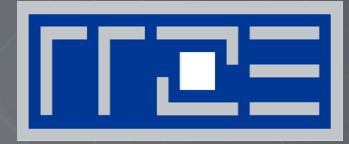


**ERLANGEN REGIONAL
COMPUTING CENTER**



Node-Level Performance Engineering for Multicore Systems

<http://goo.gl/Z5ctSQ>

J. Treibig

HiPerCH 3, 23./24.03.2015

Schedule Day 1

Monday	Topic
10:30-11:30	Introduction to Multicore & Computer architecture
11:30-12:30	Basics of Performance Engineering
12:30-13:30	Lunch
13:30-14:45	Single core performance issues 1
14:45-15:00	Coffee Break
15:00-16:00	Exercise: FP divide latency, Code Optimization
16:00-17:00	Single core performance issues 2
17:00	End of Day 1

Schedule Day 2

Tuesday	Topic
9:00-10:00	Introduction to OpenMP
10:00-10:30	Exercise: STREAM triad
10:30-10:45	Coffee break
10:45-11:45	Mikrobenchmarking
11:45-12:30	Exercise: Raytracer
12:30-13:30	Lunch
13:30-14:30	Tooling for Performance Engineering
14:30-14:45	Coffee break
14:45-15:15	Exercise
15:15-16:00	Introduction to roofline model
16:00	End of day 2