Why Physics on GPUs?



GPU: very high data parallelism

- G71: 24 pixel pipelines, 48 shading processors
- 1000s of simultaneous threads
- Very high memory bandwidth
 - SLI enables 1-4 GPUs per system

Physics: very high data parallelism

- 1000s of colliding objects
- 1000s of collisions to resolve every frame
- Requires 1000s of floating point operations per collision

Physics is an ideal match for GPUs