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Abstract

We propose to use aspects for the specification of assertions, in order to separate the
corns 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.