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accessible by single processor. All the memories are hardware limited (for each type of GPU differently). We refer to Nvidia CUDA developer zone for further details.

To check if the graphics card installed on your computer is suitable for GSvit calculations and if GSvit was installed with graphics card support at all, you can run the solver with parameter "test 0", e.g. on Linux system: `klapetek@pejsek:~/rungsvit/bin> ./gsvit test 0` Running GSvit tests at level 0 System has 32 cores Gsvit is installed at /home/klapetek/rungsvit/bin Program is compiled with GPU support Searching for available GPUs... Found 5 GPUs The Properties of the Device with ID 0 are Device Name : Tesla K40m Device Memory Size : 3489202176 Block Shared memory size: 49152 Max grid size : 2147483647x65535x65535 Max threads dim : 1024x1024x64 The Properties of the Device with ID 1 are Device Name : Tesla K20Xm Device Memory Size : 1744371712 Block Shared memory size: 49152 Max grid size : 2147483647x65535x65535 Max threads dim : 1024x1024x64 The Properties of the Device with ID 2 are Device Name : Tesla K20Xm Device Memory Size : 1744371712 Block Shared memory size: 49152 Max grid size : 2147483647x65535x65535 Max threads dim : 1024x1024x64 The Properties of the Device with ID 3 are Device Name : Tesla K20Xm Device Memory Size : 1744371712 Block Shared memory size: 49152 Max grid size : 2147483647x65535x65535 Max threads dim : 1024x1024x64 The Properties of the Device with ID 4 are Device Name : Tesla K20Xm Device Memory Size : 1744371712 Block Shared memory size: 49152 Max grid size : 2147483647x65535x65535 Max threads dim : 1024x1024x64

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