

An Endpoint Communication Profiling Tool for Distributed Computing Frameworks

Message exchange is a central activity in distributed computing frameworks. Nevertheless, past research has paid little attention on profiling techniques and tools for endpoint communication. In this paper, we fill this gap by introducing a new fine-grained profiler for endpoints and communication between them in distributed systems. Our tool aids efficient analysis, optimization, and tuning of endpoint communication in distributed frameworks. The paper presents an overview of our profiler, discusses employed profiling techniques and collected metrics, and shows preliminary results in profiling a well-known distributed computing framework.

Author: Walter Binder (walter.binder@usi.ch)