

Preface

This book is about experience gained and lessons learnt in the course of a major European project on industrial deployment of formal methods. The DEPLOY Integrated Project ran for 4 years and involved 15 partners from academia and industry. The editors came to the project from different backgrounds and with different motivations. Sascha (Alexander) Romanovsky has been working on system dependability and fault tolerance for many years and has always stressed the importance of reasoning about faults and fault tolerance at the earlier phases of system development. He coordinated the RODIN project, preceding DEPLOY, and became involved in writing the DEPLOY proposal and coordination of DEPLOY to see the tools and methods originated in RODIN further advanced and applied in wide industrial settings. Martyn Thomas is an industrialist who has been concerned with safety-critical and other high-dependence computer systems since the 1980s, and who came to DEPLOY eager to understand the barriers to greater use of science-based software engineering in industry. The reader will see in Chapter 15 what we have learnt through DEPLOY and through editing this book, and where we believe the field now stands. It is enough to say here that we have both learnt a lot, and to acknowledge that the success of DEPLOY and the insight that this book contains are the result of the talents, good-humoured collaboration and very hard work of the whole project. We therefore thank Zoe Andrews (Newcastle University), Frédéric Badeau (Systerel), Iulia Banu, Tudor Balanescu (University of Pitesti), David Basin (ETH Zurich), Nicolas Beauger (Systerel), Jens Bendiposto (University of Düsseldorf), Karim Berkani (Siemens), Emmanuel Billaud (Systerel), Pontus Bostrom (Åbo Akademi University), Jeremy Bryans (Newcastle University), Lilian Burdy (Inria), Michael Butler (University of Southampton), Mathieu Clabaut (Systerel), Kriangsak Damchoom (University of Southampton), Renaud De Landtsheer (CETIC), Fredrik Degerlund (Åbo Akademi University), Jean-Christophe Deprez (CETIC), Denisa Diaconescu, Ionut Dinca (University of Pitesti), Nicolas Dubois, Andy Edmunds (University of Southampton), Nadine Elbeshausen, Jérôme Falampin (Siemens), Yoann Fages-Tafanelli (Systerel), John Fitzgerald (Newcastle University), Fabian Fritz (University of Düsseldorf), Andreas Fuerst (ETH Zurich), Aurélien Gilles (Consultant), Rainer Gmehlich (Bosch), Radu Gramatovici (Uni-

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Alexander Romanovsky
 Martyn Thomas



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