Latvian Space Centre “VIRAC”

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www.virac.eu
About VIRAC:
1. VIRAC is an internationally recognized and outstanding Latvian space research and education center, which conducts high-quality research in astronomy and satellite communications, develops space research hardware and software, and provides educational services in the fields of space technology and science.
2. VIRAC aims to become a global research service provider in the field of space technology research, thus speeding up the international growth of companies in Latvian space industry.
3. Number of people: 76 technical, engineering, research and administrative personnel
Remote Sensing and Signal Discrete Processing

- Developing specialized methodologies for translating remote sensing data into information products;
- Researching and testing data processing techniques in remote sensing (Forest industry; Environment protection; Urban development; Agriculture);
- Developing software.

Electronics and Satellite Technology

- Satellite engineering and testing
- Advanced antenna technologies
- Cyber-physical and embedded systems
- Smart technologies, renewable energy sources, rapid prototyping and additive manufacturing
Astronomy and Astrophysics

- Interstellar and circumstellar medium
- Physics of solar atmosphere
- Active galaxy nuclei
- Small bodies of the solar system
- Polarized radiative transfer

High Performance Computing

- Radio astronomical data processing and their methods (single-dish observations; VLBI; radar-VLBI; complementary radar-VLBI and SLR)
- Near space objects research (Planetary Studies (Comets, Asteroids); Earthquake Research (satellites, space debris))
- Research in engineering physics
Latvian Cern Tier 2 Federated Network including VIRAC infrastructure

VIRAC as one of the sub-networks in the Latvian Tier 2 CERN CMS network with such activities:

- In cooperation with SIA "Dati Group" and RTU, Tier 2 IP table of VIRAC sub-network was created.
- VLAN configuration according to Tier 2 requirements (using infiniband switches).

Participation in the Folding@home Baltic Cern Group

![Folding@home](source)

**Team 263738 stats**

Fri Mar 04 14:20:02 GMT 2022

Name CERN Baltic Group
Score 30340970677
WUs 279902
Rank 422

**Members**

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THANKS!

Do you have any questions?
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