

One Year Dresden CUDA Center of Excellence

A Look Back, Ahead, and Beyond

Willersbau, Room A218

Tel. +49 351 - 463 - 39871

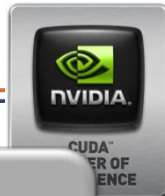


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Join local forces to
develop common
code parts and
educate students

Current active CCoE Members



Infrastructure,
Parallel Programming Expertise,
Performance Tools

HZDR

MPI-
CBG

TU Dresden

Plasma-
physics

Image Analysis

Signal-
Processing

CFD



CUDA Coffee

- Semi-weekly meeting to discuss ongoing activities

CUDA Seminar

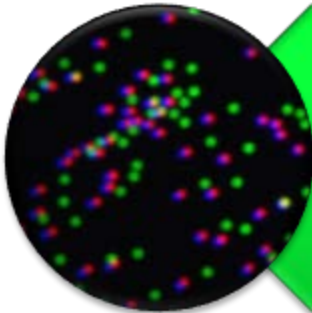
- Invited external speakers present their work

CCoE Class

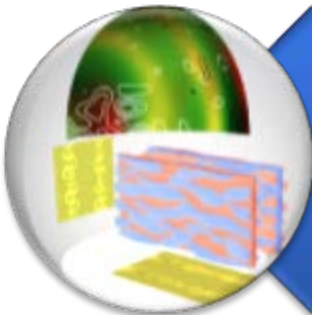
- Teach CUDA/OpenCL/OpenGL/OpenACC



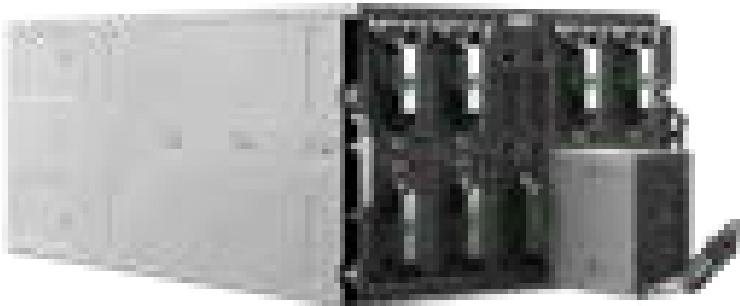
Invited Talk of Dr.
Bussmann at NVIDIA
Theatre (SC12)



CUDA Achievement
Award Finalist at GTC2013



Invited Gordon Bell Award
Submission



HRSK-II Phase 1 includes 44 Blades each with:

- two NVIDIA Tesla K20x GPUs
- two Intel E5-24xx CPUs
- 128 GB SSD
- two FDR-Infiniband Adapters

Total of 88 GPUs

And beyond that?



Number of
Accelerators
in Phase 2?

Currently 0,
but you can
change that!



GPU Programming Workshop

- See first hand, how GPUs can be applied to many different scientific domains

GPU Programming Tutorial

- Get your feet wet with CUDA and OpenACC

GPU Programming Hands-On

- Dive into your own codes to see how they can profit from our NVIDIA K20x's



Hardware Introduction

- Bull and NVIDIA introduce the new Hardware deployed at ZIH

Software Case-Studies and Production Codes

- See a number of examples from Molecular Dynamics, Image Processing, Plasma Physics,...

Beware of Your Surroundings

- See what others do and what to pay attention to