Universität Hamburg
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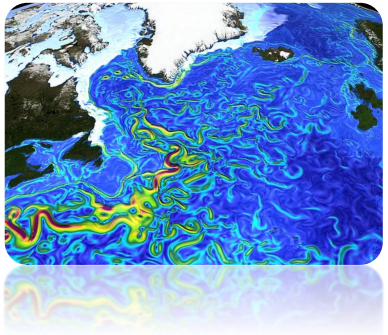
https://kieker-monitoring.net/

Update @ SSP 2022 – Nov 8, Stuttgart

Selected Research Projects and Activities *(1/2)*

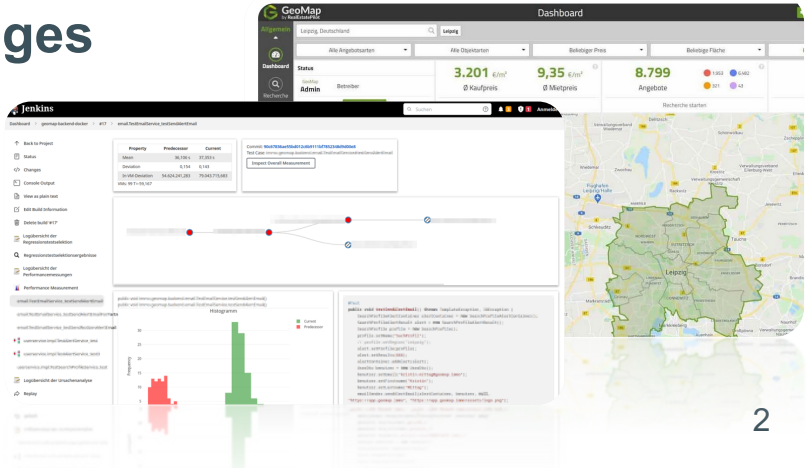
- **Dynamic analysis of ocean models**
  - Architecture Recovery from Fortran Code

Presentation by Reiner today



- **PeASS: Identifying Performance Changes**
  - Geomap industrial case study

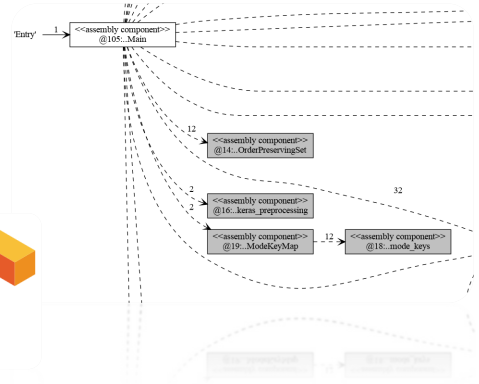
Presentation by David tomorrow



Selected Research Projects and Activities *(2/2)*

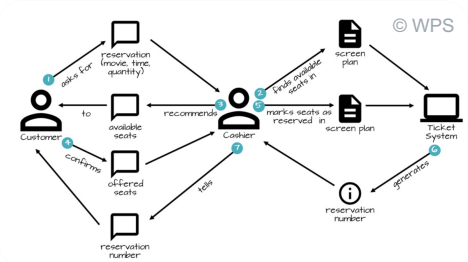
- **Performance evaluation of data-intensive systems**
  - Instrumentation of AI-enabled systems with Python/Keras/TensorFlow

Presentation by Serafim today



- **Domain-centric runtime quality analysis**
  - Domain-centric monitoring (starting from DDD)

Presentation by Heiko tomorrow



Extended Language Support for Non-Java Languages

Python

Fortran

C / C++

Presentations by
Serafim + Reiner today

RECENT POSTS

Monitoring Support for Python

Posted on **30.08.2022** by **Reiner Jung**

We started the development of instrumenting Python last year and have developed monitoring probes for Python and two weaving approaches. They will be presented (hopefully) at the Symposium for Software Performance. However, the tooling is already available and can be found on GitHub. Currently, we are integrating new features, cleanup the code and write documentation for end users. All these artifacts will become available in the general Kieker documentation.

Posted in **News**

Kieker Monitoring Support for C and Fortran

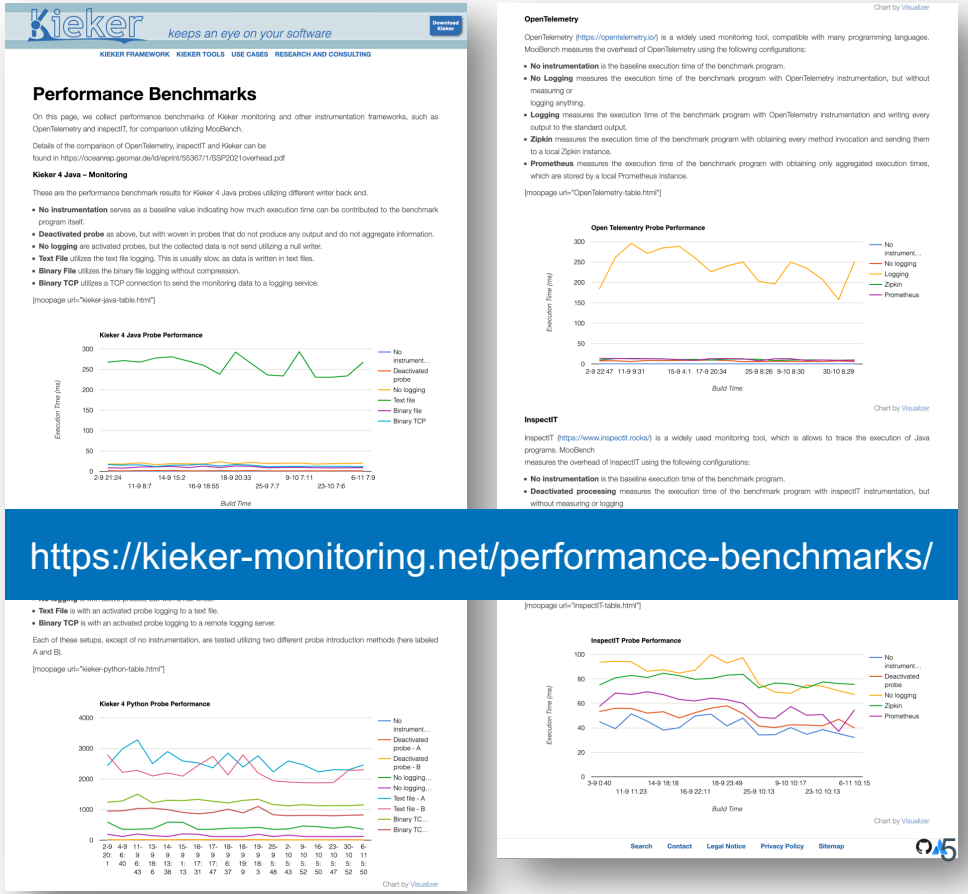
Posted on **30.08.2022** by **Reiner Jung**

Kieker now provides monitoring probes for C, Fortran and any other language supported by the GNU Compiler Collection or the Intel compilers including ifort. The code is currently available on GitHub. In the near future, we will provide Debian/Ubuntu packages … Continue reading →

Posted in **News**

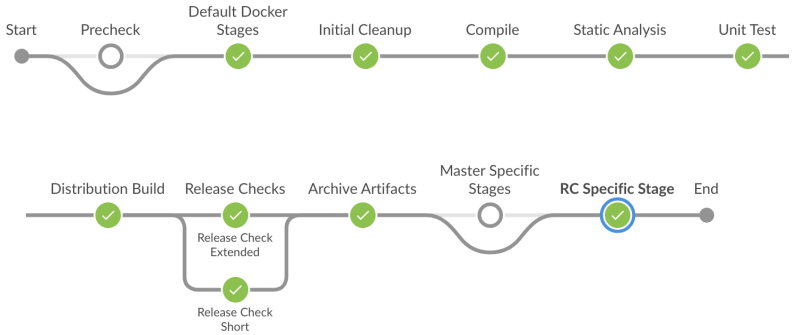
Updates to MooBench Benchmark

- Updated to
  - current Kieker version
  - OpenTelemetry
  - inspectIT
- Continuous execution of benchmarks has been automated (again)
- Now includes Kieker4Python
- Planned for C/Fortran/C++



Releases and Release Process

- Changed (continuous) release policy
  - Semantic versioning: ***`MAJOR.MINOR.FIX`***
  - Extended automation towards continuous delivery (via Maven central)
  - Latest 1.15.2 on Nov 7, 2022



- Upcoming: Kieker 2.0
  - Finalized integration of TeeTime-based stages
  - Consistent naming conventions for stages
  - Restructured packages: technology-based → topic-based
  - Revised architecture model and architecture analysis
  - Observe and analyze user behavior based on graph clustering algorithms

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