Checkpointing and Restarting of HPC Computations

- **Motivation**
  - Checkpointing of HPC-calculations can → mitigate hardware failures
  → enable more efficient scheduling of jobs
  - But most HPC codes have no checkpointing implementation!
    → use checkpointing from the outside

- **Tasks**
  - Evaluate DMTCP (+MANA) for
    - test cases and HPC-codes from PC²-benchmark suite
    - different interconnects, parallelization techniques, hardware architectures, GPUs

- **Required Knowledge**
  - Experience with using HPC cluster
  - Good command of C++, MPI and OpenMP

- **Contact**
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