



Production status

ALICE Offline week

3 July 2015
Latchezar Betev

Production cycles in 2015

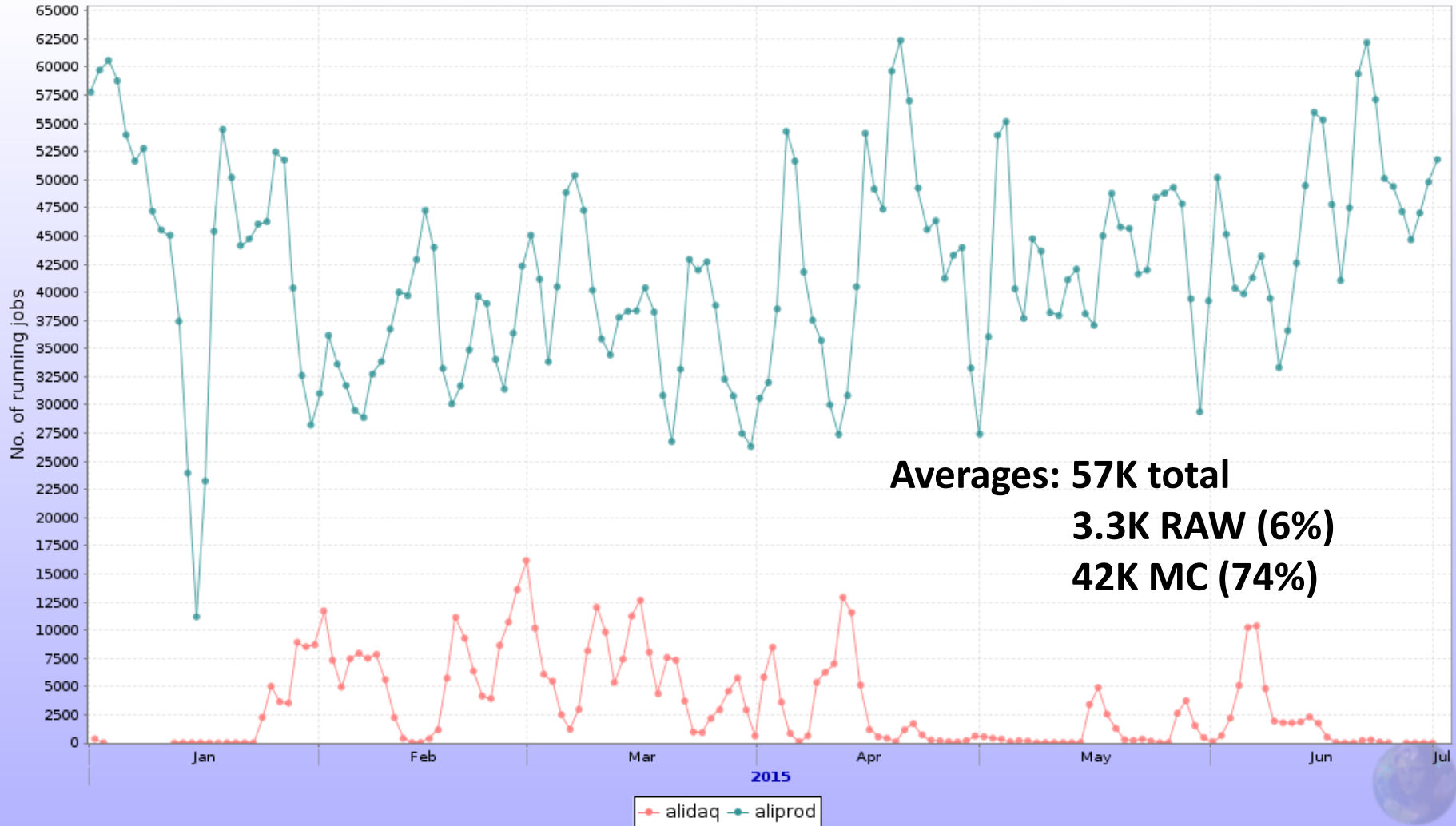
- MC – 54 cycles - about standard for $\frac{1}{2}$ year
 - 591,867,509 events of various types (+600 Mio in repeated 2014 productions)
 - p-p, p-Pb, Pb-p, very little Pb-Pb, some G4
- RAW – LHC10 (all periods), LHC12 (all periods)
 - LHC11 – not considered
 - LHC13 - imminent

2015 RAW data production

Production	Description	Status	Run Range	Runs	Chunks	Size	Chunks	Size	Events	
LHC15g_uncalibrated	LHC period LHC15g - Full production, uncalibrated (before CPass0/CPass1)	Running	227891 - 227891	1	242	1.849 GB	242	100% 1020 MB	53%	26,292
LHC15g_muon_calor_pass1	LHC period LHC15g - Muon+Calorimeters reconstruction pass 1	Running	227750 - 228404	7	2,968	2.369 TB	968	32% 12.76 GB	1%	1,484,087
LHC15g_pass1	LHC period LHC15g - Full production pass 1	Running	-	1						
LHC15g_cpass1_pass1	LHC period LHC15g - CPass1 (reconstruction) for pass 1	Running	-	1						
LHC15g_cpass0_pass1	LHC period LHC15g - CPass0 (reconstruction) for pass 1	Running	227750 - 228404	6	2,726	2.214 TB	1,503	55% 640.3 MB	0%	0
LHC15f_uncalibrated	LHC period LHC15f - Full production, uncalibrated (before CPass0/CPass1), 100% ESDfriends	Completed	225016 - 226606	49	15,221	19.78 TB	15,124	99% 13.67 TB	69%	66,049,741
LHC15f_pass1	LHC period LHC15f - Full production pass 1	Completed	224895 - 226532	45	18,857	21.9 TB	16,542	87% 12.1 TB	62%	84,564,615
LHC15f_cpass1_pass1	LHC period LHC15f - CPass1 (reconstruction) for pass 1	Completed	224895 - 226532	46	19,077	22.17 TB	17,288	90% 6.577 TB	32%	25,680,345
LHC15f_cpass0_pass1	LHC period LHC15f - CPass0 (reconstruction) for pass 1	Completed	224891 - 227722	119	55,699	64.93 TB	39,313	70% 297.1 GB	0%	47,930,558
LHC15d_pass2	LHC period LHC15d - Full production pass 2	Completed	222088 - 222088	1	90	56.17 GB	90	100% 22.2 GB	39%	652,102
LHC15e_pass2	LHC period LHC15e - Full production pass 2	Completed	223270 - 223336	2	1,387	429.5 GB	1,386	99% 171.7 GB	40%	10,688,187
LHC15a_cosmics_pass2	LHC period LHC15a - cosmics, pass2 for TRD alignment, JIRA #6000	Completed	212343 - 215122	71	8,555	9.097 TB	8,518	99% 1.109 TB	12%	60,828,539
LHC15c_cosmics_pass2	LHC period LHC15c - cosmics, pass2 for TRD alignment, JIRA #6000	Completed	216512 - 219761	131	16,120	18.1 TB	16,078	99% 2.387 TB	13%	110,508,126
LHC15e_pass1	LHC period LHC15e - Full production pass 1	Completed	223270 - 224772	59	15,648	9.16 TB	11,595	74% 1.685 TB	24%	73,262,707
LHC15c_muon	LHC period LHC15c - pass for Muons with trigger selection COMSL_ABCE_NOPF_ALLNOTRD, ID #5947	Completed	215581 - 219761	117	13,930	15.67 TB	13,928	99% 14.98 GB	0%	270,224
LHC15d_pass1	LHC period LHC15d - Full production pass 1	Completed	220139 - 222966	100	6,148	5.513 TB	5,234	85% 656.5 GB	13%	29,817,237
LHC15d_cpass1_pass1	LHC period LHC15d - CPass1 (reconstruction) for pass 1	Completed	-	1						
LHC15d_cpass0_pass1	LHC period LHC15d - CPass0 (reconstruction) for pass 1	Completed	-	1						
LHC15c_align	LHC period LHC15c - alignment	Completed	215612 - 215982	8	300	104.4 GB	300	100% 22.7 GB	21%	921,774
LHC15b_align	LHC period LHC15b - alignment	Completed	215223 - 215223	1	30	4.251 MB	30	100% 20.53 MB	482%	505
LHC15a_align	LHC period LHC15a - alignment	Completed	209414 - 215140	166	21,092	15.64 TB	20,140	95% 2.352 TB	15%	139,384,239
LHC15c_cosmics	LHC period LHC15c - cosmics	Completed	215580 - 219761	201	20,932	21.84 TB	20,739	99% 2.907 TB	13%	137,236,429
LHC15b_TED	LHC period LHC15b - TED shots	Completed	215185 - 215372	8	877	628.9 GB	869	99% 116.1 GB	18%	4,239,653
LHC15a_TRD_krypton	LHC period LHC15a - TRD Kr data reconstruction	Completed	210619 - 211389	137	320,615	150.9 TB	320,185	99% 113.9 TB	75%	2,487,011,448
LHC15a_TPC_krypton	LHC period LHC15a - TPC Kr data reconstruction	Completed	210134 - 211441	20	3,003	1.648 TB	2,980	99% 2.695 TB	164%	0
LHC15a_cosmics	LHC period LHC15a - cosmics	Completed	209122 - 215150	204	27,217	21.5 TB	25,973	95% 3.275 TB	15%	182,817,502
					570,734	403.6 TB	539,025	164 TB		3,463,374,310

Job profiles

Running jobs per user



Production management

- MC – collaboration task
 - Practically all productions are managed by Catalin-Lucian Ristea, he will continue in the future
 - One slot open after Vladimir Kovalenko ended his 1 year term – volunteers welcome, the job is well structured and gratifying
- RAW – still handled centrally
 - Would be another collaboration task item, the complexity is higher than MC

JIRA status (1/07/2015)

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T	Key	Summary	Assignee	Reporter	P	Status ↓
	ALIROOT-5623	MC production with Run2 geometry	Catalin-Lucian Ristea	Yuri Kharlov	↑	SETUP
	ALIROOT-5943	Test AliFramev3 and compare it to AliFramev2. Detector configuration as pPb 2013	Catalin-Lucian Ristea	Ana Marin	↓	SETUP
	ALIROOT-6090	MC for Lc --> p K pi in pPb	Catalin-Lucian Ristea	Jaime Norman	↑	SETUP
	ALIROOT-5780	ALICE TPC laser data 2015 reconstruction. B field scan	Marian Ivanov	Kai Schweda	↑	SETUP
	ALIROOT-5863	Reprocessing of LHC13b, c, d, e, f	Latchezar Betev	Chiara Zampolli	↑	SETUP
	ALIROOT-5752	MC Heavy Flavour production anchored to pp 2010 data	Latchezar Betev	Alessandro Grelli	↑	FINAL QA
	ALIROOT-5821	Efficiency study for (anti-)d, (anti-)t, (anti-)3He and (anti-)4He using Geant4 physicslist FTFP_BERT_EMV_OPTICAL	Catalin-Lucian Ristea	Natasha Sharma	↑	FINAL QA
	ALIROOT-6020	cpass0/cpass1 and ppass for p-Pb pilot production, runs LHC13c 195531, LHC13f 197342	Latchezar Betev	Kai Schweda	↑	FINAL QA
	ALIROOT-5603	General-purpose Monte Carlo corresponding to Pass 4 of 2010 RAW	Catalin-Lucian Ristea	Roberto Preghenella	↑	FINAL QA
	ALIROOT-5960	MC Production for pp at 7 TeV for Jpsi2ee	Catalin-Lucian Ristea	Christoph Blume	↑	FINAL QA
	ALIROOT-5777	MC production request for jet+jet in anchored to LHC13g p+p 2.76 TeV with/out triggering on decay photons over EMCAL acceptance	Gustavo Conesa Balbastre	Gustavo Conesa Balbastre	↑	RUNNING FULL STATL..
	ALIROOT-6120	Monte-Carlo simulation for tuning of V0 and AD digitization for Run2	Catalin-Lucian Ristea	Cvetan Valeriev Cheshkov	↑	RUNNING 10%

JIRA...

- Typical picture
 - Between 10 and 20 open tasks in various states
 - Try to keep it short, able to see all in one screen
- The main repository for production discussion tracking and history
 - Sometimes turns into a debugging discussion board
 - So far, works as well as SAVANNAH

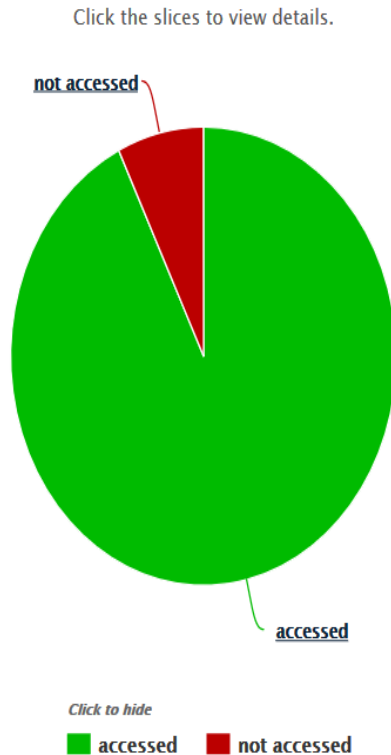
Data preservation

- All production cycles are tracked in MonALISA with great level of details
- Recently introduced – can track old productions too
 - per job information is not volatile anymore
- Oldest productions are still there

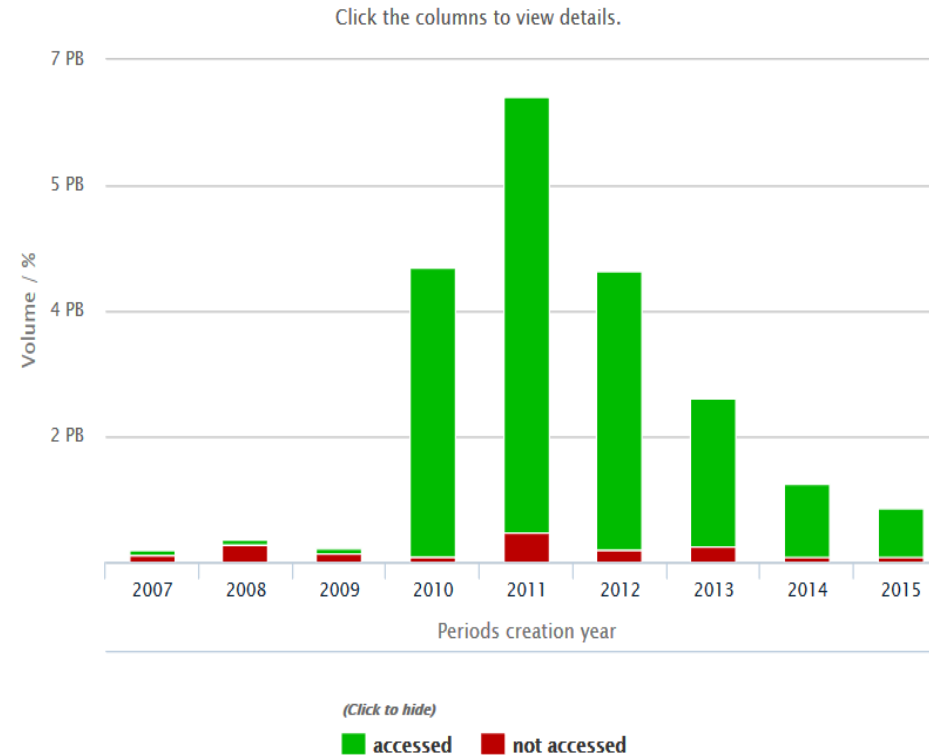
PDC 07/LHC07c	MC pp min.bias, 900 GeV	v4-05-Rev-05	Completed	-1-8268	0 20,000,000 Ideal geometry
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Access to productions

Volumes of LHC periods accessed/not accessed during 01 Jan, 2015 - 01 Jul, 2015



Volumes of LHC periods grouped by their creation year accessed/not accessed during 01 Jan, 2015 - 01 Jul, 2015



Only 7% of all production volume not accessed in the last 6 months
We do read the entire stored data volume (~20PB) every month

Summary

- Productions in 2015 are running as usual
- No delays on any of the requests due to
 - Computing resources
 - ..or AliEn availability
- RUN1 RAW reprocessing completed, with the exception of 2013 p-Pb data
 - General purpose MC for 2010 data completed
- MC is the main resources user (as usual) and we always need a healthy set in the pipeline (not always the case)
- RAW data processing (Cosmics an LHC15f) OK so far