

MTraceCheck: Validating Non-Deterministic Behavior of Center for Future Architectures Research Memory Consistency Models in Post-Silicon Validation CFAR **Doowon Lee and Valeria Bertacco**, University of Michigan **STAR**net Task 8.1 – Extreme scaling for design and verification **2. Prior Memory Consistency Validation** 3. MTraceCheck Workflow

Theme 2384.008 – Threats

- memory accesses
 - weakly-ordered models (ARM, IBM POWER), etc.
- patterns during their program executions

 - multi-threaded programs
 - in multi-threaded programs





