

WORKSHOP ON MIXED-CRITICALITY INTEGRATION ORGANIZED BY ACROSS, MULTIPARTES AND ARAMIS PROJECTS

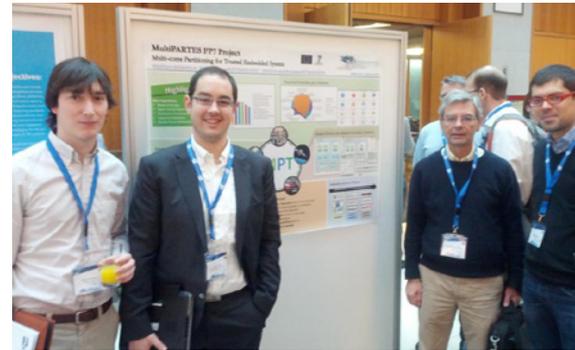
The workshop was co-located with the HiPEAC 2013 conference in Berlin

Entitled “Integration of mixed-criticality subsystems on multi-core processors”, the main motivation of this workshop was to introduce the audience to the research carried out in computer architectures that support mixed-criticality integration and the specific challenges from multi-core processors. More than 60 people from 14 countries – representing Europe and Asia – attended the workshop.

Related European research projects under both FP7 and Artemis programs were represented, namely, ACROSS, MultiPARTES, ARAMIS, CERTAINTY and RECOMP. They featured talks focusing on both the practical and scientific perspectives, on topics such as reference architecture, methodology, tools, certification issues and industrial application, among others. The agenda and the material are available in the workshop website (http://www.across-project.eu/workshop2013_program.htm). A panel discussion was moderated by Salva Trujillo (IK4-IKERLAN) with the following panelists: Alan Burns (University of York), Francisco Cazorla (Barcelona Supercomputing Center), Christian El Salloum (TU Wien) and Bernd Koppenhöffe (EADS Cassidian). The key discussion point



Workshop participants and MultiPARTES poster at HiPEAC 2013.



was how to assure “sufficient” independence among involved subsystems. In this regard, the definition of “sufficient” was key. Several additional trends were covered, including the appearance of multicore, pressure from consumer electronics, and other hot topics.

Following this success in 2013, a continuation is planned in 2014. A seminar at Dagstuhl is being organized on this topic.

MULTIPARTES PROJECT MEETING CO-LOCATED WITH HIPEAC 2013 CONFERENCE

The MultiPARTES FP7 STREP project organized a project plenary meeting,

collocated with the HiPEAC 2013 conference in Berlin. The main goals of the meeting were to discuss the role of the MultiPARTES project in the context of the mixed-criticality systems scenario and to define the boundaries and synergies among projects, seeking for collaborations.

The conclusion was that MultiPARTES is exploring the boundaries of solutions based on existing COTS solutions via the use of multicore partitioning based on hypervisor technology, whilst other projects are focused on building specific hardware, and others are stricter on the methodological side. It became clear that in every approach there are some limitations. MultiPARTES is exploring such boundaries when existing hardware is being used and it focuses on industrial demonstration.

Apart from these topics, the current status of the project was reviewed, with particular focus on discussion of the RTD deliverables.

Further pictures and material at:
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MultiPARTES project meeting in Berlin