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Title: *The New HPC: Accelerating AI, HPC and Visualisation*

Abstract

The programmable GPU architecture designed for computer graphics has proved itself remarkably well-suited to the requirements of modern high-performance computing by unifying the requirements of AI, scientific simulation and scientific visualisation in a single accelerated computing platform. Combining the two topics of HPC and AI in accelerated applications running on GPUs has been a fruitful endeavour leading to several finalists in the Gordon Bell prize. The ecosystem continues to grow with the recent full support for ARM processors hosting GPUs and accelerated IO directly from GPU to storage systems.