ALICE-USA Operations Monthly Status for December 2022



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



Tier-2 Availability and Reliability Report ALICE

December 2022

Federation Details

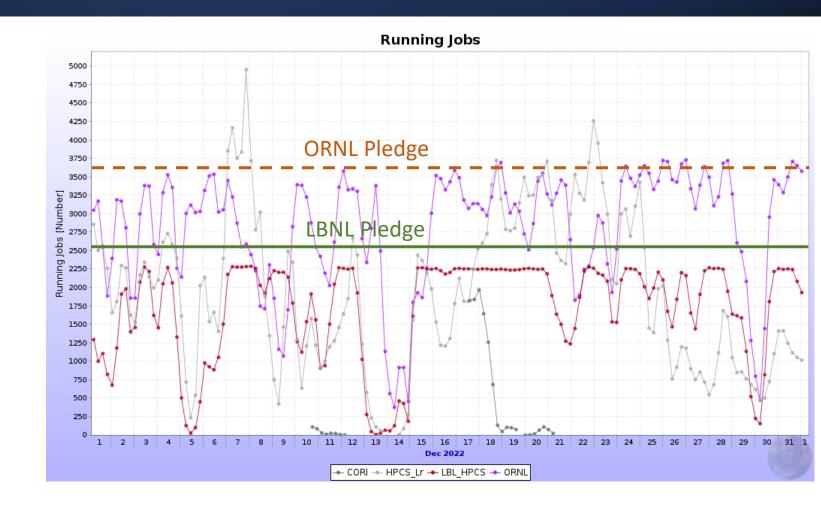
Availability Algorithm: @ALICE_CE * @ALICE_VOBOX * all AliEn-SE

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

							Availabilit	y History
Federation & Sites	Pledge CPU	Pledge Disk	Availability	Reliability	Unknown	Sep-2022	Oct-2022	Nov-2022
US-LBNL-ALICE	82000	8400						
LBL_HPCS			100%	100%	0%	98%	100%	99%
ORNL			99%	99%	0%	100%	99%	100%

Job Summary

- Awaiting new hardware to meet RRB2022 pledges
- Job pressure not very stable
- LBL-HPSC
 - Steady dealing with the load
- ORNL
 - Steady dealing with the load
- Lawrencium
 - Steady performance
- Cori
 - We got allocation couple of times

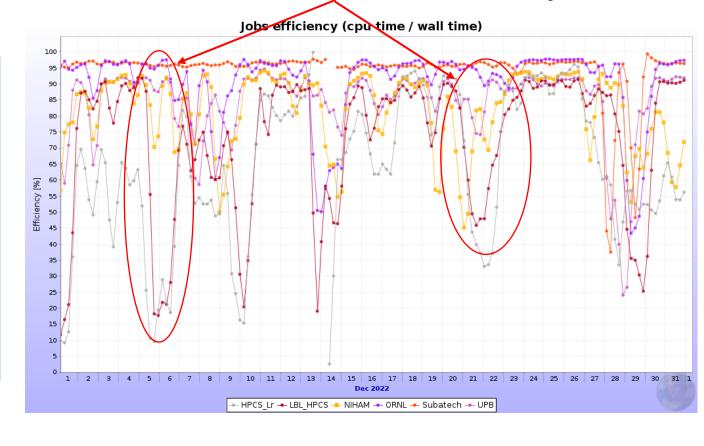


CPU Efficiency

- CPU Efficiency target is ~80%
- ORNL: about 90% of sim jobs.
- LBL_HPCS: about 77% of sim jobs. Efficiency a little low and there were still some instances when CCDB file access was causing issues

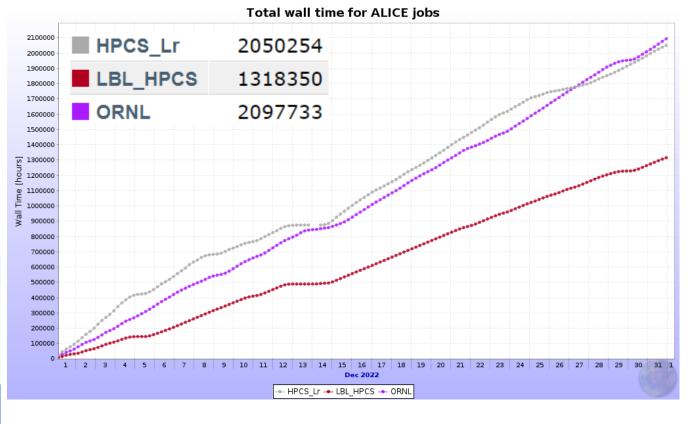
Jobs efficiency (cpu time / wall time)

	Series	Last value	Min	Avg	Max
1.	■ HPCS_Lr	56.2	0.495	63.93	99.97
2.	LBL_HPCS	91.15	1.243	72.59	140.2
3.	NIHAM	71.91	0	81.74	284.9
4.	ORNL	97.4	23.17	90.34	99.28
5.	Subatech	96.36	0.225	94.43	100.3
6.	■ UPB	91.87	3.508	84.41	128.5
	Total	84.15		81.24	



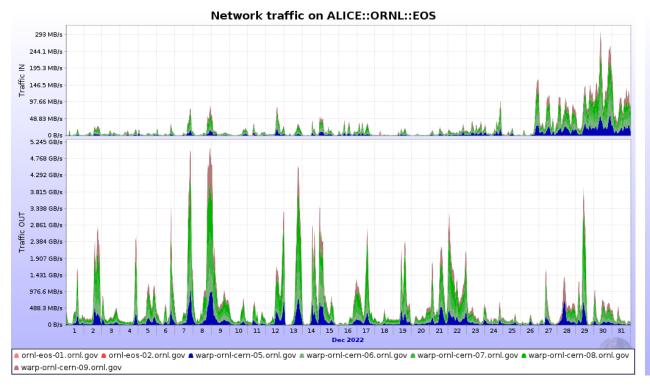
CPU	
Obligations	kHS06
ALICE-USA	82
LBNL HPCS T2	41
ORNL T2	41

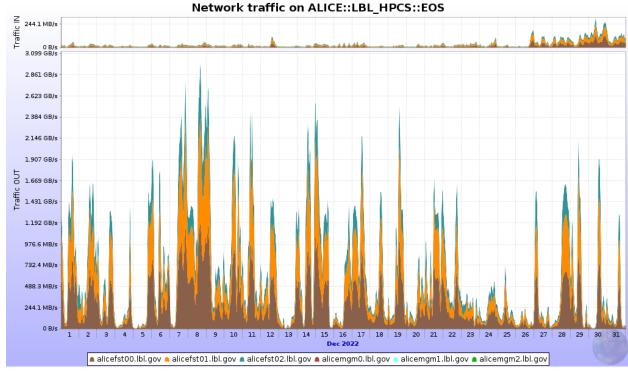
T2 Site	Monalisa (khr)	WLCG (khr)	%diff
HPCS_Lr	2050.10	4155.10	18.93
LBNL	1318.40		
ORNL	2097.70	2793.10	24.90
Total	5,466.20	6,948.20	21.33

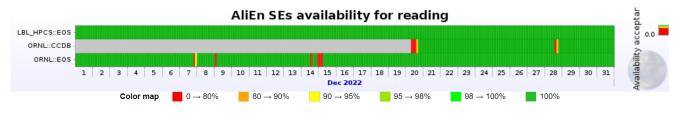


а	T2 Site nd HPCS_Lr	CPU/Core [HS06/Core]	ALICE-USA Obligation [MHS06 x hr]	CPU Delivered [MHS06 x hr] (ML reporter)	CPU Delivered [MHS06 x hr] (WLCG reporter)	Delivered per Obligation [%] (ML reported)	Delivered per Obligation [%] (WLCG reported)	
НР	CS_Lr	12.0	20.50	24.60	40.90	80.6	163.5	
LB	NL	16.7	30.50	22.02	49.86	72.2		
OR	RNL	11.5	30.50	24.12	32.12	79.1	105.3	
To	otal		61.01	70.74	81.98	115.96%	134.38%	

Network Traffic at LBL and ORNL







Statistics						
tinto mana	Data		Individual ı	results of readin	g tests	Overall
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability
LBL_HPCS::EOS	30 Nov 2022 23:07	31 Dec 2022 23:17	749	0	100%	100%
ORNL::CCDB	20 Dec 2022 08:37	01 Jan 2023 00:05	273	8	97.15%	97.15%
ORNL::EOS	30 Nov 2022 23:08	31 Dec 2022 23:18	742	7	99.07%	99.09%



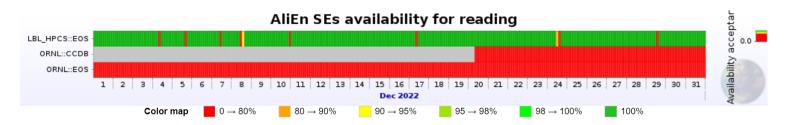
Statistics						
Link name	Data	а	Individual	results of writing	j tests	Overall
LINK name	Starts	Ends	Successful	Failed	Success ratio	Availability
LBL_HPCS::EOS	01 Dec 2022 00:07	31 Dec 2022 23:17	748	0	100%	100%
ORNL::CCDB	20 Dec 2022 08:37	01 Jan 2023 00:05	274	7	97.51%	97.51%
ORNL::EOS	01 Dec 2022 00:08	31 Dec 2022 23:18	748	0	100%	100%

		Storage-provided information					
SE Name	Size	Used	Free	Usage	Version	EOS Version	
1. LBL_HPCS - EOS	2.741 PB	1.631 PB	1.11 PB	59.5%	Xrootd v4.12.8	4.8.89	
2. ORNL - CCDB	-	-	-	-	Xrootd v4.12.8		
3. ORNL - EOS	2.693 PB	817.2 TB	1.895 PB	29.64%	Xrootd v4.12.8	4.8.40	
Total	5.433 PB	2.429 PB	3.005 PB				

Using IPv6 Only



Statistics						
Link	Data	:	Individual i	results of writing	tests	Overall
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability
LBL_HPCS::EOS	01 Dec 2022 00:09	31 Dec 2022 23:17	748	0	100%	100%
ORNL::CCDB	20 Dec 2022 08:40	01 Jan 2023 00:08	0	281	0%	0%
ORNL::EOS	01 Dec 2022 00:10	31 Dec 2022 23:20	0	746	0%	0%



Statistics						
Link name	Data	a	Individual r	esults of reading	j tests	Overall
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability
LBL_HPCS::EOS	01 Dec 2022 00:09	31 Dec 2022 23:17	740	8	98.93%	98.92%
ORNL::CCDB	20 Dec 2022 08:40	01 Jan 2023 00:08	0	281	0%	0%
ORNL::EOS	01 Dec 2022 00:10	31 Dec 2022 23:20	0	746	0%	0%

Site Status Dashboard

Site name	VOBox and SE problems
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 2.10.0.
LBL_HPCS alice-vobox.lbl.gov	Networking: low buffer size kernel parameters: tcp_wmem_max=4 MB only Networking: No IPv6 public address

Last month

This month

ORNL, LBL	
Site name	VOBox and SE problems
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 2.10.0.
LBL_HPCS alice-vobox.lbl.gov	Networking: low buffer size kernel parameters: tcp_wmem_max=4 MB only Networking: No IPv6 public address
2 sites	5 issues

Status from the File Crawler

