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Experience with ARM WNs at the WLCG Tier1 GridKa

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Computing Centers always look for new server systems that can reduce operational costs, especially power consumption, and provide higher performance.

ARM-CPU's promise higher energy efficiency than x86-CPU's.

Therefore, the WLCG Tier1 center GridKa will partially use worker nodes with ARM-CPU's and has already carried out various power consumption and performance tests based on the HEPscore23 benchmark.

Various system settings, such as maximum CPU frequency, were studied to determine the best performance and highest energy efficiency of the ARM-CPU systems.

GridKa will provide the HEP community with several ARM-CPU worker nodes in their batch farm.

We present the results of these benchmarks on systems with ARM-CPU's compared to benchmarks of current x86-CPU worker nodes at GridKa and the status of provisioning ARM-CPU worker nodes to the community.

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