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Scalable communication event tracing via clustering

Amir Bahmani, Frank Mueller

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#### ACCEPTED MANUSCRIPT

### \*Highlights (for review)

A clustering approach to tracing is proposed, where only a small set of representative nodes obtain event information.

The approach traces the MPI communication of codes with O(log P) time complexity with an adaptive signature technique.

Experiments show that nine clusters suffice to capture the communication behavior of all nodes several HPC benchmarks.

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