High performance computing system "SKIF-GEO CDP"

COUNTRY OF ORIGIN	IDENTIFIER	PUBLISHED	LAST UPDATE	DEADLINE
Belarus	BO5420	2022-08-11	2022-08-11	

Linked profile in other language

Высокопроизводительная вычислительная система "СКИФ-ГЕО ЦОД"

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Summary

The United Institute of Informatics Problems offers consumers a high-performance computing system "SKIF-GEO CDP" under an outsourcing agreement.

Description

The high-performance computing system "SKIF-GEO CDP" is designed to perform supercomputer calculations in modeling and designing products and processes with high accuracy, designing engineering products and solving mathematical and physical problems with a large amount of calculations.

Advantages and Innovations

The use of x86-64 multi-core processors with the AVX-512 instruction set in the computing nodes of the cluster can significantly improve the performance of integer and floating point calculations due to the ability to perform operations with extra-long operands.

Stage of development

Already on the market

Comments regarding stage of development

The SKIF-GEO-CDP BY cluster is included in the 29th edition of September 24, 2018 of the Top-50 list of the most powerful computing systems installed in the CIS, and is the only non-Russian installation in the Top-50 list.

Funding source

State budged

IPR status

Secret know-how

Sector group
ICT Industry & Services

Type and size of client
R&D institution

Year established
1965

NACE keywords
J.62.0 - Computer programming, consultancy and related activities
J.62.02 - Computer consultancy activities
M.72.19 - Other research and experimental development on natural sciences and engineering

Turnover (in EUR)
10-20M

Already engaged in transnational cooperation
Yes

Additional comments
The United Institute of Informatics Problems of the National Academy of Sciences of Belarus is the leading organization in Belarus in fundamental and applied research on information technologies: CAD/CAM/CAE systems, applied mathematics, high performance parallel computing, bioinformatics and medical informatics, geo-information systems, digi- tal cartographic systems, Space informatics, GRID technologies. The institute is the provider of scientific and educational Internet networks in Belarus. It takes part in state recommendations on information tech- nologies implementation, scientific support of infor- matization processes, prognosis in related science and technology fields in Belarus, high skill specialists training.

Main directions of research:
• Computer aided design, manufacturing and engineering (CAD/CAM/CAE)
• Processing and recognition of signals, images and speech
• Space and remote sensing data processing, geoinformation systems
• Input-output of video and graphical information
• Operations research and discrete optimization
• Information security
• Decision making support systems
• Bio- and medical informatics
• Computer networks and telematics applications
• Supercomputer systems and applications, parallel computing, GRID technologies
• Information retrieval systems.

The Institute cooperates with foreign universities, research centers and organizations in the field of informatics, actively participates in the implementation of joint international projects and programs.

Languages spoken

Russian

Type of partnership considered

Outsourcing agreement

Type and role of partner sought

Consumers interested in using the high-performance computing system "SKIF-GEO CDP" under an outsourcing agreement.

Type and size of partner sought

University

ATTACHMENTS

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