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Simulating Carbon Opportunity Cost at Grid Site

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With the advent of new species of ARM architecture on the market, and increasing developments by Intel/AMD to match the power-savings by ARM, it can be difficult for Grid sites to decide which machines to target in future procurements. While cost is an important factor, sites are increasingly able to make at least part of their choices on sustainability grounds. Obtaining test machines and running HEPscore and power measurements is only part of the story when it comes to making these decisions, and one machine does not make a farm. It can also be difficult to both have an active site, and perform the large-scale tests ideally required to make the most informed decision on both the equipment you want to buy and the way you can run the site. We present work done by Glasgow to simulate our active site, with the aim of testing different ways of running the site, and the potential savings in carbon from running different types of machines in the future.

Desired slot length

20

Speaker release

Yes

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