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Graphics cards use 1

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:~/rungskvit/bin> ./gsvit test 0
Running GSvit tests at level 0
System has 32 cores
Gsvit is installed at /home/klapetek/rungskvit/bin
Program is compiled with GPU support
Searching for available GPUs...
Found 4 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
```

This means that you can use four different GPUs on this system (which does not usually happen on a standard computer). GSvit does not support use of all of them at once, but you can still run up to four different instances on different cards. The basic directives for using the GPU are as follows:

From:

<http://www.gsvit.net/wiki/> - **GSvit documentation**

Permanent link:

http://www.gsvit.net/wiki/doku.php/opt:graphics_cards?rev=1535698391



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