



CAPS invites you to attend CUDA / HMPP European Tour 2009



European CUDA/HMPP Tour - 1st Edition

In partnership with NVIDIA, CAPS launches a special CUDA with HMPP European Tour in October. Throughout these 2-day training sessions, attendees will be exposed to concepts and skills that will empower them to learn CUDA / HMPP programming models and thus leverage performance of their hybrid application.

Where and when

Barcelona: 6-7 October
München: 12-13 October
Frankfurt: 15-16 October

Agenda

In this 2 day training, participants will learn how to program CUDA with HMPP. The training includes hands-on practical labs on Linux platforms where attendees will be able to progressively program Tesla accelerated computations, from base programming to performance tuning.

Day 1

CUDA Basics

Introduction to stream programming
Programming model
CUDA API
CUDA tools: compiler, debugger...

Introduction to CUDA performance

CUDA warps
Data alignment & coalescing
Texture memory & constant memory

Objectives

The objective of these courses is to provide attendees with knowledge in CUDA architecture and programming as well as the HMPP directive-based programming model for CUDA. Through hands-on labs, they will learn how to develop and tune hybrid applications.

Prerequisites

Knowledge of Linux
Knowledge of CUDA is a plus

Day 2

CUDA performance

Shared memory
Optimizing bloc sizes
Optimizing occupancy
Performance tools

HMPP

Introduction to parallel hybrid computing
Programming model
Addressing hardware accelerators
Managing data transfers
Compilation model
CUDA generator
Optimizing CUDA code generation

Target audience

This course is intended for software professionals and students who are responsible for or interested in developing high performance hybrid computing applications.

Terms and conditions

Price: 1200€ per attendee
Conditions: Attendance is limited to 12 p. / session

Get more information / Register
by contacting training@caps-entreprise.com

**Each participant
will be offered**

... a free mini PC



... and a discount
voucher to acquire an
NVIDIA Tesla C1060 card

