



hyPACK-2013 Feedback Form



Participant's Name: _____ E-mail Address: _____

(Note: Fill or tick (✓) the boxes)

Sessions	Excellent	Good	Above Average	Average
Day 1: October 15, 2013 (Tuesday)				
1. An overview of HyPACK-2013 Workshop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Classroom Lecture & Lab. : An Overview of Intel Xeon-Phi Arch. & Programming Models; OpenMP Prog. & Performance Issues - Numerical Computations – Lab Sessions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Classroom Lecture & Lab.: An Overview of Intel Xeon-Phi – System Software; X86 SMP Compiler & Vectorization; Native Compilation & Compiler Offload Pragmas; Performance Issues - Numerical Computations – Laboratory Sessions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Classroom Lecture & Demonstration: Intel Xeon-Phi Architecture – Prog. Models - Compilation features; Compiler tips, Compiler Vectorization reports; Compiler Directives & Demonstration Benchmarks - OpenMP on Xeon Host and Xeon-Phi Coprocessor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Lab. Session: Hands-on session on Intel Xeon-Phi Coprocessor – OpenMP framework on Intel Xeon-Phi – Tuning & Performance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Lab. Session: Programming – Intel Xeon-Phi Compiler Offload Pragmas; Compiler Technology & Vectorization – Numerical Computations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Demonstration & Lab. Session: Mixed Programming (MPI, OpenMP, Cilk Plus, Intel TBB, Pthreads); Compilation & Vectorization - Numerical Computations based on Intel MKL on Xeon Phi Coprocessors; Tuning and Performance of Benchmarks on Intel Xeon-Phi; Compilation – Intel Off load pragmas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Keynote Talk (Academic) : Numerical Linear Algebra (NLA); Intel MKL - Performance on Intel Xeon-Phi Coprocessors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Lab. Session: Intel Xeon-Phi Prog (OpenMP, TBB, Pthreads); Performance of Benchmarks – Numerical Computations: Compiler Optimizations & Vectorization; Intel MKL Math Kernels on Xeon Phi; Thread Affinity – OpenMP & Pthreads on Intel Xeon Phi; Performance of Application Kernels on Intel Xeon-Phi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Invited Talk : An Overview of MPI programming - Intel Xeon-Phi Coprocessors & Performance Issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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Sessions	Excellent	Good	Above Average	Average
Day 2: October 16, 2013 (Wednesday)				
11. Classroom Lecture & Lab: Prog. Intel Xeon Phi – Prog. Affinity Concepts Intel Xeon-Phi Programming Models – Intel TBB, Overview of Co-Processor Prog. Models; Tuning & Performance of NLA Kernels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Classroom Lecture & Lab: Prog. Intel Xeon Phi -Compiler Options; Cilk Plus Compiler tips, Compiler Vectorization reports; Compiler Directives – Memory alignment; Math Kernel Library - Performance Results	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Classroom Lecture & Lab : MPI execution models on Intel Xeon and Intel Xeon Phi coprocessors, including pure MPI or hybrid MPI applications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Keynote Talk (Industry): Speaker: Intel - Topic : An Overview of Intel Xeon-Phi Co-processor Archi.; An Overview of Co-Processor System Software; Compiler Offload Pragmas & Tuning for performance on Xeon Phi(tm) coprocessor using VTune Amplifier XE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Keynote Talk (Industry): Speaker: Intel - Topic : Intel Xeon Phi / Demos: Compilers, VTune Amplifier Demonstrate Compilers and VTune AXE on Intel ; Tuning methodologies; Intel(r) Trace Analyzer and Collector (ITAC) on MIC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Demonstration & Lab. Session: MPI execution models on Intel Xeon processors and Intel Xeon Phi coprocessors, including pure MPI or hybrid MPI applications.; Mixed Prog. (MPI-OpenMP, MPI-TBB, OpenCL, Pthreads); Basic Programs based on Intel Xeon-Phi Co-processors; Bandwidth Calculation Matrix Computations; Using Intel Xeon-Phi Tools for Numerical Computations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Keynote Talk (Industry) : Speaker : Intel Performance of Application Kernel – based on OpenMP /MPI - Intel Xeon-Programming Framework	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Lab. Session: Mixed Prog. (MPI-OpenMP, MPI-TBB, MPI-Pthreads) on Intel Xeon Co-Processors; I/O files on Intel Xeon Co-processors; Memory Map (mmap) Examples on Intel Xeon-Phi Co-processors; MPI Prog. for Numerical Computations on Intel Xeon Phi; Intel Tool Kit Demonstration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. Classroom Lecture & Lab (part-II): Prog. Intel Xeon Phi – Memory Map (mmap) & Huge Page Enabling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What could you suggest to make this hyPACK-2013 (Xeon-Phi Coprocessors) module better in content or format?

- 1.
- 2.
- 3.



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Participant's Name: _____ E-mail Address: _____

Day 3: October 17, 2013 (Thursday)				
20. Classroom Lecture & Lab : Introduction to GPU Computing : Memory Optimization; Tuning & Performance on CUDA enabled NVIDIA GPUs;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sessions	Excellent	Good	Above Average	Average
21. Classroom Lecture & Lab : CUDA – enabled NVIDIA GPUs – Use of CUDA Toolkit Math Libraries – OpenACC Pragmas Framework – CUDA Enabled NVIDIA Multi-GPUs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Keynote Talk (Industry) : Speaker : NVIDIA - An Overview of CUDA enabled NVIDIA GPUs – Prog Issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23. Keynote Talk (Industry) : Speaker : NVIDIA - An Overview of CUDA enabled NVIDIA GPUs – Programming & Performance Issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24. Lab. Session & Demonstration : Lab. Session: An overview of CUDA enabled NVIDIA GPUs / OpenCL – GPGPUs/Example Programs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25. Lab. Session & Demonstration : Tuning & Performance on CUDA enabled NVIDIA-GPUs; Matrix-matrix multiplication - tiled techniques for partitioning of a matrix, shared memory optimization, Warp level parallelism; Tuning & Perf. on Multi-GPUs- NVIDIA-GPUs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26. Keynote Talk (Academic) : Tuning & Performance on CUDA NVIDIA GPUs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27. Lab. Session & Demonstration : Application kernels based on Mixed Prog. (MPI-CUDA, Pthreads-CUDA & OpenMP-CUDA); CUDA SDK ToolKit Demonstration; Prog. On Heterogeneous Comp. Platforms – AMD-APP; OpenCL Programs on AMD-APP GPUs; Use of Work Groups & Work-items – Memory Opt. Prog. on ARM Multi-Cores with CUDA NVIDIA carma – Using NVML APIs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28. Class-room Lecture & Demonstration : Measurement of Power Consumption–Performance of Application Kernels – Using NVML Lib Calls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Day 4: October 18, 2013 (Thursday)				
29. Classroom Lecture & Lab : Heterogeneous Programming – CUDA enabled NVIDIA GPUs /AMD APP – OpenCL; Tuning & Performance – Matrix Computations; AMD APP Tech. – SDK & Prog. Env /Libraries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30. Classroom Lecture & Lab : An Overview of HPC GPU Cluster – OpenCL Performance Issues – Numerical Linear Algebra; AMD APP Tech –Tuning & Performance OpenCL; Demonstration of Application Kernels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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31.Keynote Talk (Industry): Measurement of Power Consumption – Systems with Coprocessors/Accelerators; Case Studies - Partial differential Eqs – Solution of Matrix Systems on Cluster with Single /Multiple GPUs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32.Keynote Talk (Academic): Perf. of Application Kernels on Parallel Processing Platforms with GPU Accelerators	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sessions	Excellent	Good	Above Average	Average
33.Lab. Session & Demonstration: Hands-on session on NVIDIA GPUs /AMD OpenCL;Prog. on ARM Multi-Core system with CUDA NVIDIA carma – Using NVML APIs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34.Lab. Session - Demonstration: Programming based on OpenCL, Tuning & Performance of OpenCL on GPGPUs; matrix-matrix multiplication – algorithms based on OpenCL; Shared memory optimization, Wavefront level parallelism; – Memory Optimizations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35.Keynote Talk (Academic): An Overview of Application Kernels on Parallel Processing Systems with Multi-GPU – Power aware Performance Issues – NVML Library calls & external Power-Off Meter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36.Lab. Session: Example programs on host-cpu (Pthreads, MPI, OpenMP) and OpenCL on Multiple GPUs; Tuning & Performance of Matrix Computations on AMD-APPs; Memory Optimization on AMD APP– OpenCL; Application kernels based on Mixed Prog. (MPI,Pthreads, OpenMP- with OpenCL); OpenCL programs for Numerical Linear Algebra on HPC GPU Cluster (OpenCL on NVIDIA/AMD-APP GPUs) Benchmarks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

37. What could you suggest to make this **hyPACK-2013** module better in content or format?

38. Did the **hyPACK-2013** module: meet ☐ not meet ☐ exceed your expectations ☐ ?

39. Was the **hyPACK-2013** module course is adequate? ☐ Yes ☐ No

If not, why not? _____

40. Was the **hyPACK-2013** module too short ☐ about right ☐ too long ☐?

41. Was **hyPACK-2013** module Examination pattern is good ☐ Yes ☐ No ?

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