

Dynamic Languages Symposium Most Notable Paper Award 2025

Compiling for Multi-language Task Migration

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Dynamic Languages Symposium 2015

Recent years have seen a resurgent interest in the use and implementation of first-class control, especially in the form of delimited continuations via effect handlers. This paper is motivated by the challenges of implementing continuations for an uncooperative environment and the opportunities for code migration that the implementation affords. The paper recaps the design of the Gambit Virtual Machine for efficient continuations, and it provides evidence for the ongoing effectiveness of the design.

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