

RTX2080Ti の評価

e-trees の GPU サーバの GPU を GTX1080 から RTX2080Ti にアップデート .

折角なので GTX1080 と RTX2080Ti の性能を <https://github.com/ekondis/mixbench> で比較してみた .
結果は ,

RTX2080Ti はだいぶ速そうぞ , ってことで仕事させないと .

それぞれのスペックは , こんな感じ .

```
----- Device specifications -----
Device:                GeForce GTX 1080
CUDA driver version:  10.20
GPU clock rate:       1911 MHz
Memory clock rate:    2752 MHz
Memory bus width:     256 bits
WarpSize:             32
L2 cache size:        2048 KB
Total global mem:     8117 MB
ECC enabled:          No
Compute Capability:    6.1
Total SPs:            2560 (20 MPs x 128 SPs/MP)
Compute throughput:   9784.32 GFlops (theoretical single precision FMAs)
Memory bandwidth:     352.32 GB/sec
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Total GPU memory 8511881216, free 8374583296
Buffer size:          64MB
Trade-off type:       compute with global memory (block strided)

----- Device specifications -----
Device:                GeForce RTX 2080 Ti
CUDA driver version:  10.20
GPU clock rate:       1650 MHz
Memory clock rate:    3500 MHz
Memory bus width:     352 bits
WarpSize:             32
L2 cache size:        5632 KB
Total global mem:     11019 MB
ECC enabled:          No
Compute Capability:    7.5
Total SPs:            4352 (68 MPs x 64 SPs/MP)
Compute throughput:   14361.60 GFlops (theoretical single precision FMAs)
Memory bandwidth:     616.00 GB/sec
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Total GPU memory 11554717696, free 11379408896
Buffer size:          64MB
Trade-off type:       compute with global memory (block strided)
```

生データとプロットスクリプト