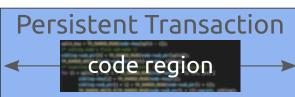
Crafty: Efficient, HTM-Compatible Persistent Transactions Kaan Genç

The Ohio State University

Persistent transactions are a programming model where:

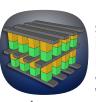
- Data is persistent, it survives power failures
- After recovering from a failure, transactions are atomic
- are isolated



The most effective ways to provide data

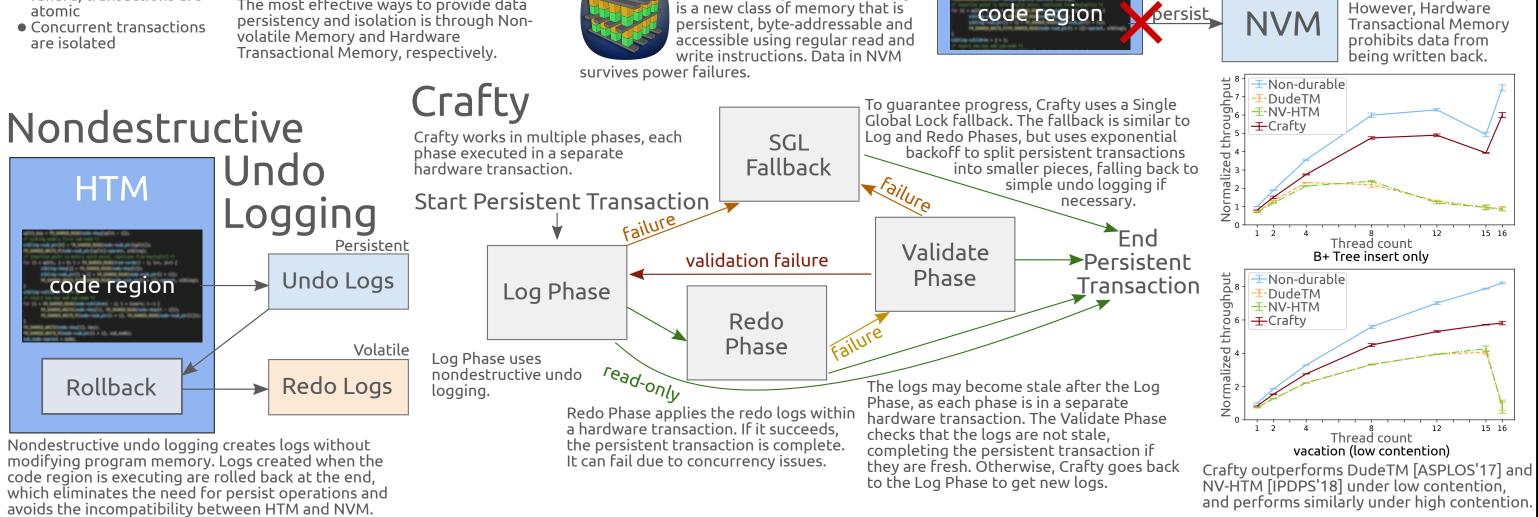
Michael D. Bond The Ohio State University

Non-volatile Memory



Non-volatile Memory (NVM), such as Intel Optane DC Memory, is a new class of memory that is persistent, byte-addressable and accessible using regular read and write instructions. Data in NVM







HTM and NVM are incompatible Non-volatile Memory

uses persist operations

to write data from

cache to memory.