DCT Calculation Time

Legend:
- Memory Allocation
- Construct Cosine Table
- Construct Normalization Table
- Memory Copy (GPU only)
- Matrix Subtraction
- Loop Sum
- Matrix Normalization
- Free Memory

Execution Time [us]

250000
200000
150000
100000
50000
0

Matrix Size

128 x 128
256 x 128
256 x 256
512 x 256
512 x 512

CPU Intel(R) Core(TM) i7 C
GeForce GTX 280
Quadro NVS 295
CPU Intel(R) Core(TM)2 Duo
GeForce 8400M GS