

INPARCOM_PG INTELLIGENT PERSONAL SUPERCOMPUTER OF HYBRID ARCHITECTURE



Areas of Application

The computer is to be used for mathematical modeling in mechanical engineering, civil engineering, defense industry, etc.

Specification

Double-precision (DP) computing performance: up to 3 TFlops; processor cores: from 8 to 44; GPUs: 2 NVIDIA Tesla K40; SSD drives: 1 drive from 240 GB, HDD drives: 2 drives from 1000 GB each (RAID 0.1); DP peak performance: $2 \times 1, 66$ TFlops; operating systems: OS Linux, OS Windows; intelligent software for solving tasks of computational mathematics Inpartool_pg; applied software Lira, Nadra, and Weld-Predictions for modeling in the field of construction, mass transfer, and electric welding; resource management system TORQUE

Advantages

There are no counterparts in the world. The computer uses an innovative function of automatic adaptive adjustment of algorithm, program, and computer's architecture to the problem properties; provides parallelization of algorithms and programs; speeds up hundredfold the problem solution in mechanical engineering, civil engineering, and defense industry; and provides a guaranteed accuracy of computing solutions

Stage of Development. Suggestions for Commercialization

IRL6, TRL6
Manufacture, supply, warranty service,
and staff training, upon request

IPR Protection

IPR3

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