

## Workshop Schedule

### Day1:

Intel Code Modernisation workshop -- Parallel Programming using Intel® Architecture and Software Tools				
S.No	Duration	Timing	Topic	Objective
1	180Mins	10AM-1PM	<b>Intel® Architecture for Software Developers</b>	Learn about the most important processor features of the Intel® architecture, which is highly important for Parallel Programming and Performance.
			<b>Intel® Xeon Phi Architecture</b>	Understanding and knowledge about Intel's latest co-processor architecture and how they can leverage the performance out of it.
	60 Mins	1PM-2PM	<b>LUNCH BREAK</b>	
2	45 Mins	2PM-2.45PM	<b>Parallel Programming paradigm</b>	Introduction to Parallelism Exploiting Parallelism Shared Memory Distributed Memory Parallelism Issues & Limitations
3	45Mins	2.45-3.30PM	<b>OpenMP for Parallel Computing- Discussion and Demo</b>	Introduction to OpenMP – Multithreading in OpenMP – Understanding Data dependencies and Thread Synchronization – OpenMP Programming and Performance Tuning" -Installation of OpenMP -Programming with OpenMP
	15Min	3.30PM-3.45PM	<b>TEA BREAK</b>	
4	75 mins	<b>3:45 - 5PM</b>	<b>MPI for Cluster computing</b>	MPI Programming – Introduction to MPI – MPI Programming – MPI Cluster Communication
5	30 Min	<b>5PM-5.30PM</b>	<b>QA and discussion</b>	

### Day2:

Intel Code Modernisation Workshop-- Parallel Programming using Intel® Architecture and Software Tools				
S.No	Duration	Timing	Topic	Objective
1	180Mins	10AM-1PM	<b>Intel Parallel Studio XE- Overall understanding of the Intel Compilers &amp; libraries -- Discussion and Demo</b>	Modern software development tools are essential for parallel programming and performance optimization. This session will give an overview about the Intel Compilers, libraries and analysis tools available in Intel Parallel Studio XE tools suite.
	60Mins	1PM-2PM	<b>Lunch BREAK</b>	

2	90Mins	2PM-3.30PM	<b>Intel Analysis tool- Inspector, Vtune Amplifier, Advisor XE- Discussion and Demo</b>	Understanding about Intel Analysis components 1) Intel Inspector- Memory related issues, debugging 2) Vtune amplifier- Hotspot analysis and fine tuning of the application 3) Advisor XE-Finding out ways to convert serial code to vector code.
	15Mins	3.30-3.45PM	<b>Tea break</b>	
3	90 Mins	3.45PM-5.15PM	<b>Case study discussion-- Intel Primitive Performance and QA</b>	