

Checking property based component-compatibility

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Abstract

Development of large systems recently uses different free-, open-source or 3rd party components. These components have several properties, such as size, licence, reliability to mention only a few. Combining these components means also combining the values of these properties, and it raises some questions. What issues do we face when combining components with different property values? Can different property values cause such problem that prevents the valid combination of the components? How will it affect on the same property of the system? In this paper we set general problem and give formal specification of component-compatibility, we introduce a general solution and the possible ways of application and the requirements of a tool implementation.

Keywords: property, property based, component-compatibility

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