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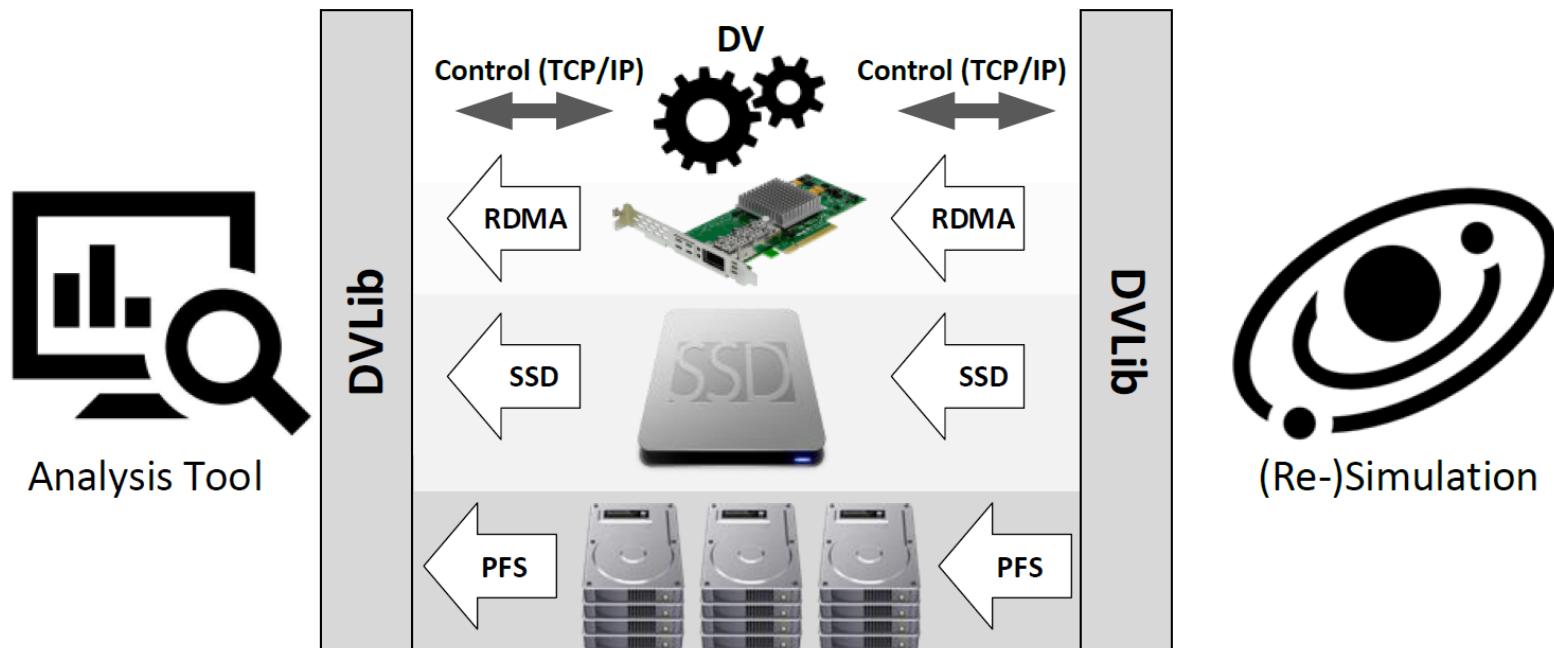
# SimFS: A Simulation Data Virtualizing File System



# Disk-Backed Solution



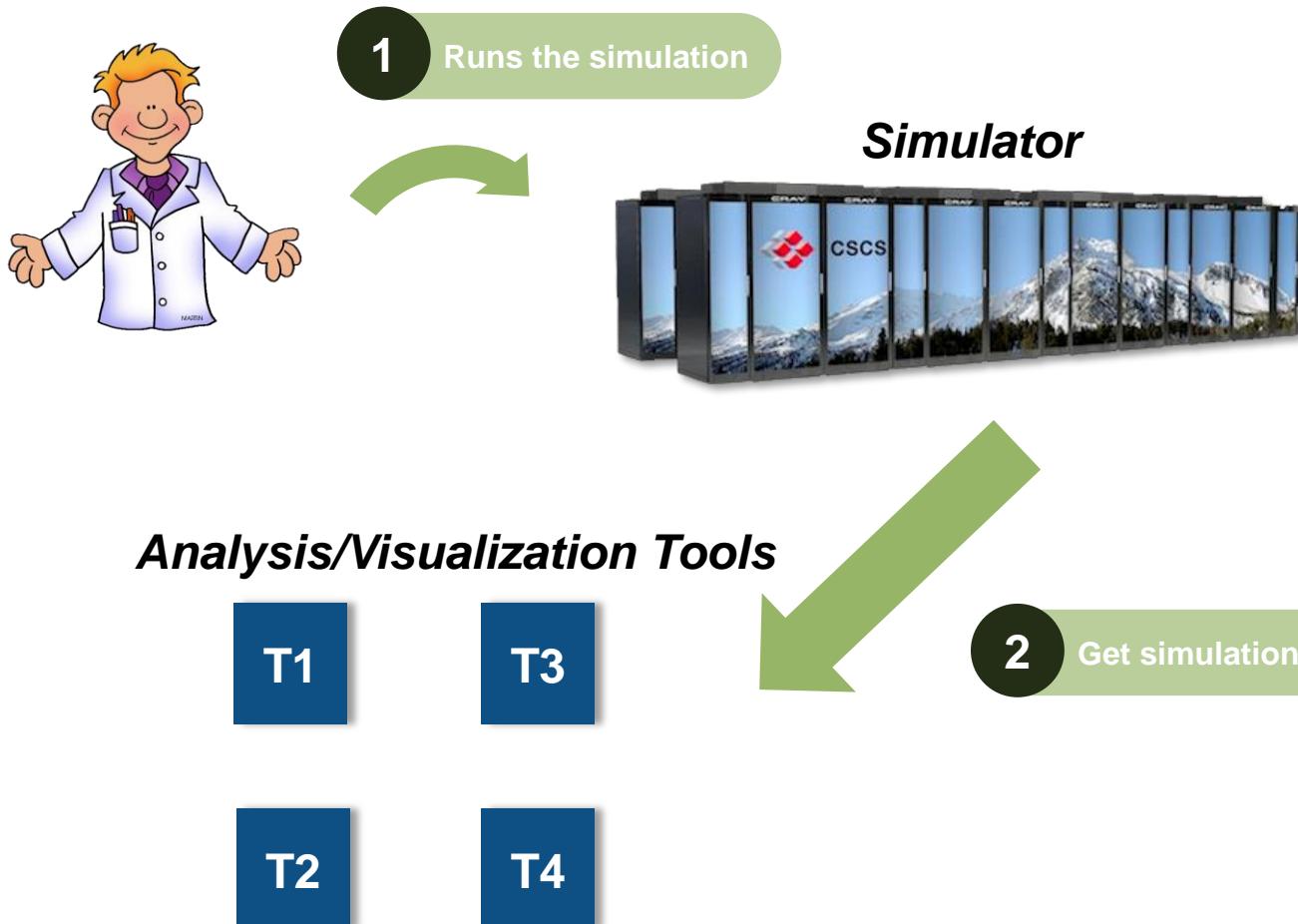
# SimFS: Virtualizing Simulation Data





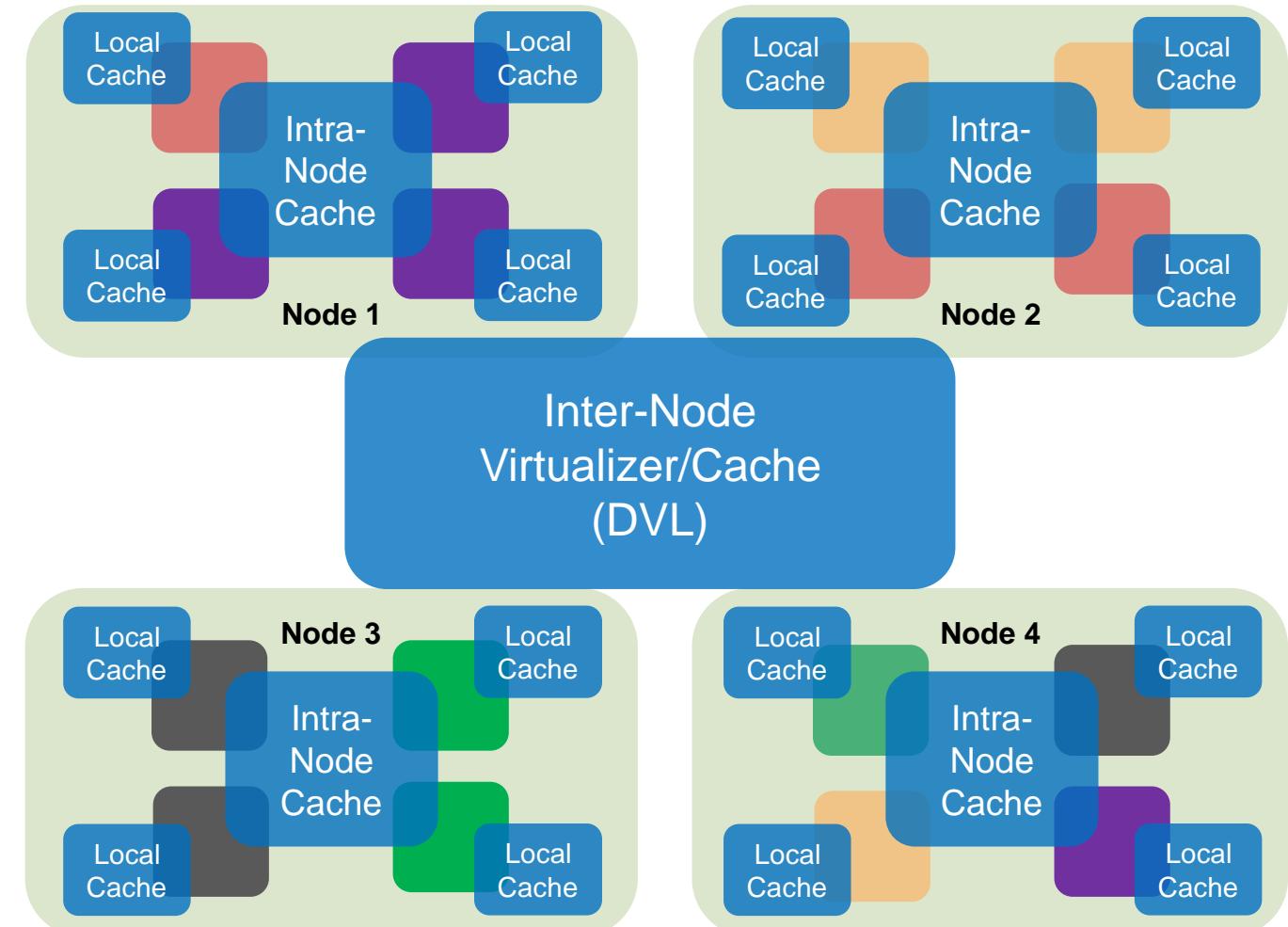
# Backup

# In Situ Solution

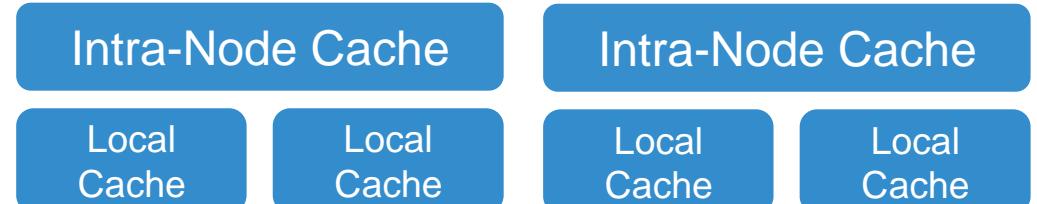


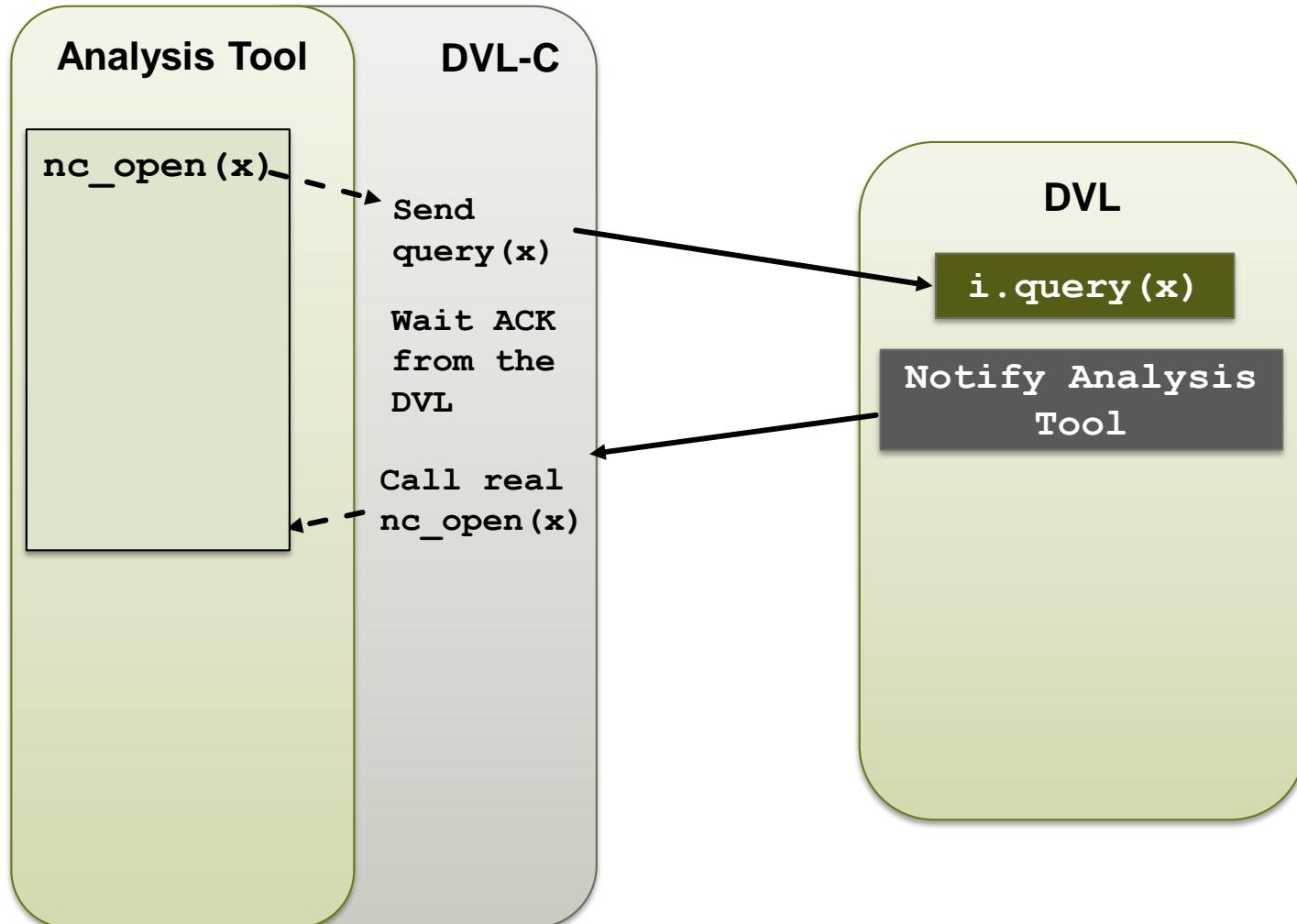
- X Elasticity
- X Persistent data
- ✓ I/O Capacity
- ✓ I/O Bandwidth

# SDaVI Framework

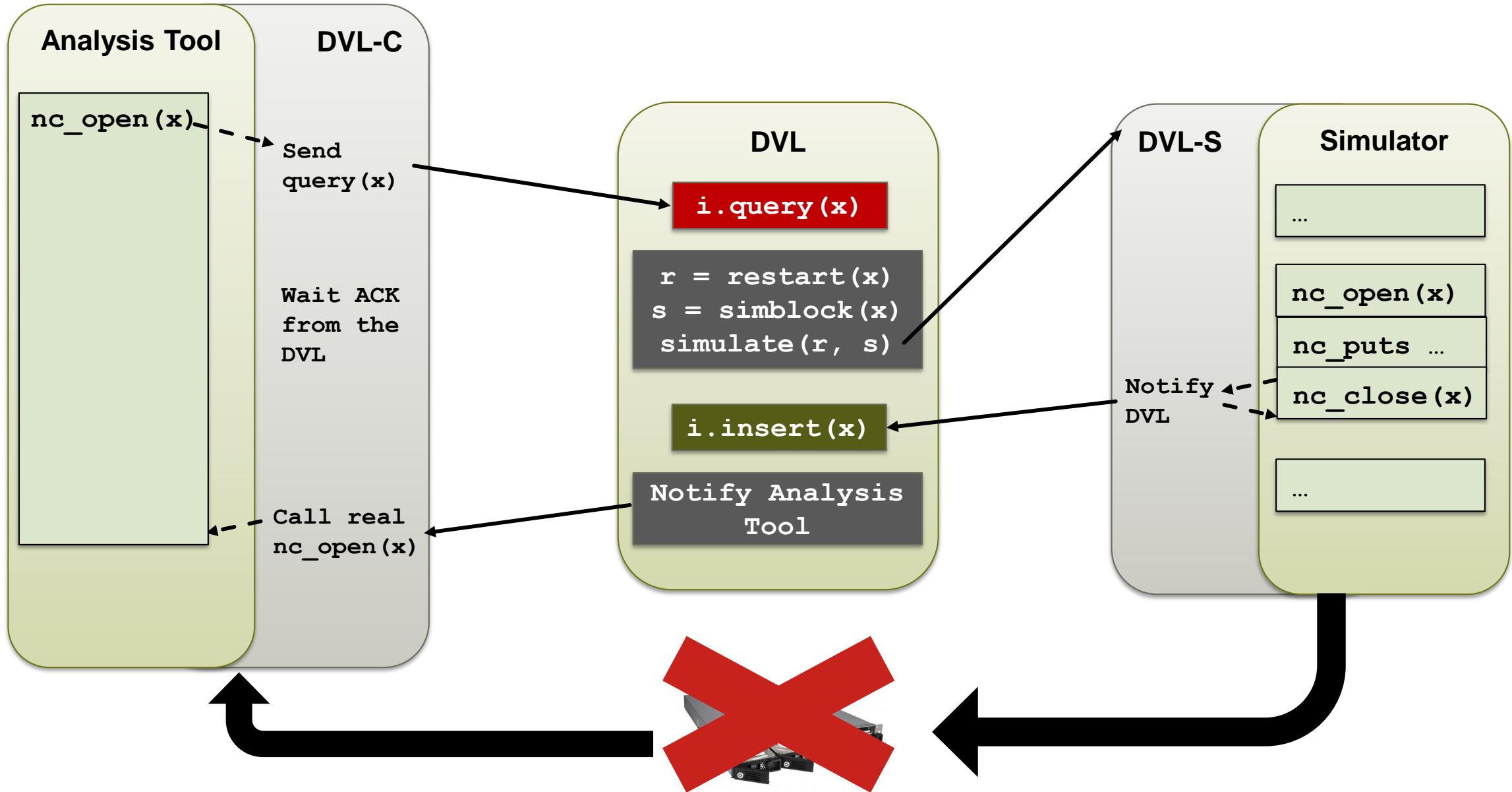


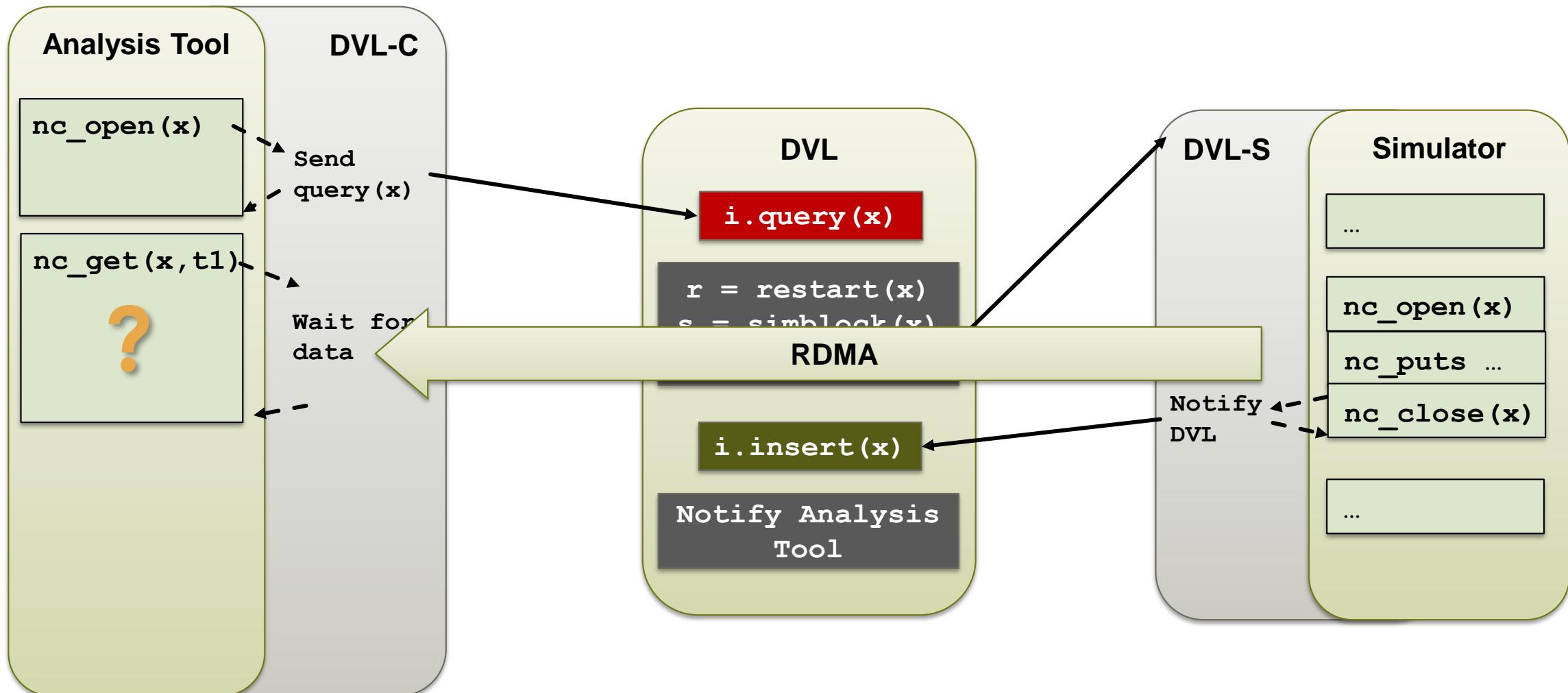
Inter-Node Virtualizer/Cache (DVL)





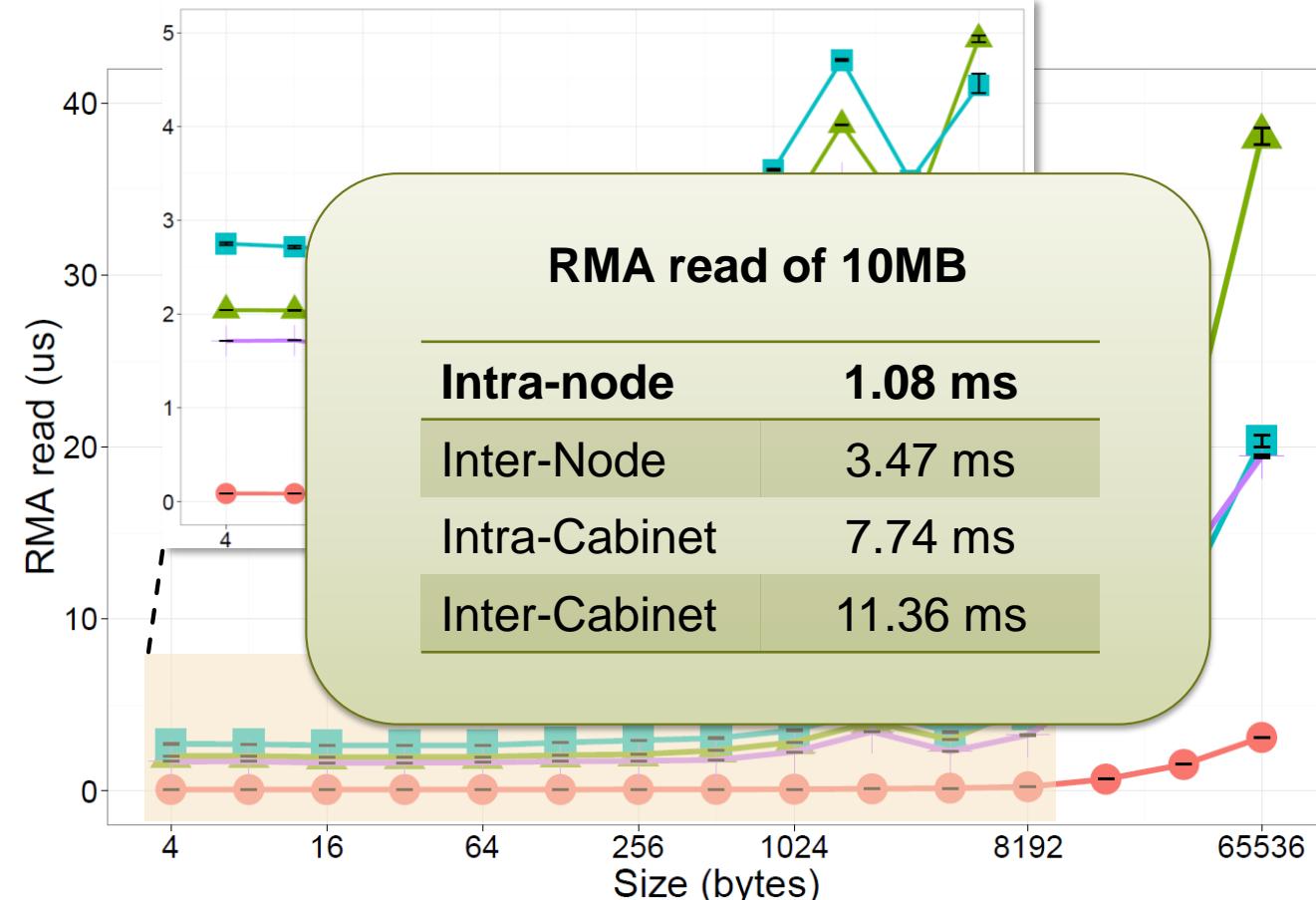
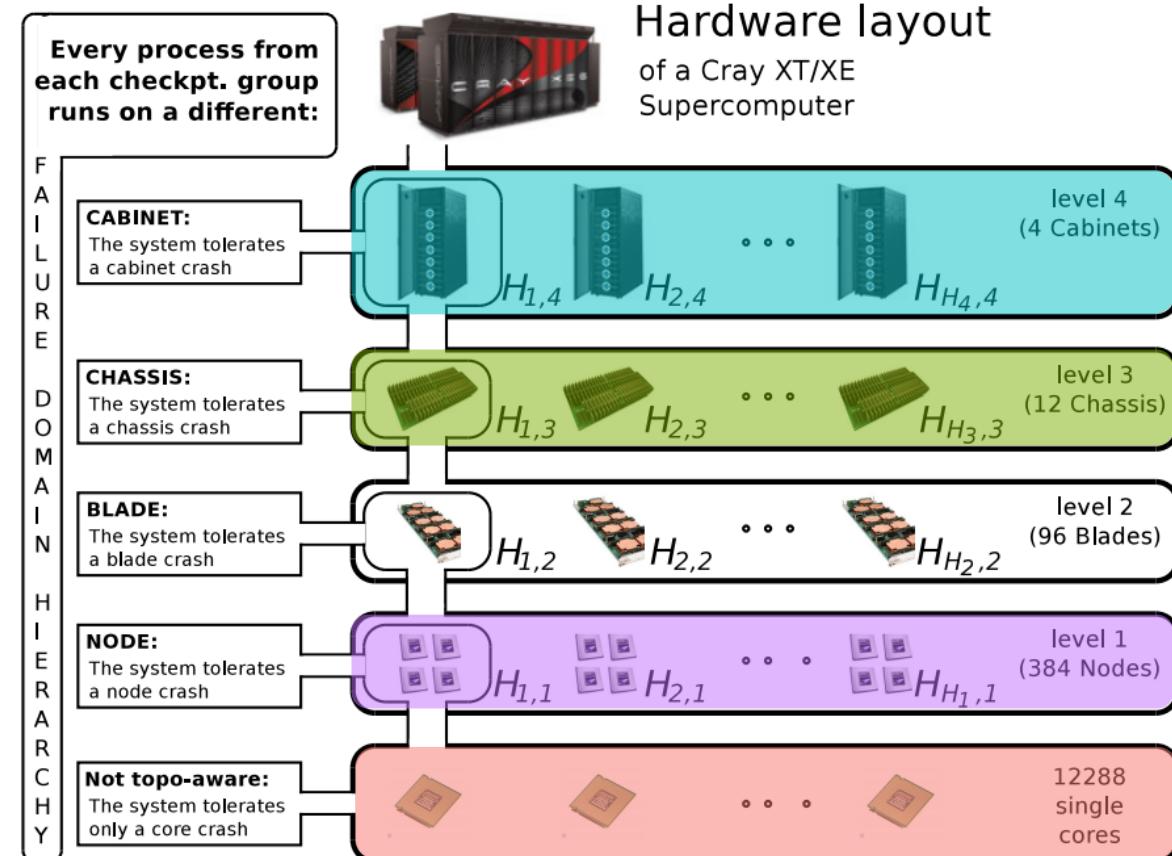
Hit = Offline Simulation





Miss = In Situ Simulation

# Does intra/local node caching make sense?



M. Besta, T. Hoefer, Fault Tolerance for Remote Memory Access Programming Models,  
HPDC'14