ALICE-USA Operations Monthly Status for June 2024



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



Tier-2 Availability and Reliability Report ALICE

June 2024

Federation Details

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

Color coding:

Α

<30%

<60%

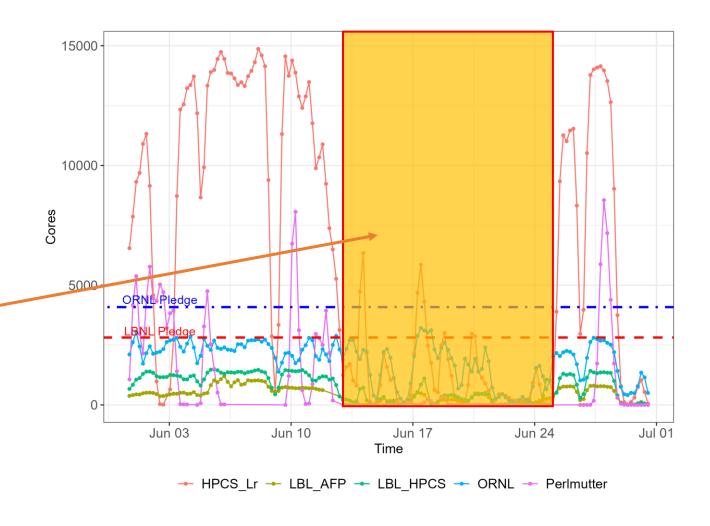
>=90%

Availability History

Federation & Sites	Pledge CPL	Pledge Disk	Availability	Reliability	Unknown	Mar-2024	Apr-2024	May-2024
US-LBNL-ALICE	100900	10900						
LBL_HPCS			100%	100%	0%	100%	95%	92%
ORNL			89%	89%	0%	99%	92%	98%

Job Summary

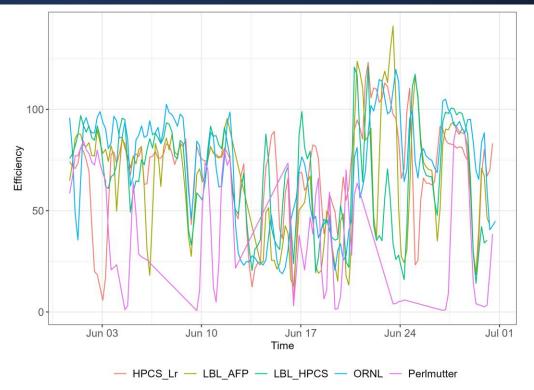
- Total number of jobs
 - Simulation load went down again after some period of increased running
 - Perlmutter load is a good indication of MC jobs, as we only run MC on it
- CEs
 - LBL-HPCS
 - · Rocky8 update came with some problems
 - Needed to be rebuilt with the latest kernel otherwise root.exe process was hanging and draining the node
 - ORNL OK
 - Lawrencium OK
 - Perlmutter OK
 - LBL_AFP OK

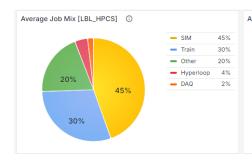


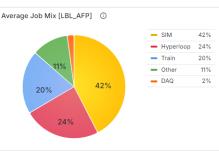
CPU Efficiency

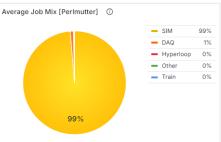
Target Efficiency is... no such thing anymore...

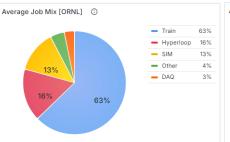
Jobs efficiency (cpu time / wall time) Series Last value Min Avg Max 1. HPCS_Lr 84.91 69.03 201.8 2. **LBL_AFP** 43.76 65.56 207 3. LBL HPCS 36.41 0.024 66.46 204.5 4. NIHAM 76.74 63.69 205.9 7.056 5. ORNL 41.55 1.84 71.1 149.8 6. Perlmutter 39.73 0.013 40.78 201.6 7. UPB 84.01 6.199 75.76 200.5 **Total** 64.62 58.16

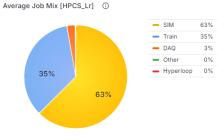






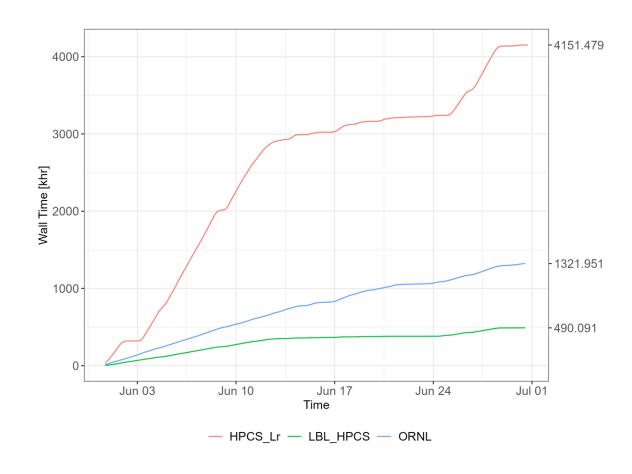






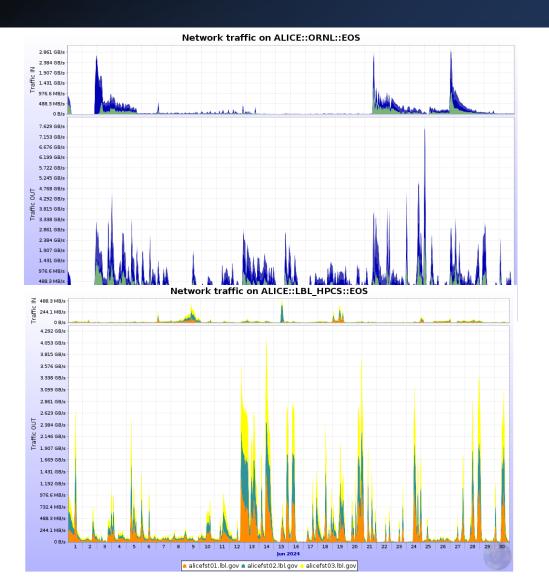
CPU Obligations	kHS06
ALICE-USA	100.9
LBNL HPCS T2	50.45
ORNL T2	50.45

T2 Site	Monalisa (khr)	WLCG (khr)	%diff
HPCS_Lr	4151.50	7530.00	38.36
LBNL	490.10		
ORNL	1321.95	2200.00	39.91
Total	5,963.55	9,730.00	38.71

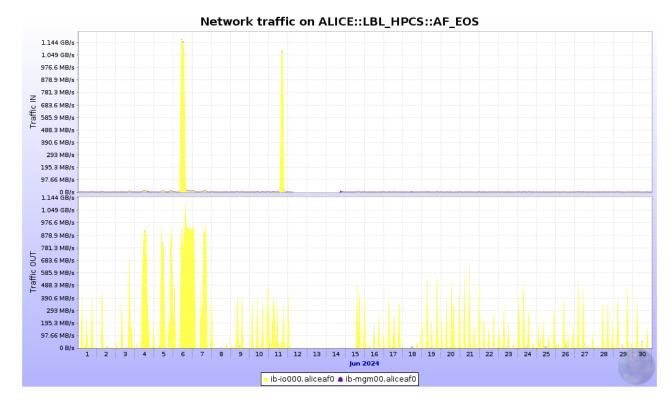


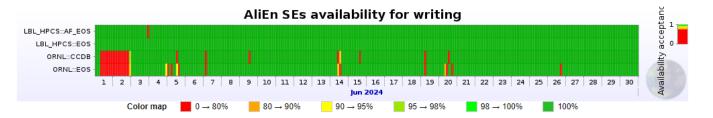
T2 Site and HPCS_Lr	CPU/Core [HS06/Core]	ALICE-USA Obligation [MHS06 x hr]	CPU Delivered [MHS06 x hr] (ML reporter)	CPU Delivered [MHS06 x hr] (WLCG reporter)	Delivered per Obligation [%] (ML reported)	Delivered per Obligation [%] (WLCG reported)
HPCS_Lr	12.0	26.22	49.82		137.1	240.0
LBNL	16.7	36.32	8.18	90.36	22.5	248.8
ORNL	11.5	36.32	15.20	25.30	41.9	69.7
Total		72.65	73.21	115.66	100.77%	159.21%

Network Traffic at LBL and ORNL

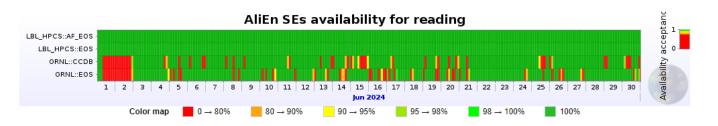


aliceafst not reporting under the LBL_HPCS::AF_EOS Some configuration needs to be pointing to this instance?





Statistics								
tint	Data	1	Individual r	esults of writing	g tests	Overall		
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability		
LBL_HPCS::AF_EOS	31 May 2024 23:55	30 Jun 2024 23:56	727	1	99.86%	99.88%		
LBL_HPCS::EOS	01 Jun 2024 00:05	01 Jul 2024 00:05	722	0	100%	100%		
ORNL::CCDB	31 May 2024 23:52	30 Jun 2024 23:53	684	45	93.83%	93.84%		
ORNL::EOS	01 Jun 2024 00:05	01 Jul 2024 00:06	675	47	93.49%	93.54%		



Statistics								
1 to 1	Data	3	Individual re	esults of readin	g tests	Overall		
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability		
LBL_HPCS::AF_EOS	31 May 2024 23:55	30 Jun 2024 23:56	728	0	100%	100%		
LBL_HPCS::EOS	01 Jun 2024 00:05	01 Jul 2024 00:06	722	0	100%	100%		
ORNL::CCDB	31 May 2024 23:52	30 Jun 2024 23:54	657	72	90.12%	90.07%		
ORNL::EOS	01 Jun 2024 00:05	01 Jul 2024 00:06	643	79	89.06%	89.25%		

	AliEn SE		Catalogue statistics					Storage-provide				
SE Name	AliEn name	Tier	Size	Used	Free	Usage	No. of files	Туре	Size	Used	Free	Usage
1. LBL_HPCS - AF_EOS	ALICE::LBL_HPCS::AF_EOS	2	1.101 PB	19.2 TB	1.082 PB	1.703%	14,447	FILE	1.092 PB	32.07 TB	1.061 PB	2.867%
2. LBL_HPCS - EOS	ALICE::LBL_HPCS::EOS	2	3.48 PB	3.085 PB	403.8 TB	88.67%	69,195,788	FILE	3.48 PB	3.164 PB	322.8 TB	90.94%
3. ORNL - CCDB	ALICE::ORNL::CCDB	2	100 TB	4.645 TB	95.36 TB	4.645%	11,605,866	FILE	-	_	_	_
4. ORNL - EOS	ALICE::ORNL::EOS	2	3.964 PB	2.816 PB	1.148 PB	71.04%	58,692,891	FILE	3.964 PB	2.977 PB	1011 TB	75.09%
5. ORNL - PRF_EOS	ALICE::ORNL::PRF_EOS	2	807.7 TB	243 TB	564.7 TB	30.09%	120,226	FILE	807.7 TB	248.7 TB	559 TB	30.79%
Total			9.431 PB	6.162 PB	3.269 PB		139,629,218		9.325 PB	6.415 PB	2.91 PB	

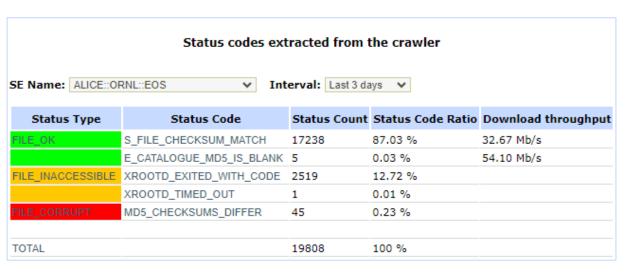
EOS: Success Ratio

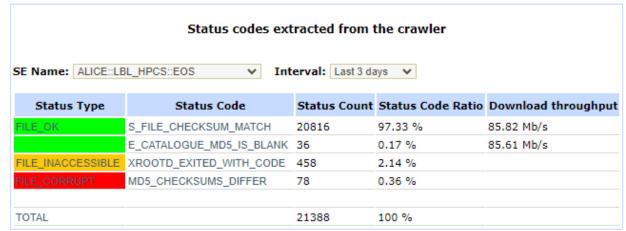
- Fille corruption needs attention
- We need to rerun FSCK for both sites and generate lists for Costin to tend to
- The problem at ORNL is severe



Averaged metrics for the selected interval							
SE Name	Start	End	Success ratio	Corrupt ratio	Inaccessible ratio	Internal error ratio	
CERN::EOS	01 Jun 2024 05:47	30 Jun 2024 19:15	99.41 %	0.04 %	0.51 %	0.03 %	
LBL_HPCS::EOS	01 Jun 2024 05:48	30 Jun 2024 19:20	95.67 %	0.84 %	3.50 %	0.00 %	
ORNL::EOS	01 Jun 2024 05:49	30 Jun 2024 19:26	61.41 %	0.10 %	38.49 %	0.00 %	

Status from the File Crawler





We observed that due to some strange process corrupted filed may have been copied to ORNL Clean-up is urgently needed

Site Status Dashboard

Site name		VOBox and SE problems					
HPCS_Lr Irc-vobox.lbl.gov	Networking: No IPv6	er size kernel parameters: tcp_wmem_max=4 MB only public address ersion detected (2.10.1), please upgrade to 2.11.3.					
ORNL voboxslr.alice.ornl.gov	Networking: low buff Networking: No IPv6	edirector ALICE::ORNL::EOS doesn't see all nodes, only 3.964 PB out of 4.943 PB total space is connected er size kernel parameters: tcp_wmem_max=4 MB only public address ersion detected (2.11.2), please upgrade to 2.11.3.					
Perlmutter alice-sfapi.lbl.gov	Networking: No IPv6	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 2.11.3.					
LBL_HPCS alice-vobox.lbl.gov	Networking: No IPv6 CVMFS: old CVMFS v	er size kernel parameters: tcp_wmem_max=4 MB only public address ersion detected (2.11.2), please upgrade to 2.11.3. F_EOS: xrootd data server ib-mgm00.aliceaf0 fails ADD test.					
LBL_AFP alice-afp.lbl.gov	Networking: No IPv6	etworking: low buffer size kernel parameters: tcp_wmem_max=4 MB only etworking: No IPv6 public address /MFS: old CVMFS version detected (2.11.2), please upgrade to 2.11.3.					
5 sites		16 issues					

Last Month

This month

Site name	VOBox and SE problems
HPCS_Lr Irc-vobox.lbl.gov	MonALISA service is not online since 02 Jul 2024 22:46 (for 20d 0:50). Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.10.1), please upgrade to 2.11.3.
ORNL voboxslr.alice.ornl.gov	Networking: low buffer size kernel parameters: tcp_wmem_max=4 MB only Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.11.2), please upgrade to 2.11.3.
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 2.11.3.
LBL_HPCS alice-vobox.lbl.gov	Networking: low buffer size kernel parameters: tcp_wmem_max=4 MB only Networking: No IPv6 public address ALICE::LBL_HPCS::AF_EOS: xrootd data server ib-mgm00.aliceaf0 fails ADD test.
LBL_AFP alice-afp.lbl.gov	Networking: low buffer size kernel parameters: tcp_wmem_max=4 MB only Networking: No IPv6 public address
5 sites	13 issues