

Emerging Computing Technologies in High Energy Physics

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Although in the early 90s, High Energy Physics (HEP) helped to drive the computing industry by establishing the HTTP protocol and the first web-servers, the long time-scales for planning and building modern HEP experiments has resulted in a generally slow adoption by HEP of emerging computing technologies which rapidly become commonplace in business and other scientific fields. We will review some of the fundamental computing problems in HEP computing and then present the current state and future potential of employing new computing technologies in addressing these problems. Covered topics include Virtualization, General Purpose computing on Graphics Processors (GPGPU), Solid State Disks (SSD), and Cloud Computing.

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