Green coding: reduce your carbon footprint

Intermezzo quiz

Instructions

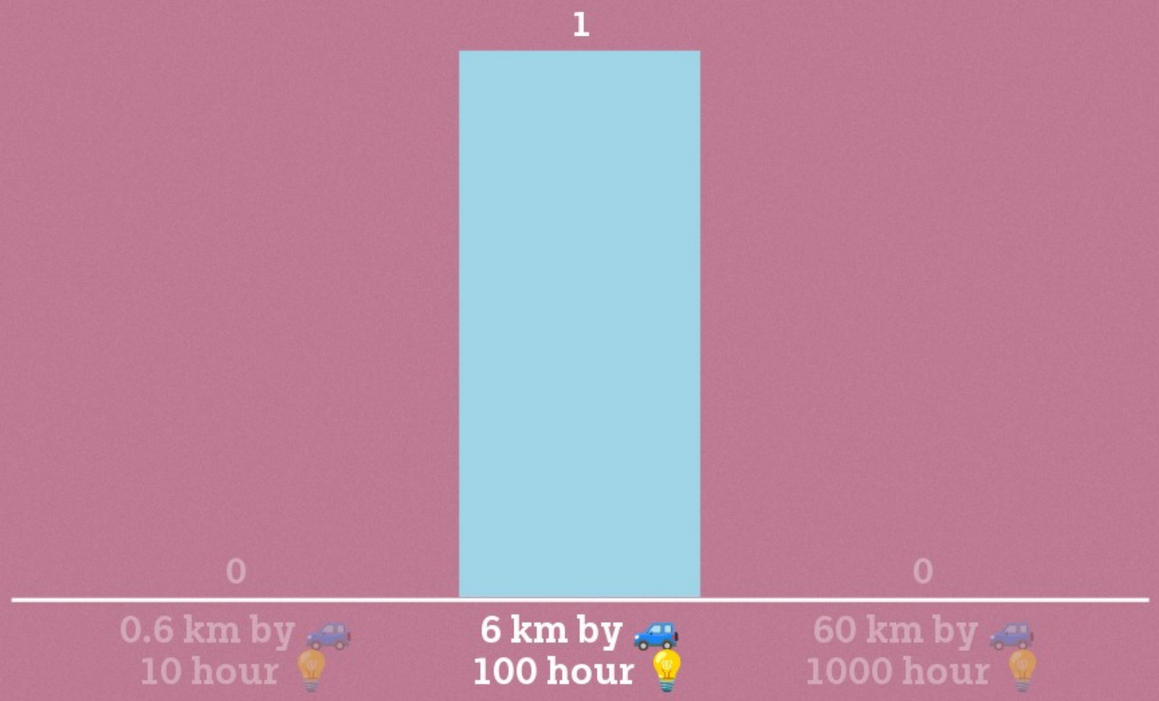
1

How much of your (work) time do you spend coding?

Mentimeter

1

The 2 following tasks require roughly the same amount of energy. How much energy do the require?



Mentimeter

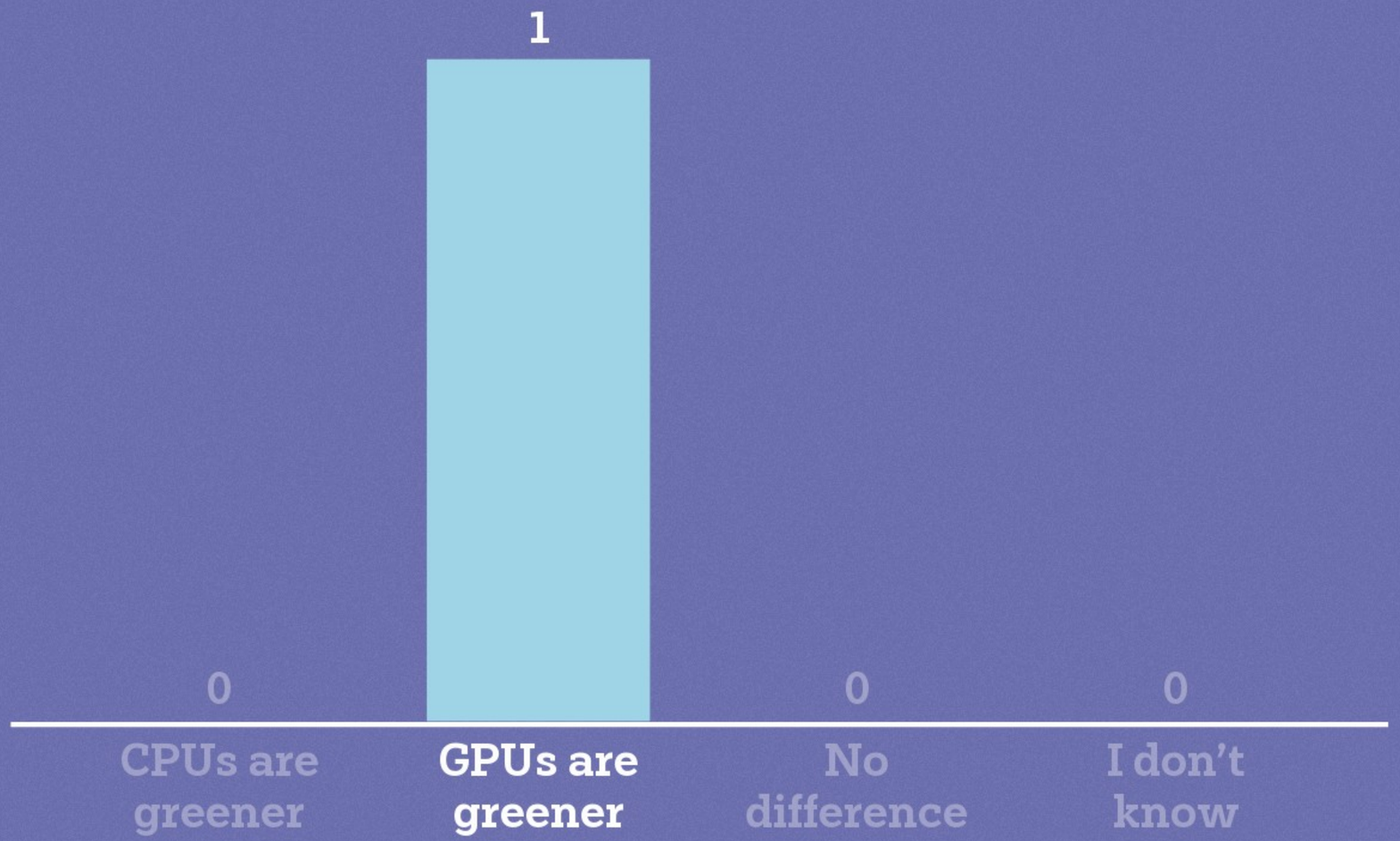
Moderately scaled machine learning training on GPUs for 3 minutes

Physics based fluid simulation for 10 mins

1

Are CPUs greener than GPUs?

Mentimeter



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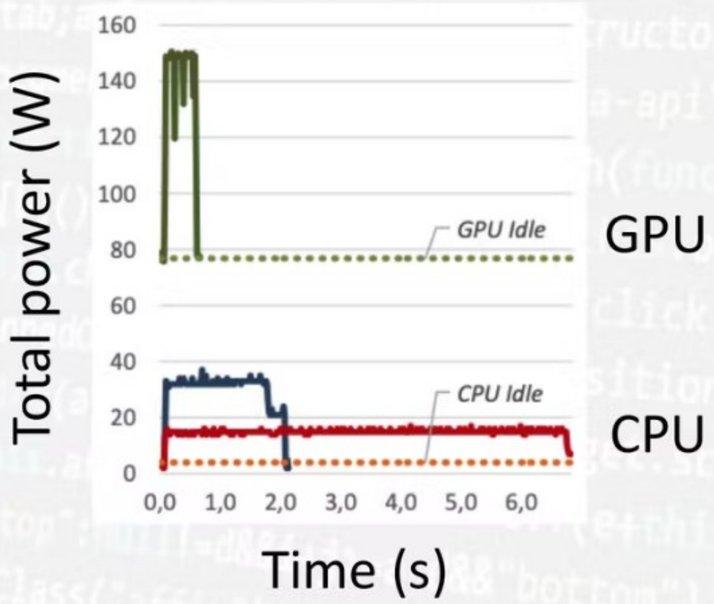
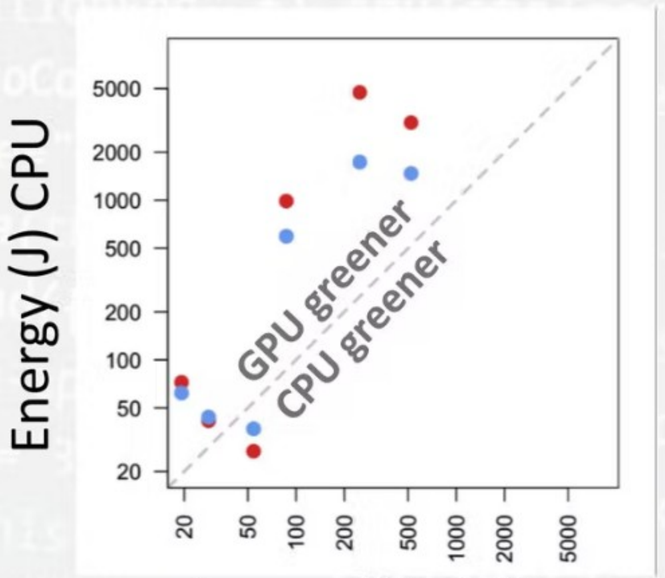
Are CPUs greener than GPUs?

GPUs use more energy, but when jobs can be paralized properly, GPUs are much more energy efficient.



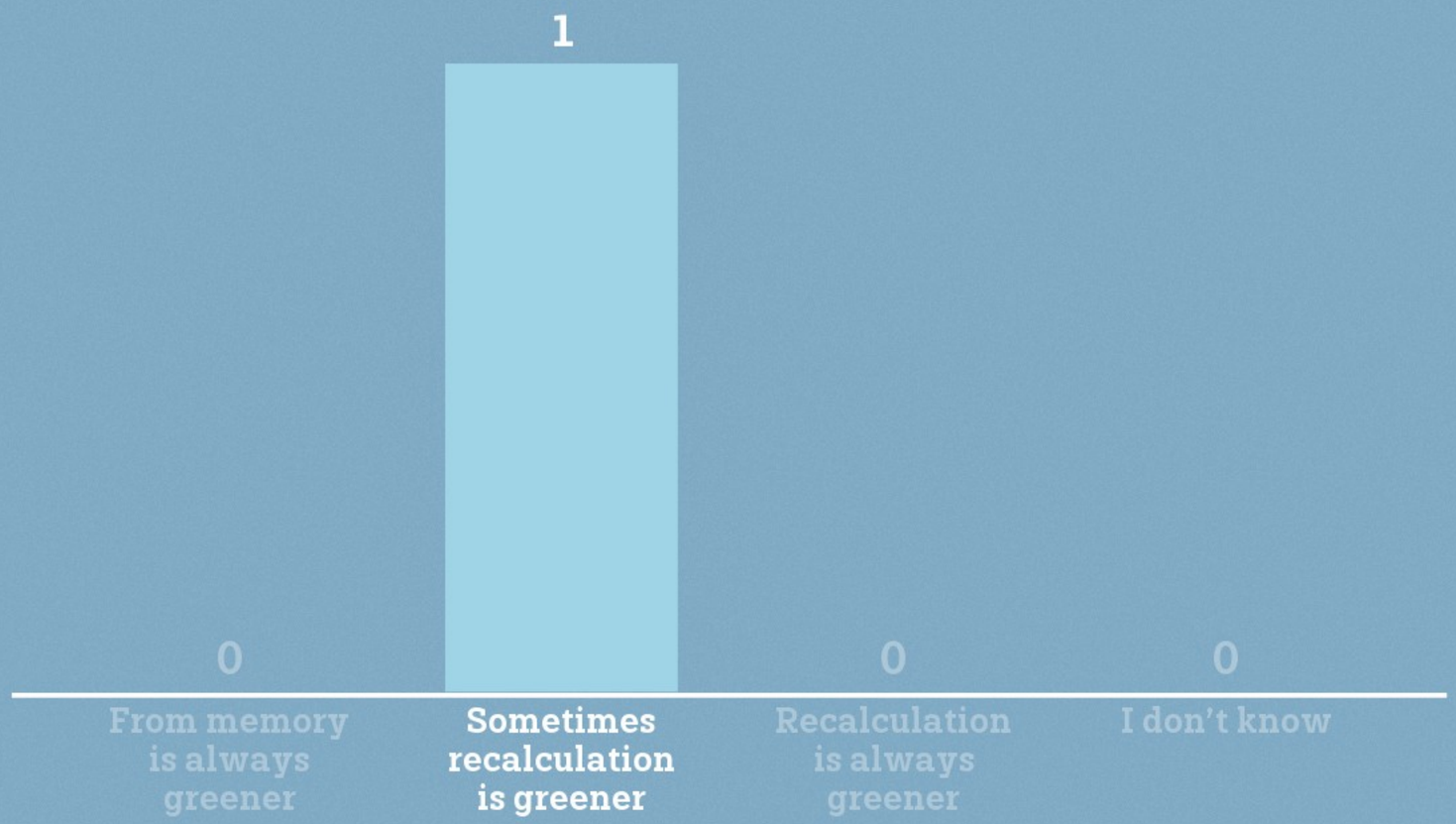
GPU

CPU



Is it always greener to retrieve the outcome of calculations from memory than to recalculate them?

Mentimeter



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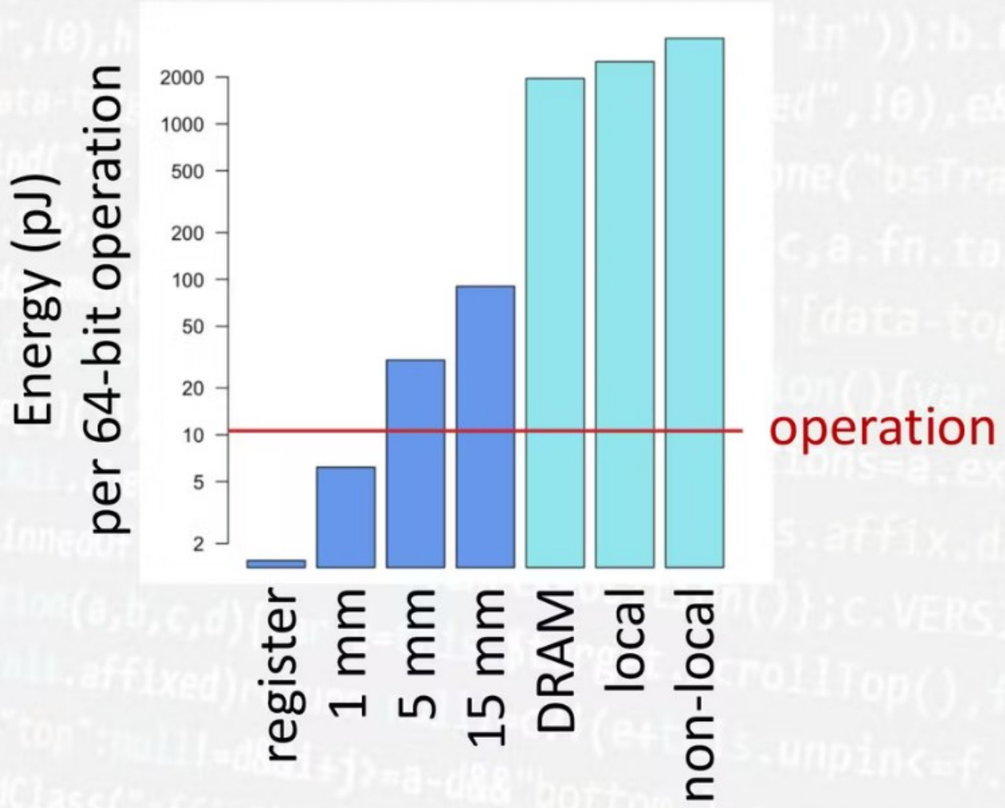

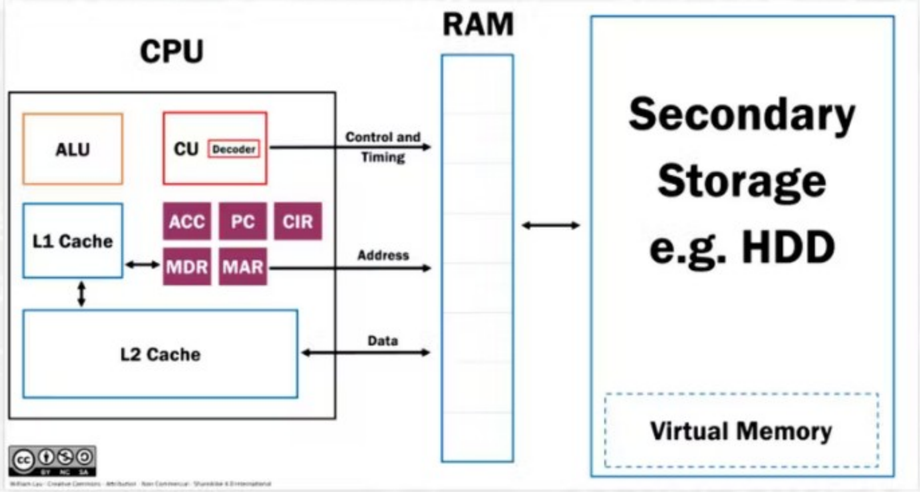

Feedback questions

What did you get out of this symposium?

Mentimeter

I learned a lot

1

What kind of support do you need with green coding?

How can your institution help you to start and advance in green coding?