GFLOPS per Watt vs. Memory Bandwidth 1,000 ¬ Fab (nm) o null **O** 6 7 8 🔾 200 -**O** 14 **O** 28 100 – **40 O** 55 O 65 08 🔘 **O** 90 **O** 130 20 -**O** 180 Vendor 10 -Single precision GFLOPS/Watt O AMD Intel ▲ NVIDIA 0 Δ 0.2 -Δ 0.02 -0.01 20 100 1,000 10,000 10 200 2,000 Memory Bandwidth (GB/s)