Abstract

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Zusammenfassung

This document presents a steam-boiler specification for the seminar "Semantische Methoden im Wettbewerb" on June, 4th 1995 in Schloß Dagstuhl, Germany based on the informal specification provided by Jean-Raymond Abrial ([1], [2]). The style of the specification itself is strongly related to VDM. Therefore most of the definitions are explicit as they used to be in traditional VDM specifications. The specification language used is RSL (the RAISE Specification Language [3]). This choice has been taken due to the powerful but nevertheless easy to handle editor provided by the RAISE system.
The presented solution to the control program gives a complete detailed formal requirements specification of all steam boiler components and the behaviour of the control program. The final version will include comments on and a discussion of the framework and method that have been used to develop the specification.

Literatur

[1] Jean-Raymond Abrial, Steam-boiler control specification problem, August 1994

[2] Jean-Raymond Abrial, Additional Information Concerning the Physical Behaviour of the Steam-Boiler, January 1995

[3] The RAISE Language Group, The RAISE Specification Language, Prentice Hall, 1992