

Intel oneAPI Workshop- Agenda 10th – 11th May 2023

Brunner-Mond Training Suite, Daresbury Laboratory

DAY 1 – THEME: Accelerating C/C++ programs using SYCL

Time	Session name / description
09:00	Welcome
09:10	Introduction to oneAPI and DevCloud infrastructure
09:30	Intro Programming CPU/GPU using SYCL
10:15	Advanced Programming CPU/GPU using SYCL
11:00	Coffee
11:15	Porting CUDA code to SYCL using Sycromatic
12:00	Lunch
13:00	Hardware agnostic offloading to GPUs from Intel/AMD/NVIDIA.
13:30	LAB1: INTRODUCTORY SYCL / DPC++
15:00	LAB2: Sycromatic
15:30	Coffee + Additional Lab Time/ Individual Help (optional)
16:30	End of Day 1

DAY 2 – THEME: Accelerating C/C++ and FORTRAN using OpenMP

Time	Session name / description
09:00	Welcome
09:10	Offloading using OpenMP (C/C++ and FORTRAN)
09:45	VTune
10:15	Offloading using MKL
11:00	Coffee
11:15	Advisor
12:00	Lunch
13:00	GDB Debug Demo
13:30	LAB3: OpenMP Offloading
14:30	LAB4: VTune Profiling
15:30	Coffee + Additional Lab Time/ Individual Help (optional)
16:30	End of Day 2

The agenda topics and timing are subject to change.