# ALICE-USA Operations Monthly Status for July 2023



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



## Tier-2 Availability and Reliability Report ALICE

**July 2023** 

Availability History

#### **Federation Details**

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

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

							Availabil	icy miscory
Federation & Sites	Pledge CPU	Pledge Disk	Availability	Reliability	Unknown	Apr-2023	May-2023	Jun-2023
US-LBNL-ALICE	94300	9800						
LBL_HPCS			64%	64%	14%	92%	100%	100%
ORNL			99%	99%	1%	100%	86%	87%

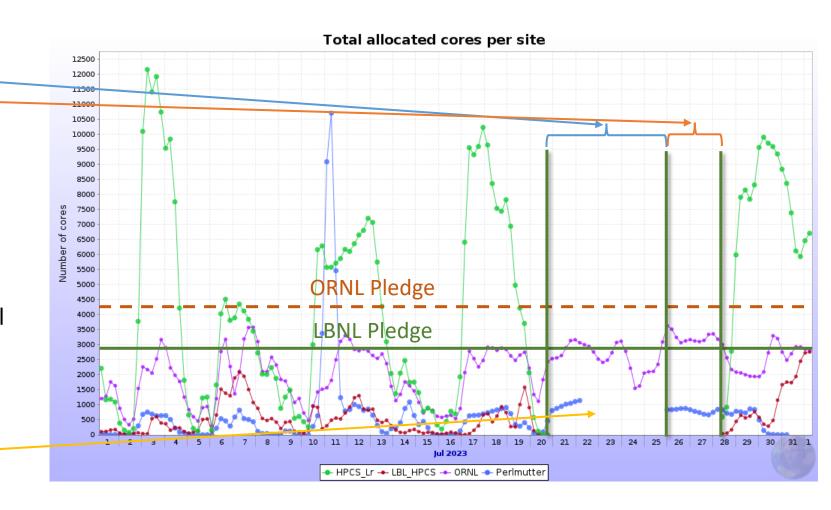
#### Job Summary

#### • LBL-HPCS

- Power work at ITD –
- Took some time to bring back voboxes

#### • ORNL

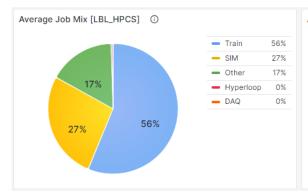
- Doing well
- Lawrencium
  - Doing well
  - Looking forward to Ir7 in our pool (at least the STAR nodes pls ☺ )
- Perlmutter
  - Low job availability in general because we kept TTL to 12 hours
  - Wanted to move jobs to the shared account

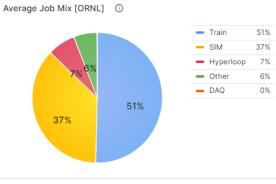


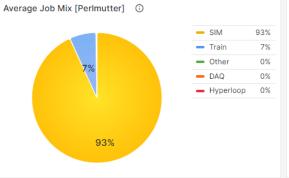
# CPU Efficiency Target Efficiency is ~80%

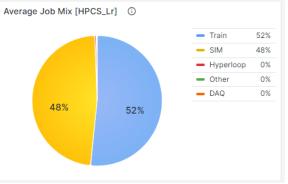
#### Jobs efficiency (cpu time / wall time) Series Last value Min Max Avg 1. HPCS\_Lr 107.4 24.98 67.17 2. LBL HPCS 23.65 54.08 100.2 3. NIHAM 52 72.04 119 4. ORNL 64.27 0.084 71.74 147.4 5. **UPB** 71.15 70.01 100.2 Total 47.21 67.01





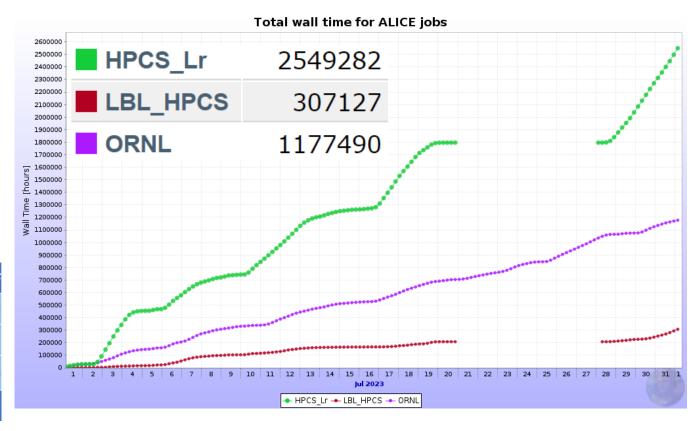






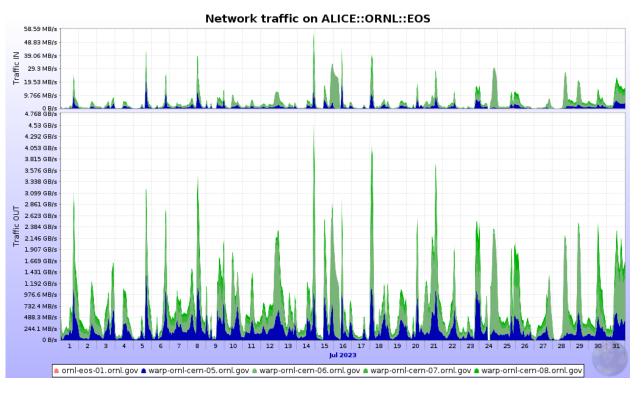
CPU		
Obligations	kHS06	
ALICE-USA		94
LBNL HPCS T2		47
ORNL T2		47

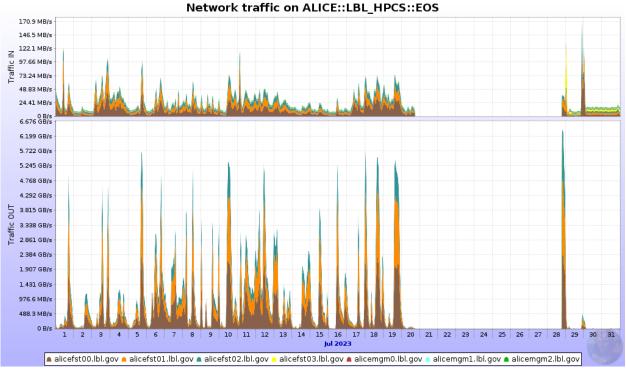
T2 Site	Monalisa (khr)	WLCG (khr)	%diff
HPCS_Lr	2549.30	4432.80	35.56
LBNL	307.10		
ORNL	1177.50	2537.60	53.60
Total	4,033.90	6,970.40	42.13



	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)	
ı	HPCS_Lr	12.0	24.07	30.59	F2 10	87.5	152.1	
ı	BNL	16.7	34.97	5.13	53.19	14.7		
(	ORNL	11.5	33.42	13.54	29.18	40.5	87.3	
	Total		68.39	49.26	82.38	72.04%	120.46%	

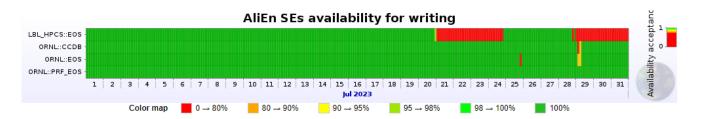
#### Network Traffic at LBL and ORNL







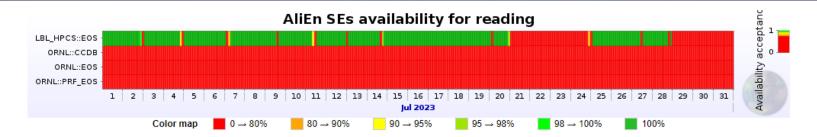
Statistics									
Link name	Data	1	Individual re	Overall					
	Starts	Ends	Successful	Failed	Success ratio	Availability			
LBL_HPCS::EOS	30 Jun 2023 23:10	31 Jul 2023 23:26	585	161	78.42%	78.44%			
ORNL::CCDB	30 Jun 2023 23:58	31 Jul 2023 23:11	745	3	99.60%	99.61%			
ORNL::EOS	30 Jun 2023 23:10	31 Jul 2023 23:24	742	3	99.60%	99.60%			
ORNL::PRF_EOS	30 Jun 2023 23:58	31 Jul 2023 23:12	748	0	100%	100%			



Statistics									
Link name	Data	ı	Individual re	Overall					
	Starts	Ends	Successful	Failed	Success ratio	Availability			
LBL_HPCS::EOS	30 Jun 2023 23:10	31 Jul 2023 23:26	585	162	78.31%	78.35%			
ORNL::CCDB	30 Jun 2023 23:58	31 Jul 2023 23:11	747	1	99.87%	99.87%			
ORNL::EOS	30 Jun 2023 23:10	31 Jul 2023 23:23	743	2	99.73%	99.74%			
ORNL::PRF_EOS	30 Jun 2023 23:58	31 Jul 2023 23:11	748	0	100%	100%			

	Storage-provided information							
SE Name	Size	Used	Free	Usage	Version	<b>EOS Version</b>		
1. LBL_HPCS - EOS	3.941 PB	2.178 PB	1.763 PB	55.26%	Xrootd v4.12.8	4.8.101		
2. ORNL - CCDB	-	-	-	-				
3. ORNL - EOS	4.957 PB	1.259 PB	3.699 PB	25.39%	Xrootd v5.5.5	5.1.27		
4. ORNL - PRF_EOS	807.7 TB	240.4 TB	567.3 TB	29.76%		5.1.14		
Total	9.687 PB	3.671 PB	6.016 PB					

#### Using IPv6 Only



Statistics								
Unit annua	Data	1	Individual r	Overall				
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability		
LBL_HPCS::EOS	30 Jun 2023 23:10	31 Jul 2023 23:29	574	170	77.15%	77.16%		
ORNL::CCDB	01 Jul 2023 00:00	31 Jul 2023 23:14	0	748	0%	0%		
ORNL::EOS	30 Jun 2023 23:13	31 Jul 2023 23:26	0	744	0%	0%		
ODAIL DDE FOC	04 1-1 0000 00-04	24 3.4 2022 22.44		747	00/	0.07		



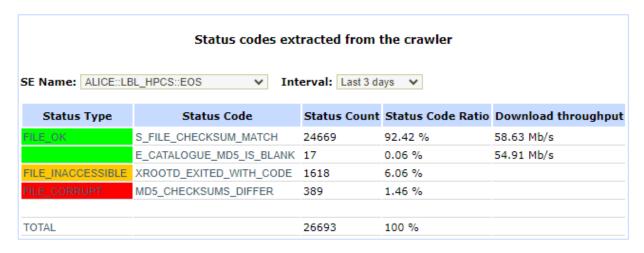
Statistics									
tink name	Data		Individual re	Overall					
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability			
LBL_HPCS::EOS	30 Jun 2023 23:10	31 Jul 2023 23:29	583	161	78.36%	78.38%			
ORNL::CCDB	01 Jul 2023 00:00	31 Jul 2023 23:14	0	748	0%	0%			
ORNL::EOS	30 Jun 2023 23:13	31 Jul 2023 23:26	0	744	0%	0%			
ORNL::PRF_EOS	01 Jul 2023 00:01	31 Jul 2023 23:14	0	747	0%	0%			

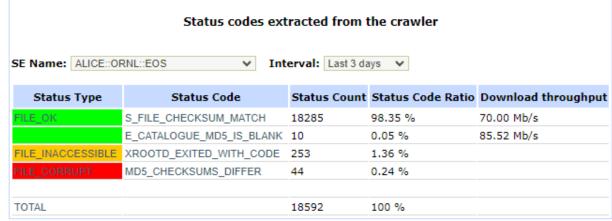
#### **EOS: Success Ratio**



Averaged metrics for the selected interval								
SE Name	Start	End	Success ratio	Corrupt ratio	Inaccessible ratio	Internal error ratio		
CERN::EOS	01 Jul 2023 01:06	31 Jul 2023 17:45	98.88 %	0.62 %	0.47 %	0.04 %		
LBL_HPCS::EOS	01 Jul 2023 00:59	31 Jul 2023 23:54	80.11 %	1.36 %	18.53 %	0.00 %		
ORNL::EOS	01 Jul 2023 01:01	31 Jul 2023 23:43	98.21 %	0.35 %	1.44 %	0.00 %		

### Status from the File Crawler





### Site Status Dashboard

ORNL, LBL		
Site name	VOBox and SE problems	Remarks
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 (2.9.3), please upgrade to 2.10.1.	
LBL_HPCS alice-vobox.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 2.10.1.	
2 sites	6 issues	0 remarks

#### Last Month

#### This month

#### Site status dashboard ORNL, LBL Site name VOBox and SE problems ORNL Networking: low buffer size kernel parameters: tcp\_wmem\_max=4 MB only voboxslr.alice.ornl.gov Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.9.3), please upgrade to 2.10.1. LBL\_HPCS Networking: low buffer size kernel parameters: tcp wmem max=4 MB only alice-vobox.lbl.gov Networking: No IPv6 public address CVMFS: old CVMFS version detected (2.10.0), please upgrade to 2.10.1. ALICE::LBL\_HPCS::EOS: ADD test fails since 12 Aug 2023 00:29 (for 2d 21:46). 7 issues 2 sites