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Accelerating Matlab With Gpu Computing

This chapter deals with

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basic accelerating methods for MATLAB codes in an intrinsic way, which means simple code optimization without using GPU or C-MEX. This chapter covers vectorization for parallel processing, preallocation for efficient memory management, tips to increase your MATLAB codes, and step-by-step examples that show the code

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coding with C-MEX

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with Parallel

Computing Toolbox

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Support for NVIDIA® GPU architectures by MATLAB release.

Establish Arrays on a GPU. A `gpuArray` in MATLAB represents an array that is stored on the GPU. Using FFT2 on the GPU to Simulate Diffraction Patterns.

This example uses Parallel Computing Toolbox™ to perform a two-dimensional Fast Fourier Transform (FFT) on a GPU. Run MATLAB

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to accelerate MATLAB
algorithms and
applications. The
optimal approach
depends on your
programming
expertise, ... MATLAB
GPU computing,
parallel computing,
Parallel Computing on
the Cloud with

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Accelerate your code
by running it on a GPU.
To speed up your code,
first try profiling and
vectorizing it. For
information, see
Performance and

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Memory . After
profiling and
vectorizing, you can
also try using your
computer's GPU to
speed up your
calculations.

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the function list,
browse the left pane to
select a product, for
example, MATLAB.

Run MATLAB **Functions on a GPU -** **MATLAB & Simulink**

...

A GPU can accelerate
an application if it fits
both of the following
criteria:

Computationally

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intensive —The time spent on computation significantly exceeds the time spent on transferring data to and from GPU memory.

Massively parallel —The computations can be broken down into hundreds or thousands of independent units of work.

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Accelerate your code by running it on a GPU. To speed up your code, first try profiling and vectorizing it. For information, see Performance and Memory . After profiling and vectorizing, you can also try using your computer's GPU to speed up your calculations.

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Accelerate your code using basic GPU computing To speed up your code, first try profiling and vectorizing it. For information, see Performance and Memory. After profiling and vectorizing, you can also try using your computer's GPU to speed up your calculations.

GPU Computing in

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Accelerate the computation of wavelet scattering features using `gpuArray` and a parallelized "depth-first" version of wavelet time scattering. You must have a CUDA-enabled NVIDIA GPU with compute capability 3.0 or higher. See GPU Support by Release for details. This example

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uses an NVIDIA Titan
XP GPU with compute
capability 6.1.

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Accelerate your code
by running it on a GPU.
To speed up your code,
first try profiling and
vectorizing it. For
information, see
Performance and
Memory . After
profiling and
vectorizing, you can

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also try using your computer's GPU to speed up your calculations.

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About Joss Knight Joss
Knight is a Senior
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Developer in the MathWorks UK office, working on accelerating MATLAB functionality on GPU hardware. His background is in robot navigation and visual geometry, which he studied at Oxford University's Robotics Research Group.

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Many Matlab applications can be accelerated by up to a factor of 50, providing application throughput otherwise not available in a workstation environment. GPU Computing Simplified. Jacket GPU-enables standard Matlab. It greatly simplifies GPU computing for engineers, scientists, and technical computing professionals.

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