

Energy Scope report

Date of the report: 2022/04/19 21:06:56

GENERAL INFORMATION

- Jobid: 20220419225415
- Command: /root/energy-consumption-of-gpu-benchmarks//results/night_exp_19_04/9_2//gpu0/scripts/script_final.sh
- Date of run: 2022/04/19 22:54:16.160951
- Duration (including ES prologue and epilogue): 743 (sec)

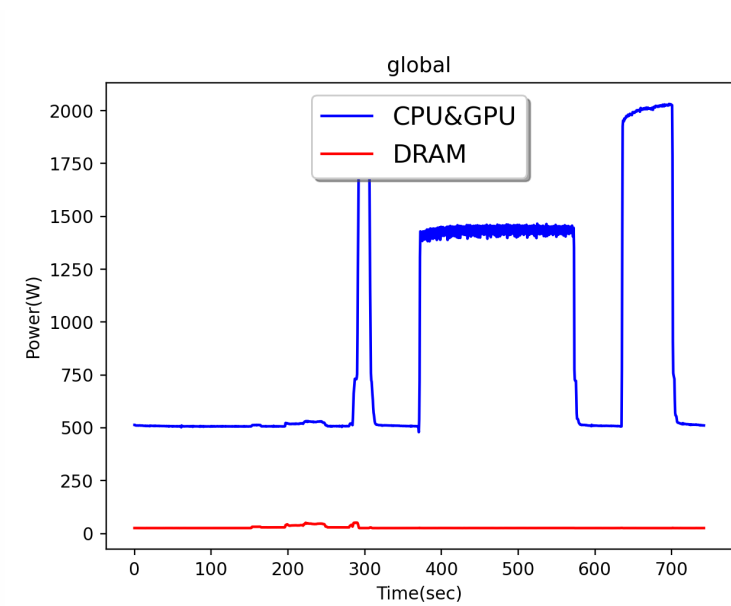
ARCHITECTURE INFORMATION

- 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= 956.1 (J/sec)
- Application energy consumption measurement: 710356 (J) 0.1973 (kWh)
- Global application energy consumption estimation: 1052136 (J) 0.2923 (kWh)
- Global application carbon production estimation (FR): 14.921 (gCO2)
- Energy efficiency (ref TDP): 42.12 (%)

Eprofile:



ENERGY ACQUISITION INFORMATION

- Period(ms): 520.903
- 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 | 66040 | 55.9 | 58.7 |
| | cpu 1 | Intel(R)Xeon(R)CPUE5-2698v4@2.20GHz | 135 | 64228 | 53.6 | 53.4 |
| | gpu gpu-nvidia-0 | Tesla V100-SXM2-32GB | 250 | 71508 | 38.5 | 20.0 |
| | gpu gpu-nvidia-1 | Tesla V100-SXM2-32GB | 250 | 73679 | 39.7 | 20.0 |
| | gpu gpu-nvidia-2 | Tesla V100-SXM2-32GB | 250 | 71904 | 38.7 | 20.0 |

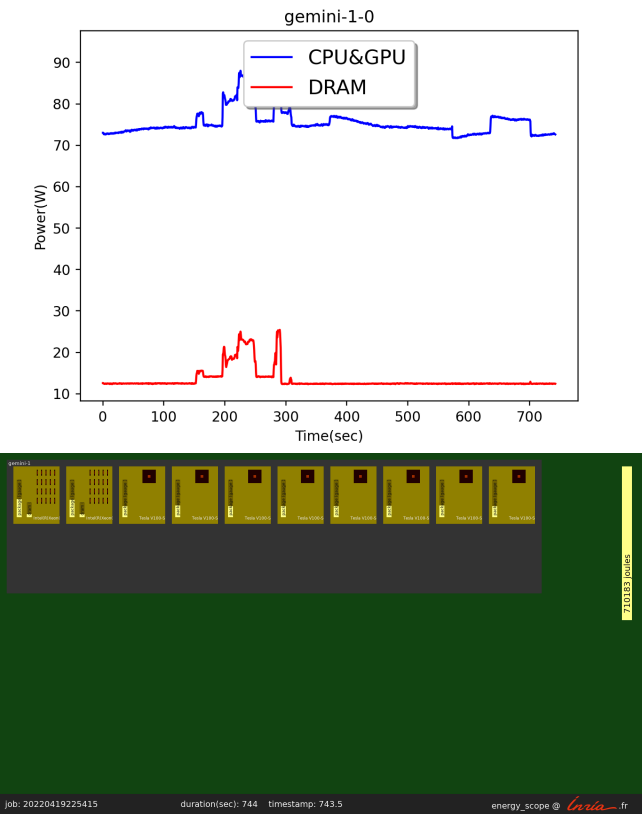
| node | cpu/gpu | model | TDP (W) | Energy (J) | efficiency (%) | Cores Temp (C) |
|------|------------------|----------------------|---------|------------|----------------|----------------|
| | gpu gpu-nvidia-3 | Tesla V100-SXM2-32GB | 250 | 72449 | 39.0 | 20.0 |
| | gpu gpu-nvidia-4 | Tesla V100-SXM2-32GB | 250 | 73033 | 39.3 | 20.0 |
| | gpu gpu-nvidia-5 | Tesla V100-SXM2-32GB | 250 | 72936 | 39.3 | 20.0 |
| | gpu gpu-nvidia-6 | Tesla V100-SXM2-32GB | 250 | 72426 | 39.0 | 20.0 |
| | gpu gpu-nvidia-7 | Tesla V100-SXM2-32GB | 250 | 72153 | 38.8 | 20.0 |

PROFILES and CORE TEMPERATURE

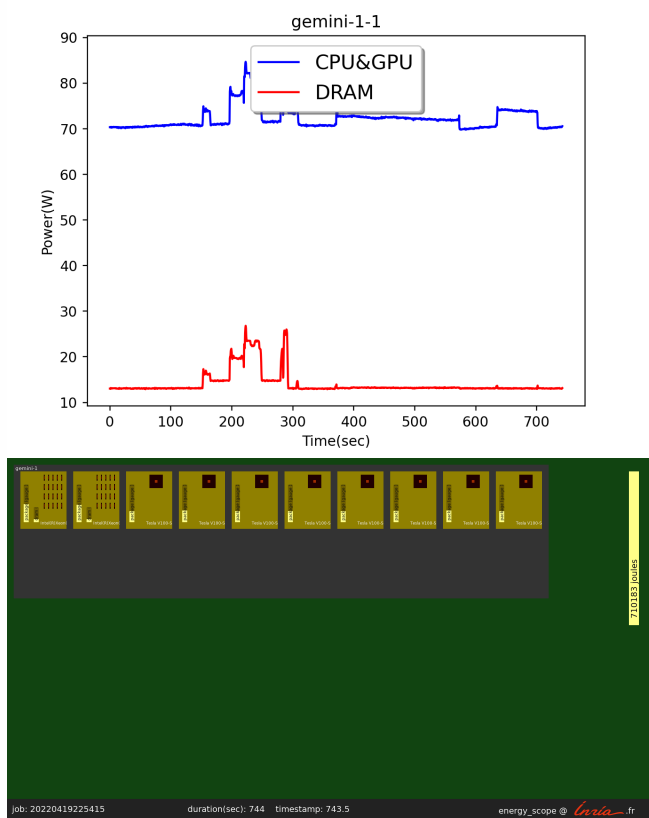
Images showing core temperature are generated when the average (of all the core) is maximum.

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

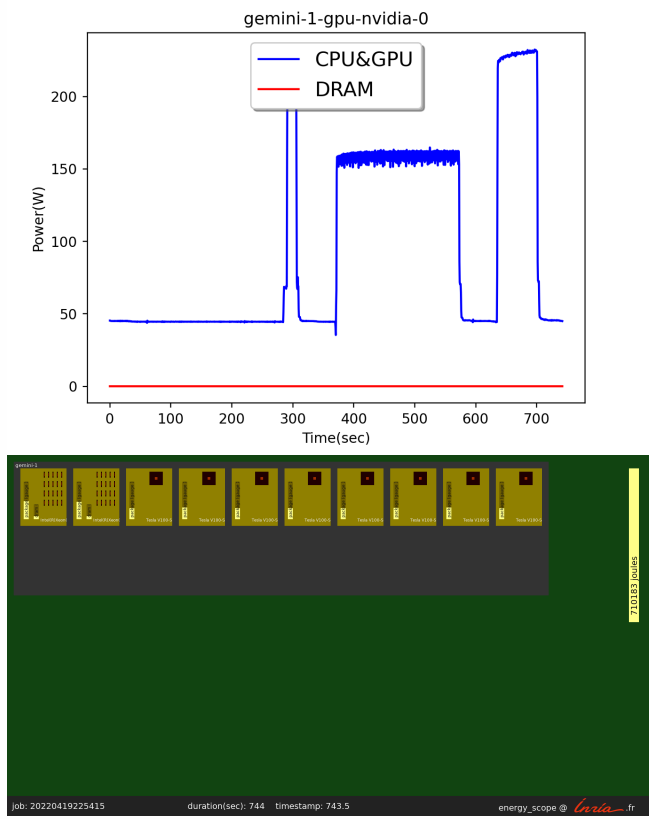
*node gemini-1/0



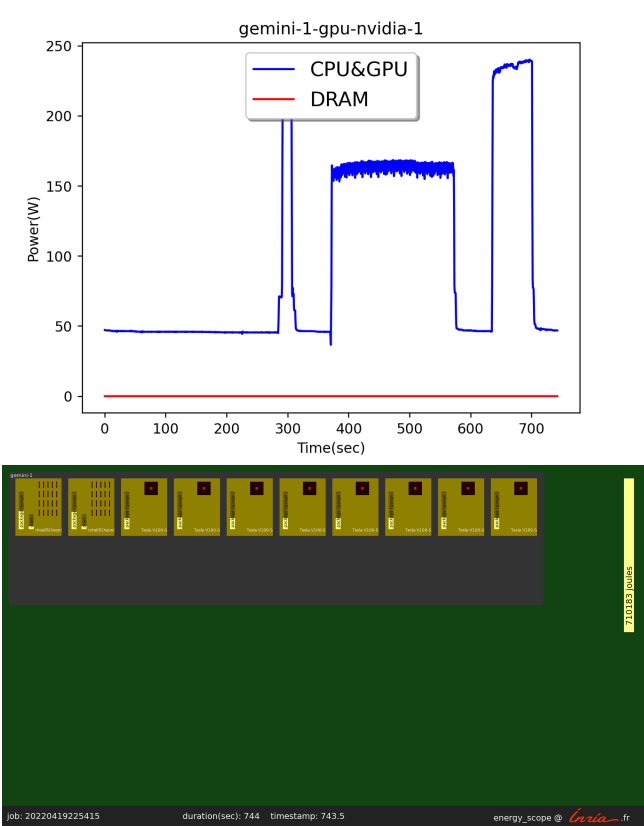
*node gemini-1/1



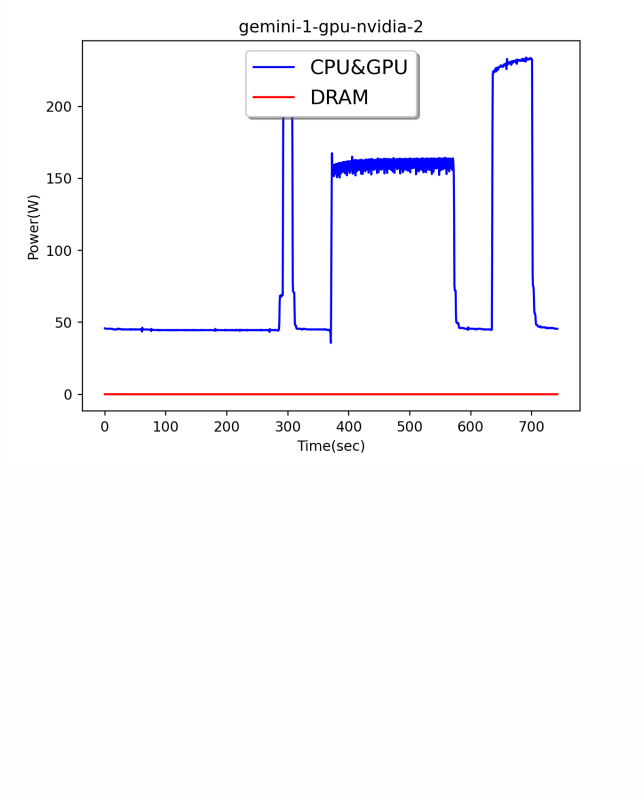
*node gemini-1/gpu-nvidia-0

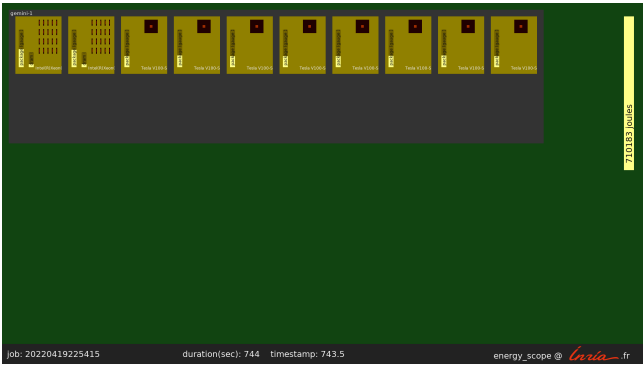


*node gemini-1/gpu-nvidia-1

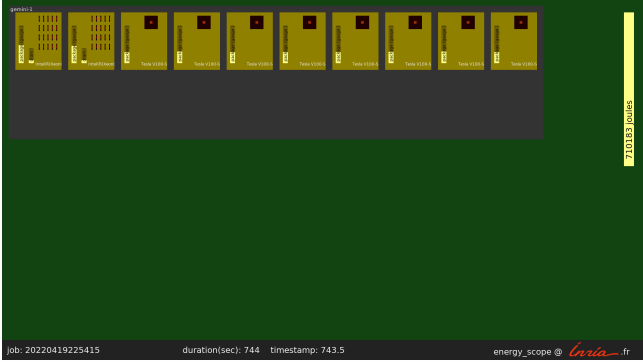
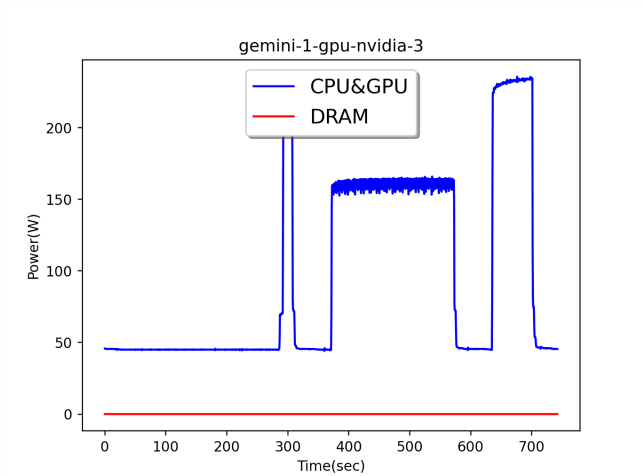


*node gemini-1/gpu-nvidia-2

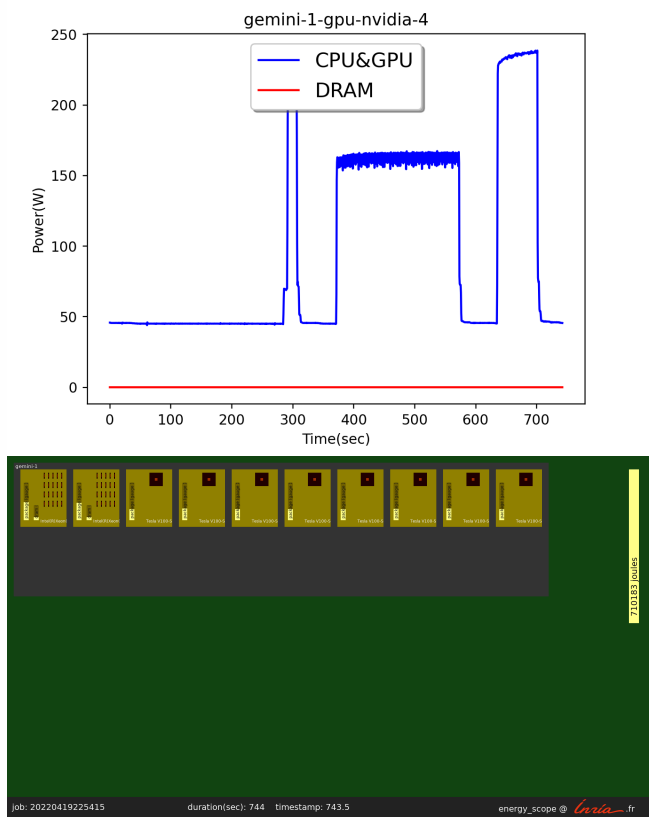




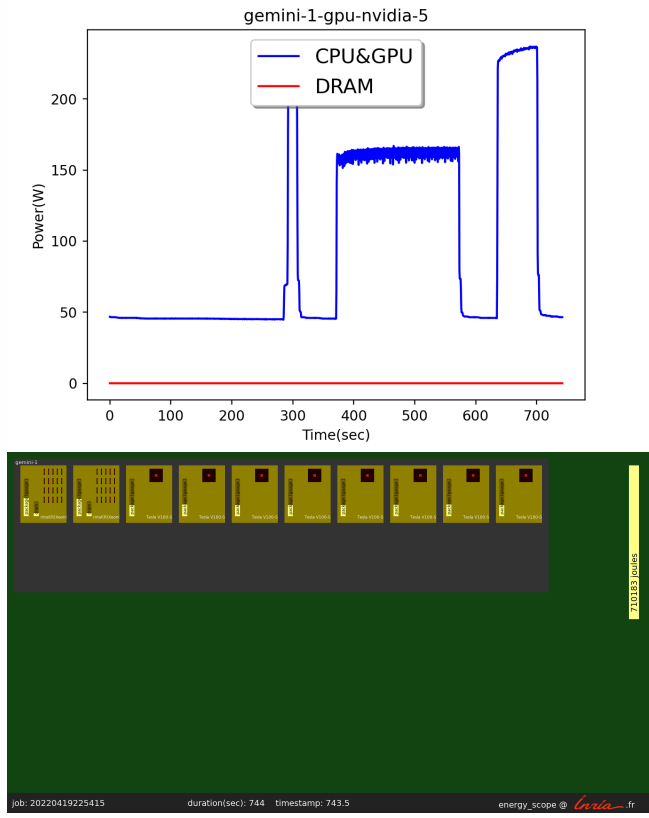
*node gemini-1/gpu-nvidia-3



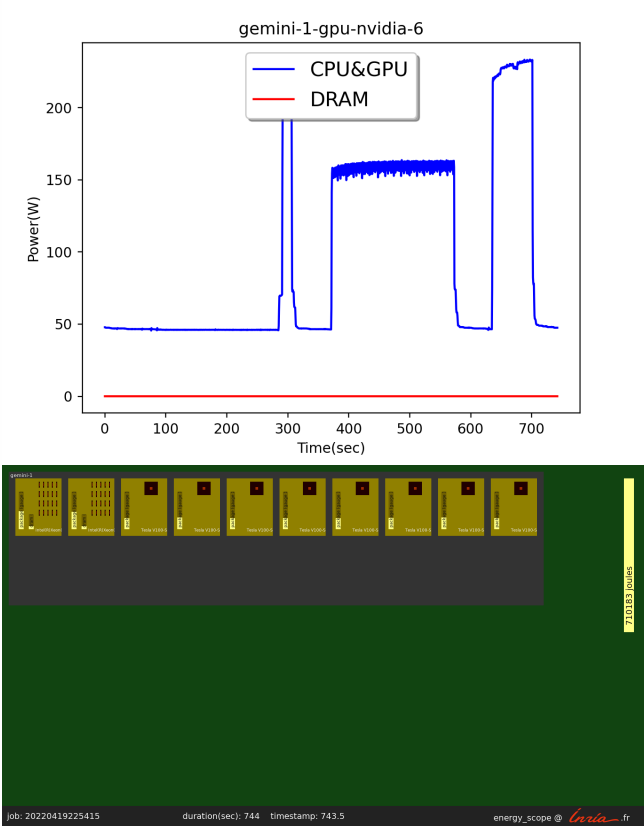
*node gemini-1/gpu-nvidia-4



*node gemini-1/gpu-nvidia-5



*node gemini-1/gpu-nvidia-6



*node gemini-1/gpu-nvidia-7

