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Intel® HPC update for Earth System Modelling

Wednesday, 22 September 2021 17:00 (20 minutes)

We present an update on Intel® hardware and software roadmaps with an emphasis on technologies most impacting Earth Systems Modelling. In the hardware update, we describe innovations in upcoming 4th Generation Intel® Xeon® Scalable Processors, codenamed “Sapphire Rapids”, and the benefits of accompanying converged technologies such as Intel® Optane™ persistent memory and DAOS exascale-class storage to data-centric workflows. In the software update, we present how the features of Intel® oneAPI enable cross-architectural programming based on established language standards. Finally, we preview future Intel® Xe-HPC -based “Ponte Vecchio” GPUs for HPC and AI.

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