

Automating Application-Driven Multi-GPU System Design

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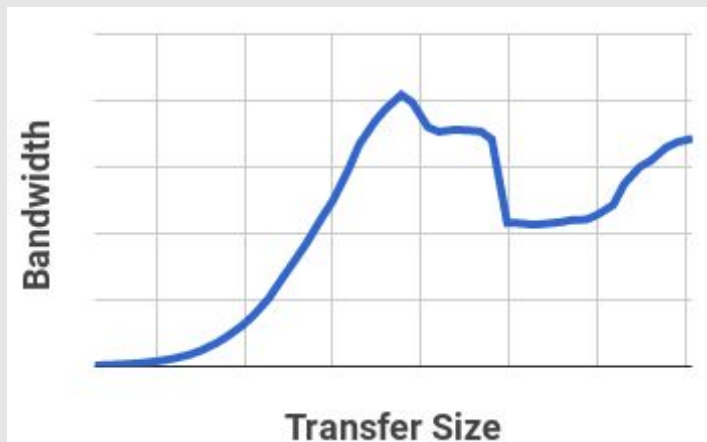


Thrust 1: System Characterization

Measure system performance



model hardware capabilities

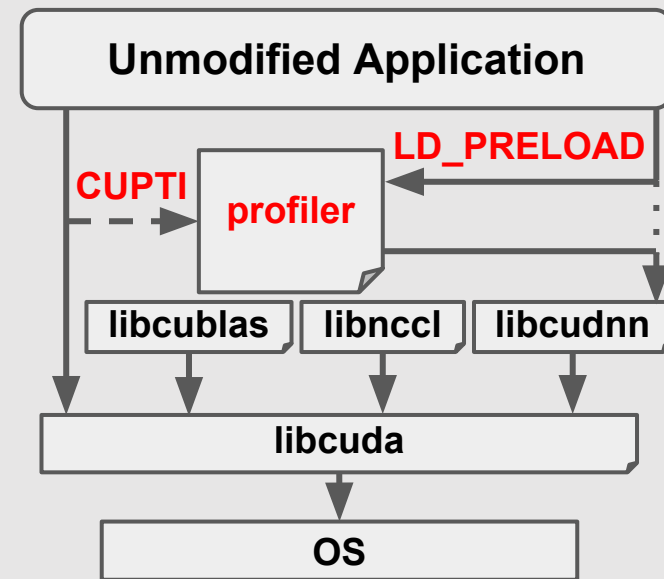


Thrust 2: Application Characterization

Trace application



model application demands



Thrust 3: Design Automation

Constrained optimization



Generate application-driven high-performance architectures

Application-Driven Architectures

