VSB TECHNICAL UNIVERSITY OF OSTRAVA | IT4INNOVATIONS NATIONAL SUPERCOMPUTING CENTER

PRACE

PARALLEL VISUALIZATION
OF SCIENTIFIC DATA USING BLENDER
(PRACE Training Course)

26 March 2019

VŠB – Technical University of Ostrava
IT4Innovations building, training room

Lecturers Petr Strakoš, Milan Jaroš, Alena Ješko (IT4Innovations)

The course will focus on visualization of large datasets that can come from simulations of different physical phenomena (e.g. fluid dynamics, structural analysis, etc.). To create visually pleasing outputs of such data a path tracing rendering method will be used. Most of the course aspects will be covered within the popular 3D creation suite Blender. We will work with the brand new version 2.8 and introduce our developed plug-in called Covise Nodes to work with the scientific data inside Blender. Within the course we will demonstrate some of the basics of Blender, followed by a data visualization example using the plug-in, and we will finish the course with rendering of the final scene on the Salomon cluster.

Attendees will learn how to visualize different simulation data in Blender and how to provide visually pleasing outputs. The course will be mainly hands-on. The event is provided free of charge.

Tuesday 26 March 2019

09:30–10:00	registration
10:00–12:00	Introduction Blender basics Hands-on
12:00–13:00	lunch
13:00–14:30	Using Covise Nodes to work with scientific data Hands-on
14:30–15:00	coffee
15:00–16:30	Rendering of the final scene on the Salomon cluster

MINISTRY OF EDUCATION, YOUTH AND SPORTS

More information & registration:
events.prace-ri.eu/event/851