CS 839: Topics in Database Management Systems
Lecture 23: GPU Database

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GPU Trend

GPU peak performance increase by 5x from 2020 to 2023.
GPU memory bandwidth increase by 3.5x from 2020 to 2023.
GPU memory capacity increase by 6x in the last 5 years.
PCIe increase by 2x every two years.
NVLink Bandwidth increase by 3x in 5 years.
NVLink C2C (2022) connect NVIDIA GPU and NVIDIA CPU (450 GB/s).