

# GPU Computing Applications

## Libraries and Middleware

CUFFT  
CUBLAS  
CURAND  
CUSPARSE

CULA  
MAGMA

Thrust  
NPP

VSIPL  
SVM  
OpenCL

PhysX  
OptiX

Iray

MATLAB  
Mathematica

## Programming Languages

C

C++

Fortran

Java  
Python  
Wrappers

DirectCompute

Directives  
(e.g. OpenACC)



## CUDA-Enabled NVIDIA GPUs

Kepler Architecture  
(compute capabilities 3.x)

GeForce 600 Series

Quadro Kepler Series

Tesla K20  
Tesla K10

Fermi Architecture  
(compute capabilities 2.x)

GeForce 500 Series  
GeForce 400 Series

Quadro Fermi Series

Tesla 20 Series

Tesla Architecture  
(compute capabilities 1.x)

GeForce 200 Series  
GeForce 9 Series  
GeForce 8 Series

Quadro FX Series  
Quadro Plex Series  
Quadro NVS Series

Tesla 10 Series



Entertainment



Professional  
Graphics



High-Performance  
Computing

# Gpu Computing And Applications

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