

# Energy Scope report

Date of the report: 2022/04/19 22:10:30

## GENERAL INFORMATION

- Jobid: 20220419235751
- Command: /root/energy-consumption-of-gpu-benchmarks//results/night\_exp\_19\_04/27\_0//gpu0/scripts/script\_final.sh
- Date of run: 2022/04/19 23:57:51.379093
- Duration (including ES prologue and epilogue): 743 (sec)

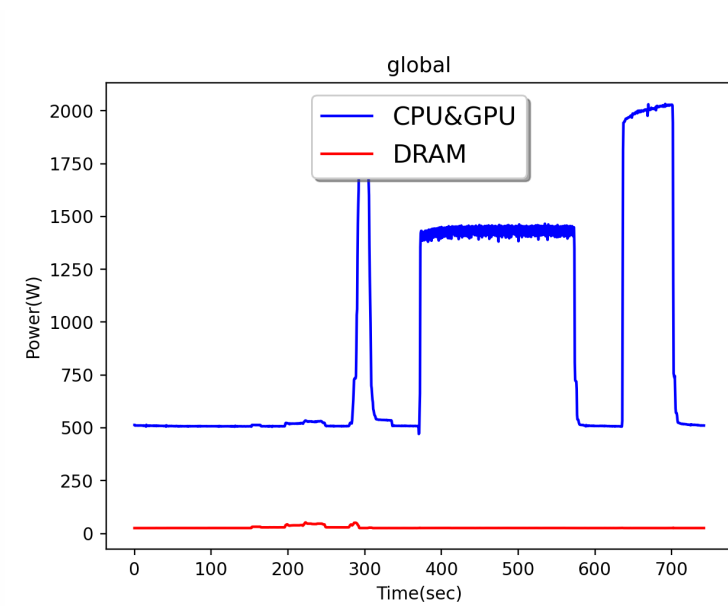
## ARCHITECTURE INFORMATION

- 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= 956.8 (J/sec)
- Application energy consumption measurement: 710875 (J) 0.1975 (kWh)
- Global application energy consumption estimation: 1052655 (J) 0.2924 (kWh)
- Global application carbon production estimation (FR): 14.921 (gCO2)
- Energy efficiency (ref TDP): 42.15 (%)

Eprofile:



ENERGY ACQUISITION INFORMATION

- Period(ms): 521.194
- 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	66441	56.2	59.6
	cpu 1	Intel(R)Xeon(R)CPUE5-2698v4@2.20GHz	135	64177	53.6	53.4
	gpu gpu-nvidia-0	Tesla V100-SXM2-32GB	250	71511	38.5	20.0
	gpu gpu-nvidia-1	Tesla V100-SXM2-32GB	250	74267	40.0	20.0
	gpu gpu-nvidia-2	Tesla V100-SXM2-32GB	250	71949	38.7	20.0

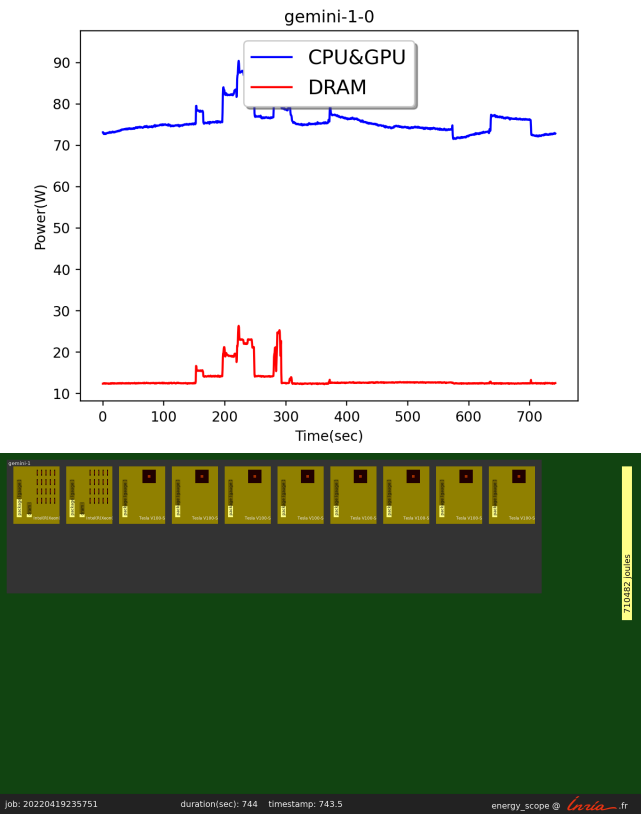
node	cpu/gpu	model	TDP (W)	Energy (J)	efficiency (%)	Cores Temp (C)
	gpu gpu-nvidia-3	Tesla V100-SXM2-32GB	250	72445	39.0	20.0
	gpu gpu-nvidia-4	Tesla V100-SXM2-32GB	250	72862	39.2	20.0
	gpu gpu-nvidia-5	Tesla V100-SXM2-32GB	250	72847	39.2	20.0
	gpu gpu-nvidia-6	Tesla V100-SXM2-32GB	250	72357	39.0	20.0
	gpu gpu-nvidia-7	Tesla V100-SXM2-32GB	250	72019	38.8	20.0

PROFILES and CORE TEMPERATURE

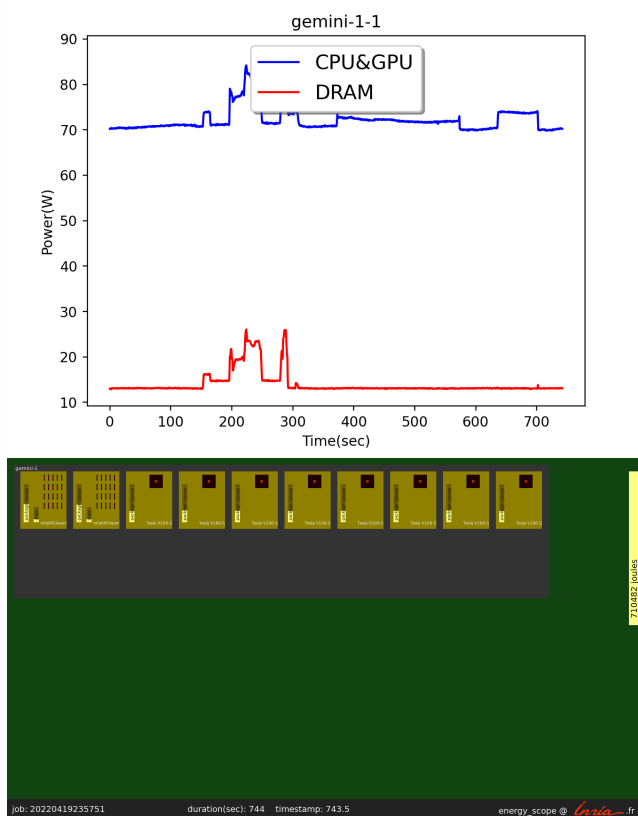
Images showing core temperature are generated when the average (of all the core) is maximum.

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

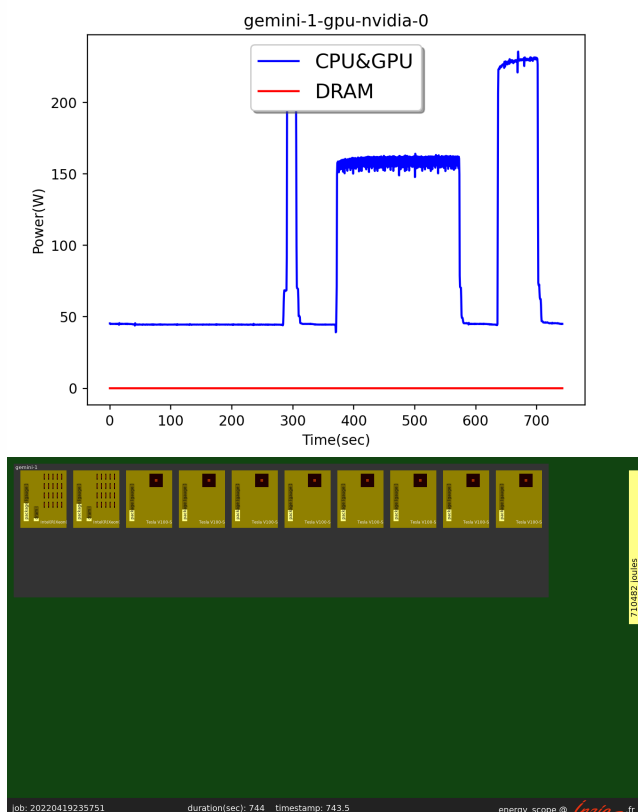
\*node gemini-1/0



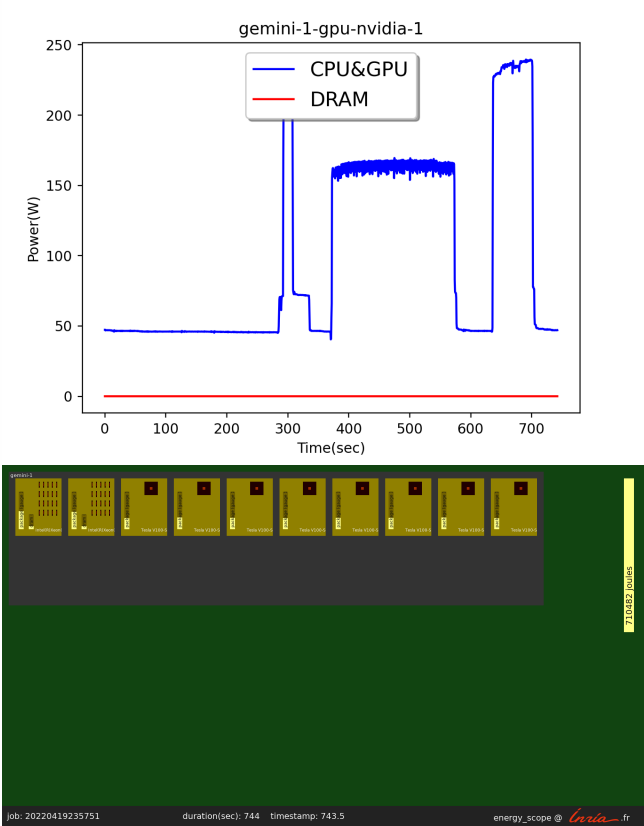
\*node gemini-1/1



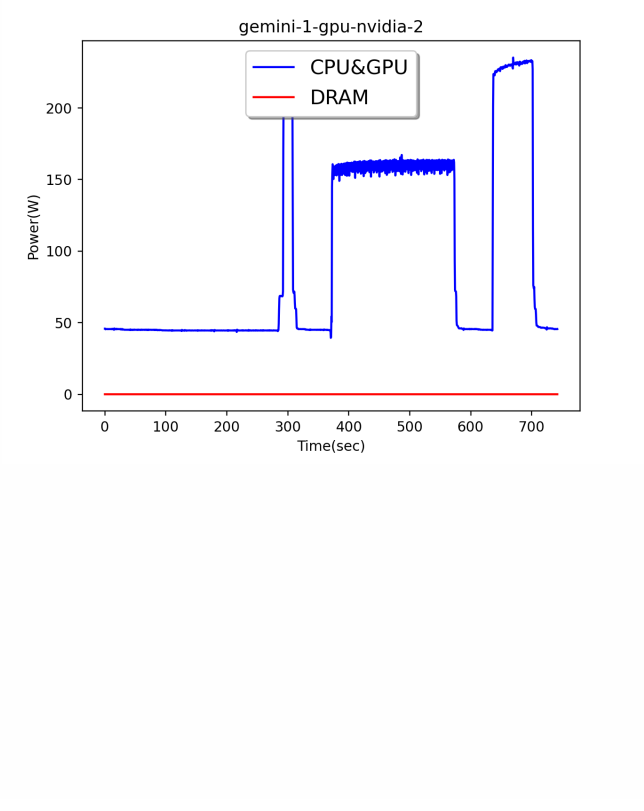
\*node gemini-1/gpu-nvidia-0

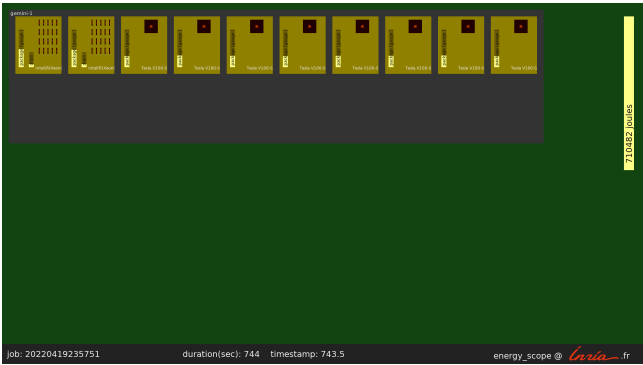


\*node gemini-1/gpu-nvidia-1

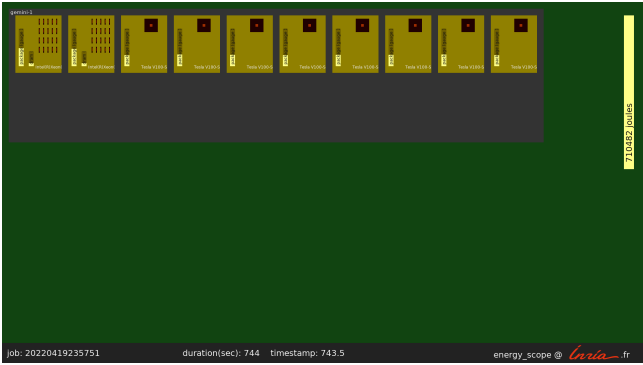
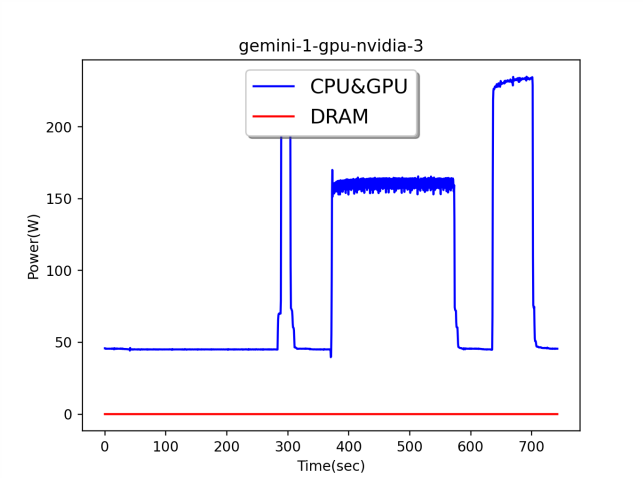


\*node gemini-1/gpu-nvidia-2

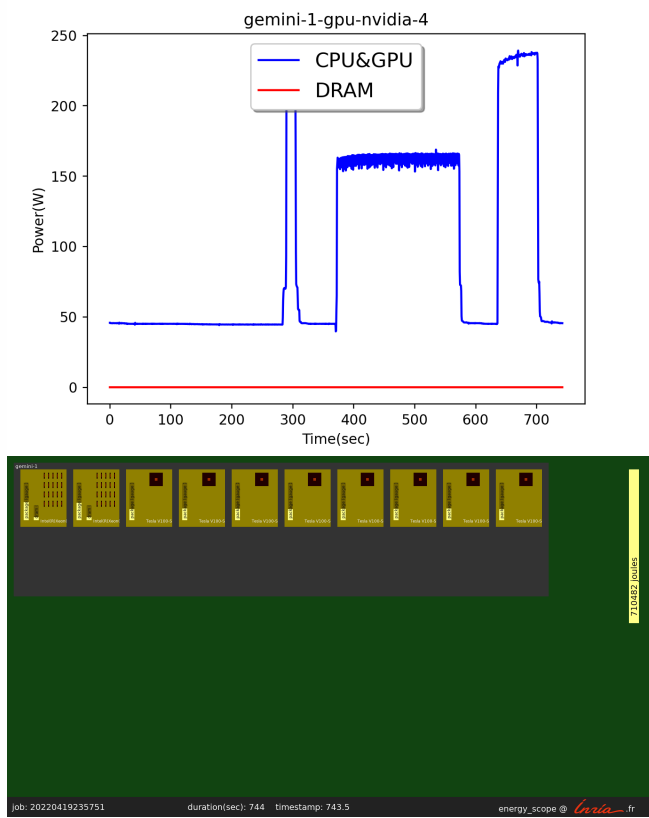




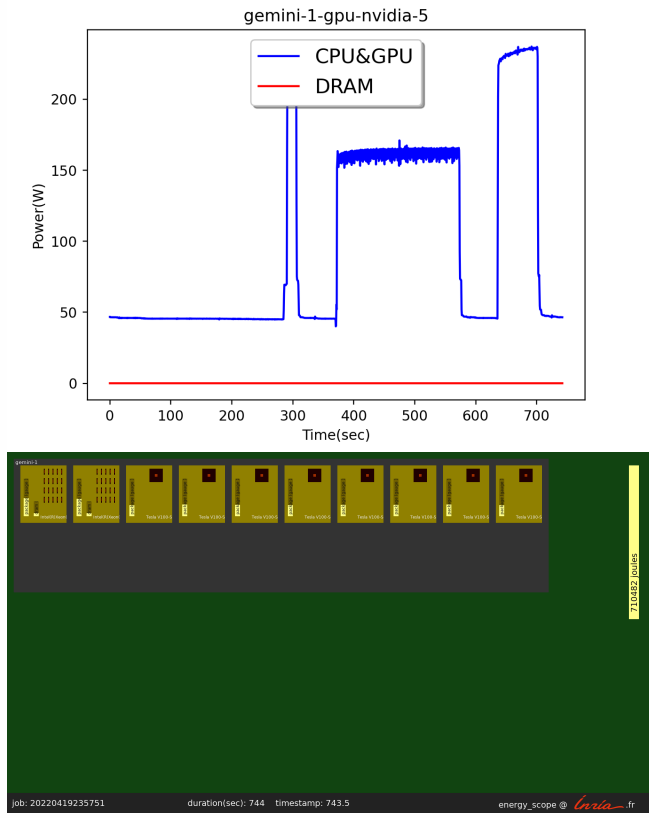
\*node gemini-1/gpu-nvidia-3



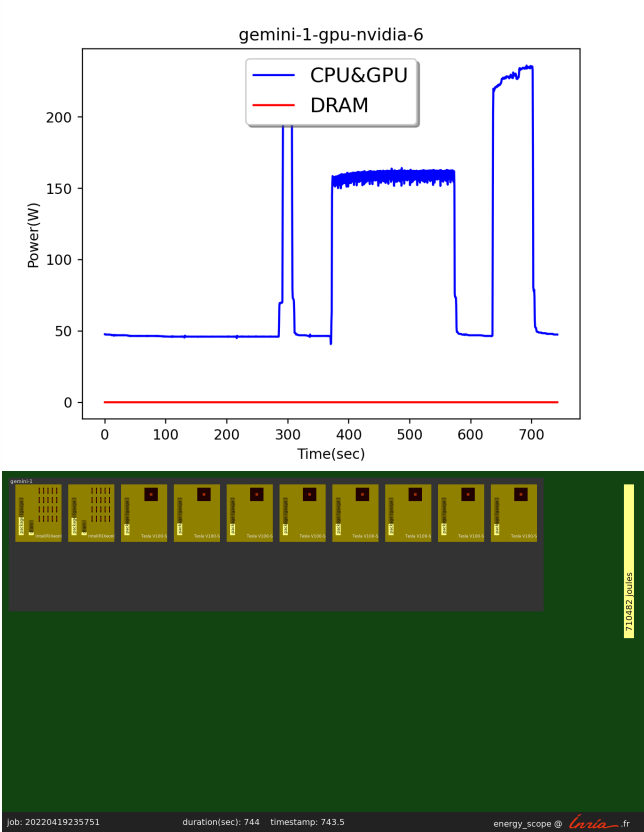
\*node gemini-1/gpu-nvidia-4



\*node gemini-1/gpu-nvidia-5



\*node gemini-1/gpu-nvidia-6



\*node gemini-1/gpu-nvidia-7

