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Taming the Beasts: A Practical Overview of GPU Programming Models

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JUPITER will utilize nearly 24 000 NVIDIA GPUs to enter the Exascale Era. While CUDA is the native programming model for NVIDIA GPUs, there are alternatives which can offer higher productivity or more portability, like OpenACC, OpenMP, or Kokkos. This tutorial will present the relevant programming models and offer exercises to showcase the respective strengths.

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