ALICE-USA Operations Monthly Status for October 2023



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



Tier-2 Availability and Reliability Report ALICE

October 2023

Availability History

Federation Details

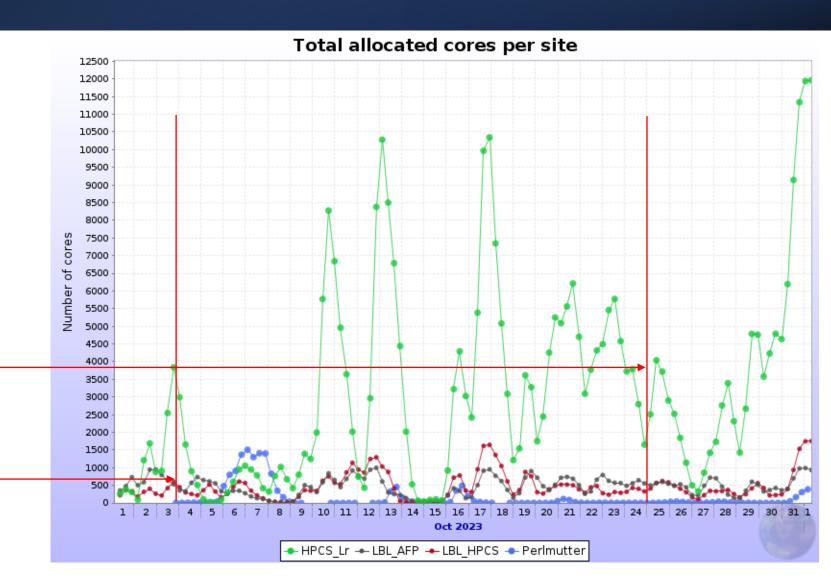
Availability Algorithm: @ALICE_CE * @ALICE_VOBOX * all AliEn-SE

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

							Availabili	ty mstory
Federation & Sites	Pledge CPU	Pledge Disk	Availability	Reliability	Unknown	Jul-2023	Aug-2023	Sep-2023
US-LBNL-ALICE	94300	9800						
LBL_HPCS			91%	91%	3%	64%	67%	100%
ORNL			94%	94%	0%	99%	99%	99%

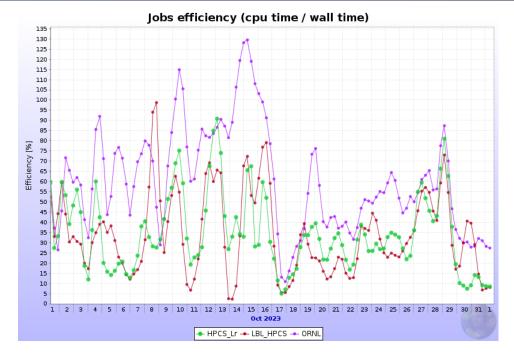
Job Summary

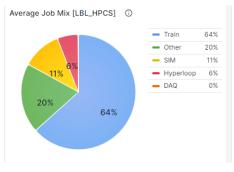
- Total number of jobs
 - Low overall job pressure
- LBL-HPCS
 - Steady handling
- ORNL
 - Steady handling
- Lawrencium
 - Added Lr7 to our scavenging queue
- Perlmutter
 - Came back but had issues with xRoodD [Sergiu has to revert to the older version]

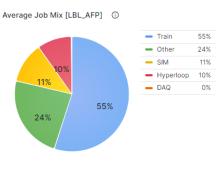


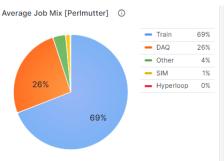
CPU Efficiency Target Efficiency is ~80%

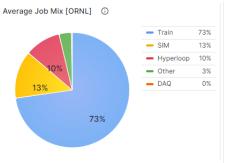
Jobs efficiency (cpu time / wall time) Series Last value Min Max Avg 1. HPCS_Lr 8.386 34.29 112.3 LBL_HPCS 8.298 0.149 34.08 1704 3. ORNL 27.34 60.31 191 42.89 Total 14.67

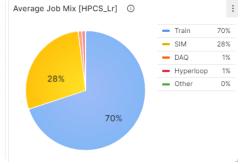






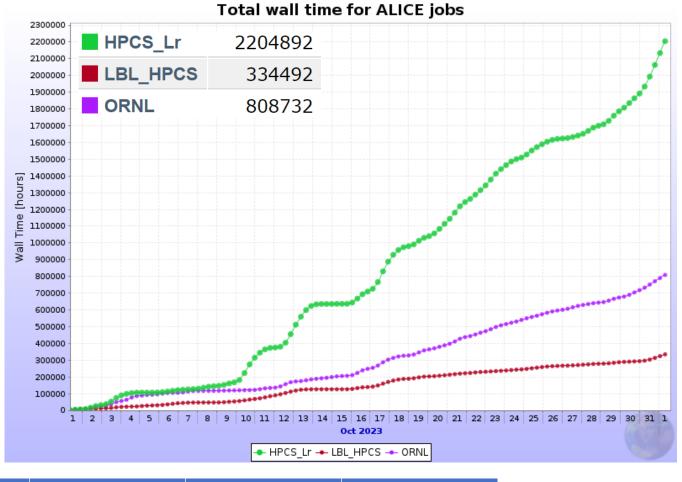






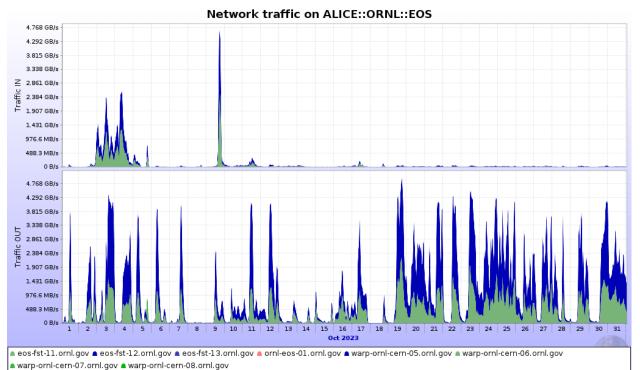
CPU		
Obligations	kHS06	
ALICE-USA		94
LBNL HPCS T2		47
ORNL T2		47

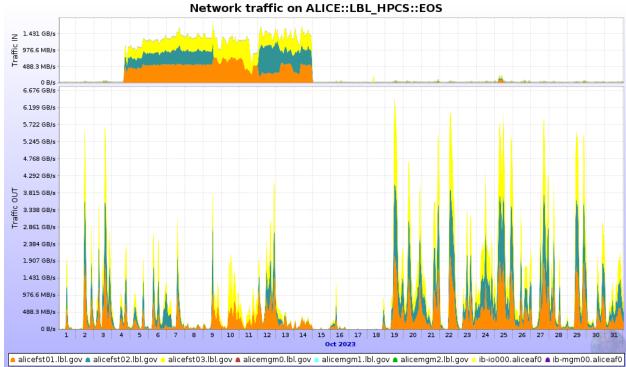
T2 Site	Monalisa (khr)	WLCG (khr)	%diff
HPCS_Lr	2204.90	5183.80	51.01
LBNL	334.50		
ORNL	808.70	2226.50	63.68
Total	3,348.10	7,410.30	54.82



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	24.07	26.46		75.7	177.9	
_BNL	16.7	34.97	5.59	62.21	16.0		
ORNL	11.5	34.97	9.30	25.60	26.6	73.2	
Total		69.94	41.35	87.81	59.12%	125.56%	

Network Traffic at LBL and ORNL







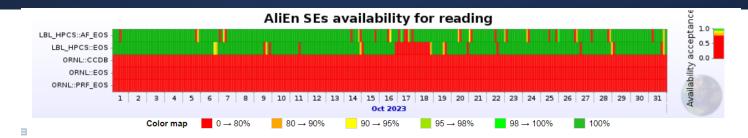


Statistics								
1 !!	Data	a	Individual re	sults of writing	j tests	Overall		
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability		
LBL_HPCS::AF_EOS	01 Oct 2023 00:48	01 Nov 2023 00:07	748	0	100%	100%		
LBL_HPCS::EOS	01 Oct 2023 00:57	01 Nov 2023 00:16	701	47	93.72%	93.70%		
ORNL::CCDB	01 Oct 2023 00:45	01 Nov 2023 00:04	716	33	95.59%	95.61%		
ORNL::EOS	01 Oct 2023 00:58	01 Nov 2023 00:17	713	34	95.45%	95.53%		
ORNL::PRF EOS	01 Oct 2023 00:46	01 Nov 2023 00:05	749	0	100%	100%		

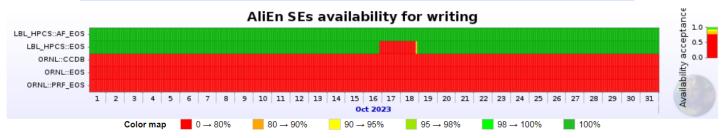
Statistics									
t to to one or o	Data	a	Individual r	esults of readin	g tests	Overall			
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability			
LBL_HPCS::AF_EOS	01 Oct 2023 00:48	01 Nov 2023 00:07	748	0	100%	100%			
LBL_HPCS::EOS	01 Oct 2023 00:57	01 Nov 2023 00:16	701	47	93.72%	93.70%			
ORNL::CCDB	01 Oct 2023 00:45	01 Nov 2023 00:04	707	42	94.39%	94.43%			
ORNL::EOS	01 Oct 2023 00:58	01 Nov 2023 00:17	704	43	94.24%	94.34%			
ORNL::PRF_EOS	01 Oct 2023 00:46	01 Nov 2023 00:05	749	0	100%	100%			

	AliEn SE			C	atalogue si	tatistics				Sto	orage-provi	ided info	rmation	
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	1.101 PB	1.841 TB	1.099 PB	0.163%	4,931	FILE	1.101 PB	9.708 TB	1.092 PB	0.861%		
2. LBL_HPCS - EOS	ALICE::LBL_HPCS::EOS	2	3.48 PB	3.159 PB	327.9 TB	90.8%	58,624,586	FILE	3.48 PB	3.111 PB	377.4 TB	89.41%	Xrootd 5.5.10	5.1.27
3. ORNL - CCDB	ALICE::ORNL::CCDB	2	100 TB	3.588 TB	96.41 TB	3.588%	8,014,411	FILE	-	-	_	_		
4. ORNL - EOS	ALICE::ORNL::EOS	2	4.943 PB	1.977 PB	2.966 PB	40%	36,887,393	FILE	4.943 PB	2.035 PB	2.908 PB	41.16%	Xrootd v5.5.5	5.1.27
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%		5.1.14
Total			10.41 PB	5.379 PB	5.031 PB		103,651,547		10.31 PB	5.398 PB	4.915 PB			

Using IPv6 Only



Statistics								
t tulu un un un	Data	a	Individual r	Overall				
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability		
LBL_HPCS::AF_EOS	01 Oct 2023 00:48	01 Nov 2023 00:07	724	24	96.79%	96.85%		
LBL_HPCS::EOS	01 Oct 2023 00:57	01 Nov 2023 00:16	690	58	92.25%	92.28%		
ORNL::CCDB	01 Oct 2023 00:48	01 Nov 2023 00:07	0	748	0%	0%		
ORNL::EOS	01 Oct 2023 01:00	01 Nov 2023 00:19	0	747	0%	0%		
ORNL::PRF_EOS	01 Oct 2023 00:49	01 Nov 2023 00:08	0	748	0%	0%		



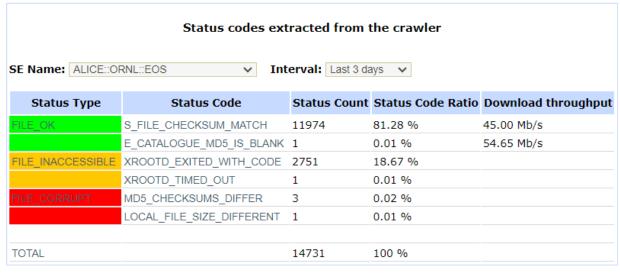
Statistics								
	Data	a	Individual re	Overall				
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability		
LBL_HPCS::AF_EOS	01 Oct 2023 00:48	01 Nov 2023 00:07	748	0	100%	100%		
LBL_HPCS::EOS	01 Oct 2023 00:57	01 Nov 2023 00:16	701	47	93.72%	93.70%		
ORNL::CCDB	01 Oct 2023 00:48	01 Nov 2023 00:07	0	748	0%	0%		
ORNL::EOS	01 Oct 2023 01:00	01 Nov 2023 00:19	0	747	0%	0%		
ORNL::PRF_EOS	01 Oct 2023 00:49	01 Nov 2023 00:08	0	748	0%	0%		

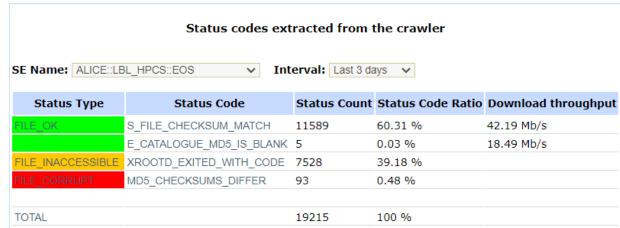
EOS: Success Ratio



Averaged metrics for the selected interval								
SE Name	Start	End	Success ratio	Corrupt ratio	Inaccessible ratio	Internal error ratio		
CERN::EOS	01 Oct 2023 04:08	31 Oct 2023 21:53	98.58 %	0.73 %	0.66 %	0.03 %		
LBL_HPCS::EOS	30 Sep 2023 03:25	31 Oct 2023 21:29	55.95 %	0.67 %	43.38 %	0.00 %		
ORNL::EOS	01 Oct 2023 04:05	31 Oct 2023 21:36	94.54 %	0.27 %	5.19 %	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 2.11.0.	Underperforming: the site is only running 251 jobs at the moment, expecting at least 316 jobs.
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 2.11.0. ALICE::LBL_HPCS::EOS: xrootd data server ib-mgm00.aliceaf0 fails ADD test.	Low long-term average job efficiency Underperforming: the site is only running 158 jobs at the moment, expecting at least 173 jobs.
LBL_AFP alice-afp.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 2.11.0.	Low long-term average job efficiency
3 sites	9 issues	4 remarks

Last Month

This month

	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			
1	LBL_HPCS nat-88.eth2.vfw-50b-2275-s4-hpclhc.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 2.11.2. ALICE::LBL HPCS::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 CVMFS: old CVMFS version detected (2.11.0), please upgrade to 2.11.2.	Low long-term average job efficiency		