ALICE-USA Operations Monthly Status for September 2025



Availability and Reliability Reports ALICE_CE(Jobs Running) x ALICE_VOBOX x AliEn::SE(tests)



Tier-2 Availability and Reliability Report ALICE

September 2025

Availability History

Federation Details

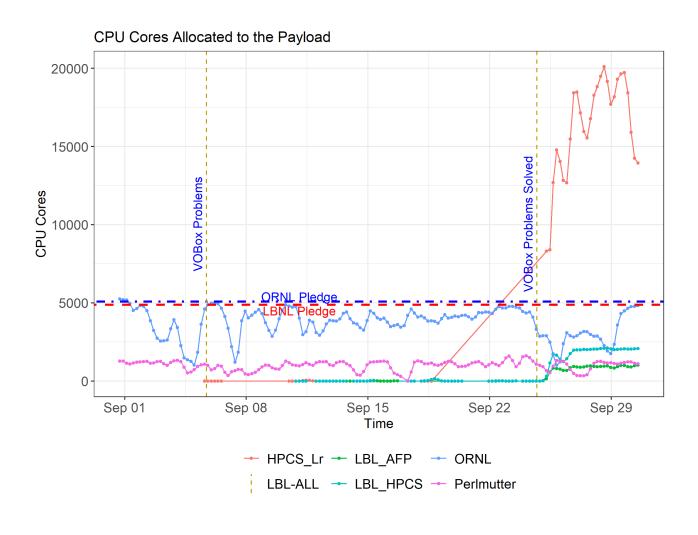
Availability Algorithm: @ALICE_CE * @ALICE_VOBOX * all AliEn-SE

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

							A Callabi	,,
Federation & Sites	Pledge CPU	Pledge Disk	Availability	Reliability	Unknown	Jun-2025	Jul-2025	Aug-2025
US-LBNL-ALICE	119700	13100						
LBL_HPCS			60%	97%	0%	84%	100%	68%
ORNL			98%	98%	0%	98%	97%	94%

Job Summary

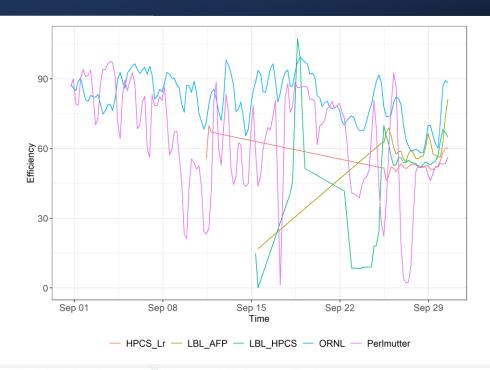
- Ces
 - LBL-ALL
 - After we came back from the downtime, jobs were not starting
 - Problem was tracked to whole-node not getting the entire RAM
 - SLURM flag was adjusted to get the entire node memory
 - LBL-HPCS OK
 - ORNL OK
 - Strange behaviour of condor, cancelling some jobs. But it is only cancelling pilots and only sometimes, so overall performance is stable
 - SOLVED for the requeuing of PeriodicRemove
 - Strange requeuing after restarts...
 - Lawrencium OK
 - Perlmutter OK
 - Daily removal of work dirs is necessary
 - Woking on native work dir cleanup
 - LBL_AFP OK

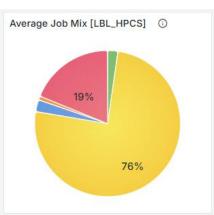


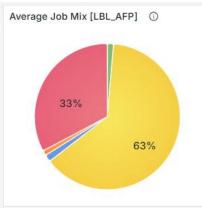
CPU Efficiency

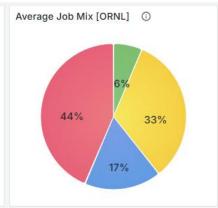
Target Efficiency is... no such thing anymore...

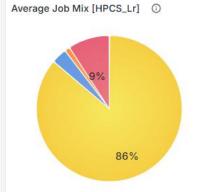
	Jobs efficiency (cpu time / wall time)									
	Series	Last value	Min	Avg	Max					
1.	Hiroshima	75.71	0.151	70.37	127.7					
2.	HPCS_Lr	60.69	1.152	53.75	662.1					
3.	■ LBL_AFP	83.47	1.183	59.56	217.1					
4.	■ LBL_HPCS	64.9	0.008	46.52	317.6					
5.	NIHAM	68.78	26.36	75.49	108.7					
6.	ORNL	88.6	13.26	81.7	120.6					
7.	■ UPB	90.4	6.826	90.39	150.3					
	Total	76.08		68.25						

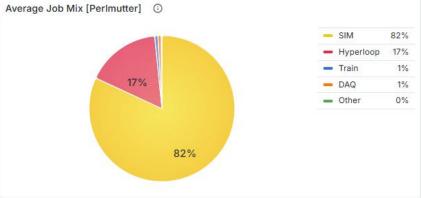






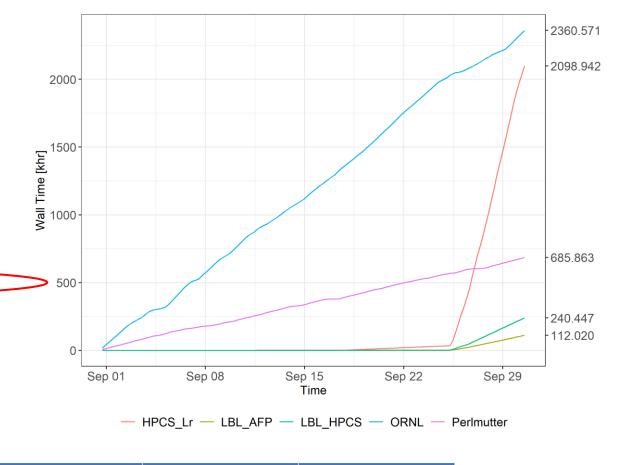






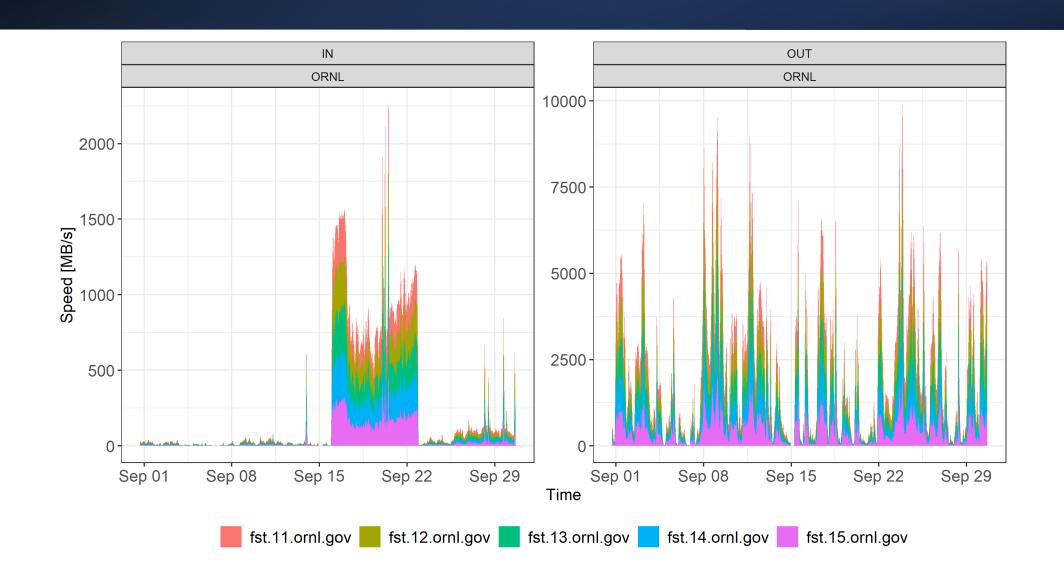
CPU		
Obligations	kHS23	
ALICE-USA	116.8	3
LBNL HPCS T2	58.4	1
ORNL T2	58.4	1

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									
Link name	Data	1	Individual re	esults of writing	j tests	Overall			
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability			
LBL_HPCS::AF_EOS	31 Aug 2025 23:36	30 Sep 2025 23:32	670	68	90.79%	90.87%			
LBL_HPCS::EOS	31 Aug 2025 23:45	30 Sep 2025 23:41	510	224	69.48%	69.35%			
ORNL::CCDB	31 Aug 2025 23:34	30 Sep 2025 23:30	709	34	95.42%	95.54%			
ORNL::EOS	31 Aug 2025 23:46	30 Sep 2025 23:42	694	40	94.55%	94.79%			



Statistics									
1 to 1	results of readin	g tests	Overall						
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability			
LBL_HPCS::AF_EOS	31 Aug 2025 23:36	30 Sep 2025 23:32	727	1	99.86%	99.88%			
LBL_HPCS::EOS	31 Aug 2025 23:45	30 Sep 2025 23:41	699	25	96.55%	96.54%			
ORNL::CCDB	31 Aug 2025 23:34	30 Sep 2025 23:30	720	12	98.36%	98.33%			
ORNL::EOS	31 Aug 2025 23:46	30 Sep 2025 23:42	712	12	98.34%	98.35%			

/	AliEn SE		Catalogue statistics (1024-base units)			Storage-provided information (1024-base units)				nits)				
SE Name	AliEn name	Tier	Size	Used				Туре		Used		Usage		EOS Version
1. LBL_HPCS - AF2_EOS	ALICE::LBL_HPCS::AF2_EOS	2	1.083 PB	896.1 TB	213.4 TB	80.76%	1,010,269	FILE	1.2 PB	896.2 TB	332.6 TB	72.93%	Xrootd 5.7.1	<u> </u>
2. LBL_HPCS - AF_EOS	ALICE::LBL_HPCS::AF_EOS	2	1.092 PB	8.977 GB	1.092 PB	0.001%	30	FILE	1.083 PB	39.3 TB	1.045 PB	3.543%	Xrootd 5.7.1	1
3. LBL_HPCS - EOS	ALICE::LBL_HPCS::EOS	2	6.313 PB	5.071 PB	1.242 PB	80.33%	88,530,128	FILE	6.295 PB	5.935 PB	367.9 TB	94.29%	Xrootd 5.7.1	5.2.31
4. ORNL - CCDB	ALICE::ORNL::CCDB	2	100 TB	7.863 TB	92.14 TB	7.863%	20,949,373	3 FILE	<u>-</u>		_'		Xrootd 5.8.3	
5. ORNL - EOS	ALICE::ORNL::EOS	2	6.586 PB	5.782 PB	823.3 TB	87.79%	69,917,920	FILE	6.586 PB	5.844 PB	759.6 TB	88.74%	Xrootd 5.8.3	5.3.15
Total			15.17 PB	11.74 PB	3.436 PB		180,407,720	4	15.16 PB	12.69 PB	2.471 PB			

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 Sep 2025 03:45	30 Sep 2025 21:52	99.80 %	0.05 %	0.13 %	0.03 %		
LBL_HPCS::EOS	31 Aug 2025 15:21	30 Sep 2025 21:53	94.68 %	0.51 %	3.30 %	1.52 %		
ORNL::EOS	01 Sep 2025 03:47	30 Sep 2025 22:20	96.55 %	0.17 %	3.28 %	0.01 %		

Site Status Dashboard

Site name	VOBox and SE problems
HPCS_Lr lrc-vobox.lbl.gov	Networking: No IPv6 public address
LBL_HPCS alice-vobox.lbl.gov	Networking: No IPv6 public address
LBL_AFP alice-afp.lbl.gov	Networking: too large buffer size kernel parameters: tcp_wmem_max=64 MB Networking: No IPv6 public address
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 2.11.5.
4 sites	7 issues

Last Month

This month

Site Comma	a-separated list of site name	VOBox and SE problems	Remarks				
HPCS_Lr lrc-vobox.lbl.gov		ublic address sion detected (2.11.5), please upgrade to 2.13.2.	Last month average job efficiency was 69% .				
ORNL vobox-alice.ornl.gov	Treatment I To dear cost Education Total						
LBL_HPCS alice-vobox.lbl.gov	There is the control of the control						
Perlmutter alice-sfapi.lbl.gov	Networking: low buffer Networking: No IPv6 p CVMFS: old CVMFS ver	Last month average job efficiency was 65% .					
LBL_AFP alice-afp.lbl.gov	Networking: No IPv6 p CVMFS: old CVMFS ver	Last month average job efficiency was 80% .					
5 sites		10 issues	0 remarks				