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The evolving grid paradigm and code ”tuning” for modern architectures- are the two mutually exclusive?

With the data output from the LHC increasing, many of the LHC experiments have made significant improvements to their code to take more advantage of the underlying CPU architecture and advanced features. With the grid environment changing to heavily include virtualisation and cloud services, we look at whether these two systems
can be compatible, or whether improvements in code are lost through virtualisation. This is done by looking at the efficiency increases achieved in the latest iterations of ATLAS code and testing it within various grid paradigms.

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