



science
& technology

Department:
Science and Technology
REPUBLIC OF SOUTH AFRICA



CENTRE FOR HIGH
PERFORMANCE COMPUTING



M a S S

DST-NRF CENTRE OF
EXCELLENCE IN
MATHEMATICAL &
STATISTICAL SCIENCES

Intermediate GPU Computing using CUDA and C/C++

Venue:	MSL216, Math. Sciences Labs, West Campus, Wits
Dates:	Tuesday 7 – Friday 10 November 2017
What you will learn:	1) Overview of the GPU and CUDA? 2) What problems are suited for the GPU? 3) Which numerical libraries have GPU versions? 4) How to write programs for the GPU *Main aim*
Course size:	Maximum 15 people
Registration:	Click here for the Application Form
Cost:	Free
No show fee:	R1,000 (<i>only charged if you register but don't attend</i>)
Funding:	This workshop is jointly supported by the DST-NRF CoE-MaSS, CHPC, and the CSIR. <i>Travel grants may be available for any staff member from any University that is also simultaneously registered for a further degree (M/PhD) via the DHET TDG in MaSS grant.</i>

It is required that delegates attending this course are already able to programme using either Linux, C or C++ and have a basic idea of where they would like to apply GPU computing.

About the facilitator:

Dr Nicolin Govender is associated with several institutions via his research interests. His South African base is at the Centre for High Performance Computing (CHPC) as a Senior Researcher. He is the PI of the only NVIDIA GPU research centre in Africa which was awarded since 2013. He is a member of the ATLAS Collaboration at CERN via the University of Johannesburg where he works on research projects associated with computing in a High Energy Physics environment. He is associated with the Ecole Mines Douai in France where he works on projects in civil engineering, the University of Utah on mining and minerals engineering and the RCPE Austria where he does work on pharmaceutical process modelling.



This workshop is sponsored by the Centre for High Performance Computing (CHPC) and the Centre of Excellence in Mathematical and Statistical Sciences (CoE-MaSS) that is hosted by Wits University, both of which are initiatives of the national Department of Science and Technology.