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## Enabling Grid Computing resources within the KM3NeT computing model

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KM3NeT is a future European deep-sea research infrastructure hosting a new generation neutrino telescope with a volume of several cubic kilometres that -located at the bottom of the Mediterranean Sea - will open a new window on the universe. International collaborative scientific experiments, like KM3NeT, are generating datasets which are increasing exponentially in both complexity and volume, making their analysis, archival, and sharing one of the grand challenges of the 21st century. These experiments, in their majority, adopt computing models consisting of different Tiers with several computing centres and providing a specific set of services for the different steps of data processing such as detector calibration, simulation and data filtering, reconstruction and analysis. The computing requirements are extremely demanding and, usually, span from serial to multi-parallel or GPU-optimized jobs. The collaborative nature of these experiments demands very frequent WAN data transfers and data sharing among individuals and groups. In order to support the aforementioned demanding computing requirements we enabled Grid Computing resources, operated by the European Grid Infrastructure (EGI), within the KM3NeT computing model. In this study we describe our advances in this field and the method for the KM3NeT users to utilize the EGI computing resources. We are using the Jpp, Corsika, KM3 and Mupage software packages as the use case.

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