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The continued progression of Moore's law has led to many-core platforms becoming easily accessible commodity equipment. New opportunities that arose from this change have also brought new challenges: harnessing the raw potential of computation of such a platform is not always a straightforward task. This paper describes practical experience coming out of the work with many-core systems at CERN openlab and the observed differences with respect to their predecessors. We provide the latest results for a set of parallelized HEP benchmarks running on several classes of many-core platforms.

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