HATS: Highly Adaptable & Trustworthy Software Using Formal Models
Report from the Coordinator

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First Annual HATS Project Meeting, Gothenburg 21–23 September

September 22, 2009

http://www.hats-project.eu
General Facts

- Project started 1 March 2009
- All participants are active as planned
- Initial funding received 35% of total EC contribution
- Transferred to all participants 19 February 2009
- Common job advertisement for 11 positions
- Ca. 15 people employed through HATS funding
- HATS Web Site launched March 2009 (Deliverable D6.1)
Active/Upcoming Work Tasks

See also HATS Website Work Packages | Organization Schema

WP1: Framework (UKL)

1.1 UIO, PM 1–12 Core ABS Language
1.2 KUL, PM 9–24 Feature Modeling, Platform Models, Configuration

WP2: Variability (UIO)

2.1 UIO, PM 6–30 A configurable deployment architecture
2.2 CWI, PM 1–24 Feature Integration
2.5 CTH, PM 6–24 Verification of General Behavioral Properties

WP3: Evolvability (KTH)

3.1 UKL, PM 1–24 Evolvable Systems: Modeling and Specification
3.4 KTH, PM 6–24 Evolvability at Bytecode Level
### WP4: Trustworthiness (UPM)

#### 4.2 UPM, PM 1–18 Resource Guarantees

### WP5: Validation (FRH)

#### 5.1 FRG, PM 1–6 Requirement Elicitation

#### 5.2 FRH, PM 6–18 Evaluation of Core Framework

### WP6: Dissemination (FRG)

#### 6.1 FRG, PM 1–48 Dissemination Activities
Dissemination Efforts

(Discussed in more detail by Ralf on Wednesday)

So Far

- Categories “News”, “Publications”, “Deliverables” at Website
- General presentations of the Project by RH:
  - Meeting of COST Action on Verification of OO Software, June 2008
  - FMCO October 2008, Sophia-Antipolis
  - Dagstuhl Seminar on The Java Modeling Language (JML), July 2009
- HATS Track at FMCO 2009 during FMweek, Eindhoven Nov 2009:
  - RH: HATS project overview and scalable verification
  - Arnd Poetzsch-Heffter: Modular specification and verification in HATS
  - Martin Steffen: Design of an abstract behavioral specification language
### Deliverables

#### Past and Upcoming Deliverables

<table>
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<tr>
<th>Del. No.</th>
<th>Deliverable name</th>
<th>WP No.</th>
<th>Lead Beneficiary</th>
<th>PMs</th>
<th>Nature</th>
<th>Dissemination level</th>
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Coordination Action

Implementation of WT 6.4 “Joint Collaborative Task”

Coordination Action EternalS Project 247 758

Trustworthy Eternal Systems via Evolving Software, Data, and Knowledge

▶ Project Partners:
  • Univ Trento, CTH, INRIA, KUL (IP coordinators)
  • Queen Mary Univ (Ebroul Izquierdo), Waterford Inst. (Jim Clarke)

▶ Budget: 550 kEUR for 36 months

▶ Status: negotiations completed, DoW submitted

▶ Start date 1 March 2010 (kick-off with cluster review meeting)

▶ Goals/instruments (only COORD, no RTD)
  • Task Forces (survey state-of-art, set agenda)
  • Workshops, Training Courses
  • Community Building
  • Road maps, white papers, input to future calls
Meetings

Project Kick-Off, 9-11 March Bologna
36 participants from all partners

WT 1.1 Core ABS Language, 28–30 June Bologna
▶ 17 participants from BOL, CTH, UIO, UKL, FRH, CWI, UPM, FRG
▶ fixed structure of Core ABS language
▶ fixed scope of D1.1, discussed tools

WP 3 Evolvability, 17 June Leuven
▶ 10 participants from KUL, CWI, CTH, FRH, FRG, KTH, UKL, UPM
▶ Scope of evolvable systems
▶ Planning of work tasks, possible collaborations & contributions

WT 5.1 Requirements Elicitation, 21 July Kaiserslautern
▶ 4 participants from FRH, FRG, UKL
▶ Preparation of D5.1
Scientific Advisory Board (SAB) & End-User Panel (EUP)

Scientific Advisory Board (SAB)
The SAB helps the SC with follow-up of work package activities
- Sophia Drossopoulou, Imperial College London, UK
- Ugo Montanari, University of Pisa, Italy
- Frank van der Linden, Philips Electronics N.V., The Netherlands

End-User Panel (EUP), Confirmed members, to be extended!
Project-external companies interested in the HATS technology
- Gian Luca Cattani, MAPS SpA, Italy
- Dario Avallone, Engineering Ingegneria Informatica, Italy
- Thomas Santen, European Microsoft Innovation Center, Germany
- Andreas Roth, SAP AG, Walldorf, Germany
- James Hunt, aicas GmbH, Karlsruhe, Germany
- Marco Pistore, Fondazione Bruno Kessler, Trento, Italy
- Thomas Walter, DOCOMO Euro-Labs, Munich, Germany
Relation with the Commission

Change of Project Officer

- Jean-Marie Auger available as “senior adviser” if there is need
- Email communication smooth; so far, no physical meeting

Suggestions for External Reviewers

Suggested to Rüdiger Martin on 17 July 2009 (result to be determined)

- Kaisa Sere, Abo Academy University, Turku
- Rustan Leino, Microsoft Research Redmond
- M. Ali Babar, Lero (Irish Software Engineering Research Centre)
- Jean-Bernard Stefani, INRIA Grenoble
- Ernst-Ruediger Olderog, University of Oldenburg

Annual Cluster Review Meeting for all 4 IPs in ICT Forever Yours Call

- 15–16 March, 2009 synchronized with EternalS CA Kick-Off
- RH, Per W + all WP leaders must be available
FP7 ICT Call 5 Objective 2009.9.5
“Supplements to Strengthen Cooperation in ICT R&D in an Enlarged European Union”

- Funds to extend ICT projects with partners from new EU countries
- Application consists basically of extension of existing DoW
- Concrete request by Tarmo Uustalu, IoC Tallinn, Estonia
  - Well-known researcher in Theoretical CS, Programming Languages
  - Member of Mobius and Cost Action (organized Winter School)
  - Excellent scientific track record, good organizer
  - Expertise and interests match HATS
- Possible area: reinforce work on code generation/compilation
- Deadline 26 Oct 2009
Summary: Main Results and Achievements

- Successful Project Kick-Off
- Work has started in all relevant Work Tasks
  - Several dedicated WT meetings, good participation
  - All participants highly motivated
  - First technical papers with HATS support published
  - All beneficiaries employed or dedicated suitable personnel
  - Work schedule on track
  - Internal intermediate financial report asked for 30 Sep
- SAB and EUP established, 2 of 3 SAB members present
- First deliverable in report form completed on time
- HATS show-cased at FMCO 2009
- Participated in successful proposal for CA EternalS