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

Presentations by Serafim + Reiner today

**Python**

**Fortran**

**C / C++**

**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 ...

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++

https://kieker-monitoring.net/performance-benchmarks/
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