Intel® Software Development Tools for HPC

Report of Contributions

Contribution ID: **1**   Type: **not specified**

The Intel® Architecture for Software Developers

Monday 6 April 2020 10:00 (30 minutes)

This session will offer insights into Intel® hardware platforms tailored to the needs of software developers, software architects and HPC experts. Learn how Intel® Software Development Tools will help you to achieve optimal performance via vectorization, memory access tuning, and threading.

Intel® Software ...   / Report of Contributions   The Intel® Architecture for Softw ...

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Contribution ID: **2**   Type: **not specified**

Intel® Parallel Studio - Software Development Tools for HPC

Monday 6 April 2020 10:30 (30 minutes)

This session will provide an introduction and overview over the different Software Developer Tools from Intel

Contribution ID: **3**   Type: **not specified**

Intel® oneAPI

Monday 6 April 2020 11:00 (30 minutes)

Modern workloads are incredibly diverse—and so are architectures. No single architecture is best for every workload. Maximizing performance takes a mix of scalar, vector, matrix, and spatial (SVMS) architectures deployed in CPU, GPU, FPGA, and other future accelerators. Intel® oneAPI products will deliver the tools you need to deploy your applications and solutions across SVMS architectures.

Contribution ID: **4**   Type: **not specified**

Intel® Compiler

Monday 6 April 2020 11:30 (30 minutes)

Get the best performance out of your code by using the right compiler options

Contribution ID: **5**   Type: **not specified**

Intel® MPI Library

Monday 6 April 2020 13:00 (30 minutes)

Get the best performance out of your MPI application by tuning the Intel MPI library

Contribution ID: **6**   Type: **not specified**

Intel® Advisor

Monday 6 April 2020 13:30 (30 minutes)

The Intel Advisor is the tool of choice for vectorization optimization and threading prototyping.

Contribution ID: **7**   Type: **not specified**

Intel® VTune™ Profiler

Monday 6 April 2020 14:00 (30 minutes)

Without the right data, you're guessing about how to improve software performance and are unlikely to make the most effective improvements. The VTune Profiler collects key profiling data and presents it with a powerful interface that simplifies its analysis and interpretation.

Contribution ID: **8**   Type: **not specified**

Intel® Trace Analyzer and Collector (ITAC)

Monday 6 April 2020 14:30 (30 minutes)

ITAC can help you to understand MPI application behavior across its full runtime.

Contribution ID: **9**   Type: **not specified**

Intel® VTune™ Profiler

Monday 6 April 2020 15:30 (30 minutes)

Application Performance Snapshot. Take a quick look at your application's performance to see if it is well optimized for modern hardware

Contribution ID: **10**   Type: **not specified**

Intel® Distribution for Python

Monday 6 April 2020 16:00 (30 minutes)

Achieve faster Python application performance—right out of the box—with minimal or no changes to your code.

Contribution ID: **11**   Type: **not specified**

Summary & Q&A

Monday 6 April 2020 16:30 (30 minutes)

Contribution ID: **13** Type: **not specified**

Intel® Advisor

Tuesday 7 April 2020 09:30 (1 hour)

Session Classification: Hands-on Sessions

Contribution ID: **14**   Type: **not specified**

Intel® VTune™ Profiler

Tuesday 7 April 2020 10:30 (1h 30m)

Session Classification: Hands-on Sessions

Contribution ID: **15**   Type: **not specified**

Session 1

Tuesday 7 April 2020 13:00 (2 hours)

Session Classification: Bring Your Own Code Sessions

Contribution ID: **16**   Type: **not specified**

Session 2

Tuesday 7 April 2020 15:30 (1 hour)

Session Classification: Bring Your Own Code Sessions