Fundamentals of Accelerated Computing with Modern CUDA C++

ID FACCC **Prix** sur demande **Durée** 8 heures

Pré-requis

- Basic C++ competency, including familiarity with lambda expressions, loops, conditional statements, functions, standard algorithms and containers.
- No previous knowledge of CUDA programming is assumed.

Objectifs

At the conclusion of the workshop, you'll have an understanding of the fundamental concepts and techniques for accelerating C++ code with CUDA and be able to:

- Write and compile code that runs on the GPU
- Optimize memory migration between CPU and GPU
- Leverage powerful parallel algorithms that simplify adding GPU acceleration to your code
- Implement your own parallel algorithms by directly programming GPUs with CUDA kernels
- Utilize concurrent CUDA streams to overlap memory traffic with compute
- Know where, when, and how to best add CUDA acceleration to existing CPU-only applications

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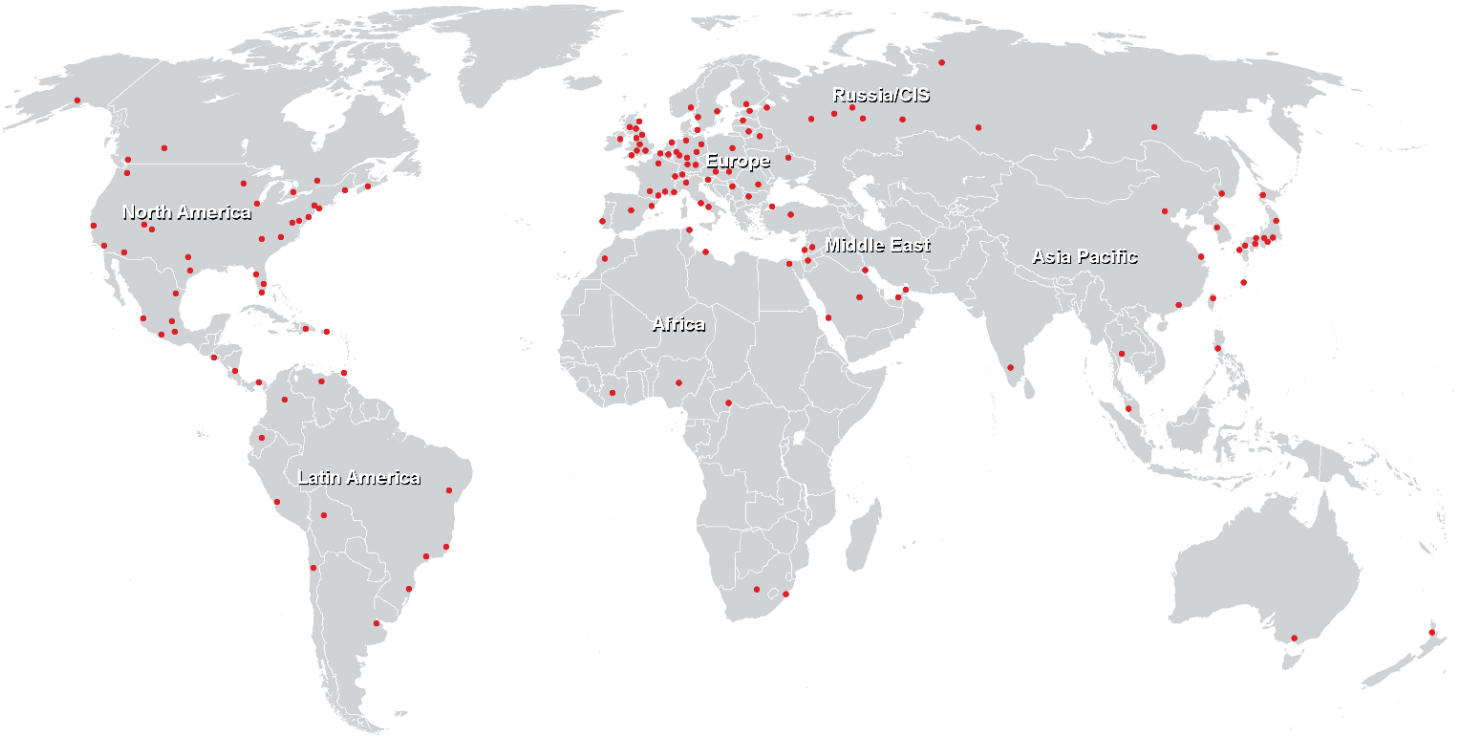

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