ALICE-USA Operations Monthly Status for July 2025



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



Tier-2 Availability and Reliability Report ALICE

July 2025

Federation Details

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

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

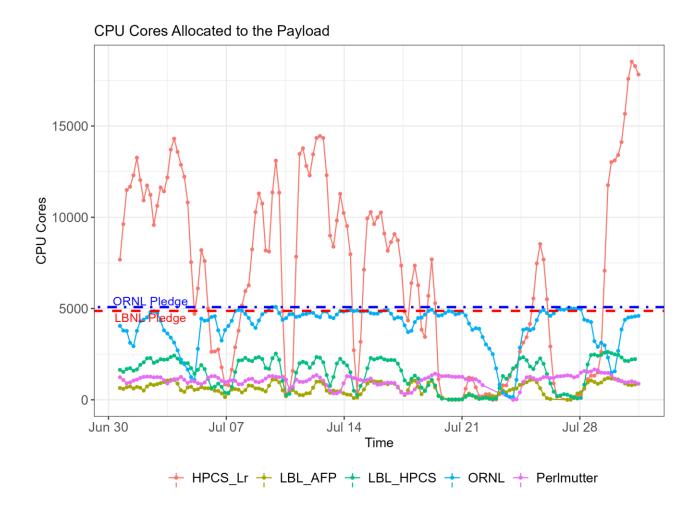
Ava	ailabi	ility	Histo	ry

Federation & Sites	Pledge CPU	Pledge Disk	Availability	Reliability	Unknown	Apr-2025	May-2025	Jun-2025
US-LBNL-ALICE	119700	13100						
LBL_HPCS			100%	100%	0%	100%	93%	84%
ORNL			97%	97%	0%	96%	83%	98%

Job Summary

• CEs

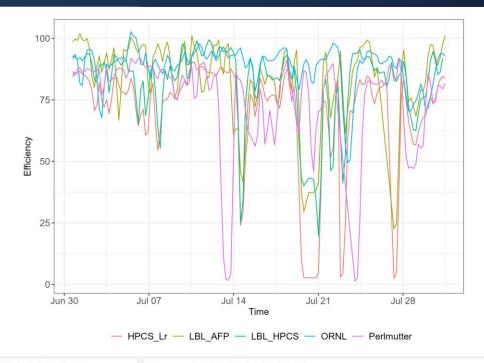
- LBL-HPCS
 - Scratch system problems affected us SOLVED
 - Strange condor-ce problem with querying wrong schedd -SOLVED
- ORNL OK
 - Strange behaviour of condor, cancelling some jobs. But it is only cancelling pilots and only sometimes, so overall performance is stable
 - Work in progress with improvements
- Lawrencium
 - Scratch system problems affected us SOLVED
 - Strange condor-ce problem with querying wrong schedd -SOLVED
- Perlmutter
 - A lot of job failures.
 - NERSC suspects bug in Luster, but we need to look into it and understand
 - solved
- LBL AFP
 - Scratch system problems affected us SOLVED
 - Strange condor-ce problem with querying wrong schedd SOLVED.

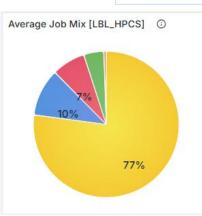


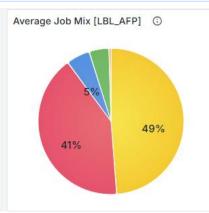
CPU Efficiency

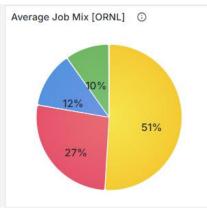
Target Efficiency is... no such thing anymore...

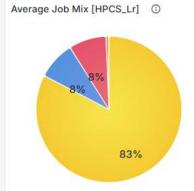
	Jobs efficiency (cpu time / wall time)									
	Series	Last value	Min	Avg	Max					
1.	HPCS_Lr	83.91	0.851	69.9	127.7					
2.	■ LBL_AFP	100.9	0	83	180.7					
3.	■ LBL_HPCS	91.68	0.084	81.6	199.8					
4.	NIHAM	84.03	0	86.08	109.3					
5.	ORNL	92.29	0.007	88.48	131					
6.	Perlmutter	82.53	0.648	75.06	245.8					
7.	■ UPB	81.68	10.76	84.82	108.2					
	Total	88.15		81.28						

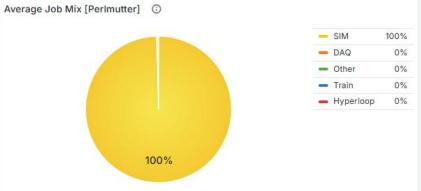






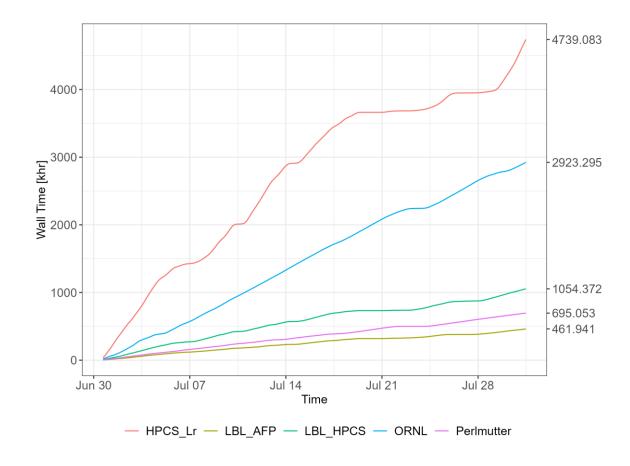






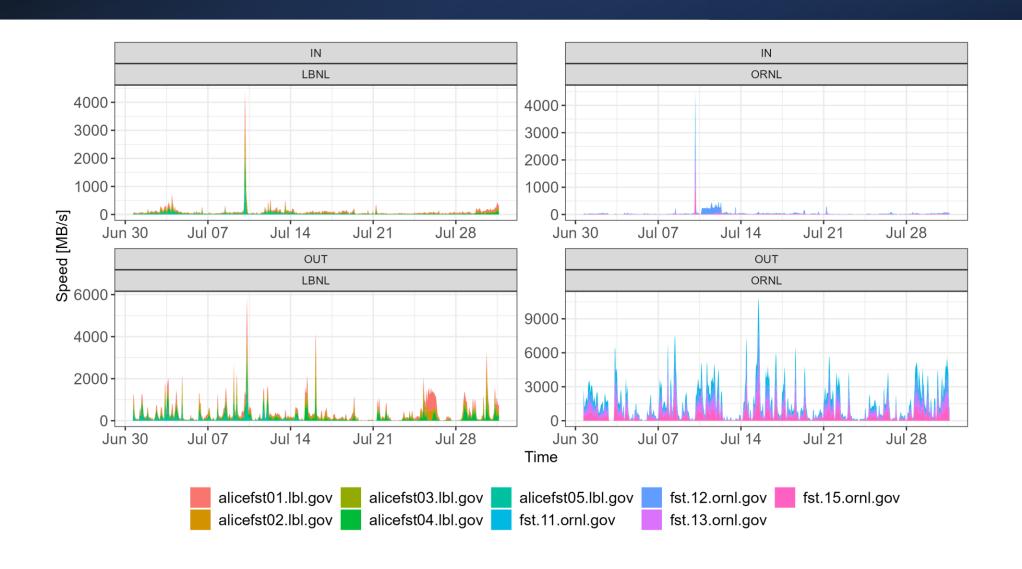
CPU Obligations	kHS23	
ALICE-USA		116.8
LBNL HPCS T2		58.4
ORNL T2		58.4

T2 Site	Monalisa (khr)	WLCG (khr)	%diff
HPCS_Lr	4739.00	12100.00	48.31
LBNL	1054.00		
AFP	462.00		
ORNL	2923.00	3260.00	10.34
Total	9,178.00	15,360.00	40.25



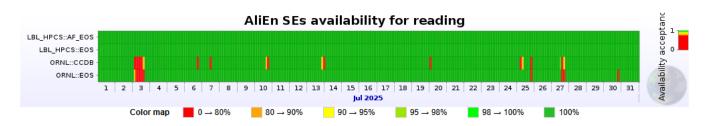
T2 Site and HPCS_Lr	CPU/Core [HS23/Core]	ALICE-USA Obligation [MHS23 x hr]	CPU Delivered [MHS23 x hr] (ML reporter)	CPU Delivered [MHS23 x hr] (WLCG reporter)	Delivered per Obligation [%] (ML reported)	Delivered per Obligation [%] (WLCG reported)
HPCS_Lr	10.0		47.39		109.1	
LBNL	12.0	43.45	12.65	121.00	29.1	278.5
AFP	12.0		5.54		12.8	
ORNL	11.5	43.45	33.61	37.49	77.4	86.3
Total		86.90	99.20	158.49	114.15%	182.38%

Network Traffic at LBL and ORNL





Statistics										
Data Individual results of writing tests						Overall				
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability				
LBL_HPCS::AF_EOS	30 Jun 2025 23:57	01 Aug 2025 00:10	747	0	100%	100%				
I LBL_HPCS::EOS	01 Jul 2025 00:06	01 Aug 2025 00:19	747	0	100%	100%				
ORNL::CCDB	30 Jun 2025 23:55	01 Aug 2025 00:08	732	15	97.99%	98%				
ORNL::EOS	01 Jul 2025 00:06	01 Aug 2025 00:19	731	16	97.86%	97.87%				



Statistics								
Link name	Data	Individual re	sults of readin	g tests	Overall			
Link nume	Starts	Ends	Successful	Failed	Success ratio	Availabilit		
LBL_HPCS::AF_EOS	30 Jun 2025 23:57	01 Aug 2025 00:10	747	0	100%	100%		
LBL_HPCS::EOS	01 Jul 2025 00:06	01 Aug 2025 00:19	747	0	100%	100%		
ORNL::CCDB	30 Jun 2025 23:55	01 Aug 2025 00:08	726	21	97.19%	97.209		
ORNL::EOS	01 Jul 2025 00:06	01 Aug 2025 00:20	731	16	97.86%	97.87%		

	AliEn SE		(Catalogue statistics (1024-base units)				Storage-provided information (1024-base units)				nits)		
SE Name	AliEn name	Tier	Size	Used	Free	Usage	No. of files	Туре	Size	Used	Free	Usage	Version	EOS Version
1. LBL_HPCS - AF_EOS	ALICE::LBL_HPCS::AF_EOS	2	1.092 PB	887.9 TB	230.7 TB	79.38%	858,461	FILE	1.075 PB	889.7 TB	210.8 TB	80.84%	Xrootd 5.7.1	
2. LBL_HPCS - EOS	ALICE::LBL_HPCS::EOS	2	6.313 PB	4.76 PB	1.552 PB	75.41%	86,043,442	FILE	6.295 PB	4.752 PB	1.543 PB	75.49%	Xrootd 5.7.1	5.2.31
3. ORNL - CCDB	ALICE::ORNL::CCDB	2	100 TB	7.243 TB	92.76 TB	7.243%	19,197,233	FILE	-	-	-	_	Xrootd 5.8.3	
4. ORNL - EOS	ALICE::ORNL::EOS	2	6.586 PB	5.245 PB	1.341 PB	79.63%	65,780,329	FILE	6.586 PB	5.305 PB	1.281 PB	80.55%	Xrootd 5.8.3	5.3.15
Total			14.09 PB	10.88 PB	3.21 PB		171,879,465		13.96 PB	10.93 PB	3.03 PB			

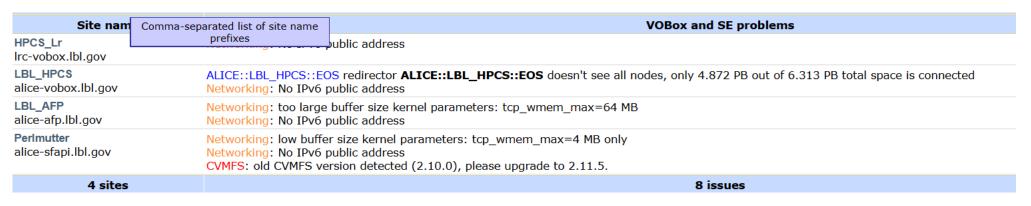
EOS: Success Ratio

- 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 Jul 2025 05:21	31 Jul 2025 21:40	99.83 %	0.02 %	0.12 %	0.03 %			
LBL_HPCS::EOS	01 Jul 2025 05:22	31 Jul 2025 21:34	85.27 %	0.67 %	13.98 %	0.08 %			
ORNL::EOS	01 Jul 2025 05:22	31 Jul 2025 21:42	94.90 %	0.08 %	5.01 %	0.01 %			

Site Status Dashboard



Last Month

This month

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
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 2.11.5.
4 sites	7 issues