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Hardware technology trends in HEP computing

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Decades of advancements in computing hardware technologies have enabled HEP experiments to achieve their scientific objectives, facilitated by meticulous planning and collaboration among all stakeholders. However, the path to HL-LHC demands a continuously improving alignment between our ever increasing needs and the available computing and storage resources, not matched by any increase in financial resources. Consequently, it is crucial to closely monitor hardware technology trends and understand how these advancements can best meet our requirements, particularly when making infrastructure investments. In this contribution, we will provide an overview of the current state-of-the-art technologies and their anticipated evolution in the short to medium term, focusing on their relevance to the data centers supporting HEP.

Additionally, we will discuss how our community contributes to technology tracking and how computing sites and experimental collaborations can profit from it.

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