## Secure GPU Computing Over LAN

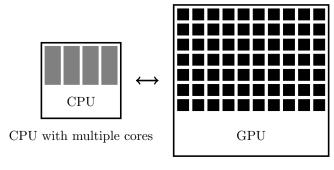
Attique Dawood

January 21, 2012

## 1 GPU Computing

Graphics processing units (GPU) have evolved over the last half a decade from a graphics—only processor to a general purpose computing device. General purpose GPU (GPGPU) computing is the use of GPUs for engineering and scientific computations. The two major manufacturers of GPUs are nVidia and AMD/ATi. Both offer tools and APIs to program their GPUs.

GPUs nowdays are capable of performing teraflops of computations. The GPGPU computing model is to have CPU work in conjunction with GPU. The computationally intensive part is run on GPU while the rest of the program executes on CPU. Figure 1 illustrates this.



GPU with lots of cores

Figure 1: GPGPU Computing.

## References

- [1] http://www.nvidia.com/object/GPU\_Computing.html
- [2] http://en.wikipedia.org/wiki/GPGPU