

NCC Bulgaria is built by a consortium coordinated by the Institute of Information and Communication Technologies at the Bulgarian Academy of Sciences (IICT-BAS), and two members, the Sofia University “St. Kliment Ohridski” (SU), and the University of National and World Economy (UNWE). The partners collaborate with Sofia Tech Park, where the Discoverer EuroHPC supercomputer is operating.

BULGARIAN SUPERCOMPUTERS IN TOP500 LISTS

System: HPE Proliant XL675d Gen10 Plus, AMD EPYC 7742 64C 2.25GHz, NVIDIA A100 SXM4 40 GB
Manufacturer: HPE
Cores: 19,840
Interconnect: InfiniBand HDR
Linpack Performance (Rmax): 2.53 PFlop/s
Theoretical Peak (Rpeak): 3.21 PFlop/s
Operating System: SUSE Linux

LIST 11/2023
RANK 360

HEMUS



Site: Institute of Information and Communication Technologies at the Bulgarian Academy of Sciences

AVITOHOL



System: Cluster Platform SL230s Gen8 with Intel Xeon E5-2650v2 8C 2.6GH and Intel Xeon Phi 7120P
Manufacturer: HPE
Cores: 20700
Interconnect: InfiniBand FDR
LINPAC Performance (Rmax): 260 TFlop/s
Theoretical Peak (Rpeak): 412 T Flop/s
Operating System: Linux

LIST 11/2015 06/2015
RANK 389 332

System: BullSequana XH2000, AMD EPYC 7H12 64C 2.6GHz
Manufacturer: EVIDEN
Cores: 144,384
Interconnect: Infiniband HDR
Linpack Performance (Rmax): 4.52 PFlop/s
Theoretical Peak (Rpeak): 5.94 PFlop/s
Operating System: Linux

LIST 11/2023 06/2021
RANK 166 91

DISCOVERER



Site: Consortium Petascale Supercomputer Bulgaria

BLUE GENE/P SOLUTION



Site: Bulgarian State Agency for Information Technology and Communications (SAITC)

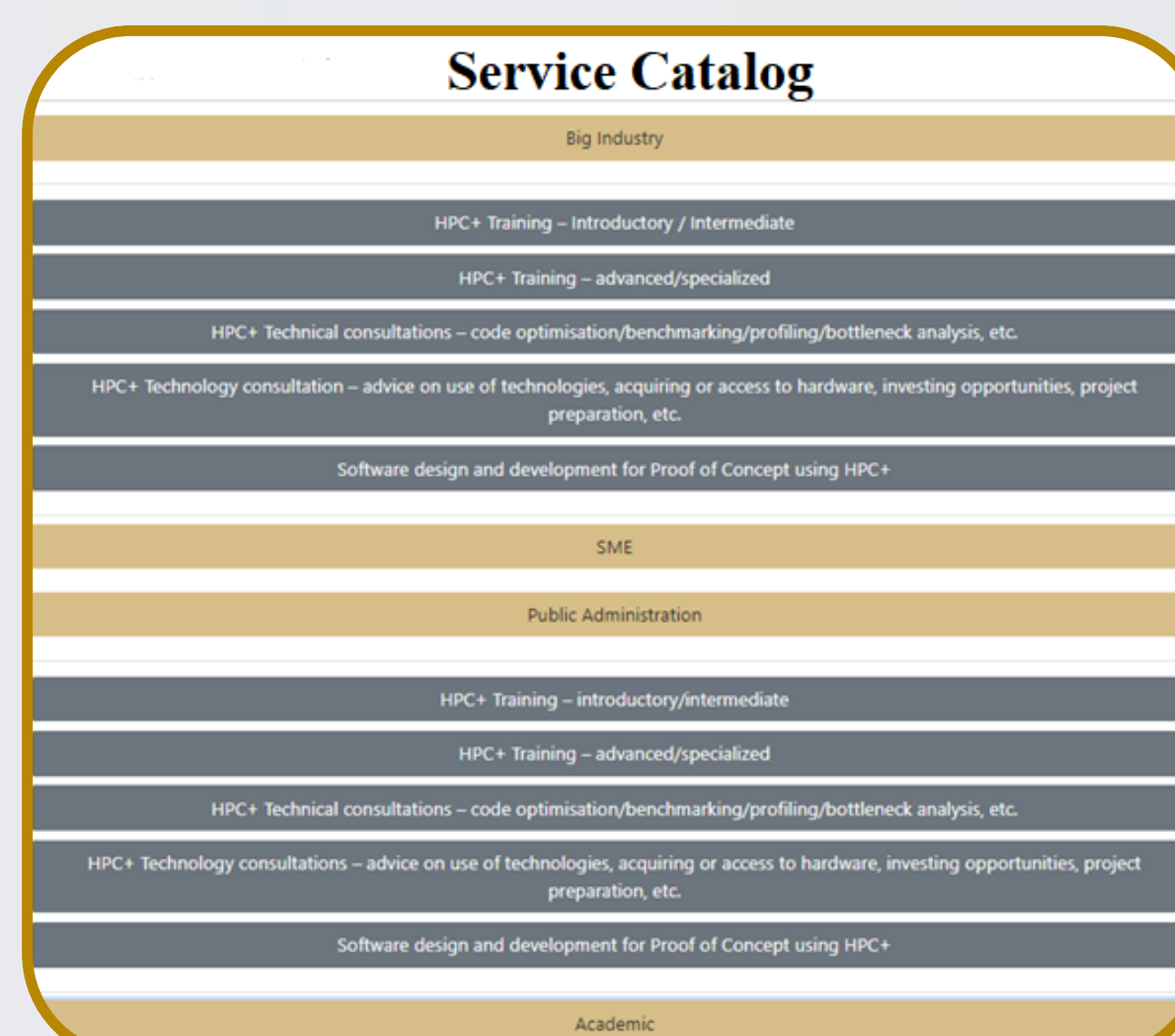
System: Blue Gene/P Solution
Manufacturer: IBM
Cores: 8192
Interconnect: Proprietary
Linpack Performance (Rmax): 23.86 TFlop/s
Theoretical Peak (Rpeak): 27.85 TFlop/s
Operating System: CNK/SLES
Decommissioned: since 2018

LIST 11/2009 06/2009 11/2008
RANK 379 247 127

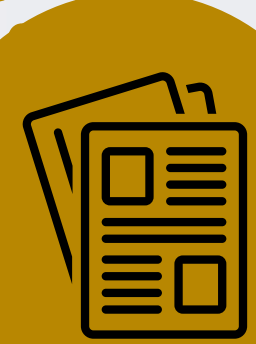
SERVICES

Main type of services:

- HPC+ training – introductory/intermediate
- HPC+ training – advanced/specialized
- HPC+ technical consultations
- Software design and development for Proof of Concept using HPC+



Introductory Training for Industrial Users, IICT-BAS, Bulgaria, October 12th, 2023



PUBLICITY

Raising Awareness:

- produce and distributed materials: posters, banners, brochures, flyers, newsletters, etc.
- publishing interviews, papers, success stories, best practices
- organizing dissemination events: workshops, conference, round tables, meetings



SUCCESS STORIES

- Public Sector
- Industrial Users
- Scientific Achievements



COOPERATION

Highlighted Collaborations with:

- CASTIEL and other NCCs
- some European CoEs using HPC
- some National CoEs and large national RIs projects
- some European Digital Innovation Hubs (EDIH)



The second annual HPC user forum, Sofia Tech Park, Bulgaria, November 16th, 2023

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The National Competence Centre Bulgaria has received funding from the European Union through the European High Performance Computing Joint Undertaking (JU) and the Ministry of Education and Science of the Republic of Bulgaria.