Energy Scope report

Date of the report: 2022/04/19 20:03:01

GENERAL INFORMATION

- Jobid: 20220419215021
- Command: /root/energy-consumption-of-gpu-benchmarks//results/night_exp_19_04/448_0//gpu0/scripts/script_final.sh
- Date of run: 2022/04/19 21:50:21.590485
- Duration (including ES prologue and epilogue): 743 (sec)

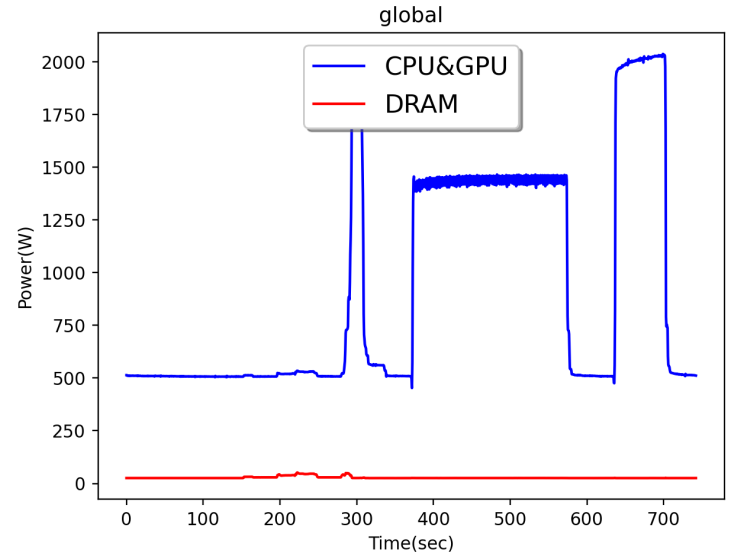
ARCHITECTURE INFORMATION

- nodelist: gemini-1
- processors type: Intel(R)Xeon(R)CPUE5-2698v4@2.20GHz (TDP=135W)
- gpu type: Tesla V100-SXM2-32GB (TDP=250W)

ENERGY DATA

- Ratio Energy / Duration= 960.2 (J/sec)
- Application energy consumption measurement: 713439 (J) 0.1982 (kWh)
- Global application energy consumption estimation: 1055219 (J) 0.2931 (kWh)
- Global application carbon production estimation (FR): 14.972 (gCO2)
- Energy efficiency (ref TDP): 42.3 (%)

Eprofile:



ENERGY ACQUISITION INFORMATION

- Period(ms): 521.149
- Acquisition quality (low, medium, high): high
- Information dumped: ecpu edram core_temperature

ENERGY BEHAVIOR

SUMMARY

node	cpu/gpu	model	TDP (W)	Energy (J)	efficiency (%)	Cores Temp (C)
node gemini-1						
	cpu 0	Intel(R)Xeon(R)CPUE5-2698v4@2.20GHz	135	66272	56.1	59.2
	cpu 1	Intel(R)Xeon(R)CPUE5-2698v4@2.20GHz	135	64309	53.7	53.7
	gpu gpu-nvidia-0	Tesla V100-SXM2-32GB	250	72316	38.9	20.0
	gpu gpu-nvidia-1	Tesla V100-SXM2-32GB	250	74647	40.2	20.0
	gpu gpu-nvidia-2	Tesla V100-SXM2-32GB	250	71968	38.7	20.0

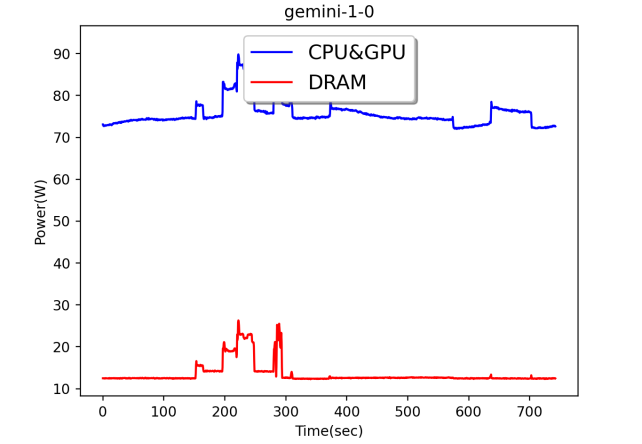
node	cpu/gpu	model	TDP (W)	Energy (J)	efficiency (%)	Cores Temp (C)
	gpu gpu-nvidia-3	Tesla V100-SXM2-32GB	250	72540	39.1	20.0
	gpu gpu-nvidia-4	Tesla V100-SXM2-32GB	250	73042	39.3	20.0
	gpu gpu-nvidia-5	Tesla V100-SXM2-32GB	250	73190	39.4	20.0
	gpu gpu-nvidia-6	Tesla V100-SXM2-32GB	250	72870	39.2	20.0
	gpu gpu-nvidia-7	Tesla V100-SXM2-32GB	250	72285	38.9	20.0

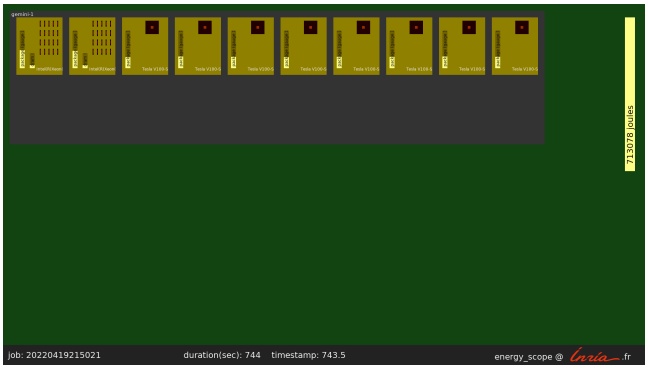
PROFILES and CORE TEMPERATURE

Images showing core temperature are generated when the average (of all the core) is maximum.

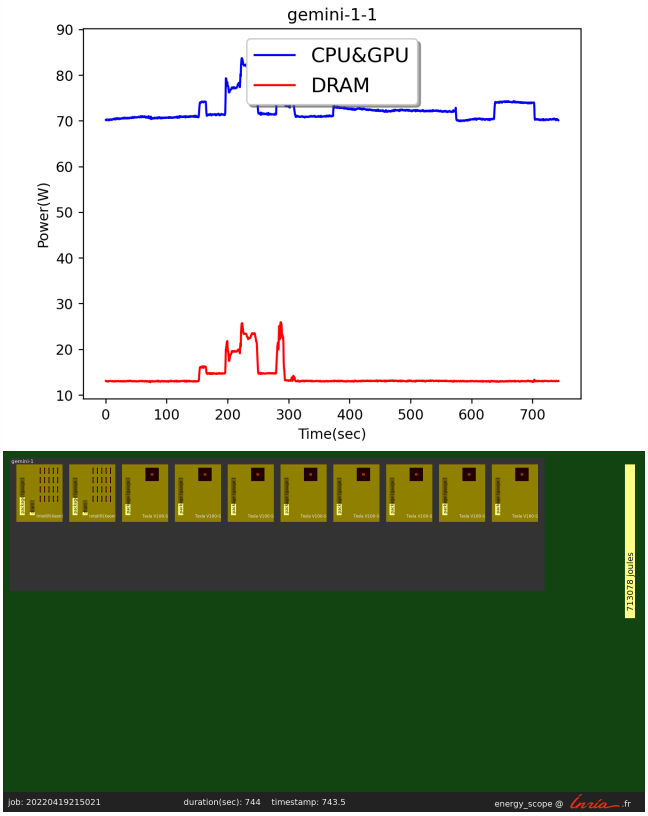
The full video showing the core temperature and the energy consumption over the time is available on demand.

*node gemini-1/0





*node gemini-1/1



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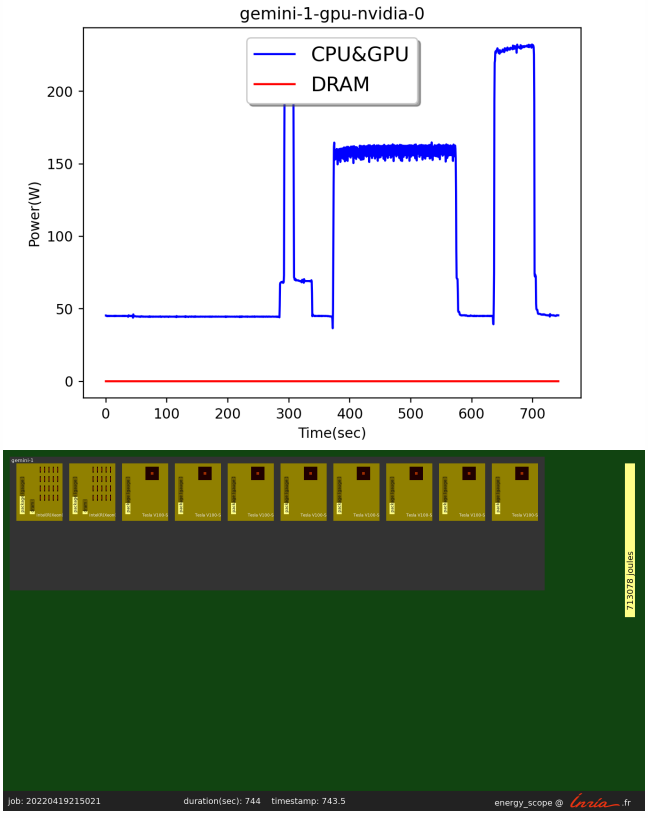

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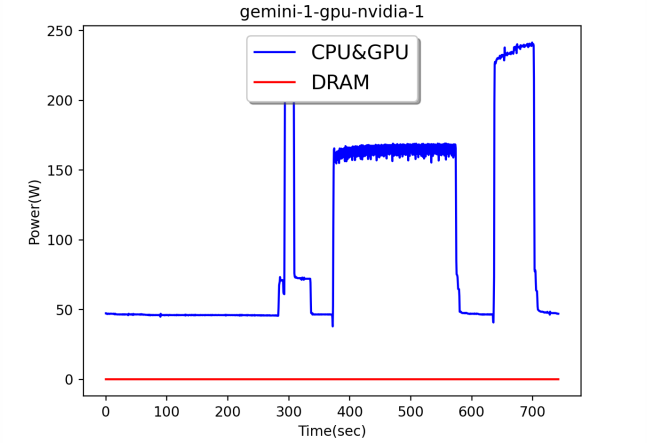

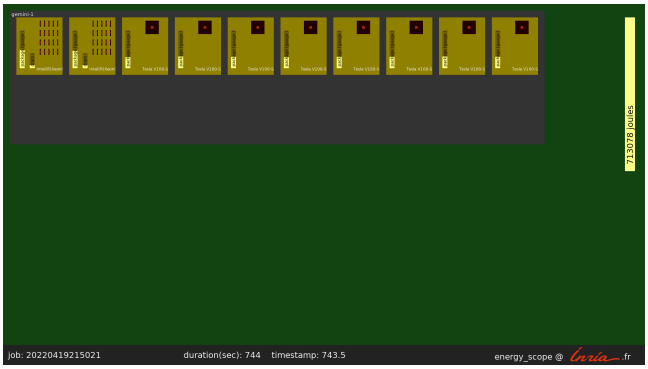

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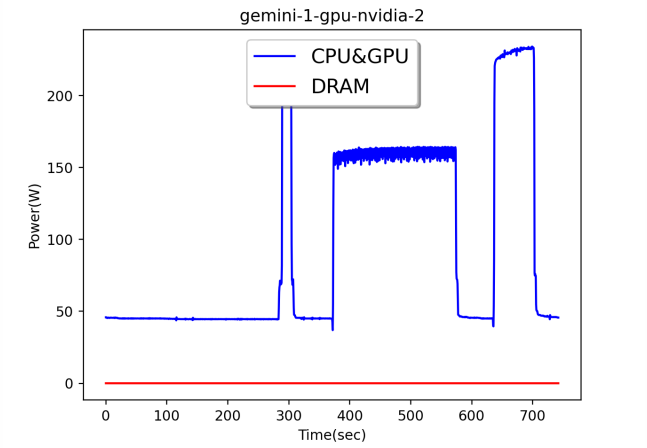

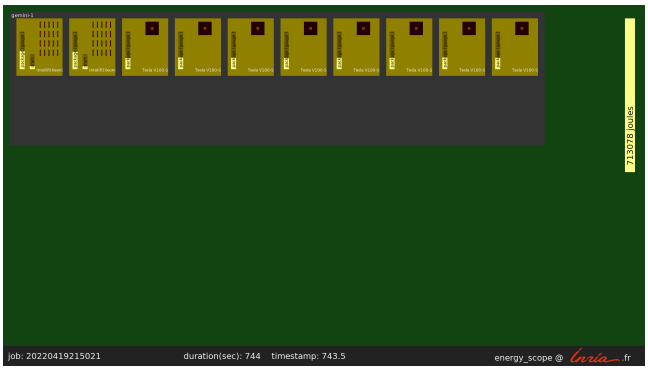

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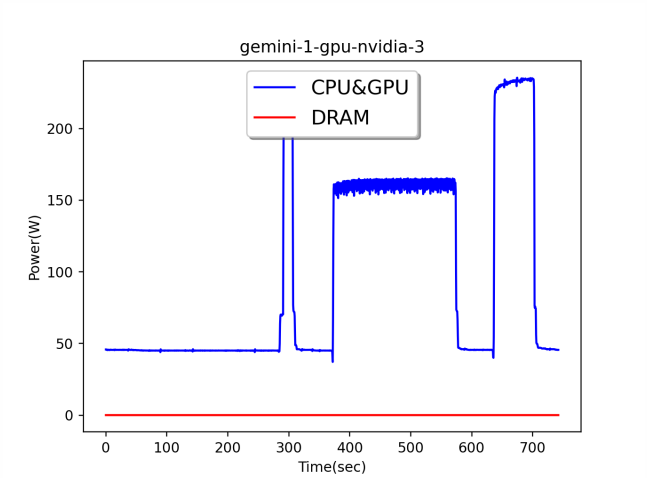

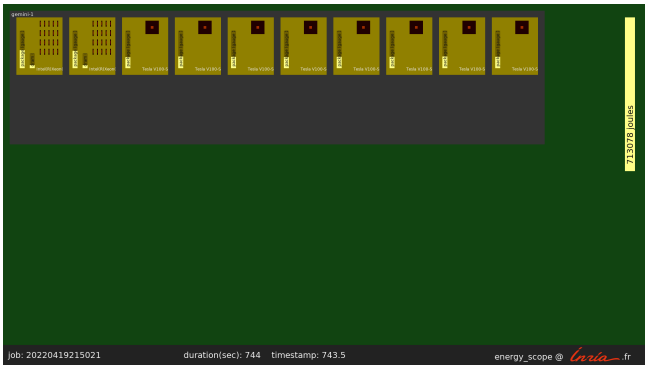

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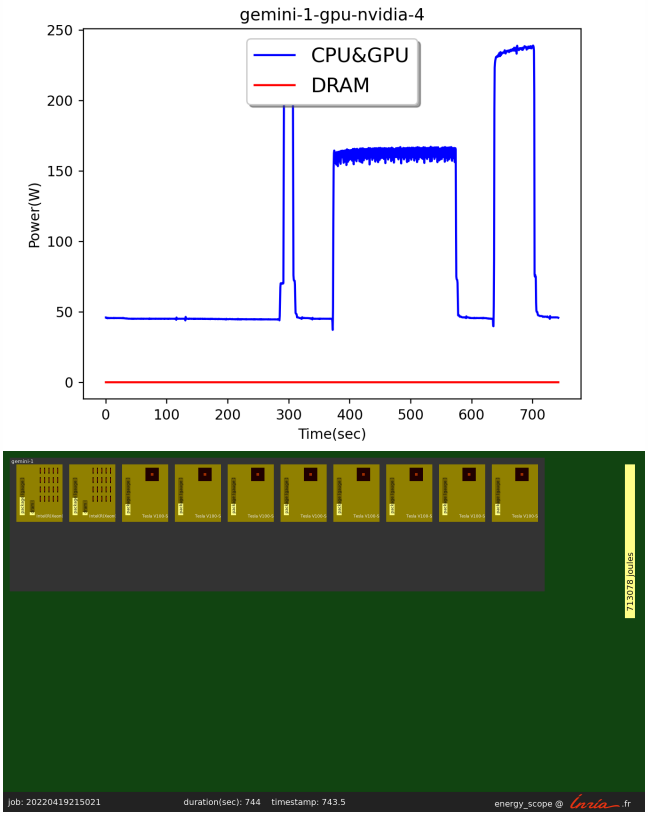

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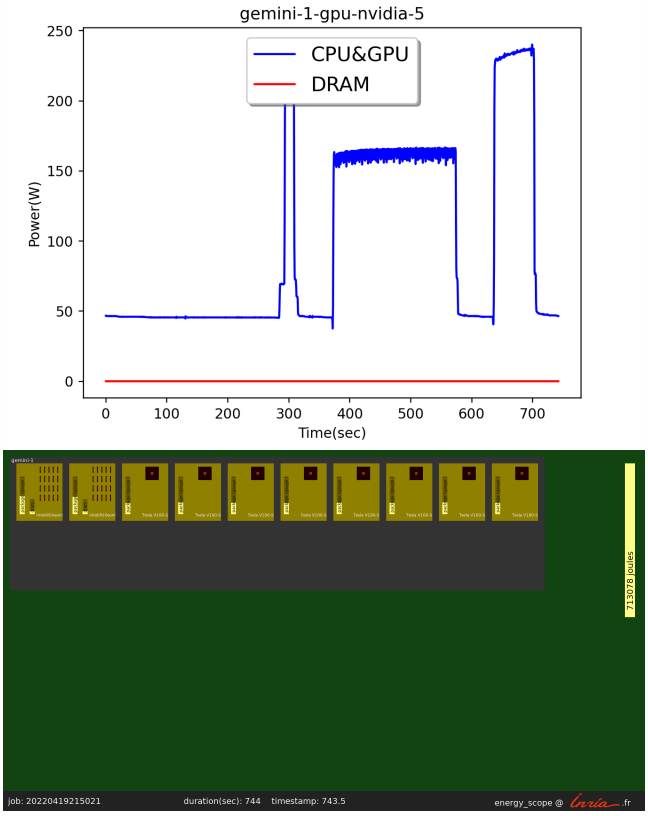

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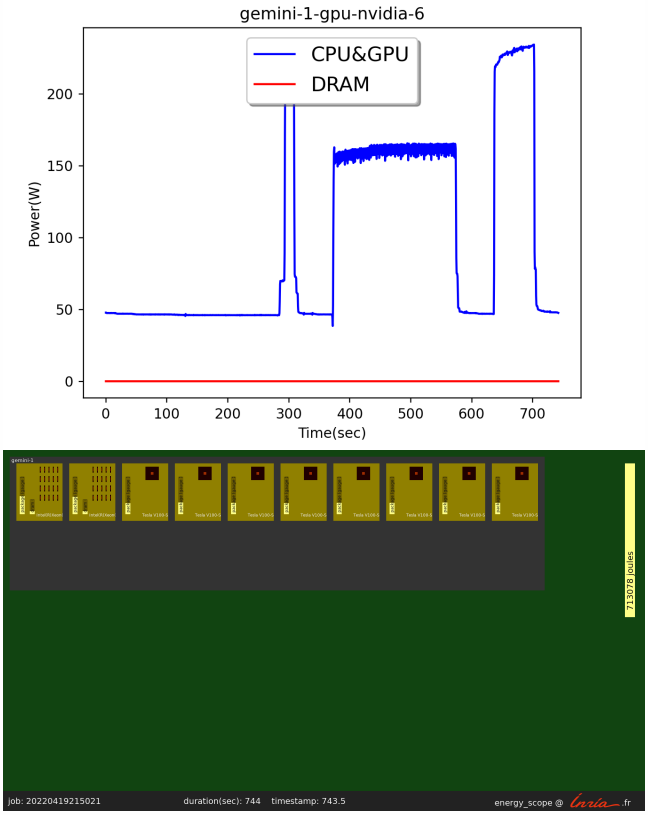

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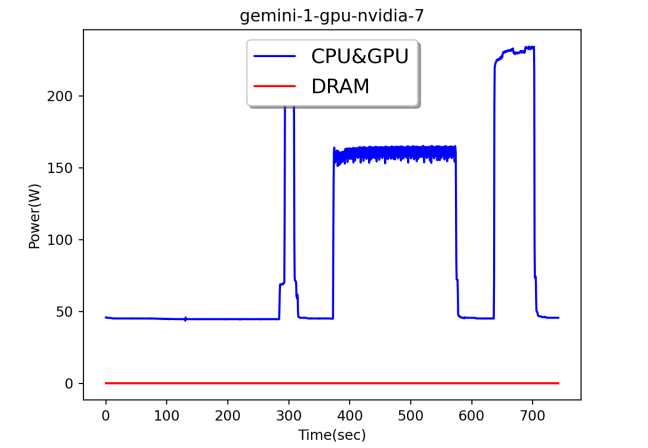

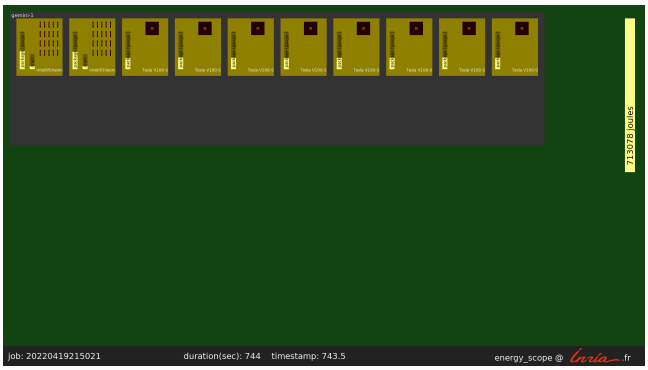
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energy_scope @ inria.fr