Tentative Seminar Schedule

Note:

Please plan for an initial presentation of 20 minutes, followed by a 10 minutes immediate discussion per contribution / allocated slot. In response to the discussion and response by the audience, we have the flexibility to extend certain slot or schedule a corresponding work group session.

There will be half an hour coffee break every morning and afternoon.

Monday, January 28			
Time Talk			
09:00 – 09:30	Welcome, logistical infos on Dagstuhl and the seminar, Motivation for the seminar	A. Herkersdorf M. Paulitsch M. Hinchey	
09:30 – 10:30	Brief one-minute introduction by every participant; Collecting individual objectives for this week	Moderator: A. Herkersdorf	
10:30 - 11:00	Coffee Break		
Session: Overview	on Related EU and BMBF Projects		
	parMERASA - Multi-Core Execution of Parallelised Hard Real-time Applications	T. Ungerer	
	The ACROSS MPSoC (A Deterministic and Certifiable Multi-Core Architecture for Safety-Critical Embedded Applications)	C. El Salloum	
12:15 - 14:00	Lunch Break		
	Overview on the EU RECOMP and BMBF ARAMIS projects	M. Paulitsch et al.	
Session: Industry P	erspectives		
	Porting a grown system from single- to multi-core hardware	R. Graf	
	Commercial Challenges of MultiCore products in Automotive	G. Farrell	
	Sharing resources of multi-core system-on-chips in mixed-criticality applications: Issues and solutions towards achieving temporal partitioning	M. Paulitsch	
	"Heterogeneous Multiprocessing or Just a Bunch of Coprocessors?" – The case for unified programmability	E. Lübbers	
17:30 – 18:00	Reflections on the day	Moderator: A. Herkersdorf	
18:00	Dinner		

Tuesday, January	29	
Time	Talk	
Session: Coping w	ith Non-Functional Requirements	
	Real-Time: Many cores - many problems	R. Wilhelm
	Hard Real-Time: Many cores - many problems Timing Predictability of Multi-Core Processors	C. Ferdinand, R. Wilhelm
	Safe(r) Loop Computations on Multi-Cores	J. Teich
	Chances and risks for security in Multicore processors	G. Sigl
	Necessity for & Feasibility of a Multicore Ecosystem	A. Herkersdorf
12:00 – 12:15	Introduction to work group proposals	R. Graf S. Petters G. Sigl L. Thiele
12:15 - 14:00	Lunch Break	
Session: Software	Development for Multicore	
	Analysis of Embedded Software for Multicore in the Automotive Domain	S. Görzig
	Distilling Programs for Multicore Architectures	G. Hamilton
	Sustainable development of software in the Multi-Core age	M. Pruksch
	First work group meetings	
	Plenum presentation and discussion on work group findings	
17:30 – 18:00	Reflections on the day	Moderator: M. Paulitsch
18:00	Dinner	

Seminar on Multicore Enablement for Embedded and Cyber Physical Systems, 13052 Sunday, January 27 – Friday, February 1

Wednesday, Janua	ry 30		
Time	Talk		
Session: Multicore Architecture Aspects			
	Workgroup Meeting Summaries	L. Thiele	
		G. Sigl	
	IDAMC - A manycore architecture for mixed critical applications	R. Ernst	
	NoC contention in many-cores and its impact on	S. Petters	
	mapping		
	Isolation of cores to support development of mixed critical systems based on multicore controllers	C. Stellwag	
	Fault-Tolerant Time-Triggered Communication Infrastructure for Multi-Processor Systems-on-a-Chip	R. Obermaisser	
	Reflections on t(w)oday	Moderator: M. Paulitsch	
12:30 - 13:30	Lunch Break		
	Hiking tour or sightseeing to Trier		
18:00	Dinner		

Seminar on Multicore Enablement for Embedded and Cyber Physical Systems, 13052 Sunday, January 27 – Friday, February 1

Thursday, January 31			
Time	Talk		
Session: Tools for Multicore			
	Efficient observation of Multi-Core SoCs	A. Weiss	
	A Model-based Approach for Optimizing Existing Real- Time Software on Multicore Processors	M. Deubzer	
	High-level Simulation-based Design Space Exploration on Multicore Virtual Platforms	T. Wild	
	Overview on multicore technology development in the European space industry for future missions	M. Ferraguto	
	Fine-Grained Methodology for HW/SW Process Migration in MPSoCs	S. Parameswaran	
12:15 – 14:00	Lunch Break		
	OpTiMSoC – An Open Source Experimentation Platform for Multicore	S. Wallentowitz	
	Continuation of work group meetings		
17:30 – 18:00	Reflections on the day	Moderator: tbd	
18:00	Dinner		

Friday, February 1st			
Time	Talk		
12:30 - 14:00	Lunch Break		