Abstract
This is the companion artifact for the paper “Multiparty Session Types for Safe Runtime Adaptation in an Actor Language”. EnsembleS is an actor-based programming language supporting dynamic self-adaptation, (discovery, replacement, and communication), which also guarantees communication safety. The artifact includes the EnsembleS compiler, the modified StMungo code, and all examples contained within the paper.

2012 ACM Subject Classification Software and its engineering → Concurrent programming languages
Keywords and phrases Concurrency, session types, adaptation
Digital Object Identifier 10.4230/DARTS.7.2.X
Funding Supported by EPSRC grants EP/T014628/1 (STARDUST), EP/K034413/1 (ABCD), EP/L01503X/1 (CDT in Pervasive Parallelism), ERC Consolidator Grant Skye (682315), and by the EU HORIZON 2020 MSCA RISE project 778233 (BehAPI).
Acknowledgements Thanks to the ECOOP’21 AEC for their useful comments.
Related Conference 35th European Conference on Object-Oriented Programming (ECOOP 2021), July 12-16, 2021, Aarhus, Denmark (Virtual Conference)

1 Scope
The artifact showcases the implementation of the EnsembleS compiler and typechecker, and shows that it can run the example code included in the paper. It also shows how the typechecker will statically detect errors.

2 Content
The artifact package includes:
- The EnsembleS implementation, in particular the compiler and typechecker
- A modified StMungo implementation which generates EnsembleS template code
- The example code from the paper
The artifact endorsed by the Artifact Evaluation Committee is available free of charge on the Dagstuhl Research Online Publication Server (DROPS).

This artifact has been tested on VirtualBox 6.1 on Arch Linux, with 16GB RAM and an Intel Core i7 9th Gen. It should be runnable on any modern laptop or desktop machine.

The artifact is available under the GPLv3 license.

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