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The operating model of the HEP groups in FR for the utilisation of NEMO2

After 8 successful years of operation and use of the High-Performance Compute (HPC) Cluster NEMO, NEMO2 is scheduled to go into operation in autumn 2024. Since 2008, we have been operating the ATLAS-BFG high-throughput computing cluster for the ATLAS collaboration as part of the Worldwide LHC Computing Grid (WLCG). Synergies, such as a shared parallel storage system or the centralised provisioning of worker node images, could be identified and used efficiently, especially in the area of locally used resources of the HTC cluster and HPC cluster.

In this article, we want to summarise how the resources provided by NEMO to the HEP groups at the University of Freiburg were used. In addition, the operating model of this utilisation and the intended operating model for the follow-up project NEMO2 will be explained in detail. To this end, historical data will be analysed and conclusions drawn to discuss the strengths and weaknesses of the HEP operating model at NEMO.

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