



X-Stack Portfolio PI Meeting Agenda

March 20-22, Auditorium Bld. 50, Lawrence Berkeley National Laboratory

Wednesday, March 20 2012		
7:30am – 8:00am	Continental Breakfast Registration	Auditorium
8:00am – 8:15am	Opening Remarks (Sonia Sachs)	Auditorium
8:15am – 8:45am	DEGAS (Kathy Yelick)	Auditorium
8:45am – 9:15am	D-TEC (Dan Quinlan)	Auditorium
9:15am – 9:45am	Traleika Glacier (Shekhar Borkar)	Auditorium
9:45am–10:00am	Break	
10:00am -10:30am	XPRESS (Ron Brightwell)	Auditorium
10:30am -11:00am	Innovations in Programming Models, Compilers and Runtime Systems for Dynamic Adaptive Event-Driven Execution Models (Rishi Khan)	Auditorium
11:00am -11:30pm	SLEEC: Semantics-rich Libraries for Effective Exascale Computation (Milind Kulkarni)	Auditorium
11:30am -12:00pm	Autotuning for Exascale: Self-Tuning Software to Manage Heterogeneity in Algorithms, Processors and Memory Systems (Mary Hall)	Auditorium
12:00pm – 1:00pm	Lunch	
1:00pm – 1:30pm	Exploiting Global View for Resilience (GVR) – Andrew Chien	Auditorium
1:30pm – 2:00pm	Program Correctness, Verification and Testing for Exascale (Koushik Sen)	Auditorium
2:00pm – 2:30pm	CoDEX and Data Movement Dominates (John Shalf and Arun Rodrigues)	Auditorium
2:30pm – 2:45pm	Break	
2:45am – 3:15pm	Evolving MPI to Exascale (Rajeev Thakur)	Auditorium
3:15pm – 3:45 pm	Execution Models (John Shalf and Gilbert Hendry)	Auditorium
3:45pm – 4:15am	Performance and Power Modeling (Adolfy Hoisie)	Auditorium
4:15pm – 4:45pm	Software Synthesis and Zettabricks (A. Solar-Lezama and Saman Amarasinghe)	Auditorium
4:45pm – 5:15pm	Programming Environments: What’s Next? (Barney Maccabee)	Auditorium

Thursday, March 21 2012

7:30am – 8:00am	Continental Breakfast	Auditorium
8:00am – 8:30am	MADNESS (Robert Harrison)	Auditorium
8:30am – 9:00am	Climate App (Philip Jones)	Auditorium
9:00am – 9:30am	Vancouver and Blackcomb Overview (Jeff Vetter)	Auditorium
9:30am – 10:00am	Programming Environments: What's Next? (Barney Maccabee)	Auditorium
10:00am – 10:15am	Break	TBD
10:15am – 11:15am	Parallel session I: Runtime Systems (moderator: Vivek Sarkar) Parallel session II: Compilers (moderator: Dan Quinlan)	70A-3377 70-191
11:15am – 12:15pm	Parallel session III: Resilience (moderator: Andrew Chien) Parallel session IV: Languages and DSL (moderator: Kathy Yelick)	70-191 70A-3377
12:15pm – 1:15pm	Lunch X-Stack Wiki information (Rishi Khan)	
1:15pm – 2:15pm	Parallel session V: Auto-tuning and Learning (moderator: Saman Amarasinghe) Parallel session VI: Simulation technology (moderator: Shekhar Borkar)	70-191 70A-3377
2:15pm – 2:45pm	Reporting on parallel sessions (5 min/session)	Auditorium
2:45pm – 3:00pm	Technology Marketplace introduction and directions (Saman Amarasinghe)	Auditorium
3:00pm – 3:30pm	Break	
3:30pm – 6:30pm	Technology Marketplace Sessions: TM session I: Runtime Systems (coordinator: Vivek Sarkar) TM session II: Resilience (coordinator: Andrew Chien) TM session III: Auto-tuning and Learning (coordinator: Saman Amarasinghe) TM session IV: Languages and DSL (coordinator: Kathy Yelick) TM session V: Compilers (coordinator: Dan Quinlan) TM session VI: Simulation technology (coordinator: Shekhar Borkar)	Cafeteria (see map attached)

Friday, March 22 2012

7:30am – 8:00am	Continental Breakfast	
8:00am – 9:00am	SET and X-Stack Coordination plan with Co-Design Centers (Kathy Yelick) presentation	Auditorium
9:00am -10:00am	SET and X-Stack Coordination plan: Discussions (All)	Auditorium
10:00am – 10:15am	Break	
10:15am – 10:45am	Mantevo (Richard Barrett)	
10:45am –11:15am	FOX: A Fault-oblivious Extreme-scale Execution Environment (Maya Gokhale)	Auditorium
11:15am –11:45am	Exploring Efficient Data Movement Strategies for Exascale Systems with Deep Memory Hierarchies (Pavan Balaji)	Auditorium
11:45am – 12:15pm	Computing Architecture Laboratory (CAL) and Fast Forward update (John Shalf and Jim Ang)	
12:15pm – 1:00pm	Lunch	
1:00pm – 2:30 pm	Revising the X-Stack software vision and Path Forward (All)	Auditorium

Map of Technology Marketplace