Energy Scope report

Date of the report: 2022/04/19 18:41:07

GENERAL INFORMATION

- Jobid: 20220419193242
- Command: /root/energy-consumption-of-gpu-benchmarks//results/night_exp_19_04/298_0//gpu0/scripts/script_final.sh
- Date of run: 2022/04/19 19:32:42.669905
- Duration (including ES prologue and epilogue): 4085 (sec)

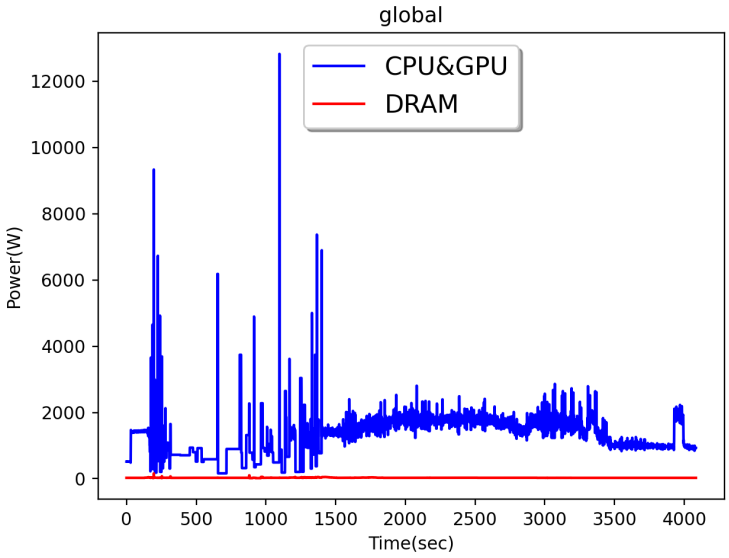
ARCHITECTURE INFORMATION

- 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= 1333.5 (J/sec)
- Application energy consumption measurement: 5447469 (J) 1.5132 (kWh)
- Global application energy consumption estimation: 7326569 (J) 2.0352 (kWh)
- Global application carbon production estimation (FR): 103.989 (gCO2)
- Energy efficiency (ref TDP): 58.75 (%)

Eprofile:



ENERGY ACQUISITION INFORMATION

- Period(ms): 1407.889
- Acquisition quality (low, medium, high): low
- 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	403051	62.9	58.9
	cpu 1	Intel(R)Xeon(R)CPUE5-2698v4@2.20GHz	135	389819	60.1	55.4
	gpu gpu-nvidia-0	Tesla V100-SXM2-32GB	250	537784	52.7	20.0
	gpu gpu-nvidia-1	Tesla V100-SXM2-32GB	250	556715	54.5	20.0
	gpu gpu-nvidia-2	Tesla V100-SXM2-32GB	250	500931	49.1	20.0

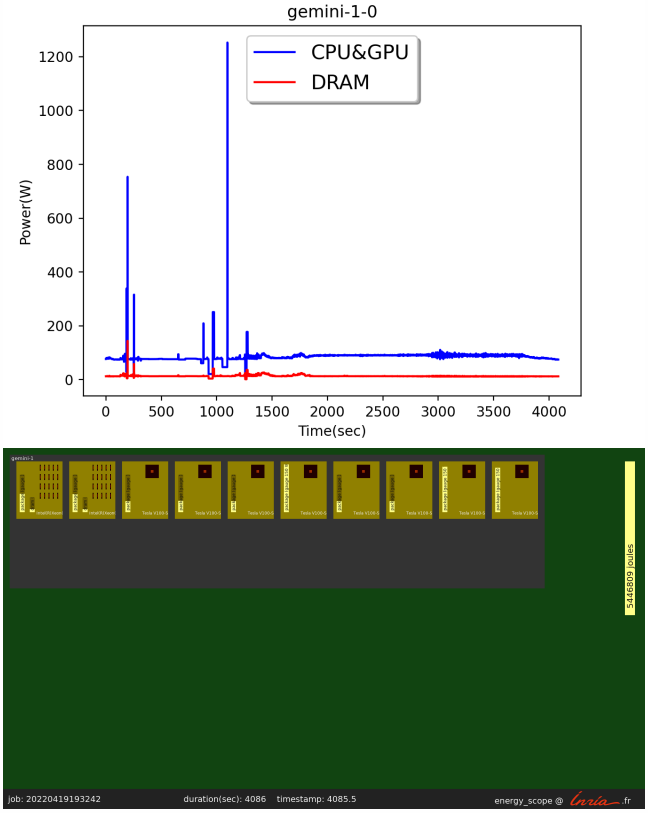
node	cpu/gpu	model	TDP (W)	Energy (J)	efficiency (%)	Cores Temp (C)
	gpu gpu-nvidia-3	Tesla V100-SXM2-32GB	250	659311	64.6	20.0
	gpu gpu-nvidia-4	Tesla V100-SXM2-32GB	250	536367	52.5	20.0
	gpu gpu-nvidia-5	Tesla V100-SXM2-32GB	250	549685	53.8	20.0
	gpu gpu-nvidia-6	Tesla V100-SXM2-32GB	250	654881	64.1	20.0
	gpu gpu-nvidia-7	Tesla V100-SXM2-32GB	250	658925	64.5	20.0

PROFILES and CORE TEMPERATURE

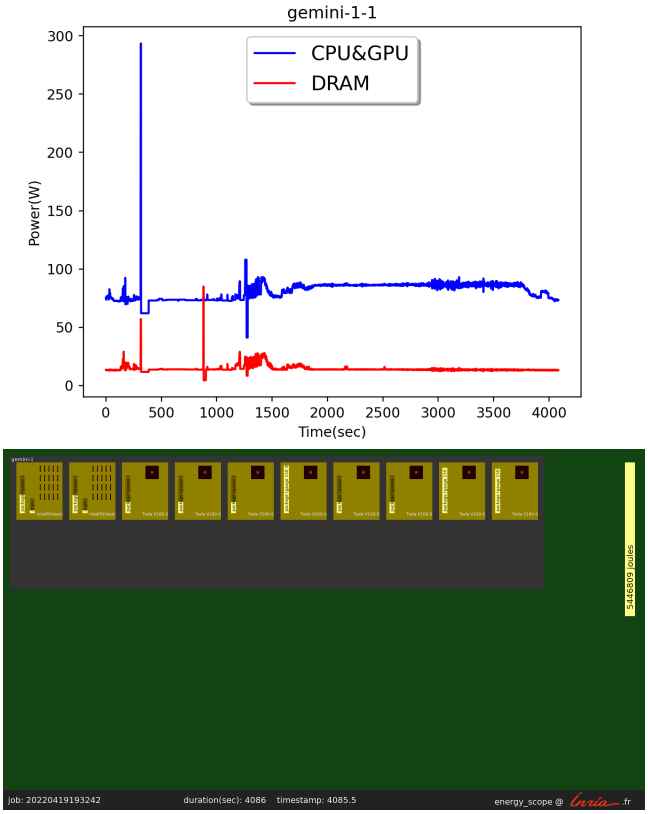
Images showing core temperature are generated when the average (of all the core) is maximum.

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

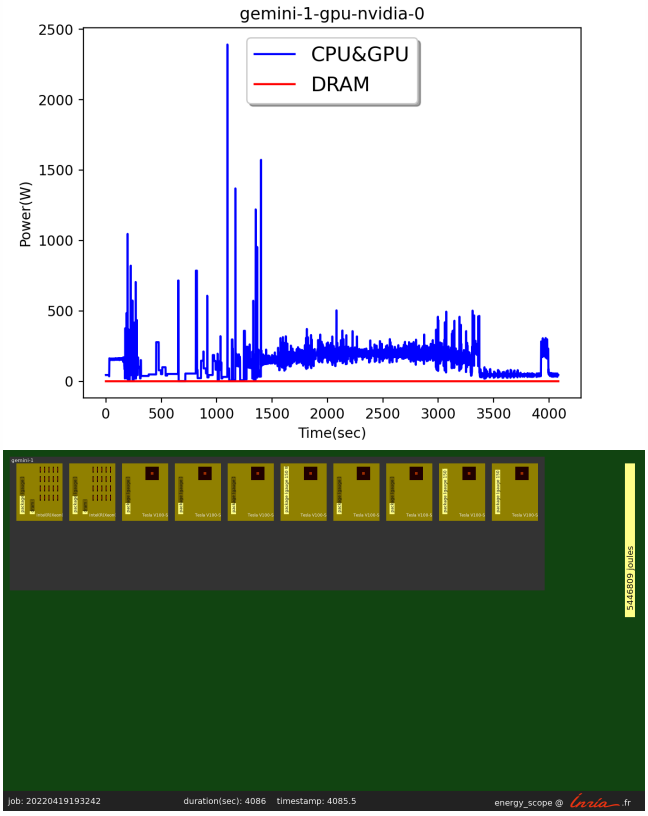
*node gemini-1/0



*node gemini-1/1



*node gemini-1/gpu-nvidia-0



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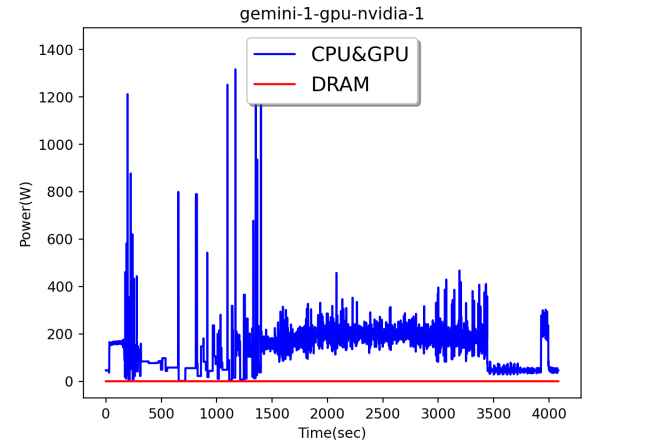
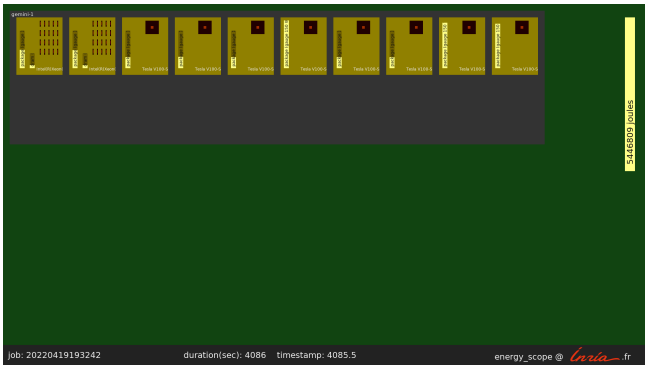
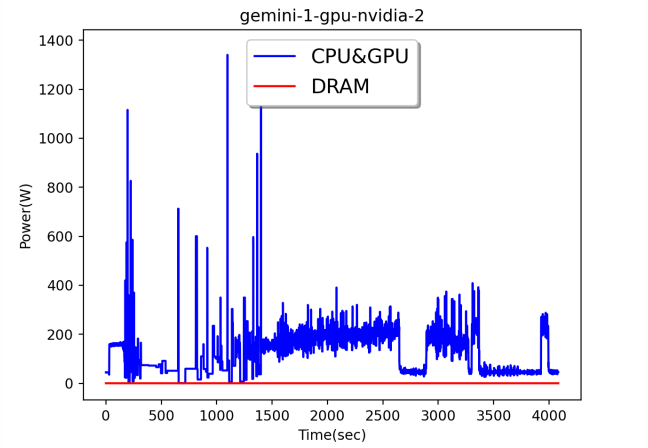
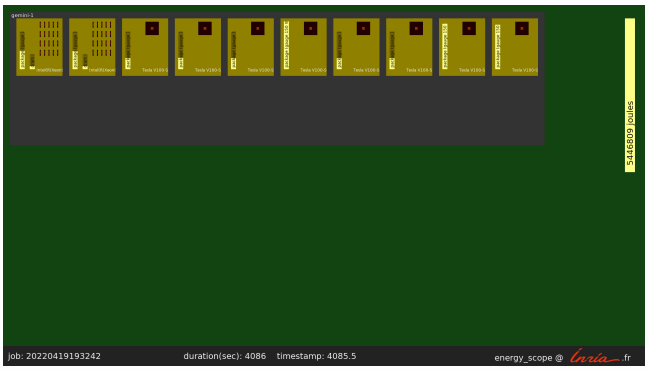


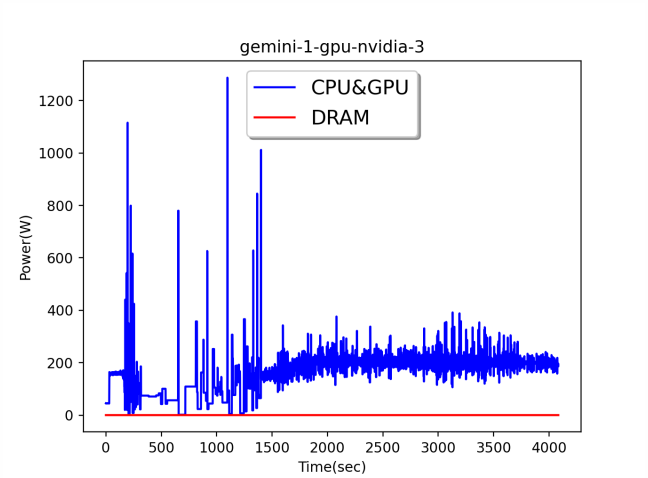


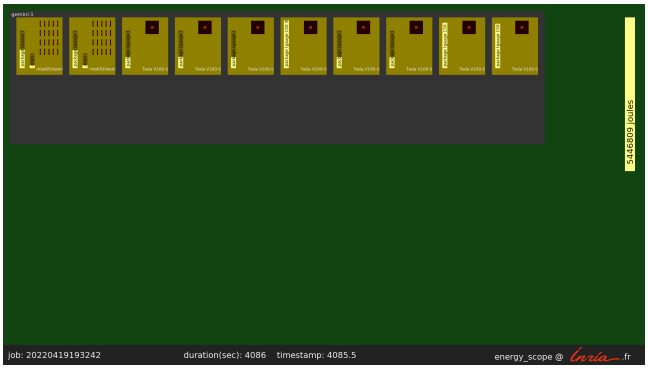
*node gemini-1/gpu-nvidia-2



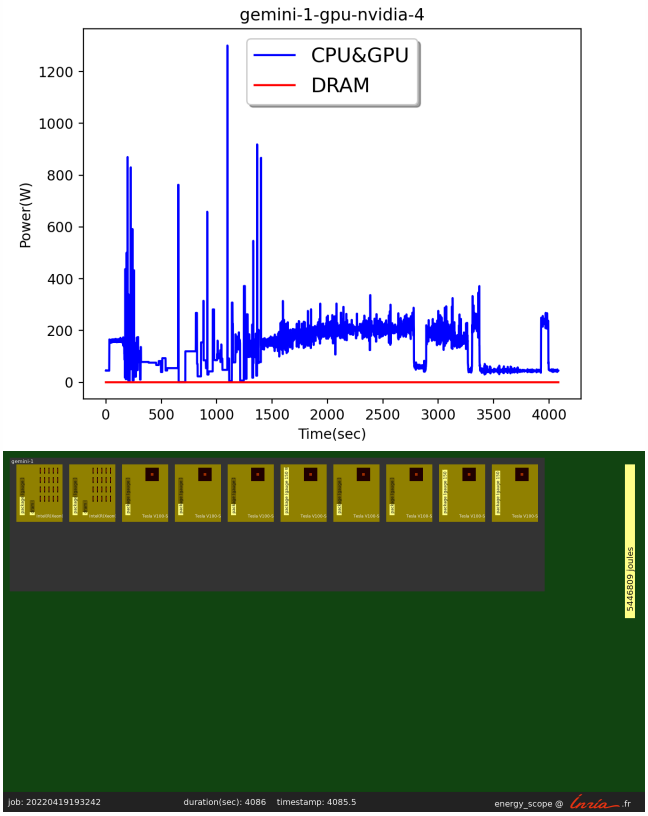


*node gemini-1/gpu-nvidia-3

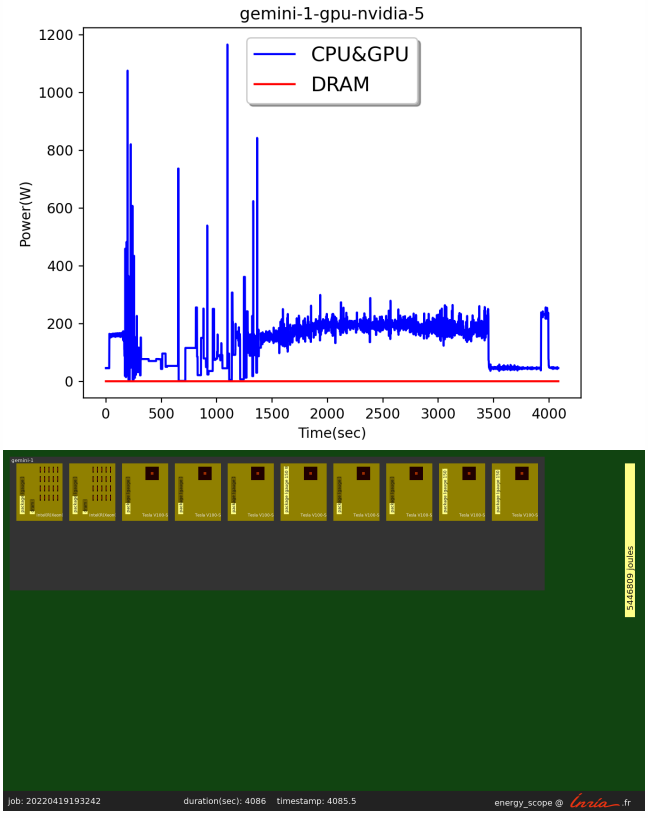




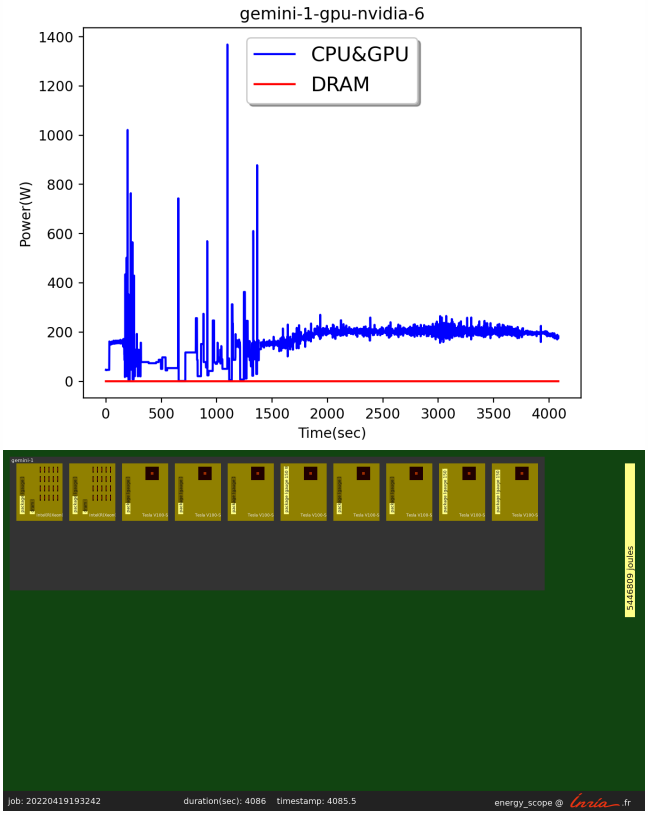
*node gemini-1/gpu-nvidia-4



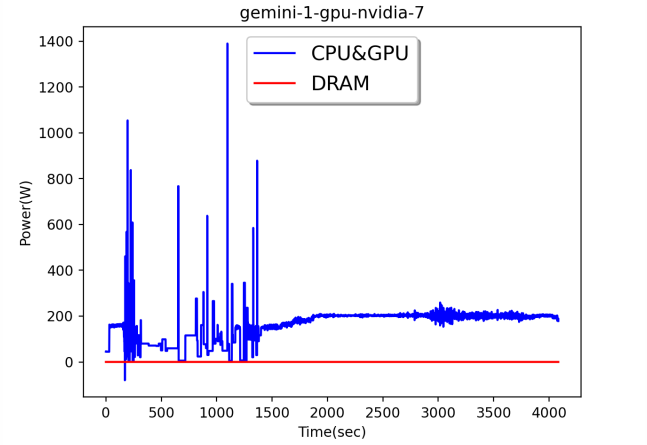
*node gemini-1/gpu-nvidia-5

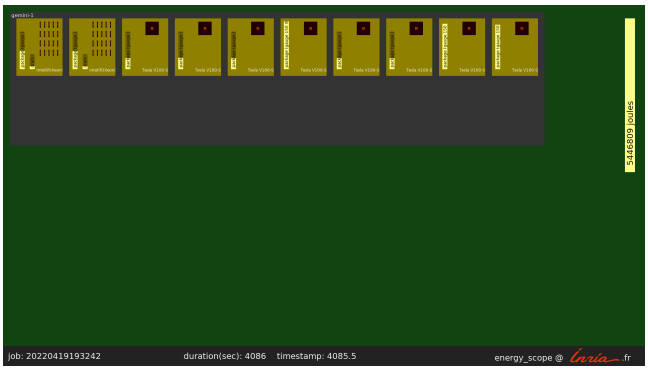


*node gemini-1/gpu-nvidia-6



*node gemini-1/gpu-nvidia-7




gemini-1
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energy_scope @ inria.fr