

Assertion with Aspect*

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Abstract

We propose to use aspects for the specification of assertions, in order to separate the concerns of contract checking from other concerns and enhance the power of assertion checking to include call stack's properties. Although traditional assertions improve predictability but may inhibit the reuse of classes, the proposed assertion in AOP way allows programmers to write easily customizable contracts for a component, which may contain several objects. In this paper, we discuss how assertions extended for AOP affect the software engineering properties including comprehensibility, predictability and reusability.

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