# ALICE-USA Operations Monthly Status for May 2025



## Availability and Reliability Reports ALICE\_CE(Jobs Running) x ALICE\_VOBOX x AliEn::SE(tests)



## Tier-2 Availability and Reliability Report ALICE

May 2025

#### **Federation Details**

Availability Algorithm: @ALICE\_CE \* @ALICE\_VOBOX \* all AliEn-SE

Color coding: N/A <30% <60% <90%

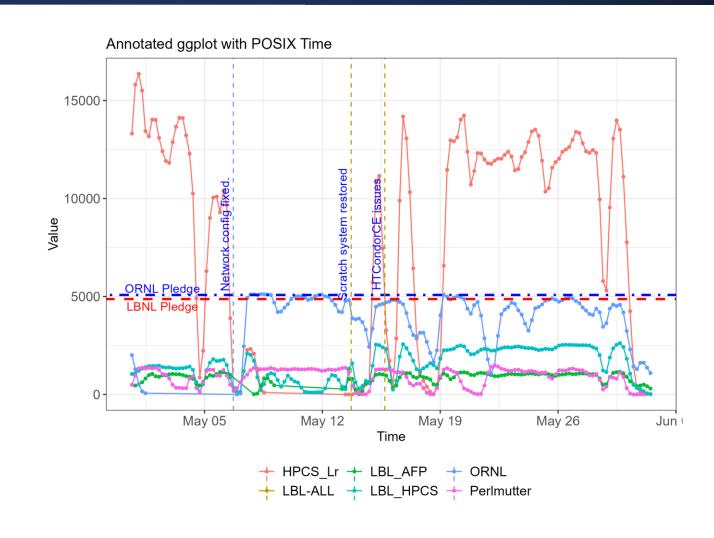
Avail	labil	lity I	HIS	tory
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Federation & Sites	Pledge CPU	Pledge Disk	Availability	Reliability	Unknown	Feb-2025	Mar-2025	Apr-2025
US-LBNL-ALICE	119700	13100						
LBL_HPCS			93%	93%	0%	83%	93%	100%
ORNL			83%	83%	0%	100%	100%	96%

## Job Summary

### • CEs

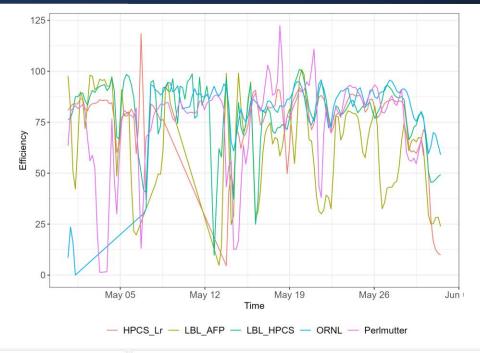
- LBL-HPCS
  - Scratch system problems affected us
- ORNL
  - ACL updates needed network configuration revisit
  - Once proper ports were open we were back on track
- Lawrencium
  - Scratch system problems affected us
- Perlmutter OK
- LBL\_AFP
  - Scratch system problems affected us

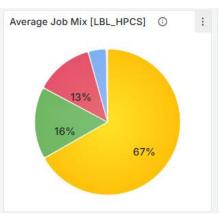


## **CPU Efficiency**

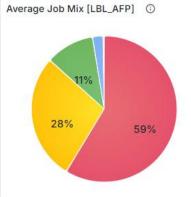
Target Efficiency is... no such thing anymore...

#### Jobs efficiency (cpu time / wall time) Series Last value Min Max Avg 1. HPCS\_Lr 9.973 75.3 238.5 2. LBL AFP 24.19 64.2 169 3. **LBL HPCS** 49.24 79.05 194.9 4. NIHAM 47.01 84.33 116.4 5. ORNL 59.09 81.4 107.7 6. Perlmutter 58.31 74.01 217.7 7. **UPB** 78.42 83.26 112.8

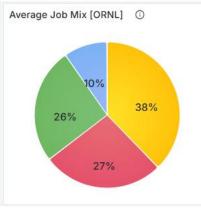




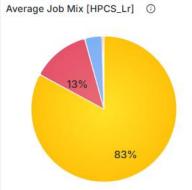
Total

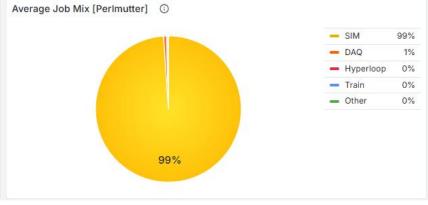


46.6



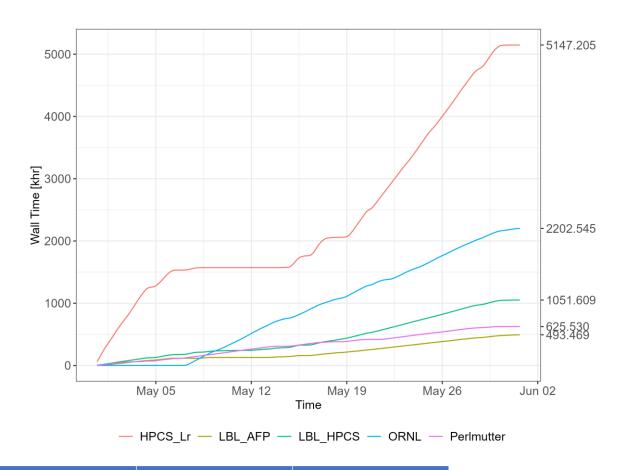
77.37





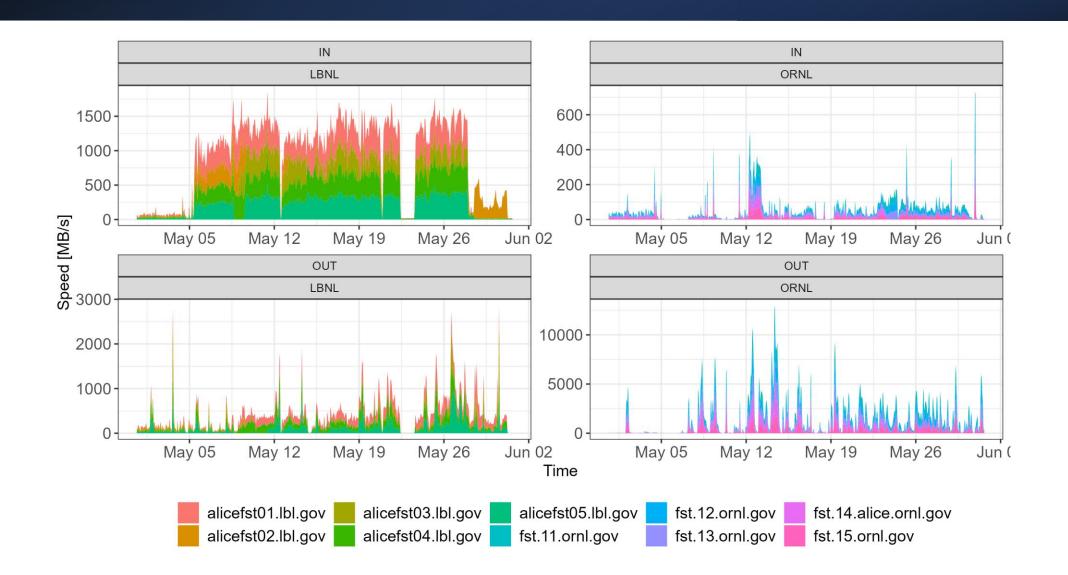
CPU Obligations	kHS23	
ALICE-USA		116.8
LBNL HPCS T2		58.4
ORNL T2		58.4

T2 Site	Monalisa (khr)	WLCG (khr)	%diff
HPCS_Lr	5147.00	24796.00	73.01
LBNL	1051.60		
AFP	493.50		
ORNL	2202.50	2465.50	10.67
Total	8,894.60	27,261.50	67.37



T2 Site and HPCS_Lr	CPU/Core [HS23/Core]	ALICE-USA Obligation [MHS23 x hr]	CPU Delivered [MHS23 x hr] (ML reporter)	CPU Delivered [MHS23 x hr] (WLCG reporter)	Delivered per Obligation [%] (ML reported)	Delivered per Obligation [%] (WLCG reported)
HPCS_Lr	10.0		51.47		118.5	
LBNL	12.0	43.45	12.62	247.96	29.0	570.7
AFP	12.0		5.92		13.6	
ORNL	11.5	43.45	25.33	28.35	58.3	65.3
Total		86.90	95.34	276.31	109.71%	317.97%

## Network Traffic at LBL and ORNL





		Statistic	cs .			
Link name	Data	1	Individual re	sults of writing	g tests	Overall
LINK name	Starts	Ends	Successful	Failed	Success ratio	Availability
LBL_HPCS::AF_EOS	30 Apr 2025 23:43	01 Jun 2025 00:09	740	3	99.60%	99.60%
LBL_HPCS::EOS	30 Apr 2025 23:52	01 Jun 2025 00:23	630	112	84.91%	85.11%
ORNL::CCDB	30 Apr 2025 23:41	01 Jun 2025 00:07	706	37	95.02%	95.07%
ORNL::EOS	30 Apr 2025 23:53	01 Jun 2025 00:18	702	40	94.61%	94.67%



Statistics						
	Data	a	Individual r	esults of readin	g tests	Overall
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability
LBL_HPCS::AF_EOS	30 Apr 2025 23:43	01 Jun 2025 00:09	740	3	99.60%	99.60%
LBL_HPCS::EOS	30 Apr 2025 23:52	31 May 2025 23:27	695	46	93.79%	93.85%
ORNL::CCDB	30 Apr 2025 23:41	01 Jun 2025 00:07	705	38	94.89%	94.93%
ORNL::EOS	30 Apr 2025 23:53	01 Jun 2025 00:18	702	40	94.61%	94.67%

	AliEn SE		r	Catalogue statistics (1024-base u			ase units)		Storage-provided information			mation (	n (1024-base units)	
SE Name	AliEn name	Tier	Size	Used	Free	Usage	No. of files	Туре	Size	Used	Free	Usage	Version	<b>EOS Version</b>
1. LBL_HPCS - AF_EOS	ALICE::LBL_HPCS::AF_EOS	2	1.092 PB	979.5 TB	139.1 TB	87.56%	911,615	5 FILE	1.092 PB	996.3 TB	122.3 TB	89.07%	Xrootd 5.7.1	<u>/</u>
2. LBL_HPCS - EOS	ALICE::LBL_HPCS::EOS	2	6.313 PB	4.384 PB	1.929 PB	69.45%	81,440,933	3 FILE	6.295 PB	4.387 PB	1.907 PB	69.7%	Xrootd 5.7.1	5.2.31
3. ORNL - CCDB	ALICE::ORNL::CCDB	. 2	100 TB	6.584 TB	93.42 TB	6.584%	17,930,763	3 FILE				-'	Xrootd 5.8.2	<b>▲</b>
4. ORNL - EOS	ALICE::ORNL::EOS	2	6.586 PB	4.852 PB	1.734 PB	73.67%	64,458,097	7 FILE	6.586 PB	4.94 PB	1.646 PB	75%	Xrootd 5.8.2	5.3.12
Total			14.09 PB	10.2 PB	3.89 PB		164,741,408		13.97 PB	10.3 PB	3.673 PB			

### **EOS: Success Ratio**

- Whenever this happens mgm restart seems to help
- Looks like at least two fsts at LBL are affected



		Averaged metr	ics for the selec	cted interval		
SE Name	Start	End	Success ratio	Corrupt ratio	Inaccessible ratio	Internal error ratio
CERN::EOS	01 May 2025 05:25	31 May 2025 21:09	99.26 %	0.43 %	0.28 %	0.03 %
LBL_HPCS::EOS	30 Apr 2025 23:19	31 May 2025 20:48	58.21 %	0.38 %	41.41 %	0.00 %
ORNL::EOS	30 Apr 2025 23:19	31 May 2025 21:20	92.30 %	0.08 %	7.61 %	0.01 %



Averaged metrics for the selected interval							
SE Name	Start	End	Success ratio	Corrupt ratio	Inaccessible ratio	Internal error ratio	
CERN::EOS	12 Jun 2025 22:35	19 Jun 2025 17:22	99.79 %	0.01 %	0.19 %	0.01 %	
LBL_HPCS::EOS	12 Jun 2025 22:37	19 Jun 2025 16:49	55.38 %	0.25 %	44.37 %	0.00 %	
ORNL::EOS	12 Jun 2025 22:39	19 Jun 2025 11:17	86.07 %	0.07 %	13.82 %	0.03 %	

## Site Status Dashboard

Site name	VOBox and SE problems
HPCS_Lr lrc-vobox.lbl.gov	Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.11.5), please upgrade to 2.12.7.
ORNL vobox.alice.ornl.gov	Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.11.5), please upgrade to 2.12.7. ALICE::ORNL::TEMP: ADD test fails since 31 Oct 2019 12:57 (for 5y 202d).
LBL_HPCS alice-vobox.lbl.gov	ALICE::LBL_HPCS::EOS redirector ALICE::LBL_HPCS::EOS doesn't see all nodes, only 5.108 PB out of 6.313 PB total space is connected Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.11.5), please upgrade to 2.12.7.
LBL_AFP alice-afp.lbl.gov	Networking: too large buffer size kernel parameters: tcp_wmem_max=64 MB Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.11.5), please upgrade to 2.12.7.
Perlmutter alice-sfapi.lbl.gov	Networking: low buffer size kernel parameters: tcp_wmem_max=4 MB only Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.10.0), please upgrade to 2.12.7.
5 sites	14 issues

## Last Month

## This month

Site name	VOBox and SE problems
HPCS_Lr lrc-vobox.lbl.gov	Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.11.5), please upgrade to 2.13.0.
ORNL vobox.alice.ornl.gov	Networking: No IPv6 public address  CVMFS: old CVMFS version detected (2.12.6), please upgrade to 2.13.0.  ALICE::ORNL::PRF_EOS: ADD test fails since 21 Jan 2025 16:46 (for 149d 1:42).
LBL_HPCS alice-vobox.lbl.gov	Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.11.5), please upgrade to 2.13.0.
Perimutter alice-sfapi.lbl.gov	Networking: low buffer size kernel parameters: tcp_wmem_max=4 MB only Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.10.0), please upgrade to 2.13.0.
LBL_AFP alice-afp.lbl.gov	Networking: too large buffer size kernel parameters: tcp_wmem_max=64 MB Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.11.5), please upgrade to 2.13.0.