70E+01	0.00E+00	6.05E+07	1.02E+06	0.00E+00	0.00E+00	8.00E+02	0.00E+00	4.05E+07	0.00E+00	0.00E+00	6.14E+06	8.00E+00	2.38E+08	4.92E+07	0.00E+00	0.00E+00	1.48E+08	0.00E+00	1.31E+06	1.01E+02	0.00E+00	8.67E+07	6.64E+08
2	2	4.22E+06	0.00E+00	2.79E+07	0.00E+00	1.02E+06	1.70E+01	0.00E+00	6.05E+07	1.02E+06	0.00E+00	0.00E+00	8.00E+02	0.00E+00	4.05E+07	0.00E+00	0.00E+00	6.14E+06	8.00E+00	2.38E+08	4.92E+07	0.00E+00	0.00E+00	1.48E+08	0.00E+00	1.31E+06	1.01E+02	0.00E+00	8.67E+07	6.64E+08
2	3	4.22E+06	0.00E+00	2.79E+07	0.00E+00	1.02E+06	1.70E+01	0.00E+00	6.05E+07	1.02E+06	0.00E+00	0.00E+00	8.00E+02	0.00E+00	4.05E+07	0.00E+00	0.00E+00	6.14E+06	8.00E+00	2.38E+08	4.92E+07	0.00E+00	0.00E+00	1.48E+08	0.00E+00	1.31E+06	1.01E+02	0.00E+00	8.67E+07	6.64E+08
2	4	4.22E+06	0.00E+00	2.79E+07	0.00E+00	1.02E+06	1.70E+01	0.00E+00	6.05E+07	1.02E+06	0.00E+00	0.00E+00	8.00E+02	0.00E+00	4.05E+07	0.00E+00	0.00E+00	6.14E+06	8.00E+00	2.38E+08	4.92E+07	0.00E+00	0.00E+00	1.48E+08	0.00E+00	1.31E+06	1.01E+02	0.00E+00	8.67E+07	6.64E+08
2	5	4.22E+06	0.00E+00	2.79E+07	0.00E+00	1.02E+06	1.70E+01	0.00E+00	6.05E+07	1.02E+06	0.00E+00	0.00E+00	8.00E+02	0.00E+00	4.05E+07	0.00E+00	0.00E+00	6.14E+06	8.00E+00	2.38E+08	4.92E+07	0.00E+00	0.00E+00	1.48E+08	0.00E+00	1.31E+06	1.01E+02	0.00E+00	8.67E+07	6.64E+08
2	6	4.22E+06	0.00E+00	2.79E+07	0.00E+00	1.02E+06	1.70E+01	0.00E+00	6.05E+07	1.02E+06	0.00E+00	0.00E+00	8.00E+02	0.00E+00	4.05E+07	0.00E+00	0.00E+00	6.14E+06	8.00E+00	2.38E+08	4.92E+07	0.00E+00	0.00E+00	1.48E+08	0.00E+00	1.31E+06	1.01E+02	0.00E+00	8.67E+07	6.64E+08
2	7	4.22E+06	0.00E+00	2.79E+07	0.00E+00	1.02E+06	1.70E+01	0.00E+00	6.05E+07	1.02E+06	0.00E+00	0.00E+00	8.00E+02	0.00E+00	4.05E+07	0.00E+00	0.00E+00	6.14E+06	8.00E+00	2.38E+08	4.92E+07	0.00E+00	0.00E+00	1.48E+08	0.00E+00	1.31E+06	1.01E+02	0.00E+00	8.67E+07	6.64E+08
2	8	4.22E+06	0.00E+00	2.79E+07	0.00E+00	1.02E+06	1.70E+01	0.00E+00	6.05E+07	1.02E+06	0.00E+00	0.00E+00	8.00E+02	0.00E+00	4.05E+07	0.00E+00	0.00E+00	6.14E+06	8.00E+00	2.38E+08	4.92E+07	0.00E+00	0.00E+00	1.48E+08	0.00E+00	1.31E+06	1.01E+02	0.00E+00	8.67E+07	6.64E+08
2	9	4.22E+06	0.00E+00	2.79E+07	0.00E+00	1.02E+06	1.70E+01	0.00E+00	6.05E+07	1.02E+06	0.00E+00	0.00E+00	8.00E+02	0.00E+00	4.05E+07	0.00E+00	0.00E+00	6.14E+06	8.00E+00	2.38E+08	4.92E+07	0.00E+00	0.00E+00	1.48E+08	0.00E+00	1.31E+06	1.01E+02	0.00E+00	8.67E+07	6.64E+08
2	10	4.22E+06	0.00E+00	2.79E+07	0.00E+00	1.02E+06	1.70E+01	0.00E+00	6.05E+07	1.02E+06	0.00E+00	0.00E+00	8.00E+02	0.00E+00	4.05E+07	0.00E+00	0.00E+00	6.14E+06	8.00E+00	2.38E+08	4.92E+07	0.00E+00	0.00E+00	1.48E+08	0.00E+00	1.31E+06	1.01E+02	0.00E+00	8.67E+07	6.64E+08
2	11	4.22E+06	0.00E+00	2.79E+07	0.00E+00	1.02E+06	1.70E+01	0.00E+00	6.05E+07	1.02E+06	0.00E+00	0.00E+00	8.00E+02	0.00E+00	4.05E+07	0.00E+00	0.00E+00	6.14E+06	8.00E+00	2.38E+08	4.92E+07	0.00E+00	0.00E+00	1.48E+08	0.00E+00	1.31E+06	1.01E+02	0.00E+00	8.67E+07	6.64E+08
CMG 2 total		5.07E+07	0.00E+00	3.35E+08	0.00E+00	1.23E+07	2.04E+02	0.00E+00	7.27E+08	1.23E+07	0.00E+00	0.00E+00	9.60E+03	0.00E+00	4.86E+08	0.00E+00	0.00E+00	7.37E+07	9.60E+01	2.85E+09	5.90E+08	0.00E+00	0.00E+00	1.78E+09	0.00E+00	1.57E+07	1.21E+03	0.00E+00	1.04E+09	7.97E+09
		1.62E+09														7.37E+07			9.60E+01	3.44E+09			1.78E+09		0.00E+00	1.57E+07	1.21E+03	0.00E+00	1.04E+09	7.97E+09

Power Consumption (W)		Power consumption used by core	Power consumption used by L2 cache	Power consumption used by memory
Process	Thread			
2	0	1.94E+00		
2	1	1.94E+00		
2	2	1.93E+00		
2	3	1.93E+00		
2	4	1.93E+00		
2	5	1.93E+00	1.51E+00	3.24E+00
2	6	1.93E+00		
2	7	1.93E+00		
2	8	1.93E+00		
2	9	1.93E+00		
2	10	1.93E+00		
2	11	1.94E+00		
CMG 2 total		2.32E+01	1.51E+00	3.24E+00

Hardware Prefetch Rate (%) (/Hardware Prefetch)		L1			L2			L1/L2
		Stream mode prefetch rate	Injection mode allocate prefetch rate	Injection mode unallocate prefetch rate	Stream mode prefetch rate	Injection mode allocate prefetch rate	Injection mode unallocate prefetch rate	Other hardware prefetch
Process	Thread							
2	0	38.39%	0.00%	0.00%	53.05%	0.00%	0.00%	8.56%
2	1	37.94%	0.00%	0.00%	53.42%	0.00%	0.00%	8.64%
2	2	38.34%	0.00%	0.00%	52.98%	0.00%	0.00%	8.68%
2	3	38.06%	0.00%	0.00%	53.29%	0.00%	0.00%	8.65%
2	4	38.77%	0.00%	0.00%	52.42%	0.00%	0.00%	8.81%
2	5	38.28%	0.00%	0.00%	53.04%	0.00%	0.00%	8.69%
2	6	38.80%	0.00%	0.00%	52.34%	0.00%	0.00%	8.86%
2	7	38.43%	0.00%	0.00%	52.80%	0.00%	0.00%	8.77%
2	8	38.44%	0.00%	0.00%	52.83%	0.00%	0.00%	8.73%
2	9	38.27%	0.00%	0.00%	53.01%	0.00%	0.00%	8.72%
2	10	38.66%	0.00%	0.00%	52.51%	0.00%	0.00%	8.82%
2	11	39.53%	0.00%	0.00%	51.47%	0.00%	0.00%	9.00%
CMG 2 total		38.49%	0.00%	0.00%	52.76%	0.00%	0.00%	8.74%

FLOPS		Double precision floating-point operation	Single precision floating-point operation	Half precision floating-point operation	GFLOPS by Active element rate
Process	Thread				
2	0	1.71.E+09	0.00.E+00	0.00.E+00	4.99
2	1	1.71.E+09	0.00.E+00	0.00.E+00	4.99
2	2	1.71.E+09	0.00.E+00	0.00.E+00	4.99
2	3	1.71.E+09	0.00.E+00	0.00.E+00	4.99
2	4	1.71.E+09	0.00.E+00	0.00.E+00	4.99
2	5	1.71.E+09	0.00.E+00	0.00.E+00	4.99
2	6	1.71.E+09	0.00.E+00	0.00.E+00	4.99
2	7	1.71.E+09	0.00.E+00	0.00.E+00	4.99
2	8	1.71.E+09	0.00.E+00	0.00.E+00	4.99
2	9	1.71.E+09	0.00.E+00	0.00.E+00	4.99
2	10	1.71.E+09	0.00.E+00	0.00.E+00	4.99
2	11	1.71.E+09	0.00.E+00	0.00.E+00	4.99
CMG 2 total		2.05.E+10	0.00.E+00	0.00.E+00	59.86

Extra		Gather instruction rate (%)			Instruction						Branch prediction miss rate (%)
		0 flow rate (%)	1 flow rate (%)	2 flows rate (%)	Micro-operation instruction	Element manipulated instruction	Register manipulated instruction	MOVPRFX instruction	Math functional instruction	Micro decomposition instruction rate (%)	
Process	Thread										
2	0	0.00%	25.92%	74.08%	8.12E+08	1.48E+08	6.56E+05	1.47E+08	0.00E+00	100.00%	0.06%
2	1	0.00%	25.92%	74.08%	8.12E+08	1.48E+08	6.56E+05	1.47E+08	0.00E+00	100.00%	0.06%
2	2	0.00%	25.92%	74.08%	8.12E+08	1.48E+08	6.56E+05	1.47E+08	0.00E+00	100.00%	0.06%
2	3	0.00%	25.92%	74.08%	8.12E+08	1.48E+08	6.56E+05	1.47E+08	0.00E+00	100.00%	0.06%
2	4	0.00%	25.92%	74.08%	8.12E+08	1.48E+08	6.56E+05	1.47E+08	0.00E+00	100.00%	0.05%
2	5	0.00%	25.92%	74.08%	8.12E+08	1.48E+08	6.56E+05	1.47E+08	0.00E+00	100.00%	0.06%
2	6	0.00%	25.92%	74.08%	8.12E+08	1.48E+08	6.56E+05	1.47E+08	0.00E+00	100.00%	0.06%
2	7	0.00%	25.92%	74.08%	8.12E+08	1.48E+08	6.56E+05	1.47E+08	0.00E+00	100.00%	0.05%
2	8	0.00%	25.92%	74.08%	8.12E+08	1.48E+08	6.56E+05	1.47E+08	0.00E+00	100.00%	0.05%
2	9	0.00%	25.92%	74.08%	8.12E+08	1.48E+08	6.56E+05	1.47E+08	0.00E+00	100.00%	0.06%
2	10	0.00%	25.92%	74.08%	8.12E+08	1.48E+08	6.56E+05	1.47E+08	0.00E+00	100.00%	0.06%
2	11	0.00%	25.92%	74.08%	8.12E+08	1.48E+08	6.56E+05	1.47E+08	0.00E+00	100.00%	0.05%
CMG 2 total		0.00%	25.92%	74.08%	9.74E+09	1.78E+09	7.87E+06	1.77E+09	0.00E+00	100.00%	0.06%
		25.92%			9.74E+09	1.79E+09		1.77E+09	0.00E+00	100.00%	0.06%



Data Transfer CMGs		Destination (GB/s)			
		Own memory	Other memory	Tofu	PCI
CMG 2 total	read	2.21E+01	0.00E+00	0.00E+00	0.00E+00
	write	2.49E+00	1.18E-03	0.00E+00	0.00E+00