



# Parallel I/O & Libraries (PATC course)

22-23 March 2018

VŠB - Technical University of Ostrava  
IT4Innovations building, training room 207

## Lecturers

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This course, the first one of this focus at IT4Innovations, will present the main concepts relevant to I/O on high-end parallel systems. MPI-IO, the underlying standard for parallel I/O will be introduced, and then two high-level IO libraries (HDF5 and SIONlib) will be presented.

## Thursday 22 March 2018

09:30–10:00	registration
10:00–10:45	IT4Innovations - intro and IO hardware overview
10:45–11:45	General parallel IO strategies
11:45–13:00	lunch
13:00–13:45	IO Profiling
13:45–14:30	Overview of MPI-IO
14:30–15:00	coffee break
15:00–16:30	MPI-IO: performance and ROMIO
16:30–17:00	coffee break
17:00–18:00	MPI-IO: hands-on

## Friday 23 March 2018

09:00–10:30	HDF5: overview of basic HDF5 and API, hands-on
10:30–11:00	coffee break
11:00–12:30	Parallel HDF5: overview and hands-on
12:30–13:30	lunch
13:30–15:00	SIONlib: basic routines, hands-on
15:00–15:30	coffee break
15:30–17:00	SIONlib: advanced SIONlib features, utility tools, hands-on

