

CPU Performance Analysis Report 4.2.1

Measured time	Sat Jul 9 20:47:10 2022
Node name	e28-6209c

Process no.	0
CMG no.	0
Measured region	axhelm_kernel, 1

Vector length (bit)	512
CPU frequency (GHz)	1.999

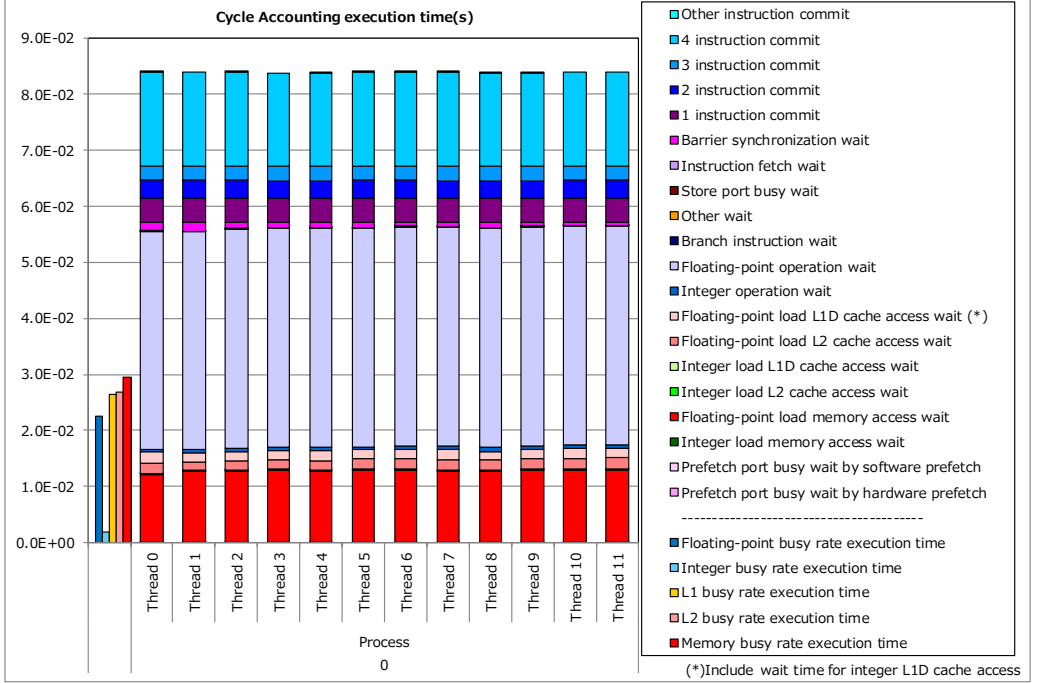
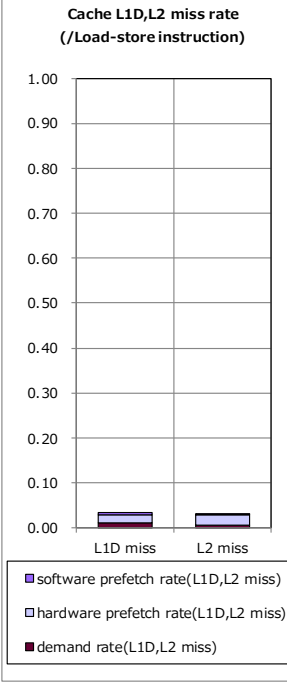
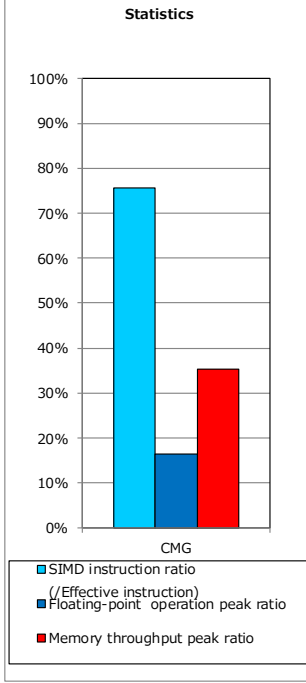
Statistics		Execution time (s)	GFLOPS	Floating-point operation peak ratio (%)	Memory throughput (GB/s)	Memory throughput peak ratio (%)	Effective instruction	Floating-point operation	SIMD instruction rate (%) (/Effective instruction)	SVE operation rate (%)	Floating-point pipeline Active element rate (%)	IPC	GIPS
Process	Thread												
0	0	8.39E-02	10.45	16.34%	7.47		1.70E+08	8.77E+08	75.51%	100.00%	92.67%	1.01	2.03
0	1	8.38E-02	10.46	16.35%	7.54		1.70E+08	8.77E+08	75.53%	100.00%	92.66%	1.01	2.03
0	2	8.39E-02	10.45	16.34%	7.41		1.70E+08	8.77E+08	75.53%	100.00%	92.75%	1.01	2.03
0	3	8.38E-02	10.46	16.35%	7.44		1.70E+08	8.77E+08	75.53%	100.00%	92.67%	1.01	2.03
0	4	8.38E-02	10.46	16.35%	7.58		1.70E+08	8.77E+08	75.53%	100.00%	92.75%	1.01	2.03
0	5	8.39E-02	10.45	16.34%	7.52	35.26%	1.70E+08	8.77E+08	75.53%	100.00%	92.75%	1.01	2.03
0	6	8.39E-02	10.45	16.34%	7.56		1.70E+08	8.77E+08	75.53%	100.00%	92.74%	1.01	2.03
0	7	8.39E-02	10.45	16.34%	7.50		1.70E+08	8.77E+08	75.53%	100.00%	92.69%	1.01	2.03
0	8	8.38E-02	10.46	16.35%	7.46		1.70E+08	8.77E+08	75.53%	100.00%	92.75%	1.01	2.03
0	9	8.38E-02	10.46	16.34%	7.50		1.70E+08	8.77E+08	75.53%	100.00%	92.74%	1.01	2.03
0	10	8.39E-02	10.45	16.34%	7.63		1.70E+08	8.77E+08	75.53%	100.00%	92.68%	1.01	2.03
0	11	8.39E-02	10.45	16.34%	7.65		1.70E+08	8.77E+08	75.53%	100.00%	92.58%	1.01	2.03
CMG 0 total		8.38E-02	125.45	16.34%	90.28	35.26%	2.04E+09	1.05E+10	75.53%	100.00%	92.70%	1.01	24.33

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
Process	Thread	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	
0	0	0.00E+00	0.00E+00	9.44E-05	1.21E-02	5.19E-05	1.84E-04	1.70E-03	2.05E-03	5.19E-04	3.89E-02	2.48E-06	1.65E-05	0.00E+00	1.06E-04	1.50E-03	4.23E-03	3.20E-03	2.53E-03	1.67E-02	2.80E-06	8.39E-02
0	1	0.00E+00	0.00E+00	7.03E-05	1.26E-02	5.91E-05	1.42E-04	1.41E-03	1.63E-03	5.98E-04	3.90E-02	2.32E-06	4.75E-06	0.00E+00	1.86E-05	1.51E-03	4.30E-03	3.21E-03	2.57E-03	1.67E-02	0.00E+00	8.38E-02
0	2	0.00E+00	0.00E+00	5.84E-05	1.28E-02	5.65E-05	1.48E-04	1.62E-03	1.59E-03	5.70E-04	3.91E-02	2.22E-06	1.31E-05	0.00E+00	1.29E-04	1.04E-03	4.33E-03	3.18E-03	2.58E-03	1.67E-02	9.55E-08	8.39E-02
0	3	0.00E+00	0.00E+00	5.92E-05	1.29E-02	5.53E-05	1.42E-04	1.60E-03	1.71E-03	4.69E-04	3.91E-02	2.05E-06	1.31E-05	0.00E+00	1.27E-04	9.35E-04	4.30E-03	3.17E-03	2.58E-03	1.66E-02	0.00E+00	8.38E-02
0	4	1.65E-08	0.00E+00	6.09E-05	1.27E-02	5.79E-05	1.44E-04	1.66E-03	1.66E-03	6.18E-04	3.91E-02	2.11E-06	4.25E-06	0.00E+00	1.75E-05	1.04E-03	4.29E-03	3.19E-03	2.59E-03	1.66E-02	1.27E-05	8.38E-02
0	5	3.50E-09	0.00E+00	6.26E-05	1.28E-02	5.72E-05	1.51E-04	1.83E-03	1.64E-03	4.48E-04	3.91E-02	2.21E-06	4.71E-06	0.00E+00	1.81E-05	1.03E-03	4.29E-03	3.18E-03	2.58E-03	1.67E-02	2.01E-06	8.39E-02
0	6	0.00E+00	0.00E+00	6.27E-05	1.29E-02	5.86E-05	1.50E-04	1.76E-03	1.69E-03	6.67E-04	3.91E-02	2.27E-06	1.24E-05	0.00E+00	1.28E-04	6.56E-04	4.33E-03	3.18E-03	2.60E-03	1.66E-02	2.34E-06	8.39E-02
0	7	0.00E+00	0.00E+00	5.79E-05	1.27E-02	5.87E-05	1.43E-04	1.80E-03	1.92E-03	4.63E-04	3.91E-02	2.12E-06	6.93E-06	0.00E+00	5.49E-05	7.66E-04	4.30E-03	3.18E-03	2.62E-03	1.66E-02	1.37E-06	8.39E-02
0	8	0.00E+00	0.00E+00	5.79E-05	1.27E-02	5.94E-05	1.39E-04	1.83E-03	1.45E-03	7.99E-04	3.91E-02	2.25E-06	4.43E-06	0.00E+00	1.70E-05	1.01E-03	4.32E-03	3.17E-03	2.59E-03	1.66E-02	9.10E-06	8.38E-02
0	9	0.00E+00	0.00E+00	6.06E-05	1.28E-02	5.86E-05	1.49E-04	1.89E-03	1.64E-03	7.07E-04	3.91E-02	2.28E-06	4.56E-06	0.00E+00	2.19E-05	6.62E-04	4.29E-03	3.17E-03	2.58E-03	1.67E-02	1.64E-05	8.38E-02
0	10	1.10E-08	0.00E+00	6.23E-05	1.28E-02	6.05E-05	1.49E-04	1.99E-03	1.71E-03	6.93E-04	3.90E-02	2.16E-06	4.16E-06	0.00E+00	1.83E-05	5.93E-04	4.31E-03	3.21E-03	2.57E-03	1.67E-02	0.00E+00	8.39E-02
0	11	0.00E+00	0.00E+00	5.99E-05	1.29E-02	5.72E-05	1.47E-04	1.95E-03	1.74E-03	5.27E-04	3.91E-02	1.96E-06	4.55E-06	0.00E+00	1.65E-05	5.53E-04	4.31E-03	3.21E-03	2.56E-03	1.67E-02	0.00E+00	8.39E-02
CMG 0 total		2.58E-09	0.00E+00	6.39E-05	1.27E-02	5.76E-05	1.49E-04	1.75E-03	1.70E-03	5.90E-04	3.91E-02	2.20E-06	7.79E-06	0.00E+00	5.61E-05	9.42E-04	4.30E-03	3.19E-03	2.58E-03	1.67E-02	3.91E-06	8.38E-02

(*) 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														
0	0	32.31%	21.70%	1.46%	3.20%	31.76%			27.36%	20.21%	87.75%	100.00%	100.00%	100.00%	0.02
0	1	32.34%	21.71%	1.42%	3.23%	31.47%			27.17%	20.01%	87.73%	100.00%	100.00%	100.00%	0.01
0	2	32.28%	21.70%	1.43%	3.23%	31.48%			27.16%	20.01%	87.87%	100.00%	100.00%	100.00%	0.02
0	3	32.35%	21.66%	1.43%	3.21%	31.54%			27.20%	20.00%	87.77%	100.00%	100.00%	100.00%	0.01
0	4	32.27%	21.71%	1.45%	3.27%	31.44%			27.33%	20.09%	87.87%	100.00%	100.00%	100.00%	0.01
0	5	32.29%	21.70%	1.46%	3.27%	31.46%	31.94%	35.26%	27.30%	20.13%	87.87%	100.00%	100.00%	100.00%	0.01
0	6	32.32%	21.67%	1.43%	3.23%	31.48%			27.15%	20.02%	87.88%	100.00%	100.00%	100.00%	0.01
0	7	32.34%	21.66%	1.42%	3.21%	31.56%			27.19%	19.98%	87.79%	100.00%	100.00%	100.00%	0.02
0	8	32.30%	21.69%	1.40%	3.20%	31.50%			27.19%	20.02%	87.87%	100.00%	100.00%	100.00%	0.02
0	9	32.30%	21.67%	1.45%	3.27%	31.49%			27.42%	20.13%	87.88%	100.00%	100.00%	100.00%	0.02
0	10	32.35%	21.68%	1.42%	3.21%	31.56%			27.22%	20.00%	87.77%	100.00%	100.00%	100.00%	0.01
0	11	32.36%	21.72%	1.45%	3.29%	31.71%			27.39%	20.12%	87.60%	100.00%	100.00%	100.00%	0.02
CMG 0 total		32.32%	21.69%	1.43%	3.24%	31.54%	31.94%	35.26%	27.26%	20.06%	87.80%	100.00%	100.00%	100.00%	0.02

Cache		L1L1 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														
0	0	0.00	7.07E+07	2.41E+06	0.03	29.31%	59.90%	10.80%	2.22E+06	0.03	16.08%	77.15%	6.77%	0.00000	0.00000
0	1	0.00	7.07E+07	2.37E+06	0.03	29.19%	59.45%	11.36%	2.21E+06	0.03	15.35%	76.96%	7.69%	0.00000	0.00000
0	2	0.00	7.07E+07	2.37E+06	0.03	29.41%	59.25%	11.34%	2.21E+06	0.03	15.93%	76.40%	7.67%	0.00000	0.00000
0	3	0.00	7.07E+07	2.37E+06	0.03	29.47%	59.18%	11.34%	2.21E+06	0.03	16.22%	76.13%	7.64%	0.00000	0.00000
0	4	0.00	7.07E+07	2.37E+06	0.03	29.22%	59.43%	11.35%	2.21E+06	0.03	15.16%	77.02%	7.82%	0.00000	0.00000
0	5	0.00	7.07E+07	2.37E+06	0.03	29.27%	59.52%	11.21%	2.21E+06	0.03	15.26%	76.90%	7.84%	0.00000	0.00000
0	6	0.00	7.07E+07	2.37E+06	0.03	29.22%	59.44%	11.34%	2.21E+06	0.03	15.22%	76.99%	7.78%	0.00000	0.00000
0	7	0.00	7.07E+07	2.37E+06	0.03	29.31%	59.37%	11.32%	2.20E+06	0.03	15.40%	76.78%	7.83%	0.00000	0.00000
0	8	0.00	7.07E+07	2.37E+06	0.03	29.27%	59.40%	11.33%	2.21E+06	0.03	15.26%	76.86%	7.87%	0.00000	0.00000
0	9	0.00	7.07E+07	2.37E+06	0.03	29.26%	59.37%	11.37%	2.21E+06	0.03	15.07%	77.02%	7.91%	0.00000	0.00000
0	10	0.00	7.07E+07	2.37E+06	0.03	29.26%	59.19%	11.55%	2.20E+06	0.03	15.35%	76.84%	7.81%	0.00000	0.00000
0	11	0.00	7.07E+07	2.37E+06	0.03	29.38%	59.31%	11.30%	2.21E+06	0.03	15.50%	76.65%	7.85%	0.00000	0.00000
CMG 0 total		0.00	8.48E+08	2.85E+07	0.03	29.30%	59.40%	11.30%	2.65E+07	0.03	15.48%	76.81%	7.71%	0.00000	0.00000



Instruction		Load-store instruction														Prefetch 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							Contiguous prefetch instruction	Gathering prefetch instruction	Scalar prefetch instruction	DCZVA instruction	Floating-point exception FMA and reciprocal	FMA instruction	Floating-point reciprocal instruction	Floating-point conversion instruction	Floating-point store instruction						
		SIMD							Non-SIMD																					
		Single vector contiguous load instruction	Multiple vector contiguous 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 store instruction	Non-contiguous scatter store instruction	Floating-point register spill instruction	Predicate register spill instruction	Non-SIMD store instruction															
Process	Thread	0	1	2	3	4	5	6	7	8	9	10	11	CMG 0 total	0	1	2	3	4	5	6	7	8	9	10	11	CMG 0 total			
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.17E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.89E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07	5.12E+06	0.00E+00	0.00E+00	8.70E+05	0.00E+00	1.15E+06	0.00E+00	1.41E+06	8.00E+00	1.13E+07	4.92E+07	0.00E+00	0.00E+00	2.36E+07	0.00E+00	2.85E+05	1.01E+02	0.00E+00	1.37E+07	1.70E+08	
		1.94E+07	0.00E+00	0.00E+00	3.59E+06	1.55E+07	1.70E+01	0.00E+00	2.51E+07																					