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## Séminaires de l'IDRIS

### PGI Accelerator Compilers and CUDA Fortran Overview

Jeudi 28 janvier 2010 (10h30-12h)

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*This presentation gives an overview of programming NVIDIA GPUs using the PGI Accelerator programming model in C and Fortran, and using PGI CUDA Fortran. It introduces the compute-specific details of NVIDIA GPUs, gives a basic example of programming in CUDA C, and provides a detailed overview of the explicit CUDA Fortran programming model implemented in the PGI 10.0 compilers. This provides the basis for an overview of PGI Accelerator directive-based programming for x64+NVIDIA systems, including motivations, goals, current status and capabilities, and upcoming features. The PGI Accelerator programming model is a high-level implicit model for offloading compute-intensive code regions from a host CPU to an Accelerator via Fortran directives or C pragmas, simplifying the coding process and ensuring that the resulting programs are portable to other platforms and compilers.*

**Doug Miles has worked in the HPC industry since 1985 at Floating Point Systems, Cray, The Portland Group and STMicroelectronics, primarily in applications engineering and management positions.**

**He has been the director of technical and business operations at PGI since 2003.**

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