

## Literaturverzeichnis

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- 5) **Grama, A.; et al.:** Introduction to Parallel Computing. Pearson Education, Harlow, England, 2nd edition, 2003.
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- 8) **Kirk, D.B.; Hwu, W.W.:** Programming Massively Parallel Processors - A Hands-on Approach. Elsevier, Amsterdam, 2010.  
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## Informationen im *World Wide Web*:

Auf meiner Web-Seite gibt es weitere Verweise auf *Online*-Bücher, -Handbücher usw.:

[http://www.hs-fulda.de/~gross/web\\_adressen](http://www.hs-fulda.de/~gross/web_adressen)

- 1) **Adventures in OpenCL: Part 1, Getting Started:**  
<http://enja.org/2010/07/13/adventures-in-opencl-part-1-getting-started>
- 2) **Adventures in OpenCL: Part 1.5, C++ Bindings:**  
<http://enja.org/2010/07/20/adventures-in-opencl-part-1-5-cpp-bindings>
- 3) **Adventures in OpenCL Part 2: Particles with OpenGL:**  
<http://enja.org/2010/08/27/adventures-in-opencl-part-2-particles-with-opengl>
- 4) **AMD Developer Central:**  
<http://developer.amd.com/pages/default.aspx>
- 5) **AMD Accelerated Parallel Processing (APP) SDK (formerly ATI Stream):**  
<http://developer.amd.com/sdks/AMDAPPSDK/Pages/default.aspx>
- 6) **AMD Accelerated Parallel Processing (APP) SDK OpenCL Programming Guide:**  
[http://developer.amd.com/gpu/AMDAPPSDK/assets/AMD\\_Accelerated\\_Parallel\\_Processing\\_OpenCL\\_Programming\\_Guide.pdf](http://developer.amd.com/gpu/AMDAPPSDK/assets/AMD_Accelerated_Parallel_Processing_OpenCL_Programming_Guide.pdf)
- 7) **AMD ATI FirePro V7800 (Übersicht, Technische Daten, ...):**  
<http://www.amd.com/de/products/workstation/graphics/ati-firepro-3d/v7800/pages/v7800.aspx>  
<http://www.amd.com/us/products/workstation/graphics/ati-firepro-3d/v7800/pages/v7800.aspx>
- 8) **Brown Deer Technology: OpenCL Tutorial: N-Body Simulation.**  
[http://www.browndeertechnology.com/docs/BDT\\_OpenCL\\_Tutorial\\_NBody-rev3.html](http://www.browndeertechnology.com/docs/BDT_OpenCL_Tutorial_NBody-rev3.html)
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- 10) **FreeBookCentre.Net:**  
<http://www.freebookcentre.net>
- 11) **General-Purpose Computation on Graphics Hardware:**  
<http://gpgpu.org>  
<http://gpgpu.org/tag/ati-stream>  
<http://gpgpu.org/tag/opencl>
- 12) **GNU Scientific Library (GSL):**  
<http://www.gnu.org/software/gsl>  
[http://www.gnu.org/software/gsl/manual/html\\_node](http://www.gnu.org/software/gsl/manual/html_node)
- 13) **GPUcomputing.net:** Research and development community.  
<http://gpucomputing.net>

- 14) **GPU Resources:**  
<http://cseweb.ucsd.edu/~baden/Doc/gpu.html>
- 15) **GPUSort: High Performance Sorting using Graphics Processors:**  
<http://gamma.cs.unc.edu/GPUSORT>  
<http://gamma.cs.unc.edu/GPUSORT/results.html>
- 16) **Intel OpenCL SDK:**  
<http://software.intel.com/en-us/articles/intel-opencl-sdk>
- 17) **Intel Xeon E5000er Prozessoren (Überblick, Spezifikationen, Technische Dokumente, ...):**  
<http://www.intel.de/content/www/de/de/processors/xeon/xeon-processor-5000-sequence.html>
- 18) **Mathematica GPU Computing:**  
<http://www.wolfram.com/solutions/hpc>  
<http://reference.wolfram.com/mathematica/ParallelTools/tutorial/Overview.html>  
<http://www.nvidia.de/object/cuda-programming-mathematica-de.html>
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[http://www.mathworks.de/products/parallel-computing/?s\\_cid=HP\\_FP\\_ML\\_parallel](http://www.mathworks.de/products/parallel-computing/?s_cid=HP_FP_ML_parallel)  
<http://www.mathworks.de/discovery/matlab-gpu.html>  
<http://developer.nvidia.com/cuda-tools-ecosystem#Numeric>
- 20) **Microsoft Accelerator:**  
<http://research.microsoft.com/en-us/projects/accelerator>
- 21) **Microsoft DirectX / DirectCompute:**  
<http://msdn.microsoft.com/en-us/directx>  
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- 24) **MPI standard: The Message Passing Interface Standard.**  
<http://www.mpi-forum.org/docs/docs.html>,  
<http://www.mpi-forum.org/docs/mpi-2.2/mpi22-report.pdf>,  
<http://www-unix.mcs.anl.gov/mpi>
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- BLAS/PBLAS: (Parallel) Basic Linear Algebra Subprograms.  
<http://www.netlib.org/blas/index.html>  
[http://www.netlib.org/scalapack/pblas\\_qref.html](http://www.netlib.org/scalapack/pblas_qref.html)
  - CUBLAS: CUDA/GPU accelerated BLAS.  
[http://developer.download.nvidia.com/compute/cuda/3\\_2\\_prod/toolkit/docs/CUBLAS\\_Library.pdf](http://developer.download.nvidia.com/compute/cuda/3_2_prod/toolkit/docs/CUBLAS_Library.pdf)
  - LAPACK/PLAPACK: (Parallel) Linear Algebra Package.  
<http://www.netlib.org/lapack/index.html>  
<http://www.cs.utexas.edu/~plapack>
  - CULA: CUDA/GPU accelerated LAPACK.  
<http://www.culatools.com>
  - MAGMA: Matrix Algebra on GPU and Multicore Architectures.  
<http://icl.cs.utk.edu/magma>
  - CUDPP: CUDA Data Parallel Primitives Library.  
<http://code.google.com/p/cudpp>
  - ScaLAPACK: Scalable LAPACK.  
<http://www.netlib.org/scalapack/index.html>
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[http://www.nvidia.com/object/cuda\\_home\\_new.html](http://www.nvidia.com/object/cuda_home_new.html)
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[http://developer.download.nvidia.com/compute/cuda/3\\_2\\_prod/toolkit/docs/CUDA\\_C\\_Programming\\_Guide.pdf](http://developer.download.nvidia.com/compute/cuda/3_2_prod/toolkit/docs/CUDA_C_Programming_Guide.pdf)
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[http://developer.nvidia.com/object/gpu\\_computing\\_online.html](http://developer.nvidia.com/object/gpu_computing_online.html)
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[http://developer.download.nvidia.com/GPU\\_Programming\\_Guide/GPU\\_Programming\\_Guide\\_G80.pdf](http://developer.download.nvidia.com/GPU_Programming_Guide/GPU_Programming_Guide_G80.pdf)
- 31) **Nvidia Parallel Nsight:**  
<http://developer.nvidia.com/nvidia-parallel-nsight>
- 32) **Nvidia Tesla Cxxxx (Overview, Specifications, Drivers & Downloads, ...):**  
<http://www.nvidia.com/object/personal-supercomputing.html>  
[http://www.nvidia.com/docs/IO/43395/tesla\\_technical\\_brief.pdf](http://www.nvidia.com/docs/IO/43395/tesla_technical_brief.pdf)  
[http://www.nvidia.com/object/tesla\\_computing\\_solutions.html](http://www.nvidia.com/object/tesla_computing_solutions.html)
- 33) **OpenCL:**  
<http://www.khronos.org/opencvl>  
<http://developer.nvidia.com/opencvl>  
<http://developer.amd.com/zones/OpenCLZone/pages/default.aspx>
- 34) **OpenCL Programming Guide:**  
[http://developer.download.nvidia.com/compute/cuda/3\\_2\\_prod/toolkit/docs/OpenCL\\_Programming\\_Guide.pdf](http://developer.download.nvidia.com/compute/cuda/3_2_prod/toolkit/docs/OpenCL_Programming_Guide.pdf)

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<http://www.khronos.org/files/opencl-quick-reference-card.pdf>
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<http://www.khronos.org/registry/cl>
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<https://picoforge.int-evry.fr/cgi-bin/twiki/view/Gpucv/Web>  
<http://opencv.willowgarage.com/wiki>
- 38) **OpenGL and OpenCL Debugger:**  
<http://www.gremedy.com>
- 39) **Open MPI:** Open Source High Performance Computing.  
<http://www.open-mpi.org>
- 40) **OpenMP.org:** OpenMP Application Program Interface. Version 3.1, July 2011.  
<http://openmp.org>  
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<http://www.openmp.org/mp-documents/OpenMP3.1.pdf>
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  - CUDA: <http://de.wikipedia.org/wiki/CUDA>
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  - GPGPU: <http://de.wikipedia.org/wiki/GPGPU>
  - Grafikprozessor: <http://de.wikipedia.org/wiki/Grafikprozessor>
  - OpenCL: <http://de.wikipedia.org/wiki/OpenCL>
  - OpenCV: <http://de.wikipedia.org/wiki/OpenCV>

## Software im *World Wide Web*:

- 1) **AMD APP SDK with OpenCL 1.x Support:**  
<http://developer.amd.com/sdks/AMDAPPSDK/downloads/Pages/default.aspx>
- 2) **Intel C/C++ Compiler:** Kann für Linux für nicht kommerziellen Einsatz kostenfrei lizenziert werden.  
<http://software.intel.com/en-us/articles/non-commercial-software-development/>  
(Nachdem Sie die Lizenzbedingungen akzeptiert haben, können Sie unter anderem den "Intel C++ Compiler for Linux" herunterladen. Bevor der Compiler tatsächlich heruntergeladen werden kann, müssen Sie sich noch mit Ihrer *E-Mail*-Adresse registrieren. An diese Adresse wird dann eine Lizenzdatei geschickt, die Sie in einem beliebigen Verzeichnis speichern können. Den Pfadnamen zu dem Verzeichnis speichern Sie in der Umgebungsvariablen "INTEL\_LICENSE\_FILE", z. B. mit "setenv INTEL\_LICENSE\_FILE /home/fd1026/intel\_lic".)
- 3) **Intel OpenCL SDK (Windows 7 32/64):**  
<http://software.intel.com/en-us/articles/download-intel-opencl-sdk>
- 4) **Microsoft DirectX SDK:**  
<http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=6812>
- 5) **Nvidia CUDA Toolkit 3.2 (January 2011):**  
[http://developer.nvidia.com/object/cuda\\_3\\_2\\_downloads.html](http://developer.nvidia.com/object/cuda_3_2_downloads.html)
- 6) **NVIDIA CUDA C SDK Code Samples:**  
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- 7) **Nvidia Parallel Nsight:**  
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- 8) **OpenCV / GpuCV:**  
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