

Portable Cluster

1) Being greedy

- a) Multi-node → MPI
- b) Multi-core → OpenMP
- c) Nvidia GPU → CUDA & PHYSX
- d) Portable → space, cooling, take to class

2) Design sketch

Portable Cluster

1) Being greedy

2) Design sketch < \$2000

a) \$1000 : 4 * (\$170 (Zotac-Ion-ITX-D-E) + \$50 (4GB RAM) per board + \$20 (80 or 120W ATX))

b) \$100 (12V-450W AC-DC)

c) (SATA 3.0 main drive)

- \$130 64GB ssd

- \$250 128GB ssd

- \$100 80GB 7200rpm drive

d) \$300 bits & pieces