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# Fault-Tolerance Strategies for HPC Platforms

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## Abstract

The NSF SMURFS project explores the impact of faults and failures, fault mitigation strategies and emerging technologies by providing new analytical and component models for predicting fault-tolerant application behavior at scale. In this talk, I will present the recent results coming from case studies developed in the context of SMURFS, focusing on resource sharing, node provisioning, and resilience strategies.

**Keywords:** checkpointing, fault, tolerance, shared platforms, HPC

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