



Computational Science on Many-Core Architectures

360.252

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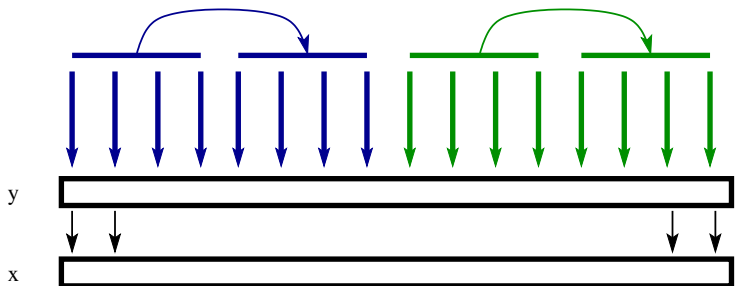


Zoom Channel 941 8518 8102
Q&A on Wednesday, October 19, 2022

Benchmark Setting

Vector Assignment (Copy) Kernel

- $x \leftarrow y$ for (large) vectors x, y

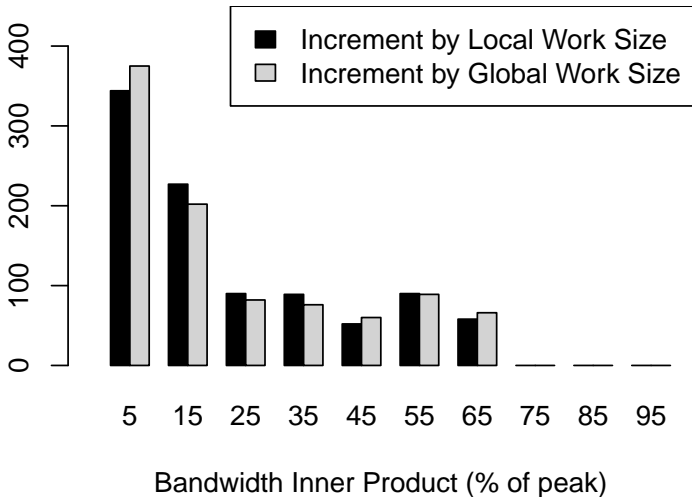


Parameters (1900 variations)

```
for (size_t i = group_start + threadIdx.x;  
      i < group_end; i += blockDim.x)  
    x[i] = y[i];
```

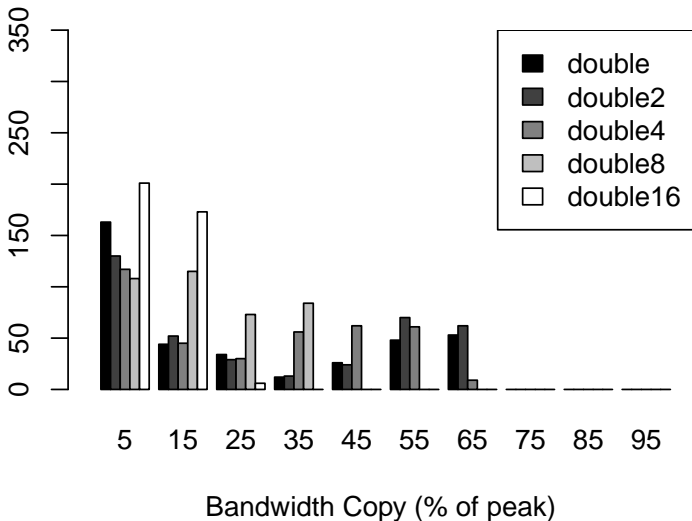
Benchmark

NVIDIA Tesla K20m



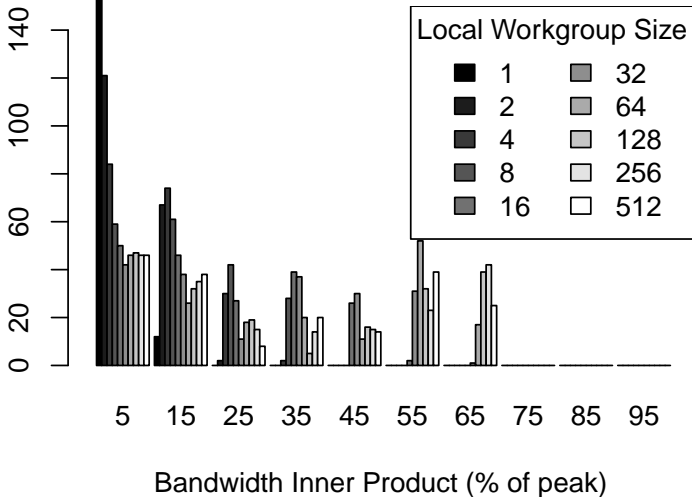
Benchmark

NVIDIA Tesla K20m



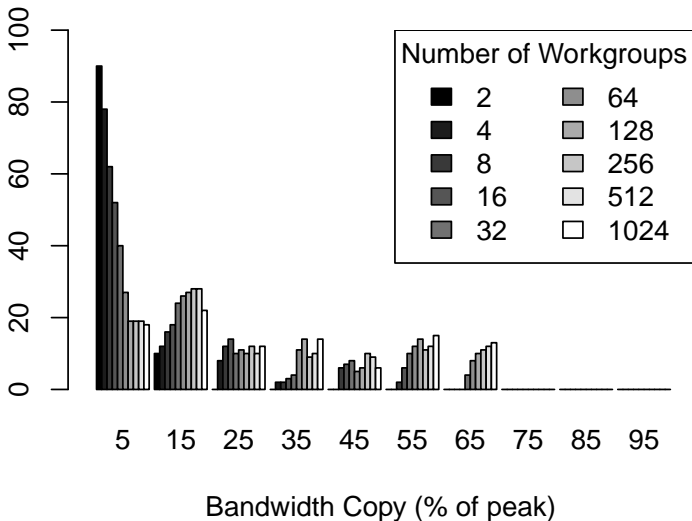
Benchmark

NVIDIA Tesla K20m



Benchmark

NVIDIA Tesla K20m



Benchmark

NVIDIA GeForce GTX 285

