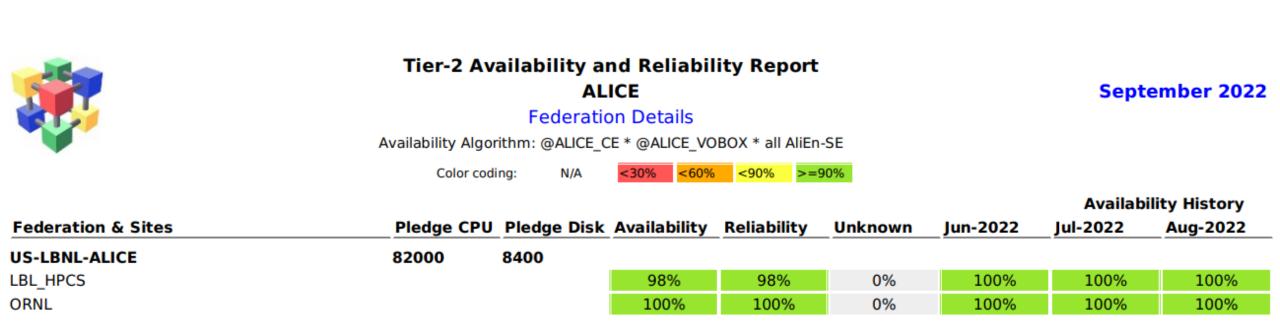
ALICE-USA Operations Monthly Status for September 2022



October 18, 2022

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



Job Summary

- Awaiting new hardware to meet RRB2022 pledges
- LBL-HPSC
 - /etc was filled by another user that caused issues
 - /etc was cleared and CE and ML restarted
 - ML restart sometimes does not report Site_UserJobs_Summary
 - I mentioned it to Costin. Follow up on this is on my low priority todo list
- ORNL
 - Steady dealing with the load
- Lawrencium
 - Great performance
- Cori
 - Was steadily up for a while, then machine was rebooted
 - Right now, jobs are pending in the regular queue

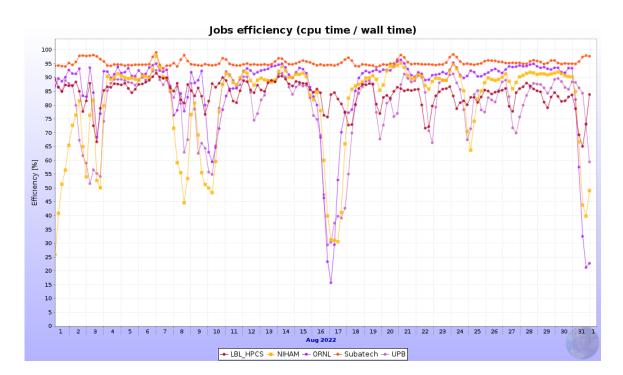


CPU Efficiency

- CPU Efficiency target is ~80%
- We are on target
- Lawrencium is now running analysis jobs

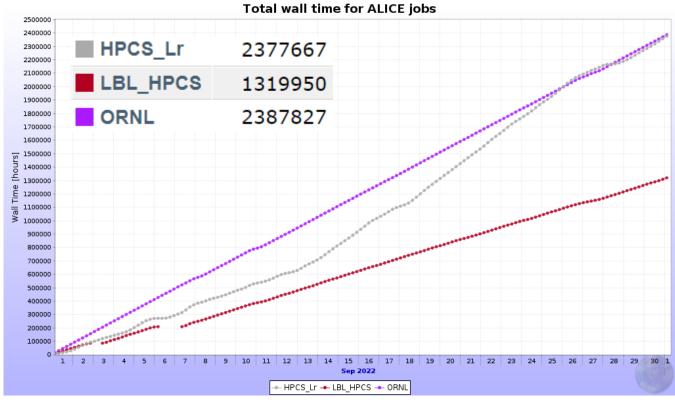
	Series	Last value	Min	Avg	Max			
1.	HPCS_Lr	84.97	3.297	74.88	109.9			
2.	LBL_HPCS	85.15	0	84.59	96.2			
3.	NIHAM	68.38	0	87.33	99.06			
4.	ORNL	94.56	23.2	91.09	102.4			
5.	Subatech	96.69	13.23	94.24	104.8			
6.	UPB	84.91	20.5	83.73	96.78			
	Total	85.78		85.98				

Jobs efficiency (cpu time / wall time)



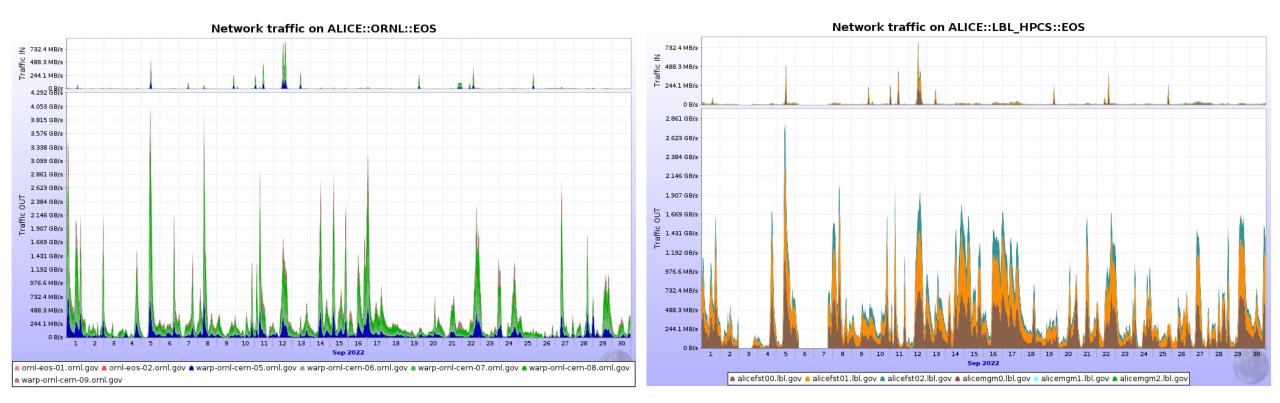
CPU		
Obligations	kHS06	
ALICE-USA		82
LBNL HPCS T2		41
ORNL T2		41

T2 Site	Monalisa (khr)	WLCG (khr)	%diff
LBNL	1,319.95	4,625.44	20.06
HPCS_Lr	2,377.67		
ORNL	2,387.83	2,432.61	1.84
Total	6,085.45	7,058.05	13.78



T2 Site	CPU/Core [HS06/Core]	CPU Delivered [MHS06 x hr]	ALICE-USA Obligation [MHS06 x hr]	Delivered per Obligation [%]
HPCS_Lr	12.0	28.53	29.52	96.7
LBNL	16.7	22.04	23.32	74.7
ORNL	11.5	27.46	29.52	93.0
Total		78.04	59.04	132.17

Network Traffic at LBL and ORNL





Statistics								
Link name	Data		Individual	Overall				
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability		
LBL_HPCS::EOS	31 Aug 2022 23:58	01 Oct 2022 00:11	709	14	98.06%	98.06%		
ORNL::EOS	31 Aug 2022 23:59	01 Oct 2022 00:12	723	0	100%	100%		



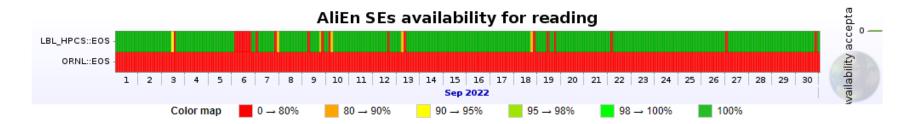
Statistics								
Link name	Data		Individual results of reading tests			Overall		
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability		
LBL_HPCS::EOS	31 Aug 2022 23:58	01 Oct 2022 00:11	708	15	97.93%	97.92%		
ORNL::EOS	31 Aug 2022 23:59	01 Oct 2022 00:12	722	1	99.86%	99.86%		

	Storage-provided information						
SE Name	Size	Used	Free	Usage	Version	EOS Version	
1. LBL_HPCS - EOS	2.749 PB	1.572 PB	1.178 PB	57.16%	Xrootd v4.12.8	4.8.89	
2. ORNL - EOS	2.693 PB	759.5 TB	1.951 PB	27.54%	Xrootd v4.12.8	4.8.40	
Total	5.442 PB	2.313 PB	3.129 PB				

Using IPv6 Only



Statistics								
Link name	Dat	а	Individual results of writing tests			Overall		
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability		
LBL_HPCS::EOS	31 Aug 2022 23:58	01 Oct 2022 00:12	709	14	98.06%	98.07%		
ORNL::EOS	01 Sep 2022 00:02	01 Oct 2022 00:15	0	722	0%	0%		



Statistics								
tink name	Data		Individual results of reading tests			Overall		
Link name	Starts	Ends	Successful	Failed	Success ratio	Availability		
LBL_HPCS::EOS	31 Aug 2022 23:58	01 Oct 2022 00:12	694	29	95.99%	96.04%		
ORNL::EOS	01 Sep 2022 00:02	01 Oct 2022 00:15	0	722	0%	0%		

Site Status Dashboard

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 (2.7.0), please upgrade to 2.9.4.
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 (2.9.2), please upgrade to 2.9.4.
2 sites	6 issues

Last month

	ORNL, LBL	
This month	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 (2.7.0), please upgrade to 2.9.4.
	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

Status codes extracted from the crawler									
SE Name: ALICE::LBL_HPCS::EOS V Interval: Last 3 days V									
Status Type	Status Code	Status Count	Status Code Ratio	Download throughput					
FILE_OK	S_FILE_CHECKSUM_MATCH	19964	92.74 %	55.74 Mb/s					
	E_CATALOGUE_MD5_IS_BLANK	2	0.01 %	58.63 Mb/s					
FILE_INACCESSIBLE	XROOTD_EXITED_WITH_CODE	1359	6.31 %						
FILE_CORRUPT	MD5_CHECKSUMS_DIFFER	200	0.93 %						
	LOCAL_FILE_SIZE_DIFFERENT	1	0.00 %						
TOTAL		21526	100 %						

Status codes extracted from the crawler										
SE Name: ALICE::ORNL::EOS V Interval: Last 3 days V										
Status Type	Status Code	Status Count	Status Code Ratio	Download throughput						
FILE_OK	S_FILE_CHECKSUM_MATCH	17468	98.94 %	54.81 Mb/s						
	E_CATALOGUE_MD5_IS_BLANK	58	0.33 %	54.92 Mb/s						
FILE_INACCESSIBLE	XROOTD_EXITED_WITH_CODE	116	0.66 %							
FILE_CORRUPT	MD5_CHECKSUMS_DIFFER	13	0.07 %							
TOTAL		17655	100 %							



Averaged metrics for the selected interval									
SE Name	Start	End	Success ratio	Corrupt ratio	Inaccessible ratio	Internal error ratio			
CERN::EOS	01 Sep 2022 04:47	30 Sep 2022 16:25	99.38 %	0.11 %	0.43 %	0.09 %			
LBL_HPCS::EOS	01 Sep 2022 04:39	30 Sep 2022 22:32	90.22 %	2.21 %	7.57 %	0.00 %			
ORNL::EOS	01 Sep 2022 04:42	30 Sep 2022 22:38	98.47 %	0.33 %	1.20 %	0.00 %			
UPB::EOS	01 Sep 2022 04:43	30 Sep 2022 22:33	94.44 %	0.02 %	5.53 %	0.01 %			