

**Service Portfolio**  
Initial 06/2026

NCC	Index	Name of Service	User type (SME and Industry, Academia, PA)	HPC Service Hub category	Description	Comment
Lithuania	LT-01	Specific trainings on HPC specific topic	SME and Industry, Academia, PA	Consultancy and Expertise	Other	<p>(VU FF) Description</p> <p>Hands-on training focused on the effective use of High Performance Computing (HPC) technologies for scientific rese industrial applications. The training is tailored to participants' experience level and application domain.</p> <p>This service provides:</p> <ul style="list-style-type: none"> <li>Introduction to HPC architectures and environments</li> <li>Practical training on Linux-based HPC systems</li> <li>Job submission and resource management using workload managers</li> <li>Best practices for efficient HPC workflows</li> <li>Guidance on application execution, monitoring, and troubleshooting</li> </ul> <p>Target users: Industry, SMEs, Public Administration, Academic</p> <p>Duration: Typically 1–3 training sessions (up to 6 hours total)</p> <p>Delivery method: Remote, On-site, or Hybrid</p> <p>How to get started: Contact NCC Lithuania (info@eurocc-lithuania.lt) to discuss training objectives and schedule.</p>
	LT-02	Specific consultations on HPC usage	SME and Industry, Academia, PA	Consultancy and Expertise	Other	<p>(VU FF) Expert consultation supporting organizations in selecting, adopting and efficiently using HPC infrastructure for computational research, engineering and innovation projects.</p> <p>This service provides:</p> <ul style="list-style-type: none"> <li>Assessment of HPC suitability for computational workloads</li> <li>Selection of appropriate computing resources</li> <li>Recommendations for software environments</li> <li>Guidance on efficient resource utilization</li> <li>Support for migrating applications to HPC systems</li> </ul> <p>Target users: Industry, SMEs, Public Administration, Academic</p> <p>Duration: Typically 1–3 consulting sessions (up to 4 hours total)</p> <p>Delivery method: Remote, On-site, or Hybrid</p> <p>How to get started: Contact NCC Lithuania (info@eurocc-lithuania.lt) to discuss your project and define a consultant</p>
	LT-03	Specific consultations on HPDA usage	SME and Industry, Academia, PA	Consultancy and Expertise	Other	<p>(VU FF) Expert consultation on High Performance Data Analytics (HPDA) methods and technologies for processing, a visualizing large-scale scientific and industrial datasets.</p> <p>This service provides:</p> <ul style="list-style-type: none"> <li>Selection of suitable HPDA methods and workflows</li> <li>Guidance on scalable data processing</li> <li>Support for parallel data analytics</li> <li>Recommendations for visualization and interpretation of large datasets</li> <li>Assistance in optimizing HPDA applications on HPC systems</li> </ul> <p>Target users: Industry, SMEs, Public Administration, Academic</p> <p>Duration: Typically 1–3 consulting sessions (up to 4 hours total)</p> <p>Delivery method: Remote, On-site, or Hybrid</p> <p>How to get started: Contact NCC Lithuania (info@eurocc-lithuania.lt) to discuss your HPDA requirements.</p>
	LT-04	Specific document preparations for call applications of HPC usage	SME and Industry, Academia, PA	Application Support	Other	<p>(VU FF) Support in preparing technical documentation related to national and international funding applications requir Performance Computing resources.</p> <p>This service provides:</p> <ul style="list-style-type: none"> <li>Preparation of HPC technical sections for project proposals</li> <li>Estimation of computational resource requirements</li> <li>Description of computational methodologies</li> <li>Support in preparing implementation plans</li> <li>Recommendations aligned with funding programme requirements</li> </ul> <p>Target users: Industry, SMEs, Public Administration, Academic</p> <p>Duration: Depending on proposal scope</p> <p>Delivery method: Remote, On-site, or Hybrid</p> <p>How to get started: Contact NCC Lithuania (info@eurocc-lithuania.lt) before submitting your proposal to define docum requirements.</p>
	LT-05	Specific documentation for usage of HPC package	SME and Industry, Academia, PA	Application Support	Other	<p>(VU FF) Preparation of user-oriented technical documentation supporting the deployment and efficient use of HPC sol packages.</p> <p>This service provides:</p> <ul style="list-style-type: none"> <li>Installation and configuration documentation</li> <li>User guides for HPC software packages</li> <li>Documentation of execution workflows</li> <li>Recommendations for software optimization</li> <li>Best practice guidelines for reproducible HPC computations</li> </ul> <p>Target users: Industry, SMEs, Public Administration, Academic</p> <p>Duration: Depending on software complexity</p> <p>Delivery method: Remote, On-site, or Hybrid</p> <p>How to get started: Contact NCC Lithuania (info@eurocc-lithuania.lt) to discuss documentation requirements.</p>
	LT-06	Specific trainings on HPDA specific topic	SME and Industry, Academia, PA	Consultancy and Expertise	Other	<p>(VU FF) Specialized training on High Performance Data Analytics (HPDA) methods, tools and workflows for analysing datasets using HPC infrastructures.</p> <p>This service provides:</p> <ul style="list-style-type: none"> <li>Introduction to HPDA concepts and workflows</li> <li>Training on scalable data processing techniques</li> <li>Practical exercises using HPC resources</li> <li>Parallel analytics and data visualization</li> <li>Best practices for large-scale scientific and industrial data analysis</li> </ul> <p>Target users: Industry, SMEs, Public Administration, Academic</p> <p>Duration: Typically 1–3 training sessions (up to 6 hours total)</p> <p>Delivery method: Remote, On-site, or Hybrid</p> <p>How to get started: Contact NCC Lithuania (info@eurocc-lithuania.lt) to define training objectives and schedule.</p>
	LT-07	Access to HPC Infrastructure	<b>Industrial User</b>	Infrastructure arba Other	Initial and/or exploratory meeting	(VU MIF) Guidance on accessing national and European HPC systems to accelerate your projects. Typically 1–3 consulting sessions (up to 4 hours total) Contact person eduardas.kutka@mif.vu.lt
	LT-08	Access to HPC Infrastructure	<b>SME User</b>	Infrastructure arba Other	Initial and/or exploratory meeting	(VU MIF) Guidance on accessing national and European HPC systems to accelerate your projects. Typically 1–3 consulting sessions (up to 4 hours total) Contact person eduardas.kutka@mif.vu.lt
	LT-09	Access to HPC Infrastructure	<b>Public Administration User</b>	Infrastructure arba Other	Initial and/or exploratory meeting	(VU MIF) Guidance on accessing national and European HPC systems to accelerate your projects. Typically 1–3 consulting sessions (up to 4 hours total) Contact person eduardas.kutka@mif.vu.lt
	LT-10	Access to HPC Infrastructure	<b>Academic User</b>	Infrastructure arba Other	Initial and/or exploratory meeting	(VU MIF) Guidance on accessing national and European HPC systems to accelerate your projects. Typically 1–3 consulting sessions (up to 4 hours total) Contact person eduardas.kutka@mif.vu.lt
	LT-11	Specific consultation on HPDA us	<b>Industrial User</b>	Consultancy and Expertise	Other	<p>(VU MIF) Guidance on the effective utilization of resources, tools, and workflows in the following areas:</p> <ul style="list-style-type: none"> <li>-Data analytics models in HPC environments</li> <li>-Development and optimization of analytical algorithms for business process data visualization and analysis in HPC env</li> <li>-Design of large-scale data management and analytics algorithms</li> <li>-Other related topics. Contact person eduardas.kutka@mif.vu.lt</li> </ul>

LT-12	Specific consultation on HPDA us	SME User	Consultancy and Expertise	Other	(VU MIF) Guidance on the effective utilization of resources, tools, and workflows in the following areas: -Data analytics models in HPC environments -Development and optimization of analytical algorithms for business process data visualization and analysis in HPC env -Design of large-scale data management and analytics algorithms -Other related topics. Contact person eduardas.kutka@mif.vu.lt
LT-13	Specific consultation on HPDA us	Public Administration User	Consultancy and Expertise	Other	(VU MIF) Guidance on the effective utilization of resources, tools, and workflows in the following areas: -Data analytics models in HPC environments -Development and optimization of analytical algorithms for business process data visualization and analysis in HPC env -Design of large-scale data management and analytics algorithms -Other related topics. Contact person eduardas.kutka@mif.vu.lt
LT-14	Specific consultation on HPDA us	Academic User	Consultancy and Expertise	Other	(VU MIF) Guidance on the effective utilization of resources, tools, and workflows in the following areas: -Data analytics models in HPC environments -Development and optimization of analytical algorithms for business process data visualization and analysis in HPC env -Design of large-scale data management and analytics algorithms -Other related topics. Contact person eduardas.kutka@mif.vu.lt
LT-15	Specific trainings on HPDA speci	Industrial User	Other	Per training event person hour	(VU MIF) Trainings on the effective use of resources, tools, algorithms and workflows workflows in the following areas: -Data analytics models in HPC environments -Development and optimization of analytical algorithms for business process data visualization and analysis in HPC env -Design of large-scale data management and analytics algorithms Other related topics. Contact person eduardas.kutka@mif.vu.lt
LT-16	Specific trainings on HPDA speci	SME User	Other	Per training event person hour	(VU MIF) Trainings on the effective use of resources, tools, algorithms and workflows workflows in the following areas: -Data analytics models in HPC environments -Development and optimization of analytical algorithms for business process data visualization and analysis in HPC env -Design of large-scale data management and analytics algorithms Other related topics. Contact person eduardas.kutka@mif.vu.lt
LT-17	Specific trainings on HPDA speci	Public Administration User	Other	Per training event person hour	(VU MIF) Trainings on the effective use of resources, tools, algorithms and workflows workflows in the following areas: -Data analytics models in HPC environments -Development and optimization of analytical algorithms for business process data visualization and analysis in HPC env -Design of large-scale data management and analytics algorithms Other related topics. Contact person eduardas.kutka@mif.vu.lt
LT-18	Specific trainings on HPDA speci	Academic User	Other	Per training event person hour	(VU MIF) Trainings on the effective use of resources, tools, algorithms and workflows workflows in the following areas: -Data analytics models in HPC environments -Development and optimization of analytical algorithms for business process data visualization and analysis in HPC env -Design of large-scale data management and analytics algorithms Other related topics. Contact person eduardas.kutka@mif.vu.lt
LT-19	HPC consultations for weather an	Industrial User	Consultancy and Expertise	initial ar/or exploratory meeting	(LHMS) HPC Consultations for Weather and Climate Data Analysis and Modelling.  Consultancy and Expertise services Specialized consulting services related to the application of HPC for solving tasks involving the analysis and modeling and climate data.  The services provides: selection of appropriate methods and software tools for the analysis and modeling of weather and climate data; recommendations on the implementation, testing, and optimization of meteorological and climate models in an HPC e methodological assistance in processing large volumes of observational, reanalysis, and model data using advanced : numerical methods; assistance with solutions for data storage, management, archiving, and visualization of results; recommendations on the application of methods for analyzing climate scenarios, extreme weather events, and long-te trends; other services. Target users: All Duration: 1 or more consulting sessions (up to 3 total).Prices are indicative.Prices are indicative. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact via email to schedule all details. Contact person kristina.kryzanoskiene@meteo.lt
LT-20	HPC consultations for weather m	SME User	Consultancy and Expertise	initial ar/or exploratory meeting	(LHMS) Consultancy and Expertise services Consulting services focus on the use, optimization, and efficient execution of digital meteorological models using HPC to ensure high-resolution spatial and seasonal forecasts required for the assessment and forecasting of solar and win resources.  This service provides: consultation on the selection of suitable models and their configurations; recommendations on the implementation, testing and optimization of modeling in an HPC environment; consultation on computation resource planning; methodological guidance; consultation on solutions for data management, storage, and result processing. Target users: SME Duration: 1 or more consulting sessions (up to 3 total).Prices are indicative. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact via email to schedule all details. Contact person kristina.kryzanoskiene@meteo.lt
LT-21	HPC consultations for weather an	Public Administration User	Consultancy and Expertise	initial ar/or exploratory meeting	(LHMS) HPC Consultations for Weather and Climate Data Analysis and Modelling.  Consultancy and Expertise services Specialized consulting services related to the application of HPC for solving tasks involving the analysis and modeling and climate data.  The services provides: selection of appropriate methods and software tools for the analysis and modeling of weather and climate data; recommendations on the implementation, testing, and optimization of meteorological and climate models in an HPC e methodological assistance in processing large volumes of observational, reanalysis, and model data using advanced : numerical methods; assistance with solutions for data storage, management, archiving, and visualization of results; recommendations on the application of methods for analyzing climate scenarios, extreme weather events, and long-te trends; other services. Target users: All Duration: 1 or more consulting sessions (up to 3 total).Prices are indicative.Prices are indicative. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact via email to schedule all details. Contact person kristina.kryzanoskiene@meteo.lt
LT-22	HPC consultations for weather an	Academic User	Consultancy and Expertise	initial ar/or exploratory meeting	(LHMS) HPC Consultations for Weather and Climate Data Analysis and Modelling.  Consultancy and Expertise services Specialized consulting services related to the application of HPC for solving tasks involving the analysis and modeling and climate data.  The services provides: selection of appropriate methods and software tools for the analysis and modeling of weather and climate data; recommendations on the implementation, testing, and optimization of meteorological and climate models in an HPC e methodological assistance in processing large volumes of observational, reanalysis, and model data using advanced : numerical methods; assistance with solutions for data storage, management, archiving, and visualization of results; recommendations on the application of methods for analyzing climate scenarios, extreme weather events, and long-te trends; other services. Target users: All Duration: 1 or more consulting sessions (up to 3 total).Prices are indicative.Prices are indicative. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact via email to schedule all details. Contact person kristina.kryzanoskiene@meteo.lt
LT-23	Consultations on parallel perform	Industrial User	Consultancy and Expertise	Initial and/or exploratory meeting	(Vilnius Tech) Description: Evaluation of parallel speedup, load balance and communication time aiming to enhance p performance of HPC software on modern hardware architectures. This service provides: -Evaluation of parallel speedup and efficiency. -Assessment of load balance. -Measuring parallel communication time. Target users: Academic, Industry, SMEs, Public Sector Duration: Several consulting sessions 2 hours each. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact amas.kaceniuskas@viniustech.lt to schedule a free initial consultation.
LT-24	Consultations on parallel progr	Industrial User	Consultancy and Expertise	Initial and/or exploratory meeting	(Vilnius Tech) Description: Parallel programming of applications for shared- and distributed-memory HPC architecture This service provides: -CUDA-based parallel applications for GPGPU. -OpenMP-based parallel applications for multi-core HPC nodes. -MPI-based parallel applications for distributed-memory HPC architectures. Target users: Academic, Industry, SMEs, Public Sector Duration: Several consulting sessions 4 hours each. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact vadimas.stankovicus@viniustech.lt to schedule a free initial consultation.

LT-25	Consultations on HPC for Big Data Analysis	Industrial User	Consultancy and Expertise	Initial and/or exploratory meeting	(Vilnius Tech) Description: Big data analysis by using distributed programming model MapReduce and analytics engine Spark. This service provides: •Fundamentals of big data analysis. •Distributed programming model MapReduce. •Big data analysis by using Apache Spark and Python. Target users: Academic, Industry, SMEs, Public Sector Duration: Several consulting sessions 4 hours each. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact <a href="mailto:andrei.bugajev@vilniustech.lt">andrei.bugajev@vilniustech.lt</a> to schedule a free initial consultation.
LT-26	Trainings on usage of HPC resources	Industrial User	Infrastructure	Initial and/or exploratory meeting	(Vilnius Tech) Description: Training on usage of high-performance computing (HPC) resources to accelerate your res innovation projects. Technical specifications: •Warewulf environment accessible via SSH. •SLURM workload manager. •ParView software for large data visualization. Use cases: •Development of parallel applications in Warewulf environment. •Job scheduling on Warewulf cluster by using SLURM. •Data visualization by using ParaView. Access method: SSH Additional information: Contact <a href="mailto:arnas.kaceniauskas@vilniustech.lt">arnas.kaceniauskas@vilniustech.lt</a> for details and access instructions.
LT-27	Trainings on parallel programming for HPC architectures	Industrial User	Application Support	Initial and/or exploratory meeting	Description: Parallel programming of applications for shared- and distributed-memory HPC architectures. Capabilities: •Programming GPGPU applications. •Programming for shared-memory HPC architectures. •Programming for distributed-memory HPC architectures. Includes: •Development CUDA-based parallel application for GPU. •Development OpenMP-based parallel application for multi-core HPC nodes. •Development MPI-based parallel application for distributed-memory HPC architectures. Requirements: Basic knowledge on programming and code compilation on UNIX or LINUX operating systems. Contact information: Contact <a href="mailto:vadimas.starikovicus@vilniustech.lt">vadimas.starikovicus@vilniustech.lt</a> for details and access instructions.
LT-28	Trainings on HPC for Big Data Analysis	Industrial User	Applications	Initial and/or exploratory meeting	(Vilnius Tech) Description: Big data analysis by using distributed programming model MapReduce and analytics engine Spark. Features: •Big data analysis by using analytics engine Apache Spark. •Python tutorials of Apache Spark. Benefits: •Fundamentals of big data analysis. •Conception of distributed programming model MapReduce. Integration: No software installation required. Version information: Spark version 4.1.2. Contact information: Contact <a href="mailto:andrei.bugajev@vilniustech.lt">andrei.bugajev@vilniustech.lt</a> for details and access instructions.
LT-29	Consultations on parallel performance of HPC software on modern hardware architectures	SME User	Consultancy and Expertise	Initial and/or exploratory meeting	(Vilnius Tech) Description: Evaluation of parallel speedup, load balance and communication time aiming to enhance performance of HPC software on modern hardware architectures. This service provides: •Evaluation of parallel speedup and efficiency. •Assessment of load balance. •Measuring parallel communication time. Target users: Academic, Industry, SMEs, Public Sector Duration: Several consulting sessions 2 hours each. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact <a href="mailto:arnas.kaceniauskas@vilniustech.lt">arnas.kaceniauskas@vilniustech.lt</a> to schedule a free initial consultation.
LT-30	Consultations on parallel programming for HPC architectures	SME User	Consultancy and Expertise	Initial and/or exploratory meeting	(Vilnius Tech) Description: Parallel programming of applications for shared- and distributed-memory HPC architecture This service provides: •CUDA-based parallel applications for GPGPU. •OpenMP-based parallel applications for multi-core HPC nodes. •MPI-based parallel applications for distributed-memory HPC architectures. Target users: Academic, Industry, SMEs, Public Sector Duration: Several consulting sessions 4 hours each. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact <a href="mailto:vadimas.starikovicus@vilniustech.lt">vadimas.starikovicus@vilniustech.lt</a> to schedule a free initial consultation.
LT-31	Consultations on HPC for Big Data Analysis	SME User	Consultancy and Expertise	Initial and/or exploratory meeting	(Vilnius Tech) Description: Big data analysis by using distributed programming model MapReduce and analytics engine Spark. This service provides: •Fundamentals of big data analysis. •Distributed programming model MapReduce. •Big data analysis by using Apache Spark and Python. Target users: Academic, Industry, SMEs, Public Sector Duration: Several consulting sessions 4 hours each. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact <a href="mailto:andrei.bugajev@vilniustech.lt">andrei.bugajev@vilniustech.lt</a> to schedule a free initial consultation.
LT-32	Trainings on usage of HPC resources	SME User	Infrastructure	Initial and/or exploratory meeting	(Vilnius Tech) Description: Training on usage of high-performance computing (HPC) resources to accelerate your res innovation projects. Technical specifications: •Warewulf environment accessible via SSH. •SLURM workload manager. •ParView software for large data visualization. Use cases: •Development of parallel applications in Warewulf environment. •Job scheduling on Warewulf cluster by using SLURM. •Data visualization by using ParaView. Access method: SSH Additional information: Contact <a href="mailto:arnas.kaceniauskas@vilniustech.lt">arnas.kaceniauskas@vilniustech.lt</a> for details and access instructions.
LT-33	Trainings on parallel programming for HPC architectures	SME User	Application Support	Initial and/or exploratory meeting	(Vilnius Tech) Description: Parallel programming of applications for shared- and distributed-memory HPC architecture Capabilities: •Programming GPGPU applications. •Programming for shared-memory HPC architectures. •Programming for distributed-memory HPC architectures. Includes: •Development CUDA-based parallel application for GPU. •Development OpenMP-based parallel application for multi-core HPC nodes. •Development MPI-based parallel application for distributed-memory HPC architectures. Requirements: Basic knowledge on programming and code compilation on UNIX or LINUX operating systems. Contact information: Contact <a href="mailto:vadimas.starikovicus@vilniustech.lt">vadimas.starikovicus@vilniustech.lt</a> for details and access instructions.
LT-34	Trainings on HPC for Big Data Analysis	SME User	Applications	Initial and/or exploratory meeting	(Vilnius Tech) Description: Big data analysis by using distributed programming model MapReduce and analytics engine Spark. Features: •Big data analysis by using analytics engine Apache Spark. •Python tutorials of Apache Spark. Benefits: •Fundamentals of big data analysis. •Conception of distributed programming model MapReduce. Integration: No software installation required. Version information: Spark version 4.1.2. Contact information: Contact <a href="mailto:andrei.bugajev@vilniustech.lt">andrei.bugajev@vilniustech.lt</a> for details and access instructions.

LT-35	Consultations on parallel performance of HPC software		Public Administration User	Consultancy and Expertise	Initial and/or exploratory meeting	(Vilnius Tech) Description: Evaluation of parallel speedup, load balance and communication time aiming to enhance p performance of HPC software on modern hardware architectures. This service provides: •Evaluation of parallel speedup and efficiency. •Assessment of load balance. •Measuring parallel communication time. Target users: Academic, Industry, SMEs, Public Sector Duration: Several consulting sessions 2 hours each. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact amas.kaceniauskas@vilniustech.lt to schedule a free initial consultation.
LT-36	Consultations on parallel programming for HPC architectures		Public Administration User	Consultancy and Expertise	Initial and/or exploratory meeting	Description: Parallel programming of applications for shared- and distributed-memory HPC architectures. This service provides: •CUDA-based parallel applications for GPGPU. •OpenMP-based parallel applications for multi-core HPC nodes. •MPI-based parallel applications for distributed-memory HPC architectures. Target users: Academic, Industry, SMEs, Public Sector Duration: Several consulting sessions 4 hours each. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact vadimas.starikovicus@vilniustech.lt to schedule a free initial consultation. (Vilnius Tech)
LT-37	Consultations on HPC for Big Data Analysis		Public Administration User	Consultancy and Expertise	Initial and/or exploratory meeting	(Vilnius Tech) Description: Big data analysis by using distributed programming model MapReduce and analytics engine Spark. This service provides: •Fundamentals of big data analysis. •Distributed programming model MapReduce. •Big data analysis by using Apache Spark and Python. Target users: Academic, Industry, SMEs, Public Sector Duration: Several consulting sessions 4 hours each. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact andrej.bugajev@vilniustech.lt to schedule a free initial consultation.
LT-38	Trainings on usage of HPC resources		Public Administration User	Infrastructure	Initial and/or exploratory meeting	(Vilnius Tech) Description: Training on usage of high-performance computing (HPC) resources to accelerate your res innovation projects. Technical specifications: •Warewulf environment accessible via SSH. •SLURM workload manager. •ParView software for large data visualization. Use cases: •Development of parallel applications in Warewulf environment. •Job scheduling on Warewulf cluster by using SLURM. •Data visualization by using ParaView. Access method: SSH Additional information: Contact amas.kaceniauskas@vilniustech.lt for details and access instructions.
LT-39	Trainings on parallel programming for HPC architectures		Public Administration User	Application Support	Initial and/or exploratory meeting	(Vilnius Tech) Description: Parallel programming of applications for shared- and distributed-memory HPC architecture Capabilities: •Programming GPGPU applications. •Programming for shared-memory HPC architectures. •Programming for distributed-memory HPC architectures. Includes: •Development CUDA-based parallel application for GPU. •Development OpenMP-based parallel application for multi-core HPC nodes. •Development MPI-based parallel application for distributed-memory HPC architectures. Requirements: Basic knowledge on programming and code compilation on UNIX or LINUX operating systems. Contact information: Contact vadimas.starikovicus@vilniustech.lt for details and access instructions.
LT-40	Trainings on HPC for Big Data Analysis		Public Administration User	Applications	Initial and/or exploratory meeting	(Vilnius Tech) Description: Big data analysis by using distributed programming model MapReduce and analytics engine Spark. Features: •Big data analysis by using analytics engine Apache Spark. •Python tutorials of Apache Spark. Benefits: •Fundamentals of big data analysis. •Conception of distributed programming model MapReduce. Integration: No software installation required. Version information: Spark version 4.1.2. Contact information: Contact andrej.bugajev@vilniustech.lt for details and access instructions.
LT-41	Consultations on parallel performance of HPC software	Academic User		Consultancy and Expertise	Initial and/or exploratory meeting	(Vilnius Tech) Description: Evaluation of parallel speedup, load balance and communication time aiming to enhance p performance of HPC software on modern hardware architectures. This service provides: •Evaluation of parallel speedup and efficiency. •Assessment of load balance. •Measuring parallel communication time. Target users: Academic, Industry, SMEs, Public Sector Duration: Several consulting sessions 2 hours each. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact amas.kaceniauskas@vilniustech.lt to schedule a free initial consultation.
LT-42	Consultations on parallel programming for HPC architectures	Academic User		Consultancy and Expertise	Initial and/or exploratory meeting	(Vilnius Tech) Description: Parallel programming of applications for shared- and distributed-memory HPC architecture This service provides: •CUDA-based parallel applications for GPGPU. •OpenMP-based parallel applications for multi-core HPC nodes. •MPI-based parallel applications for distributed-memory HPC architectures. Target users: Academic, Industry, SMEs, Public Sector Duration: Several consulting sessions 4 hours each. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact vadimas.starikovicus@vilniustech.lt to schedule a free initial consultation.
LT-43	Consultations on HPC for Big Data Analysis	Academic User		Consultancy and Expertise	Initial and/or exploratory meeting	(Vilnius Tech) Description: Big data analysis by using distributed programming model MapReduce and analytics engine Spark. This service provides: •Fundamentals of big data analysis. •Distributed programming model MapReduce. •Big data analysis by using Apache Spark and Python. Target users: Academic, Industry, SMEs, Public Sector Duration: Several consulting sessions 4 hours each. Delivery method: Remote or On-site (depending on location and availability) How to get started: Contact andrej.bugajev@vilniustech.lt to schedule a free initial consultation.
LT-44	Trainings on usage of HPC resources	Academic User		Infrastructure	Initial and/or exploratory meeting	(Vilnius Tech) Description: Training on usage of high-performance computing (HPC) resources to accelerate your res innovation projects. Technical specifications: •Warewulf environment accessible via SSH. •SLURM workload manager. •ParView software for large data visualization. Use cases: •Development of parallel applications in Warewulf environment. •Job scheduling on Warewulf cluster by using SLURM. •Data visualization by using ParaView. Access method: SSH Additional information: Contact amas.kaceniauskas@vilniustech.lt for details and access instructions.
LT-45	Trainings on parallel programming for HPC architectures	Academic User		Application Support	Initial and/or exploratory meeting	(Vilnius Tech) Description: Parallel programming of applications for shared- and distributed-memory HPC architecture Capabilities: •Programming GPGPU applications. •Programming for shared-memory HPC architectures. •Programming for distributed-memory HPC architectures. Includes: •Development CUDA-based parallel application for GPU. •Development OpenMP-based parallel application for multi-core HPC nodes. •Development MPI-based parallel application for distributed-memory HPC architectures. Requirements: Basic knowledge on programming and code compilation on UNIX or LINUX operating systems. Contact information: Contact vadimas.starikovicus@vilniustech.lt for details and access instructions.

LT-46	Trainings on HPC for Big Data Analysis	Academic User	Applications	Initial and/or exploratory meeting	<p>(Vinius Tech) Description: Big data analysis by using distributed programming model MapReduce and analytics engine Spark.</p> <p>Features:</p> <ul style="list-style-type: none"> <li>•Big data analysis by using analytics engine Apache Spark.</li> <li>•Python tutorials of Apache Spark.</li> </ul> <p>Benefits:</p> <ul style="list-style-type: none"> <li>•Fundamentals of big data analysis.</li> <li>•Conception of distributed programming model MapReduce.</li> </ul> <p>Integration:</p> <p>No software installation required.</p> <p>Version information:</p> <p>Spark version 4.1.2.</p> <p>Contact information:</p> <p>Contact <a href="mailto:andrej.bugajev@viniustech.lt">andrej.bugajev@viniustech.lt</a> for details and access instructions.</p>
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