# ALICE-USA Operations Monthly Status for October 2025



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



#### Tier-2 Availability and Reliability Report ALICE

October 2025

Availability History

#### **Federation Details**

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

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

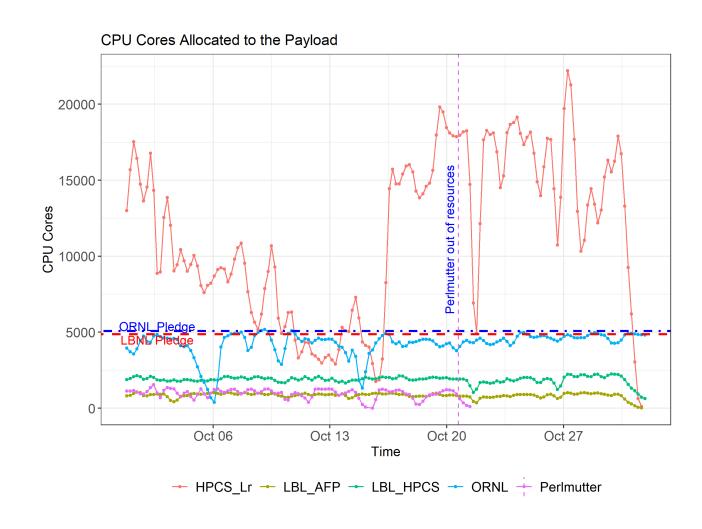
							Availabi	illy History
Federation & Sites	Pledge CPU	Pledge Disk	Availability	Reliability	Unknown	Jul-2025	Aug-2025	Sep-2025
US-LBNL-ALICE	119700	13100						
LBL_HPCS			100%	100%	0%	100%	68%	60%
ORNL			100%	100%	0%	97%	94%	98%

#### Job Summary

- CEs
  - LBL-HPCS OK
  - ORNL OK
    - Some job cancellation is back (investigating)
  - Lawrencium OK
    - Just improvement after memory cleanup on the nodes

- Perlmutter OK
  - Ran out of resources and was turned off

• LBL\_AFP - OK

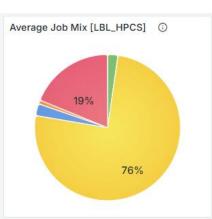


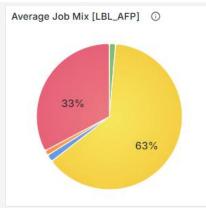
#### **CPU Efficiency**

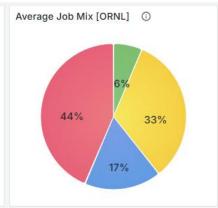
Target Efficiency is... no such thing anymore...

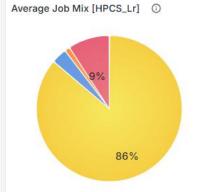
	Jobs efficiency (cpu time / wall time)							
	Series	Last value	Min	Avg	Max			
1.	HPCS_Lr	46.48	0	72.92	105.4			
2.	LBL_AFP	68.24	4.383	86.32	131.9			
3.	■ LBL_HPCS	40.75	0	84.43	142			
4.	NIHAM	70.92	0	80.15	107.5			
5.	ORNL	64.53	1.837	89.98	125.4			
6.	Perlmutter	37.72	0.019	70.32	123.9			
7.	<b>■</b> UPB	88.11	0	96.47	130.4			
	Total	59.53		82.94				

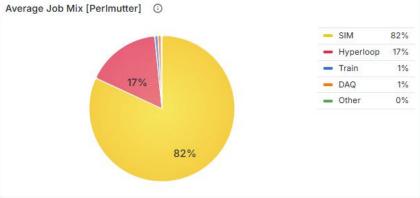






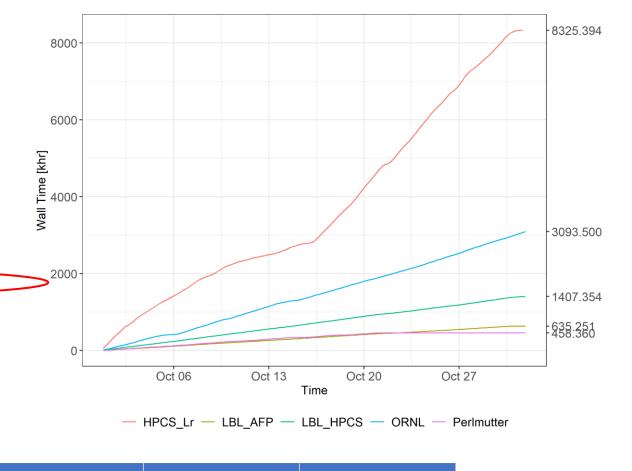






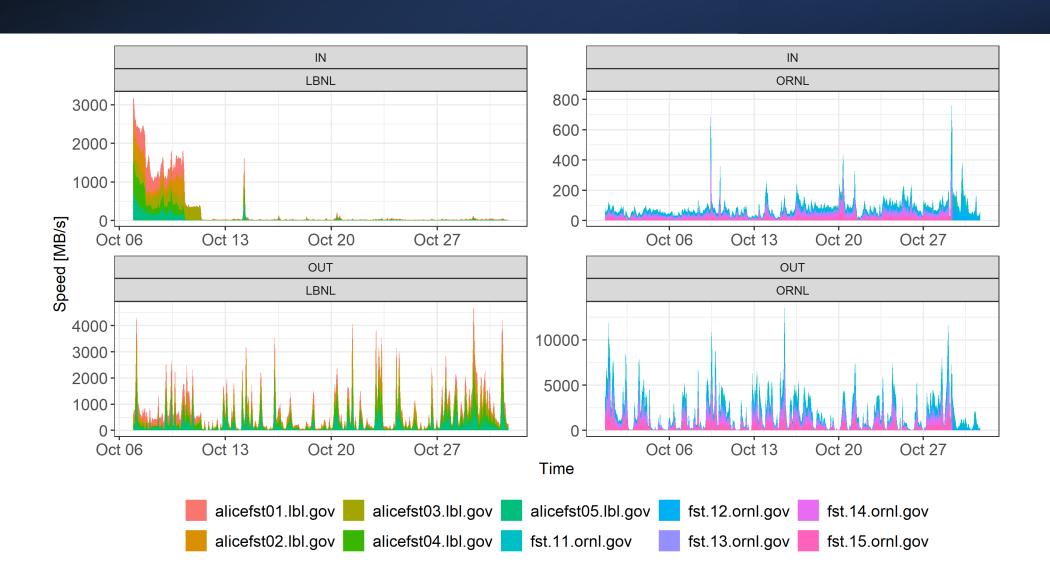
CPU Obligations	kHS23
ALICE-USA	116.8
LBNL HPCS T2	58.4
ORNL T2	58.4

T2 Site	Monalisa (khr)	WLCG (khr)	%diff
HPCS_L	2098.90	538.00	-355.63
LBNL	240.40		
AFP	112.00		
ORNL	2360.60	3000.00	21.31
Total	4,811.90	3,538.00	(36.01)



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		20.99		118.6	
LBNL	12.0	17.70	2.88	5.38	16.3	30.4
AFP	12.0		1.34		7.6	
ORNL	11.5	42.05	27.15	34.50	64.6	82.0
Total		59.74	52.36	39.88	87.65%	66.75%

#### Network Traffic at LBL and ORNL LBNL was down for power work and there was no data traffic





Statistics							
Data Individual results of writing tests							
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability	
LBL_HPCS::AF2_EOS	03 Oct 2025 23:07	31 Oct 2025 23:04	668	9	98.67%	98.67%	
I LBL_HPCS::EOS	30 Sep 2025 23:41	31 Oct 2025 23:10	749	0	100%	100%	
ORNL::CCDB	01 Oct 2025 00:30	31 Oct 2025 22:59	747	2	99.73%	99.74%	
ORNL::EOS	30 Sep 2025 23:42	31 Oct 2025 23:11	748	1	99.87%	99.87%	



Statistics							
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	AliEn SE			Catalogue statistics (1024-base units)					Storage-provided information (1024-base units)				ts)			
SE Name	AliEn name	Tier	Size	Used	Free	Usage	No. o	of files	Туре	Si	ze	Used	Free	Usage	Version	EOS Version
1. LBL_HPCS - EOS	ALICE::LBL_HPCS::EOS	2	6.313 PE	5.55 PE	781	TB 87.92°	% 92	,095,541	FILE	7.3	369 PB	6.469 PB	922.1 TB	87.78%	Xrootd 5.7.1	5.2.31
2. ORNL - EOS	ALICE::ORNL::EOS	2	6.586 PE	6.1 PE	497.5	TB 92.62°	% 70	,440,745	FILE	5.2	275 PB	4.964 PB	318.6 TB	94.1%	Xrootd 5.8.3	5.3.15
Total			12.9 PB	11.65 PB	1.248 P	B 90.32%	6 162,5	536,286		12.6	54 PB	11.43 PB	1.212 PB	90.42%		
1. LBL_HPCS - AF2_I	EOS ALICE::LBL_HPCS:	:AF2_E	OS 2	1.083 PB	915.9 TB	193.6 TB	82.55%	1,354	4,301	FILE	1.2 PE	915.9 TB	312.9 TE	74.53%	Xrootd 5.7.1	1
2. ORNL - CCDB	ALICE::ORI	NL::C	CDB 2	100 TB	8.162 TB	91.84 TB	8.162%	21,625	5,904	FILE		-		-	Xrootd 5.8.3	3
Total				1.181 PB	924 TB	285.5 TB	76.4%	22,980,	,205		1.2 PB	915.9 TB	312.9 TB	74.53%		

#### **EOS: Success Ratio**

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



Averaged metrics for the selected interval							
SE Name	Start	End	Success ratio	Corrupt ratio	Inaccessible ratio	Internal error ratio	
CERN::EOS	01 Oct 2025 04:01	31 Oct 2025 19:42	99.66 %	0.02 %	0.30 %	0.02 %	
LBL_HPCS::EOS	01 Oct 2025 04:03	31 Oct 2025 19:33	96.69 %	0.51 %	2.80 %	0.00 %	
ORNL::EOS	01 Oct 2025 04:03	31 Oct 2025 19:34	92.73 %	0.13 %	7.13 %	0.00 %	

### Site Status Dashboard

Site Comma-se	parated list of site name VOBox and SE problems	Remarks					
HPCS_Lr Irc-vobox.lbl.gov	prefixes ublic address  CVMFS: old CVMFS version detected (2.11.5), please upgrade to 2.13.2.	Last month average job efficiency was 69% .					
ORNL vobox-alice.ornl.gev	The trong in the dad cost Edebrotebarior of the cost and cost Edebrotebarior of the cost and						
LBL_HPCS alice-vobox.lbl.gov	The contract of the contract o						
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 2.13.2.	Last month average job efficiency was 65% .					
LBL_AFP alice-afp.lbl.gov	Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.11.5), please upgrade to 2.13.2.	Last month average job efficiency was 80% .					
5 sites	10 issues	0 remarks					

#### **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 2.13.3.
ORNL vobox-alice.ornl.gov	ALICE::ORNL::EOS redirector ALICE::ORNL::EOS doesn't see all nodes, only 5.275 PB out of 6.586 PB total space is connected CVMFS: old CVMFS version detected (2.13.2), please upgrade to 2.13.3.
LBL_HPCS alice-vobox.lbl.gov	Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.11.5), please upgrade to 2.13.3.
LBL_AFP alice-afp.lbl.gov	Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.11.5), please upgrade to 2.13.3.
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 2.13.3.
5 sites	11 issues