

jobid	owner	project	queue	starttime	est_endtime	runtime	#nds	Load/Nd	Mem/Nd	IC Mib/Nd	IC Pck/Nd	HomeWr	HomeRd	PrjWr	PrjRd	ScrWr	ScrRd	FDataWr	FDataRd	#spis
1261174	user0065	grp055	gpus	2019-07-05 15:39	2019-07-05 21:39	2h54m	1	8.30	13.44	257.21	0.22					37.13	4.44			174 PDF
1261176	user0065	grp055	gpus	2019-07-05 15:39	2019-07-05 21:39	2h54m	1	8.54	13.47	291.23	0.25					40.50	4.42			174 PDF
1261179	user0065	grp056	gpus	2019-07-05 15:39	2019-07-05 21:39	2h54m	1	8.35	13.46	347.88	0.45					42.75	4.45			174 PDF
1261180	user0065	grp056	gpus	2019-07-05 15:39	2019-07-05 21:39	2h54m	1	8.40	13.45	287.55	0.31					38.25	4.41			174 PDF
1261173	user0065	grp056	gpus	2019-07-05 15:39	2019-07-05 21:39	2h54m	1	8.41	15.84	255.08	0.22					39.38	4.33			174 PDF
1261172	user0065	grp055	gpus	2019-07-05 15:39	2019-07-05 21:39	2h54m	1	8.31	13.49	186.62	0.07					36.00	4.48			174 PDF
1260784	user0424	grp135	batch	2019-07-05 15:12	2019-07-06 15:12	3h21m	64	94.73	80.18	80.01	0.10									201 PDF
1260783	user0424	grp135	batch	2019-07-05 14:49	2019-07-06 14:49	3h44m	64	94.53	45.01	20.10	0.02									224 PDF
1248142	user0635	grp107	batch	2019-07-05 14:40	2019-07-05 20:40	3h53m	4	63.23	44.92	1763.54	0.46									233 PDF
1260887	user0065	grp056	gpus	2019-07-05 14:40	2019-07-05 20:40	3h53m	1	8.50	13.45	285.26	0.24					48.38	4.38			233 PDF
1259952	user0065	grp055	gpus	2019-07-05 14:31	2019-07-05 20:31	4h02m	1	8.52	15.18	421.38	0.90					50.63	4.30			242 PDF
1259955	user0065	grp056	gpus	2019-07-05 14:31	2019-07-05 20:31	4h02m	1	8.45	13.46	342.13	0.56					51.75	4.48			242 PDF
1259626	user0065	grp055	gpus	2019-07-05 14:31	2019-07-05 20:31	4h02m	1	8.58	13.45	379.93	0.66					56.25	4.39			242 PDF
1259953	user0065	grp055	gpus	2019-07-05 14:31	2019-07-05 20:31	4h02m	1	8.61	15.99	419.69	0.85					50.63	4.20			242 PDF

Jobid: 1805205 User: luehrs2 Project: cstao Date/Time of job data: 19/10/29-14:23:18

Job runtime: 11m
-> 72.48% of wall: 15m

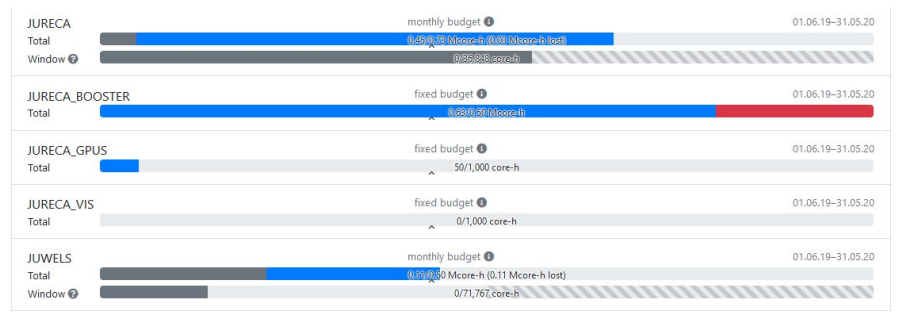
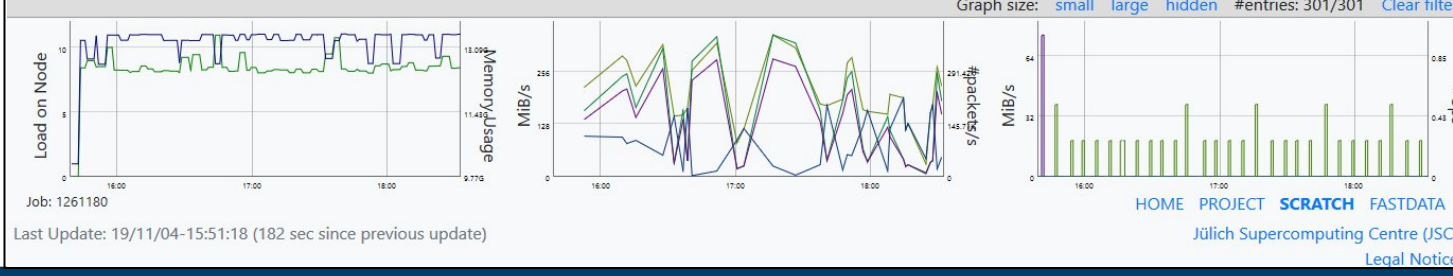
Job Performance metrics

	min	avg	max
Load (CPU-Nodes):	0.00	29.29	48.25
Memory (CPU-Nodes):	7194.40	40841.74	74024.40 MIB
Interconnect Traffic (in):		1745.53	1973.90 MIB/s
Interconnect Traffic (out):		1895.68	2232.05 MIB/s
Interconnect Packets (in):		1626172	1802858 pck/s
Interconnect Packets (out):		1666604	1911087 pck/s

Queue: batch
Job Size, #nodes: 683 #data points: 11

Job I/O statistics

	Total Data Write	Total Data Read	max. Data rate/Node Write	max. Data rate/Node Read	Open-Close Rate/Node
\$HOME:	0.00 MIB	0.00 MIB	0.00 MB/s	22.27 MB/s	3509.30 op/s
\$PROJECT:	0.00 MIB	0.00 MIB	0.00 MB/s	0.00 MB/s	22.17 op/s
\$SCRATCH:	13.28 MIB	16731064.13 MIB	0.09 MB/s	85074.54 MB/s	2511.62 op/s
\$FASTDATA:	0.00 MIB	0.00 MIB	0.00 MB/s	0.00 MB/s	22.17 op/s



User Portal and Job Monitoring

Webportals and Support-Tools @ JSC

11.11.2024 | Dr. Jolanta Zjupa

Getting access to JSC resources

	Test project	Compute project	Data project
Apply	anytime	twice a year: mid Feb/Aug <i>next deadline:</i> 17 February 2025, 17:00 CEST	anytime
Compute time	~ (5.-20.) 000 core-h	intensive \geq (5.-10.) Mcore-h	none
Duration	up to 4 months	1 year	1 year
Systems	JUWELS, JURECA, JUSUF, JUDAC	JUWELS, JURECA, JUSUF, JUDAC	JUDAC
Filesystems	PROJECT, SCRATCH	PROJECT, SCRATCH	DATA, FASTDATA, ARCHIVE, OBJECTSTORE, ...

- <https://www.fz-juelich.de/en/ias/jsc/systems/supercomputers/call-for-applications-for-test-projects-with-jsc-supercomputing-and-support-resources>
- <https://www.fz-juelich.de/en/ias/jsc/systems/supercomputers/apply-for-computing-time>
- <https://www.fz-juelich.de/en/ias/jsc/systems/supercomputers/call-for-proposals>
- <https://www.fz-juelich.de/en/ias/jsc/services/data-services/data-projects>

Community specific access to JSC systems

- **Earth System Modelling (ESM)** (call based)

<https://www.fz-juelich.de/en/ias/jsc/systems/supercomputers/apply-for-computing-time/esm>

Rolling calls

- **AI** - HAICORE

<https://www.helmholtz.ai/you-helmholtz-ai/computing-resources/>

- **Neuroscience** - EBRAINS

<https://wiki.ebrains.eu/bin/view/Collabs/hpc-resources/>

- **Astrophysics** - PUNCH ASTRO

https://results.punch4nfdi.de/?md=/docs/Compute/Computer_Resources/compute-projects.md

3 Steps to access the HPC systems

Step 1: JuDoor account registration

JuDoor Login

Portal for managing accounts, projects and resources at JSC.

Login using JSC account

Username

Password

[Login](#) [Register](#) [Reset password](#)

Login with e-mail callback

Login mail address

A confirmation email to confirm your identity will be sent to this address.

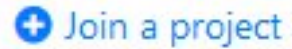
[Send identification mail](#)

If you are stuck take a look at the [JuDoor Documentation](#).

<https://judoor.fz-juelich.de>

Step 2: Join a project

Two alternatives

 + Join a project

in **JuDoor** if you
know the project ID

Follow invitation link send
by PI or PA

<https://judoor.fz-juelich.de/projects/join/...>

PI/PA receives notification and grants
project resource specific access

If you are already a project member but don't see all
available project systems, you can use

Request access for resources

Projects

 CST Application Support		ccstao
 Institutskontingent JSC	Compute project	cjsc
 PROJEKT PARATEAM		cparateam
 Datenprojekt JSC	Data project	jsc
  Introduction to Supercomputing at JSC - Theory & Practice	PI/PA access	training2230
 Join a project		

A user can be part of multiple compute and data projects

JuDoor

PI/PA




- receives notification
- manages project members
- grants access to specific resources
- manages data inheritance (PI only)
- has access to all project info on LLview and Kontview

PM

- project specific permanent contact point at JSC
- either from a SDL or ATML

<https://www.fz-juelich.de/en/ias/jsc/services/user-support/project-mentoring>

Project training2230

Project title	Introduction to Supercomputing at JSC - Theory & Practice
Type	 Computeproject
Principal Investigator	Ilya Zhukov
Project Admin	Dr. Jolanta Zjupa
Project Mentor	Ilya Zhukov
Start date	01.11.2022
End date	30.11.2022 
Community	Training
Address	Forschungszentrum Jülich GmbH Wilhelm-Johnen-Straße 52428 Jülich Germany
Group name	training2230
Active Budgets	
Budget	cstao 

Data access is possible up to 3 month after the end of the project via JUDAC.

JuDoor

Each projects grants access to various systems and partitions.

Systems

deep	Manage SSH-keys	Usage agreement confirmed on 27.10.2022	
DEEP_BOOSTER: deepsea iosea DEEP_CPU: deepsea iosea DEEP_DAM: deepsea iosea			
judac	Manage SSH-keys	Usage agreement confirmed on 20.04.2022	
ccstao deepsea iosea cparateam punch_astro training2400 training2403 training2410 cjsc jsc cstao			
jureca	Manage SSH-keys	Usage agreement confirmed on 20.04.2022	
JURECA-DC_CPU: ccstao cparateam punch_astro training2403 training2410 cjsc JURECA-DC_GPU: ccstao punch_astro training2410 cjsc			
jusuf	Manage SSH-keys	Usage agreement confirmed on 20.04.2022	
JUSUF_CPU: ccstao training2403 training2410 cjsc JUSUF_GPUS: ccstao training2410 cjsc			
juwels	Manage SSH-keys	Usage agreement confirmed on 20.04.2022	
JUWELS: ccstao cparateam training2410 JUWELS_BOOSTER: ccstao training2410 JUWELS_GPUS: ccstao training2410			

Usage agreement link must be visited first before Manage SSH-Keys link appears

click-able status page link

Projects connected to this resource

Service status

[Service Status](#) [Legal notice](#) [Privacy Policy](#) [Mail Subscriptions](#)

JSC Service Status

- Cluster Systems

JUWELS Cluster	JUWELS Booster
JURECA DC	JUSUF HPC
JUDAC	QLM
JUZEA1	HDF-ML
DEEP	

- File Systems

\$HOME	\$PROJECT
\$SCRATCH	\$ARCHIVE <small>Next Maintenance at Jun 17, 2024, 08:00</small>
\$FASTDATA	\$DATA
\$CSCRATCH	

- Services

JuDoor	Jupyter-JSC
JSC Cloud	Backup
Job reporting	UNICORE <small>Next Maintenance at Jun 10, 2024, 09:00</small>
HDF Cloud	Cloud Object Storage
JUSTCOM	

- Support

SC Support

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Status

Please see [the JSC Service Status Page](#) for system status information:

[System messages JUWELS Cluster](#)

[System messages JUWELS Booster](#)

<https://status.jsc.fz-juelich.de/>

Read the MOTD

Supercomputers

JUWELS

- [User Documentation](#)
- [Configuration](#)
- [FAQ](#)
- [Known Issues](#)
- [Job Reporting](#)
- [Modules overview](#)
- [Related Organisations](#)
- [JURECA](#)
- [JUSUF](#)
- [Apply for test access](#)
- [Apply for computing time](#)

Service status

JUWELS Cluster

The Cluster partition of the JUWELS Supercomputer [↗](#)



JUWELS Cluster is currently degraded

Degraded base services

Unavailable login nodes

- juwelsvis01.fz-juelich.de

\$CSCRATCH [↗](#)

Current state

Issues in cell 03

28. Feb. 2022, 14:20:00 - unknown

Today, on Monday 2022-02-28, at 14:20, a series of hardware failures resulted in a malfunction in the power and cooling systems of cell 03 in JUWELS Cluster. As a result the InfiniBand network suffered instabilities that affected other cells, and some jobs failed. The cell is now disconnected from the fabric and the system is stable.

We apologize for the inconvenience.

History

New software stage

10. Feb. 2022, 12:00:00 - 7. März 2022, 20:14:16

The default software stage has been changed to Stages/2022. If you wish to continue using the previous default stack please load Stages/2020 before any other module. Note that this stage will be deprecated.

JuDoor

Each projects grants access to various systems and partitions.

Systems

deep	Manage SSH-keys	Usage agreement confirmed on 27.10.2022	
DEEP_BOOSTER: deepsea iosea DEEP_CPU: deepsea iosea DEEP_DAM: deepsea iosea			
judac	Manage SSH-keys	Usage agreement confirmed on 20.04.2022	
ccstao deepsea iosea cparateam punch_astro training2400 training2403 training2410 cjsc jsc cstao			
jureca	Manage SSH-keys	Usage agreement confirmed on 20.04.2022	
JURECA-DC_CPU: ccstao cparateam punch_astro training2403 training2410 cjsc JURECA-DC_GPU: ccstao punch_astro training2410 cjsc			
jusuf	Manage SSH-keys	Usage agreement confirmed on 20.04.2022	
JUSUF_CPU: ccstao training2403 training2410 cjsc JUSUF_GPUS: ccstao training2410 cjsc			
juwels	Manage SSH-keys	Usage agreement confirmed on 20.04.2022	
JUWELS: ccstao cparateam training2410 JUWELS_BOOSTER: ccstao training2410 JUWELS_GPUS: ccstao training2410			

Usage agreement link must be visited first before Manage SSH-Keys link appears

click-able status page link

Projects connected to this resource

Step 3: Upload your SSH-key



SSH keys on jureca

Here you can upload an SSH public key to the system. Information on how to create an SSH public key can be found [here](#). It might take up to 15 minutes until the newly added SSH key is activated.

More details on from-clause handling and key generation

Upload SSH public keys

To use our systems your public key options have to include a `from=`-clause to restrict the usage of the key to your personal IP address range. Your current IP address is `134.94.52.69`. See [the documentation](#) for more information.

Remove all other existing public keys.

Your current public IP

Your public key and options string

`from="134.94.52.69" ssh-ed25519 AAAAC3N...`

use ed25519
no RSA ssh keys

Paste the content of your `.pub`-file here or upload a file below.

Your public key file

 Browse

Additional public key options

`e.g. from="134.94.52.69",...`

Can be a list of static IP, a static network range, a static hostname or a hostname suffix using `*` as a wildcard symbol

You can specify your `from=` clause and other public key options here

Start upload of SSH-Keys

Add additional keys...

Your SSH keys on jureca

sebi@zam495

SHA256:

MD5:

Options: `from="134.94.0.0/16"`



Further steps to get you going

Log in to JSC system of choice, over terminal:

```
ssh [-X] <username>@<system>.fz-juelich.de
```

alternatively you can use **JupyterLab**, favourite editor (upon set up of ssh connection), mount point (sshfs)

Talk tomorrow by
J.-H. Göbbert (JSC)

➤ This will bring you to \$HOME on <system> (there is a separate home on each JSC system)

Note: \$HOME has only 16GB and is *not* meant for production - go to: \$PROJECT or \$SCRATCH

Note: \$SCRATCH has **no backup** and files that have not been touched 90 days are **automatically deleted**

Documentation & overview preinstalled software

JUWELS

Jülich Wizard for European Leadership Science



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Supercomputers

JUWELS

[User Documentation](#)

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[Modules overview](#)

[Related Organisations](#)

JURECA

JUSUF

[Apply for test access](#)

[Apply for computing time](#)

**Talk tomorrow by
R. Partzsch (JSC)**

Supercomputers: [https://www.fz-juelich.de/en/ias/jsc/systems/supercomputers\(/<system>\)](https://www.fz-juelich.de/en/ias/jsc/systems/supercomputers(/<system>))

Storage systems: [https://www.fz-juelich.de/en/ias/jsc/systems/storage-systems\(/<system>\)](https://www.fz-juelich.de/en/ias/jsc/systems/storage-systems(/<system>))

Further steps to get you going

Log in to JSC system of choice, over terminal:

```
ssh [-X] <username>@<system>.fz-juelich.de
```

➤ This will bring you to the **Log in node**:

- **shared resource**
- time spend on Log in node is *not* deducted from the budget
- number of parallel processes limited
- *not* meant for production but for setup, compilation and submission to:

➤ **Compute node**:

- **exclusive resource**, no node-sharing
- submit jobs using (PS)Slurm or get an interactive session
- all time a compute node is allocated for you is deducted from your budget **also if no computations are performed!**

Talk tomorrow by
C. Paschoulas (JSC)

Quota calculation

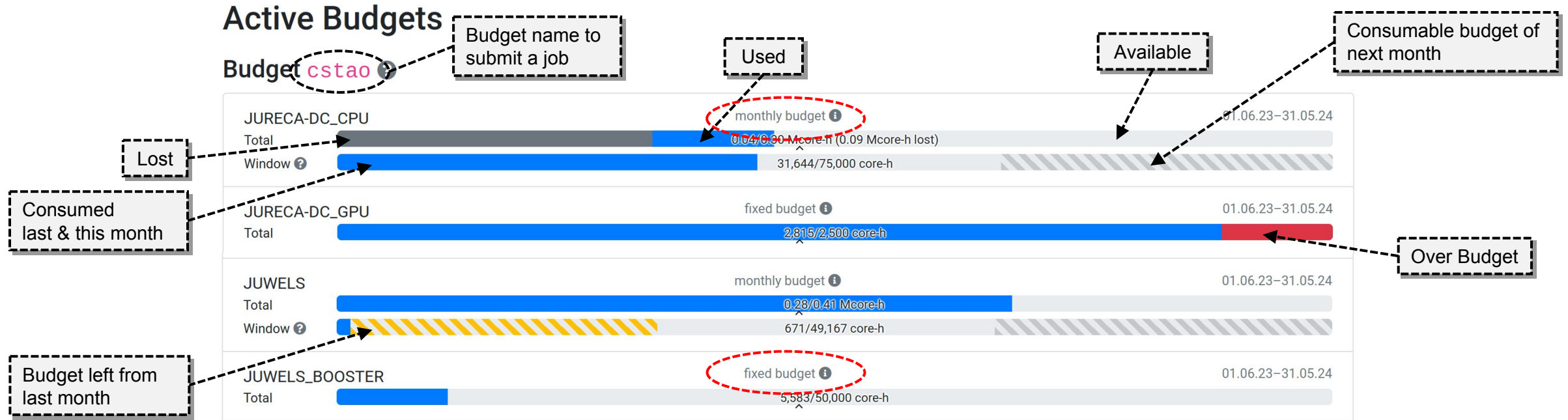
`core-h =`

`#nodes x #physical_cores_per_node x runtime`

- `#physical_cores_per_node`:
 - JUWELS or JUWELS_BOOSTER: 48, JURECA-DC or JUSUF: 128
 - **GPUs** are accounted for through core-h
- `runtime`: actual job runtime, not the provided walltime of the job
- There is no node-sharing on compute nodes
- The quota is fully placed on the day when the job ended
- The quota of a job is not taken into account in advance
- The base priority of a job based on the overall project quota and is updated on a daily basis

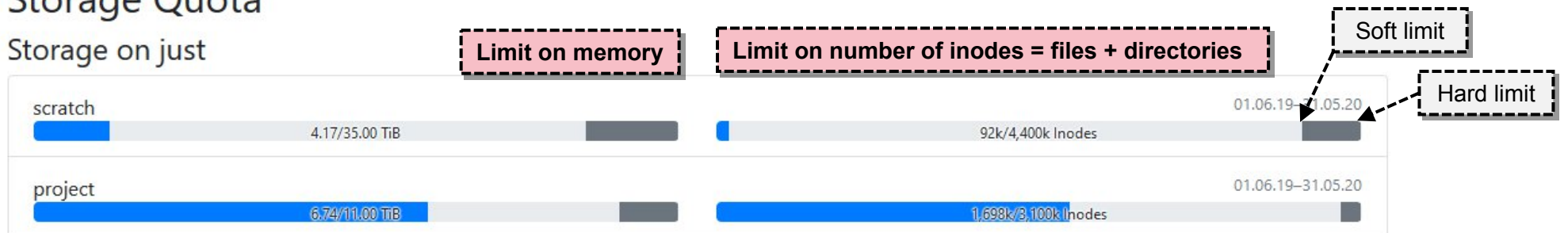
JuDoor quota status

Active Budgets



Storage Quota

Storage on just



Jutil tool & budget monitoring

- The budget can be monitored using the command line tool `jutil` in the terminal
- `jutil` can also be used to activate a specific budget by default for a running shell:

```
# See your projects  
jutil user projects
```

```
# See your compute allocation  
jutil user cpuquota
```

```
# See your disk quota  
jutil user dataquota
```

```
# Activate environment (and optionally default budget) for a given project  
# Sets $PROJECT and $SCRATCH  
jutil env activate -p <project> [-A <budget>]
```

<https://apps.fz-juelich.de/jsc/hps/just/jutil.html>

complementary to providing the budget on a per job basis (using the `--account` or `-A` option in the batch script)

Project quota overview: KontView

Accessible from JuDoor:

Show extended statistics

Show extended statistics for PI/PAs

User view

PI/PA view

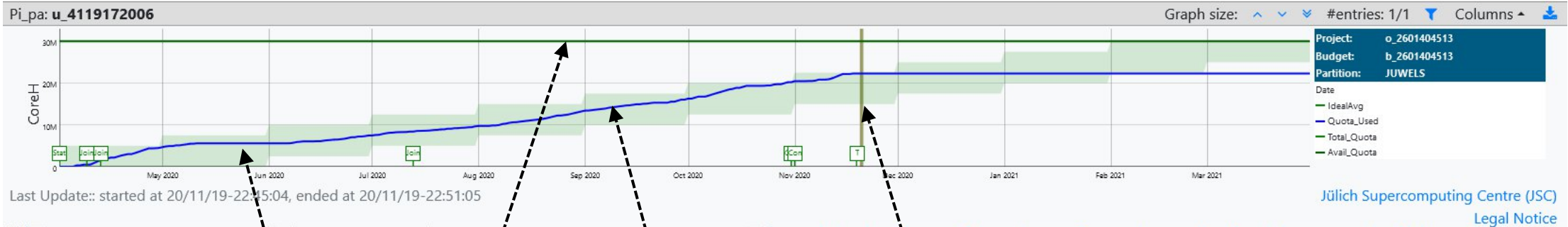


JSC KontView for **Juwels and Jureca** - PI/PA view



Compute Projects Data Projects

Class	Project	Budget	Partition	PI	Mentor	Kind	Status	Start	End	Elapsed %	Coreh used	% of avail.	% of requ.	Coreh ideal	% of ideal	Coreh avail.	Coreh awarded	Coreh requ.	Coreh bonus	Coreh lost	Coreh nocont
											Σ 22286298.00	∅ 74.29	∅ 74.29		∅ 116.37	Σ 30000000.00	Σ 30000000.00	Σ 30000000.00	Σ 0.00	Σ 0.00	Σ 218119.29
pra	o_2601404513	b_2601404513	JUWELS	u_4119172006	u_0325695197	m	A	01.04.20	31.03.21	63.84%	22286298	74.29%	74.29%	19150685	116.37%	30000000	30000000	30000000			218119.29



3-month window

total quota

used quota

now

Project quota overview: KontView

PI/PA view:
display quota per user:

JSC KontView for **Juwels and Jureca** - Quota view

User Info Job Info

Name	Vorname	login	R_CLS	project	budget	hostname	CoreH user	numjobs
n_1164480197	v_1368957785	u_4119172006	pra	o_2601404513	b_2601404513	JUWELS	11182307	80
n_3761323631	v_4014760557	u_2538519557	pra	o_2601404513	b_2601404513	JUWELS	9241735	431
n_2841376739	v_3254141488	u_3494758383	pra	o_2601404513	b_2601404513	JUWELS	1677191	136
n_0025459174	v_1006594725	u_3131446118	pra	o_2601404513	b_2601404513	JUWELS	185065	2
							Σ 22286298.00	Σ 649.00

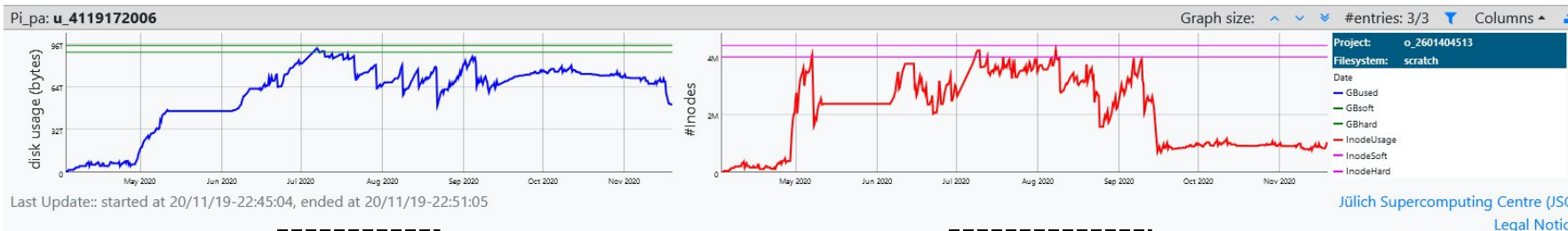


Storage utilization:

JSC KontView for **Juwels and Jureca** - PI/PA view

Compute Projects Data Projects

project	group	storage	filesystem	P_Leiter	Start	Ende	GBused	%ofSoft	GBsoft	GBsoftPerHard	GBhard	InodeUsage	InodeUsagePerCsoft	InodeSoft	InodeUsagePerHard	InodeHard
							Σ 160998.00	Ø 82.49	Σ 209819.00	Ø 75.71	Σ 226705.00	Σ 1037230.00	Ø 9.52	Σ 7100000.00	Ø 8.65	Σ 7810000.00
o_1070008056	o_1070008056	data	largedata	n_1164480197	01.07.2020	30.06.2021	93880	91.68%	102400	83.35%	112640	2396	2.40%	100000	2.18%	110000
o_2601404513	o_2601404513	scratch	scratch	n_1164480197	01.04.2020	31.03.2021	51947	56.37%	92160	53.40%	97280	1000158	25.00%	4000000	22.73%	4400000
o_2601404513	o_2601404513	project	project	n_1164480197	01.04.2020	31.03.2021	15171	99.42%	15259	90.39%	16785	34676	1.16%	3000000	1.05%	3300000




Job monitoring & reports: LLview

JUWELS

Jülich Wizard for European Leadership Science

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JUWELS is a multi-petaflop modular supercomputer operated by Jülich

Supercomputers

- JUWELS**
- User Documentation
- Configuration
- FAQ
- Known Issues
- Job Reporting**
- Modules overview
- Related Organisations

JURECA

JUSUF

Apply for test access

Apply for computing time

Calls for proposals

<https://llview.fz-juelich.de/<system>>

Services / User Support / JSC Software & Tools / LLview

LLview

Access to Job reports for JSC systems

- JUWELS
- JUWELS Booster
- JURECA-DC
- JUSUF
- DEEP

Useful Links

- Job reporting full documentation

LLview

Logindata: JuDoor username & password

Live View

Scheduler overview

Job overviews

JUWELS Booster: Project view

Live Queue Workflows Active jobs Jobs ended today Jobs < 3 weeks

jobid	owner	project	queue	starttime	endtime/lastupd	runtime	#nds	Load/Nd	Mem/Nd	IC MiB/Nd	IC Pck/Nd	FS_GB_Wr	FS_GB_Rd	FS_Moc	state	#err	#errnds	Score	#spls
6531171	user1041	grp242	booster	2023-01-14 20:16	2023-01-14 23:28	3h12m	128	13.07	152.23	12,027.33	5.00	23.70	59,272.89	1.26	COMPLETED			0.88	192
6531170	user1041	grp242	booster	2023-01-14 17:51	2023-01-14 20:15	2h23m	128	13.01	160.89	11,934.44	4.96	239.82	44,298.55	1.15	COMPLETED			0.88	144
6530893	user1002	grp242	booster	2023-01-14 08:47	2023-01-14 09:17	30m	256	4.08	92.13	21.83	0.01		259.59	2.76	TIMEOUT			0.30	30
6530182	user1067	grp242	booster	2023-01-14 05:49	2023-01-14 05:52	3m	256	2.18	97.72	173.10	0.06		6,036.94	2.82	FAILED			0.20	3
6528383	user1002	grp242	booster	2023-01-14 04:00	2023-01-14 07:54	3h53m	4	8.06	152.66	14,738.15	4.76	0.05	1,701.26	3.59	COMPLETED			0.92	294
6527477	user1002	grp242	booster	2023-01-13 18:50	2023-01-13 19:20	30m	256	4.16	117.48	19.50	0.01	0.12	298.13	3.01	TIMEOUT			0.29	30
6527389	user1067	grp242	booster	2023-01-13 09:12	2023-01-13 10:14	1h02m	256	7.20	132.48	12,498.21	4.53	13.42	21,166.54	2.89	FAILED			0.92	62
6527358	user1041	grp242	booster	2023-01-13 20:08	2023-01-14 13:50	17h41m	128	12.96	130.91	11,901.91	4.97	145.55	349,746.02	3.44	FAILED			0.89	1058
6527355	user1041	grp242	booster	2023-01-13 19:22	2023-01-13 21:22	1h59m	128	12.86	102.93	11,913.05	4.96	13.54	55,105.31	1.56	COMPLETED			0.88	120
6526224	user1002	grp242	booster	2023-01-13 04:58	2023-01-13 16:58	12h00m	4	8.10	118.71	14,833.38	4.75	489.84	9,518.59	21.76	TIMEOUT			0.93	719
6526168	user1002	grp242	booster	2023-01-12 21:28	2023-01-12 21:49	21m	256	3.96	143.94	25.52	0.01	0.06	213.10	2.42	TIMEOUT			0.28	21
6525244	user1041	grp242	booster	2023-01-12 16:21	2023-01-12 18:22	2h01m	128	12.83	100.61	11,841.71	4.92	0.32	42,323.51	1.09	COMPLETED	29	29	0.89	121
6525142	user1002	grp242	booster	2023-01-12 15:16	2023-01-12 15:23	7m	128	3.60	263.76	53.93	0.02		94.15	1.08	CANCELLED by 16918			0.12	7
6525141	user1002	grp242	booster	2023-01-12 14:54	2023-01-12 15:14	20m	128	3.81	328.85	119.33	0.04	0.01	99.53	1.06	TIMEOUT			0.22	20
6524385	user1002	grp242	booster	2023-01-12 10:10	2023-01-12 10:21	10m	32	4.40	462.70	4,260.76	1.36	23.84	38.37	0.29	FAILED			0.44	11
6524384	user1002	grp242	booster	2023-01-12 10:10	2023-01-12 10:30	19m	32	6.48	365.85	16,715.20	5.23	21.25	68.03	0.42	TIMEOUT			0.72	20
6524383	user1002	grp242	booster	2023-01-12 10:10	2023-01-12 10:30	19m	32	6.43	346.84	27,818.37	8.85	2.59	35.80	0.22	TIMEOUT			0.72	20
6524382	user1002	grp242	booster	2023-01-12 10:10	2023-01-12 10:30	19m	32	6.34	358.11	38,640.59	12.33	10.80	22.83	0.18	TIMEOUT			0.70	20
6524381	user1002	grp242	booster	2023-01-12 10:02	2023-01-12 10:22	20m	32	5.92	220.76	46,306.66	14.23	0.00	39.05	0.31	TIMEOUT			0.68	20
6524380	user1002	grp242	booster	2023-01-12 09:38	2023-01-12 09:58	20m	32	6.09	325.38	51,353.32	15.81	0.00	33.80	0.36	TIMEOUT			0.69	20
6524379	user1002	grp242	booster	2023-01-12 09:16	2023-01-12 09:36	20m	32	6.09	325.38	51,353.32	15.81	0.00	33.80	0.36	TIMEOUT			0.69	20
6524378	user1002	grp242	booster	2023-01-12 09:16	2023-01-12 09:36	20m	32	6.09	325.38	51,353.32	15.81	0.00	33.80	0.36	TIMEOUT			0.69	20
6524377	user1002	grp242	booster	2023-01-12 09:16	2023-01-12 09:36	20m	32	6.09	325.38	51,353.32	15.81	0.00	33.80	0.36	TIMEOUT			0.69	20

Project: grp242

Usage (%) Jan 14, 2023, 04:17:18 Usage : 86.00 / 94.38 / 100.00

Memory (GiB) Jan 14, 2023, 04:17:18 Memory : 37.98 / 38.01 / 38.05

Power Usage (W) Jan 14, 2023, 04:17:18 Power Usage : 119.58 / 310.60 / 394.65

Temperature (°C) Jan 14, 2023, 04:17:18 Temperature : 60.00 / 62.94 / 67.00

CPU GPU IC FS_all FS_project FS_scratch FS_fastdata FS_home Job: 6528383

Last Database update: 23/01/15-11:33:36 (took 66.84 sec since previous update)

Auto-Reload

Job report (interactive HTML view, or PDF download)

User info

Job info (start, end, nodes)

Avg. load & max. memory

Avg. network traffic

Total I/O traffic

- Column selection:
- FS_all
- FS_by_fs
- GPU
- GPU_max
- final_status
- info
- loadmem
- mentor
- network
- sched
- sched_ext
- score
- timings

Job specific metric history for CPU, GPU, ...

LLview version 2.2.4
April 2024

Job reports

- receive link to job report per email:

```
#!/bin/bash -x
```

```
#SBATCH --mail-type=BEGIN,END,FAIL
```

```
#SBATCH --mail-user=<email>
```

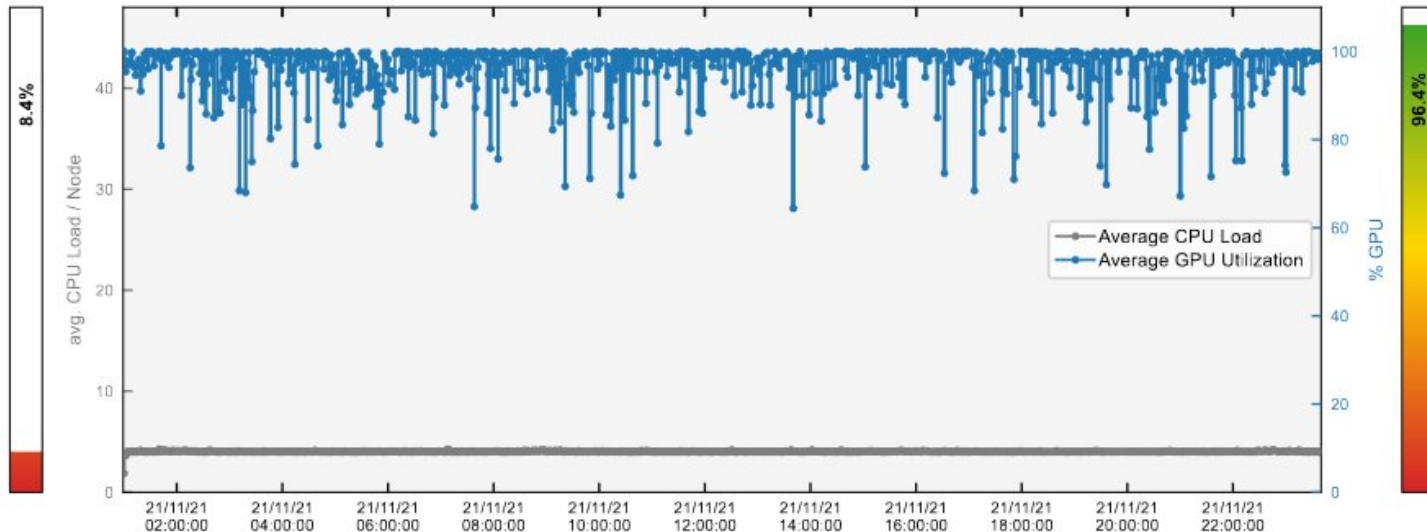
Job Runtime: 22h40m → 94.42% of Wall: 1d00h00m Job Start Time: 2021-11-20 23:58:33 Job Last Timestamp: 2021-11-21 22:38:12 (Running) Current Time: 2021-11-21 22:38:12 Job Endtime (Est.): 2021-11-21 23:58:51		Job Performance Metrics				
Queue: booster Job Size, #Nodes: 1 #Data Points: 1147 Job Size, #GPUs: 4 #Data Points: 901			min.	avg.	max.	
		Load (CPU-Nodes):	1.88	4.02	4.24	
		Memory (CPU-Nodes):	20532.40	26328.19	26384.40 MiB	
		Interconnect Traffic (in):	0.00	12.73	7887.81 MiB/s	
		Interconnect Traffic (out):	0.00	0.08	29.35 MiB/s	
		Interconnect Packets (in):	0	306	2328 pck/s	
		Interconnect Packets (out):	1	76	3658 pck/s	
Job I/O Statistics		Total Data Write	Total Data Read	max. Data Rate/Node Write	max. Data Rate/Node Read	max. Open-Close Rate/Node
\$HOME:		0.00 MiB	0.00 MiB	0.00 MiB/s	0.00 MiB/s	0.00 op./s
\$PROJECT:		0.00 MiB	0.00 MiB	0.00 MiB/s	0.00 MiB/s	0.00 op./s
\$SCRATCH:		0.00 MiB	0.00 MiB	0.00 MiB/s	0.00 MiB/s	0.00 op./s
\$FASTDATA:		0.00 MiB	0.00 MiB	0.00 MiB/s	0.00 MiB/s	0.00 op./s
Job GPU Statistics		avg. GPU Usage: 96.40 %	avg. Mem. Usage Rate: 13.52 %	avg. GPU Temp.: 69.03 °C	avg. GPU Power: 310.22 W	
		max. Clk Stream/Mem: 1410/1215 MHz	max. Mem. Usage: 1738.50 MiB	max. GPU Temp.: 75.00 °C	max. GPU Power: 343.43 W	

This job will use approximately 1 nodes × 48 cores × 24.000 hours = 1152.00 core-h for the specified walltime (up to now: 1087.68)

Average CPU Usage

Job-Usage Overview

Average GPU Usage



- job reports are available for 3 weeks
- job reports can be downloaded as .pdf

Job reports – further job stats

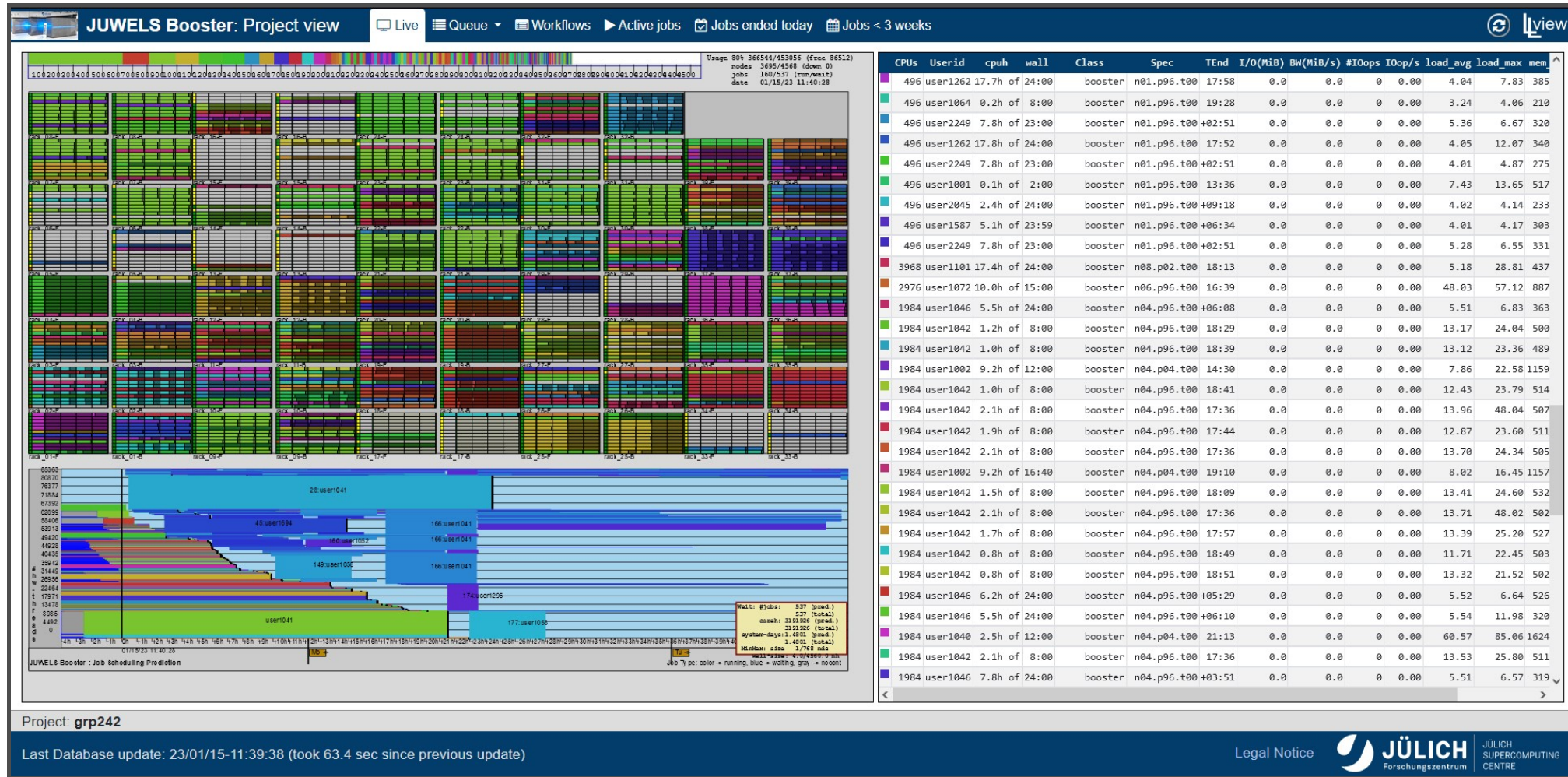
Nodelist

1 jwc07n106 Interconnect group: 88	2 jwc07n107 Interconnect group: 88	3 jwc07n108 Interconnect group: 88	4 jwc07n109 Interconnect group: 88	5 jwc07n110 Interconnect group: 88	6 jwc07n111 Interconnect group: 88	7 jwc07n112 Interconnect group: 88	8 jwc07n113 Interconnect group: 88
9 jwc07n114 Interconnect group: 88		10 jwc07n115 Interconnect group: 88					

Job Finalization Report		
Job State:	FAILED	Job Return Code: 11 Job Signal Number: 0
Timings (Accounting):		
Start Time	2021-11-20 11:25:20	
End Time	2021-11-21 10:25:44	
Wall Time	24.00	
Runtime	23.00 hours	
Step RCs:		
Step: batch	RC: 11	Sig.-Nr: 0
Step: 0	RC: 0	Sig.-Nr: 9
Node System Error Report		
	# Msgs 1	# Nodes 1
<i>Error Messages:</i>		
<pre>2021-11-21T10:25:08+0100 jwc07n112.juwels kernel: ramses3d invoked oom-killer: gfp_mask=0x6280ca(GFP_HIGHUSER_MOVABLE!_GFP_ZERO), order=0, oom_score_adj=0</pre>		

Scheduler overview

- Current usage of system:
 - clickable
 - update 1min
- Mapping of jobs to nodes
- Prediction of system usage using JuFo



JuFo: Simulator for Job Schedulers on HPC Systems, C.Karbach, T.Bauer, JSC

HELP

For *general* questions and inquiries, contact SC support at sc@fz-juelich.de.

- *What is your **user ID**? What is the **project ID**?*
- *Which **system** did you use?*
- *If there was an error, what is the **error message**?*
- *Is the error **reproducible**?*
- *If related to a job, what was the **job ID**?*
- *Which **module environment** did you use?*



For *project specific* questions and inquiries, contact your **Mentor**.