Abstract

AADL (Architectural Analysis and Design Language) is a textual and graphical language used to design and analyze software architecture of embedded real time systems. Many tools and models provide semantics and precise meaning for AADL architecture behavior. However, they are not supported by a well defined formal semantics. This paper suggests Rewriting Logic via its practical language Maude as an adequate formalism for modeling behavior concepts in an AADL architectural description. Besides, RT-Maude system offers a natural support to execute and prototype real-time object-oriented modules formalizing AADL architecture behavior composed of several communicating threads.
- Sokolsky, O., Lee, I., and Clarke, D. 2009 Process-Algebraic Interpretation of AADL Models. 14th International Conference on Reliable Software Technologies, LNCS 5570, pp. 222-236

Index Terms

Computer Science
Software Engineering

Key words
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