

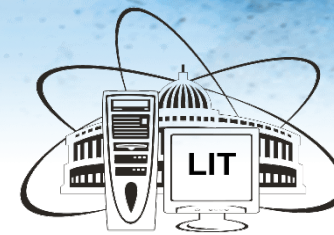


Information-software environment for the GOVORUN Supercomputer

Kirakosyan M., Podgainy D., Streltsova O., Torosyan Sh., Vala M.

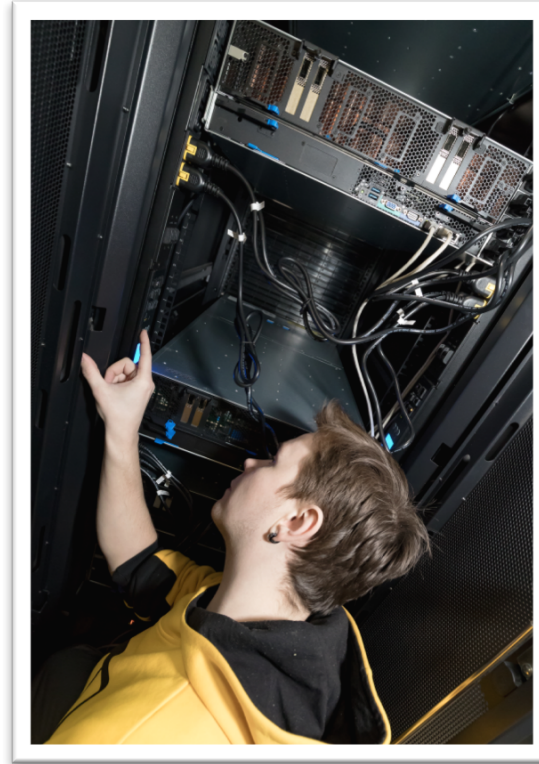
Heterogeneous Computations team

LIT UNR



**“Govorun” Supercomputer –
revolutionary HPC solution**

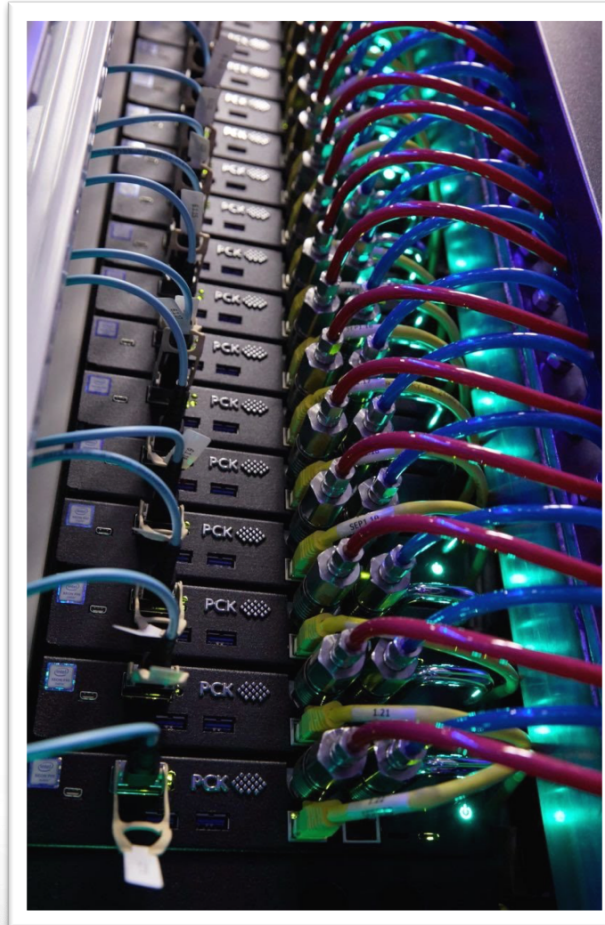
GOVORUN Supercomputer. GPU component.



Platformmix



GOVORUN Supercomputer. CPU component

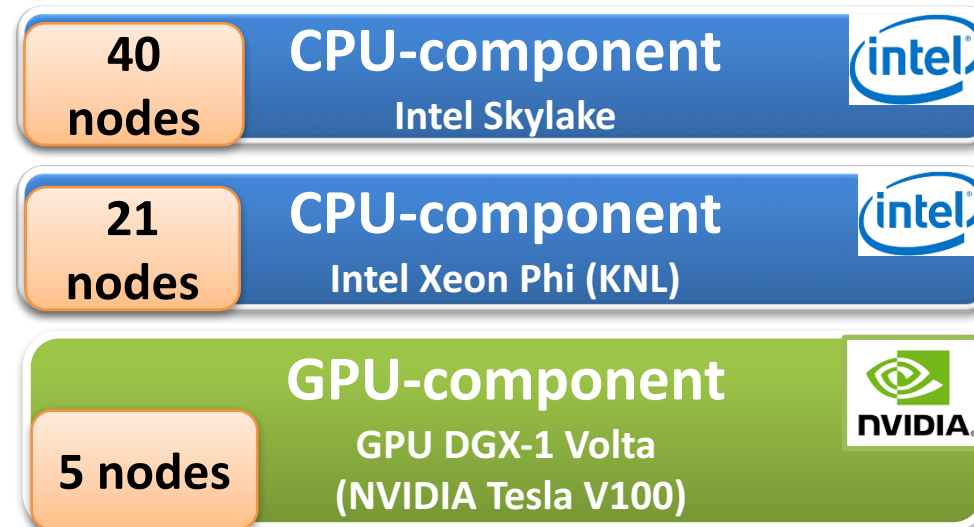
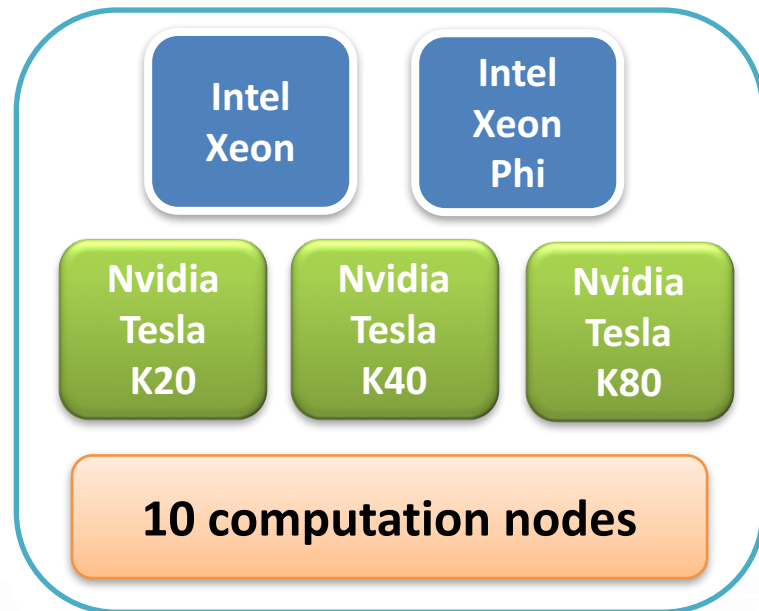


HybriLIT heterogeneous platform

Unified software and information environment

Training and testing polygon
“HybriLIT”

“Govorun” Supercomputer

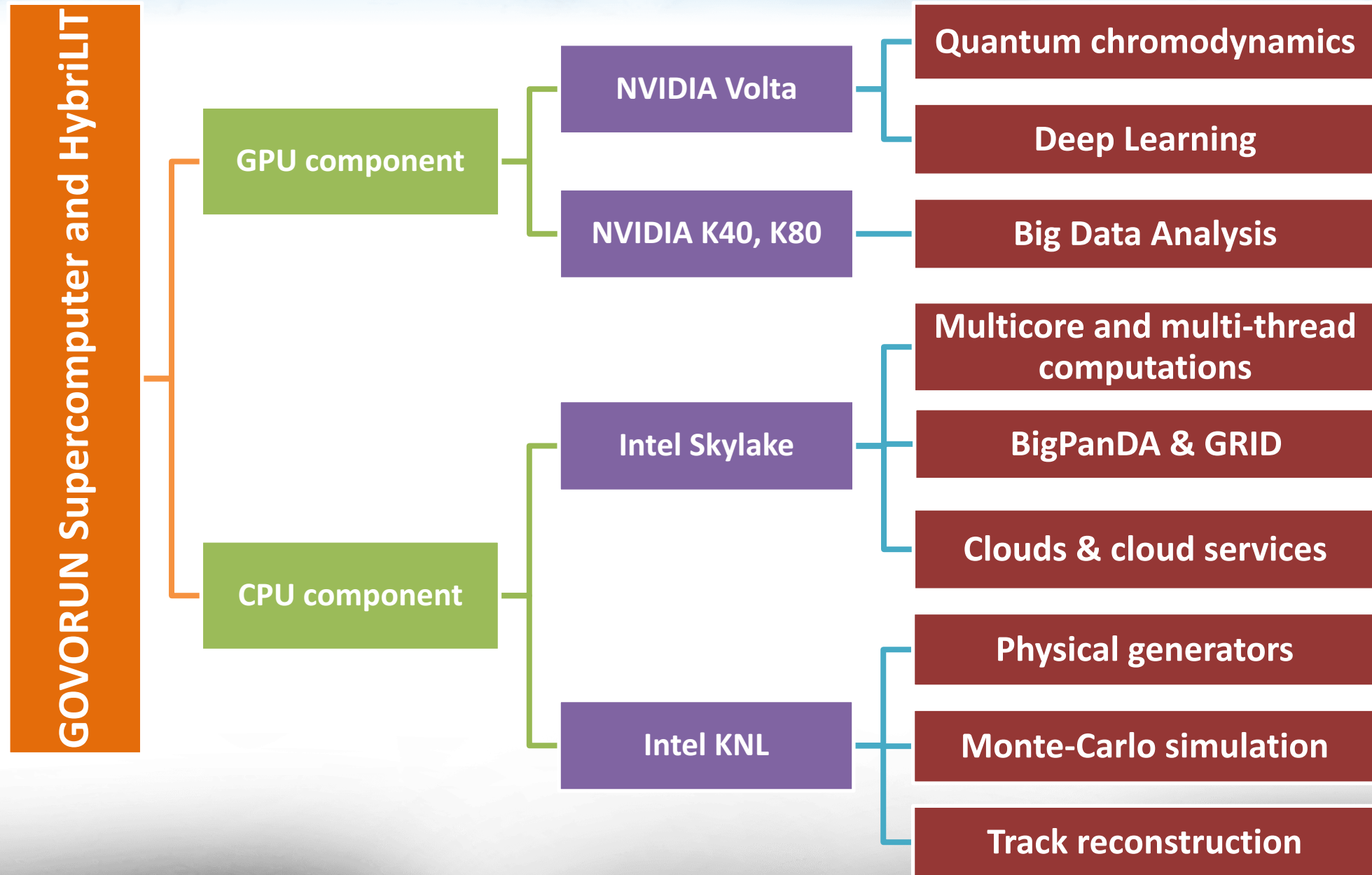


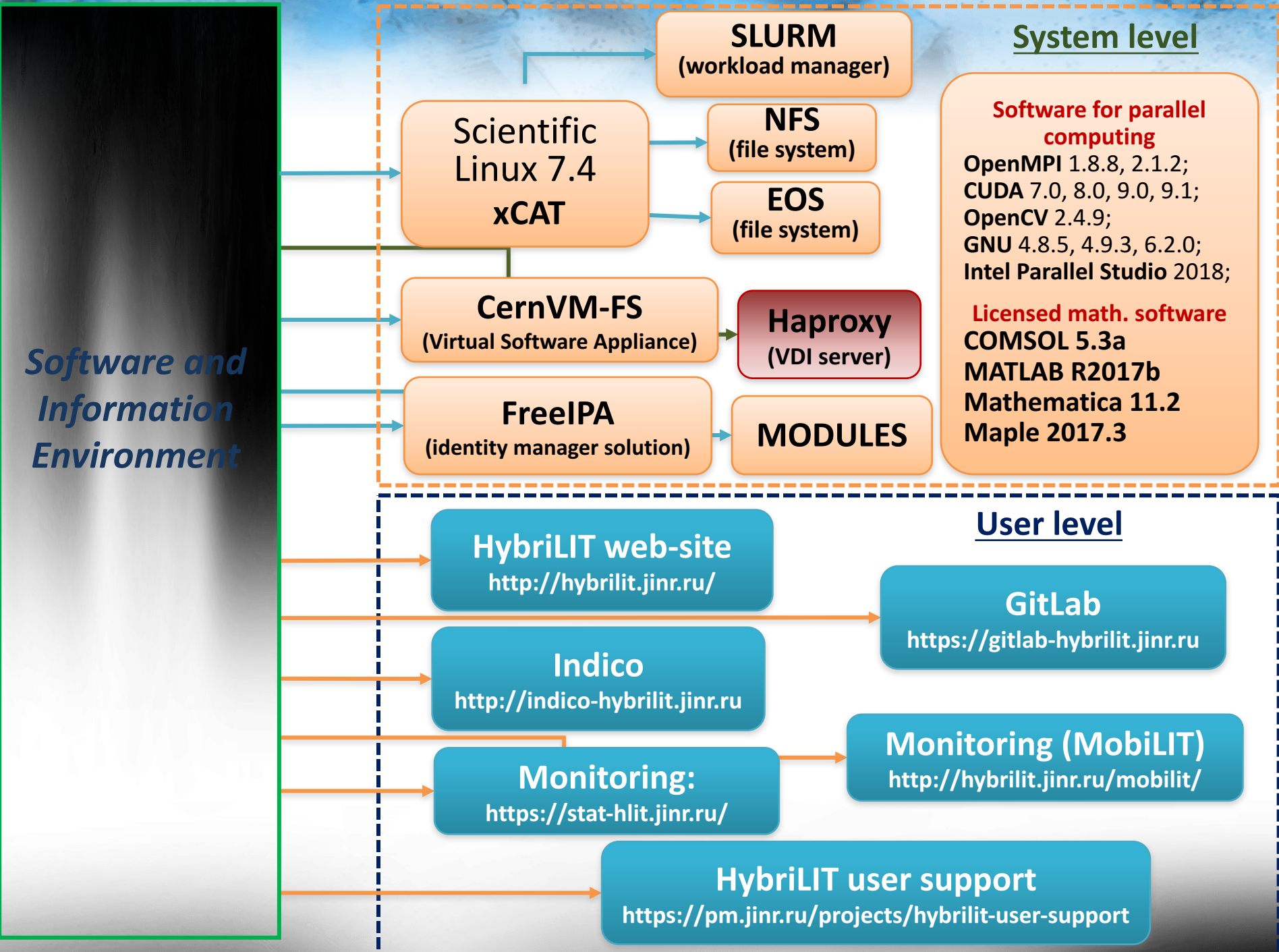
Skylake
1440 cores
KNL
1512 cores

Volta
205 000 CUDA cores
26 000 Tensor cores
K40, K80
78 000 CUDA cores

Peak Performance: 1 PFlops

Heterogeneous computations in JINR







SUPERCOMPUTER "GOVORUN"

education and testing polygon "HybriLIT"



SERVICES



REGISTRATION



HOW TO WORK



EVENTS

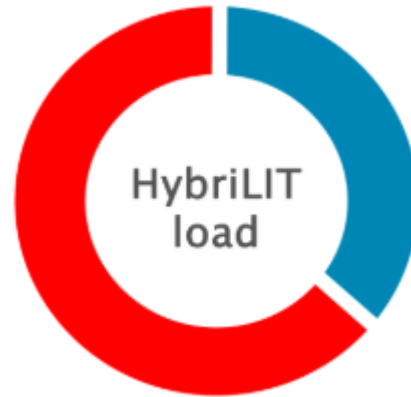


HLIT-VDI

at GOVORUN supercomputer

at HybriLIT platform

Services

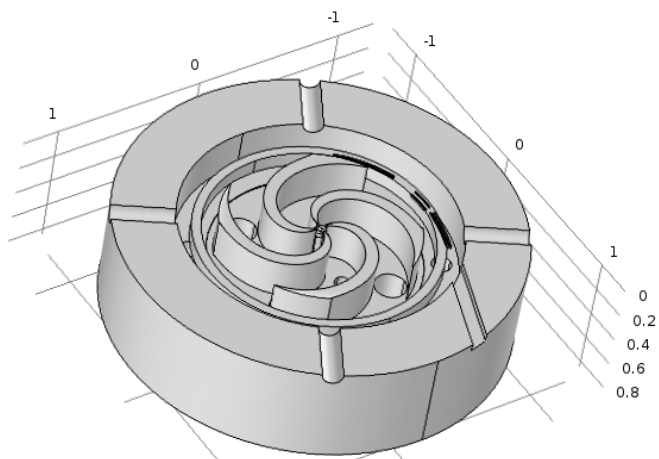
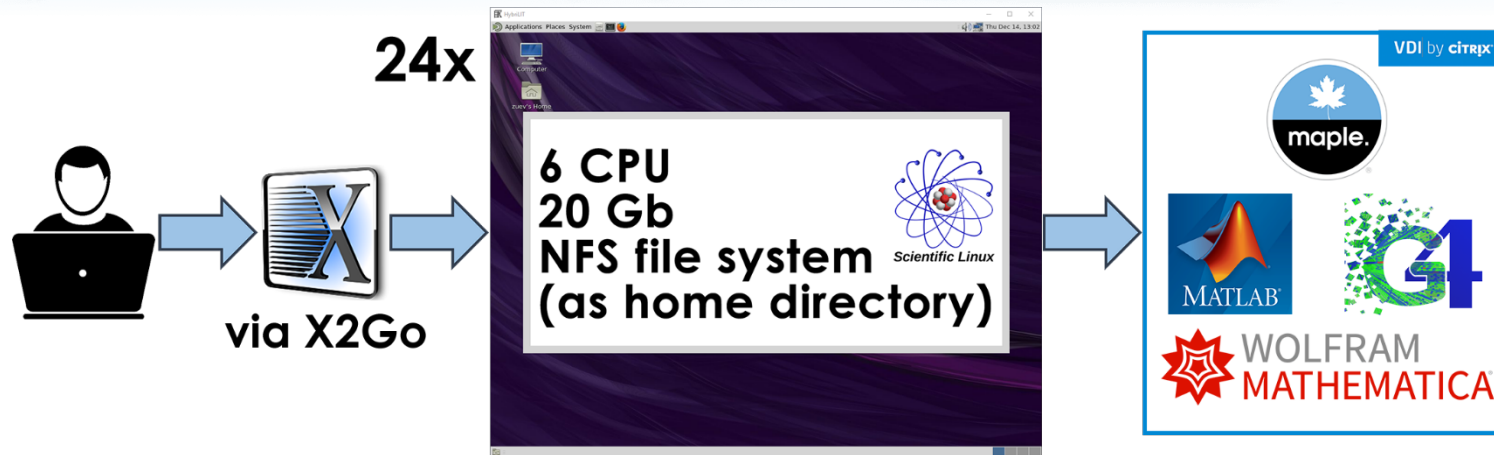


JINR Project Management Service

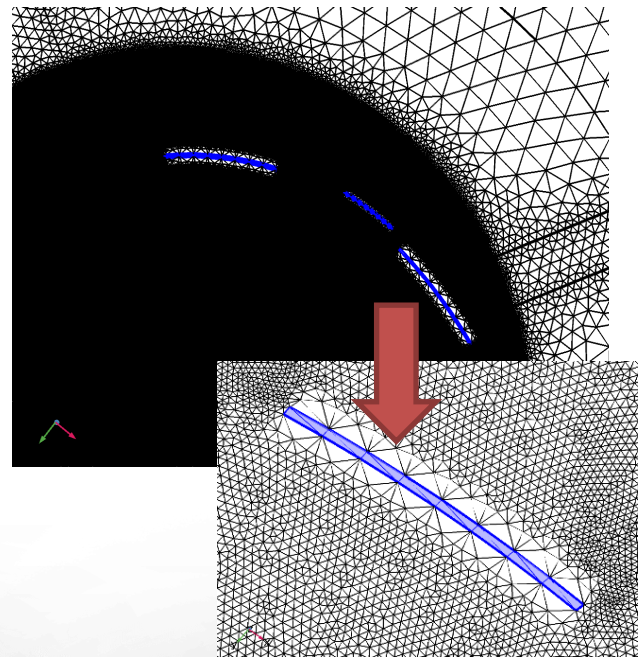
GitLab Mattermost
All team communication in one place, searchable and accessible anywhere



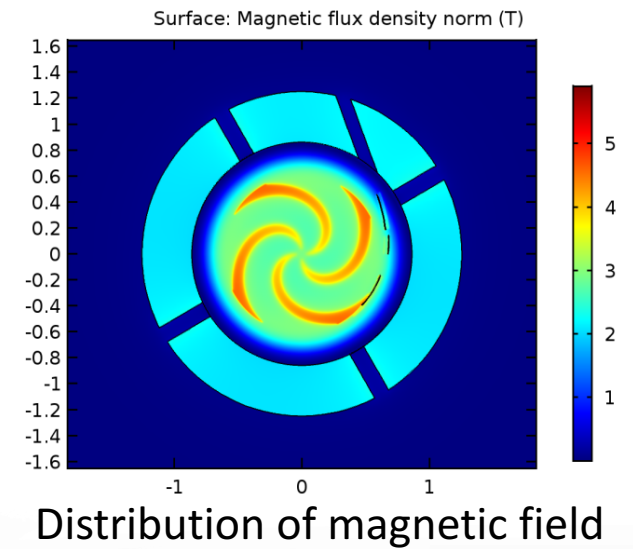
HLIT-VDI – system of virtual desktop interfaces




Superconducting magnet SC200
for medical researches



Computation grid



Cluster Automation system



Cluster Automation
Расширенное управление v18.9.3

- Конфигурации
- Дерево объектов
 - geometric
 - jobs
 - nodes
 - opa
 - processes
 - uuid
 - xcat

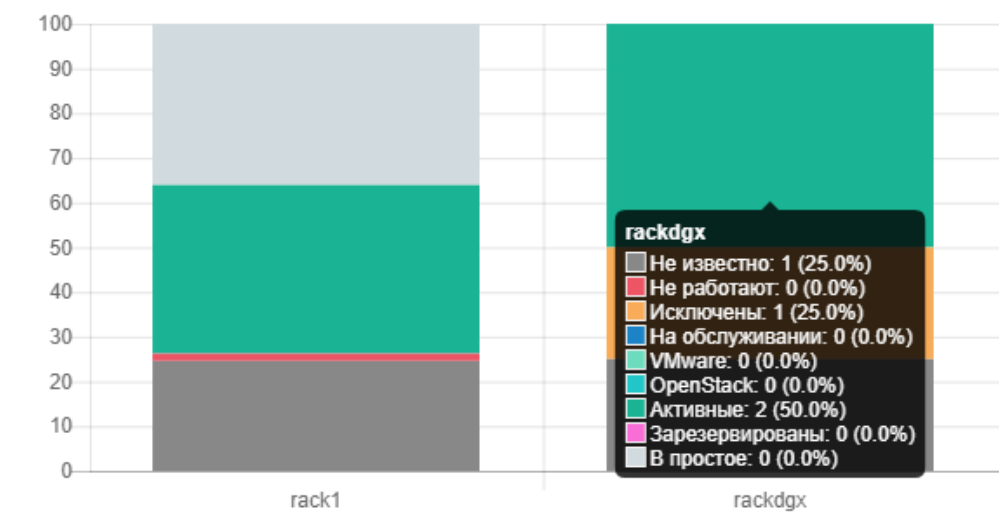
Пустые группы: 2

Объекты | Настройки

superadmin | Ru | Выйти


Поиск *.root | Поиск | Информация о системе

Нагрузка по стойкам (в процентах)



Стойка	Не известно	Не работают	Исключены	На обслуживании	VMware	OpenStack	Активные	Зарезервированы	В простое
rack1	1 (25.0%)	0 (0.0%)	1 (25.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	2 (50.0%)	0 (0.0%)	0 (0.0%)
rackdgx	1 (25.0%)	0 (0.0%)	1 (25.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	2 (50.0%)	0 (0.0%)	0 (0.0%)

Статус узлов



Активные	25
В простое	22
Исключены	1
Не работают	1
Зарезервированы	0
На обслуживании	0
OpenStack	0
VMware	0
Не известно	16
Всего:	65

Список задач

Updated 09 sec. ago



Questions?