NAMD Developer Workshop

Room 3269 - Beckman Institute, University of Illinois, Urbana Illinois. June 11-12, 2018

Day1: Monday, June 11, 2018

8:30	Participants Reception - TCB Courtyard I, 3rd Floor				
09:00-09:15	Welcome, Introductory Words - Room 3269, 3rd Floor				
NAMD Design Overview & Performance					
09:15-10:00	Talk 1	David Hardy	NAMD Design Overview and Ongoing Challenges		
10:00-10:30	Talk 2	James Phillips	Experiences with NAMD on the Summit POWER9/Volta Supercomputer		
10:30-11:00	Coffee break				
11:00-11:15	Talk 3	Ronak Buch	Possible GitHub Migration Discussion		
Free-Energy and Alchemical Calculations					
11:15-11:45	Talk 4	Chris Chipot	Free Energy in NAMD: Then, Now and Tomorrow		
11:45-12:15	Talk 5	Giacomo Fiorin	Collective Variables Module Updates		
12:15-01:45	Lunch break				
01:45-02:15	Talk 6	Ronald Tse	Double Wide Free Energy Perturbation		
02:15-02:45	Talk 7	Wei Jiang	Development of Single Topology Alchemical Free Energy Calculation and User Interface		
02:45-03:15	Coffee break				
03:15-03:45	Talk 8	Brian Radack	Developing a Roadmap for Alchemical Calculations in NAMD		
Free-Energy Methods in NAMD Roadmap					
03:45-05:45	Round Table + Roadmap Elaboration				
6:30	Social dinner				

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Day 2: Tuesday, June 12, 2018

9:00	Opening of the second day - Room 3269, 3rd Floor				
NAMD Features and Performance					
09:00-09:45	Talk 9	David Hardy	NAMD Software		
			Architecture		
09:45-10:15	Talk 10	James Phillips	NAMD and Charm++		
			Performance Tuning for		
10.15-10.45	Coffee break		Osers and Developers		
10:15-10:45		Ponak Buch	New and Euture Features		
10.45-11.15			in Charm++		
Enhanced Sampling					
11:15-11:45	Talk 12	Jérôme Hénin	Efficient Implementations of		
			Adaptive Multilevel Splitting		
			and Double-Wide Sampling		
11:45-01:15	Lunch break				
01:15-01:45	Talk 13	James Gumbart	Hydrogen-Mass		
			Repartitioning Using NAMD		
01:45-02:15	Talk 14	Yinglong Miao	Gaussian Accelerated		
			Molecular Dynamics in		
00.15 00.45	Coffee breek		NAMD		
02.15-02.45	Collee Dreak				
02:45-03:15		Juan Perilia	by Integrating NMR Chemical		
			Shifts with Molecular		
			Dynamics Simulations		
03:15-03:45	Talk 16	Noah Trebesch	Modeling and Simulation of		
			Geometrically Accurate,		
			Multibilion Atom Cellular		
			xMAS Builder		
QM/MM in NAMD					
03:45-04:15	Talk 17	Rafael Bernardi	NAMD and VMD combined		
	-		for easy and fast QM/MM		
			simulations		
NAMD — roadmap					
04:15-05:30	Round Table + Roadmap Elaboration				
5:30	Closing of the workshop				