ACTIVEEON
SCALE BEYOND LIMITS

Training course for ProActive Parallel Scientific Toolbox

Course Details

- Course duration: 2 days
- Training at your facility
- From 1 to 15 attendees
- Pre-requisite: Basic Matlab, Scilab or R knowledge

Key Features

- Learn how to run your computations faster with your existing resources
- Learn how to setup a single infrastructure for your Matlab, Scilab, R and general purpose computations
- Learn how to perform computing automation with workflows
- Lean how to connect and interface your computations with other environments

Contact

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At a glance

With *ProActive Parallel Scientific Toolbox*, you can **accelerate your scientific and statistical computations**. As modern scientific and engineering problems grow in complexity, the computation time and memory requirement increase and parallel computing becomes a necessity. ProActive integrates with de-facto standards in scientific and engineering environments such as **Matlab, Scilab and R**. Directly from within these familiar environments, it provides users with the capacity to **parallelize executions** and manage data transfers on other Desktop machines, Clusters, Grids and Clouds. A single tool for accelerating all your scientific languages.

Day 1

Introduction to ProActive Parallel Scientific Toolbox

Quickstart
- Deploy your first ProActive infrastructure
- Run your first parallel computation

Working with the ProActive interfaces
- Understand how your tasks are parallelized and scheduled
- Add, remove and manage computing resources

Main concepts
- Asynchrony, futures and tasks

Day 2

Working with tasks and functions
- Parametric sweep
- Simple tasks
- Compositions

Working with data
- Variables, vectors and matrix
- Files
- Data transfers

Working with workflows
- Build workflows with ProActive Studio
- Automate computations
- Integration with other environments

MATLAB

Scilab

R

ProActive Parallel Scientific Toolbox

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