

# Dynamic ABV over Rhapsody UML

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In the software design community, the Unified Modeling Language (UML) has been established as formalism for design of large and safety critical systems. Much research in the recent past has been done on defining an environment for the formal verification of behavioral properties of UML designs.

The Formal-V group has developed the foundations of an assertion-based verification platform for UML models over the Rhapsody development platform. The main idea of the approach evolves around creation of property monitors, along similar lines, as has been pursued by the EDA community. Adoption of ABV in the UML context has its own challenges and issues, and we are presently working on solving these to extend the tremendous success of ABV in the hardware domain to the software domain as well.