$\mathsf{CSCS} \leftrightarrow \mathsf{CMS}$

Joosep Pata (ETHZ, CMS) May 12, 2016

01.01 - 12.05

GGUS

<u>467</u>	<u>119845</u> cms	CSCS-LCG2	less urgent	CSCS-LCG2	assigned	2016-05-10	Add ARC test facility for CSCS-LCG2
<u>466</u>	<u>121232</u> cms	CSCS-LCG2	less urgent	CSCS-LCG2	waiting for reply	2016-05-10	T2_CH_CSCS PhEDEx FileDownload agent dow
<u>465</u>	<u>121212</u> cms	CSCS-LCG2	less urgent	VOSupport	solved	2016-05-10	T2_CH_CSCS arc01 and arc02 queue name ch
<u>461</u>	<u>120921</u> cms	CSCS-LCG2	urgent	CSCS-LCG2	waiting for reply	2016-05-10	ask for eos quota
<u>459</u>	<u>120865</u> cms	CSCS-LCG2	urgent	VOSupport	closed	2016-05-03	what's the story with T2_CH_CSCS
<u>456</u>	<u>120489</u> cms	CSCS-LCG2	urgent	CSCS-LCG2	closed	2016-04-15	arc03 CE
<u>454</u>	<u>120505</u> cms	CSCS-LCG2	urgent	CSCS-LCG2	closed	2016-05-06	Large amount of GLEXEC ERRORS on T2_CH_C
<u>446</u>	<u>119790</u> cms	CSCS-LCG2	less urgent	CSCS-LCG2	verified	2016-02-29	One CMS Frontier squid at T2_CH_CSCS
<u>445</u>	cms	CSCS-LCG2	less urgent	SWING helpdesk	solved	2016-03-01	Add ARC test facility for CSCS-LCG2
<u>444</u>	<u>119762</u> cms	CSCS-LCG2	urgent	CSCS-LCG2	closed	2016-03-14	file download phedex service down at T2
<u>442</u>	<u>119612</u> cms	CSCS-LCG2	urgent	VOSupport	closed	2016-03-21	Moving T2_CH_CSCS to multicore
<u>440</u>	cms		less urgent	NGI_CH First Level Support	assigned	2016-02-02	Be informed about all the CMS Tickets ad
<u>439</u>	<u>119171</u> cms	CSCS-LCG2	urgent	CSCS-LCG2	waiting for reply	2016-05-10	Workflow failures at T2_CH_CSCS
<u>431</u>	<u>117769</u> cms	CSCS-LCG2	very urgent	CSCS-LCG2	closed	2015-12-16	Failing transfer from T2_CH_CSCS to T1_U
<u>427</u>	<u>117068</u> cms	CSCS-LCG2	less urgent	CSCS-LCG2	closed	2016-01-25	Add new CE for T2_CH_CSCS

#454 (urgent): two weeks without input, CMS banned in #459 **#439 (urgent)**: first reported in January, problem found only after direct intervention from CMS central ops

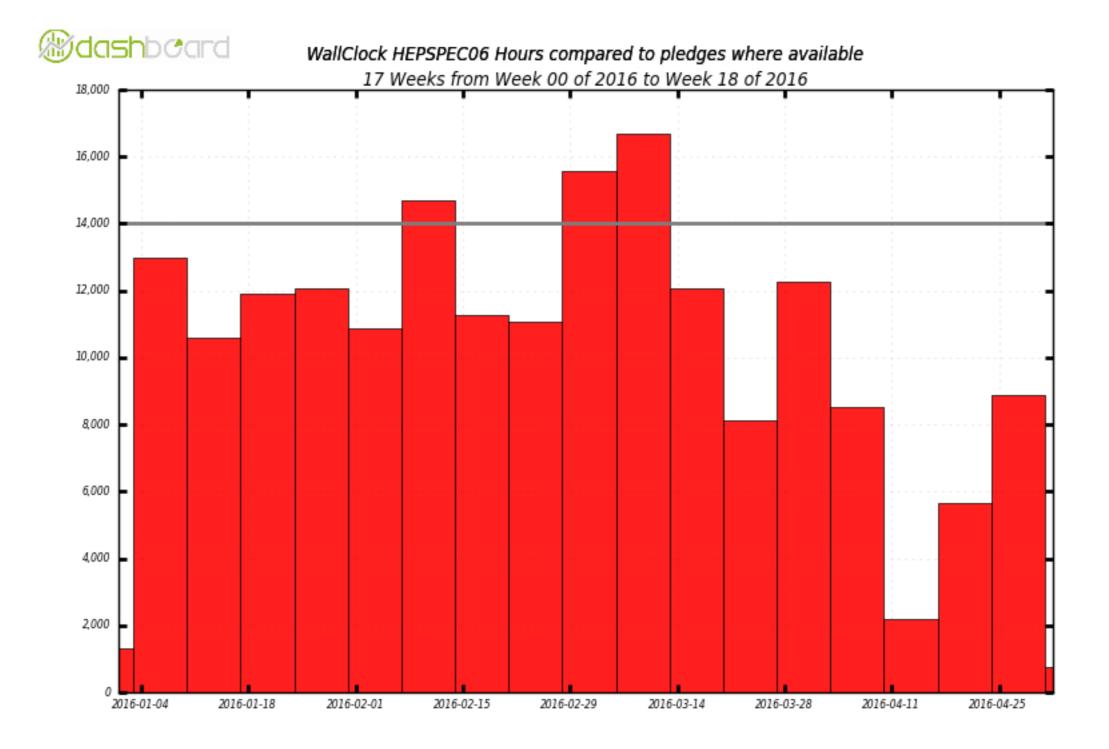
Main concerns

- Need to find a way for CSCS admins to forward GGUS tickets to CMS contacts **automatically** to prevent multi-week delay in discovering a problem as in #454: Derek setting up a list?
- Need a way for CMS contacts to debug issues locally, to prevent issues being forgotten/shelved like #439

From CMS Central ops

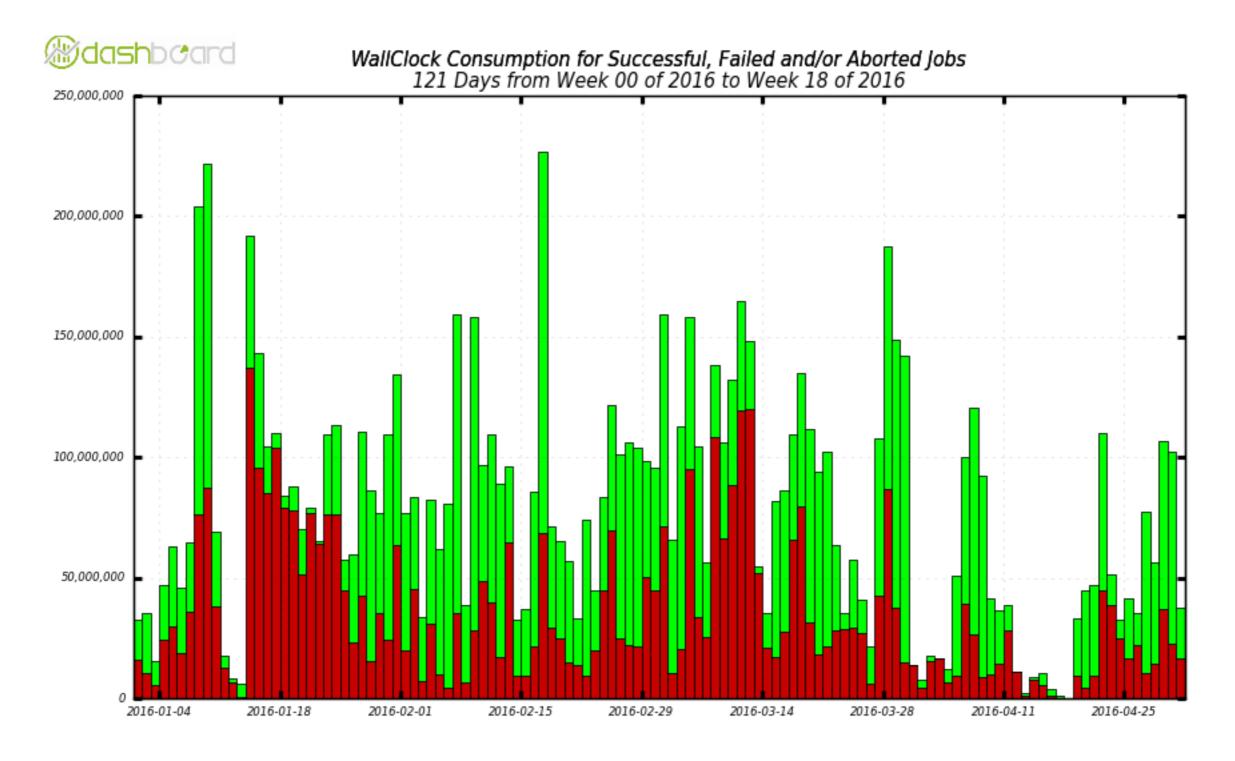
Unfortunately, there is no formal way for the site contacts to debug issues centrally. They are expected to have access through the site administration itself.

HEPSPEC



bonus slides

Overall WallClock



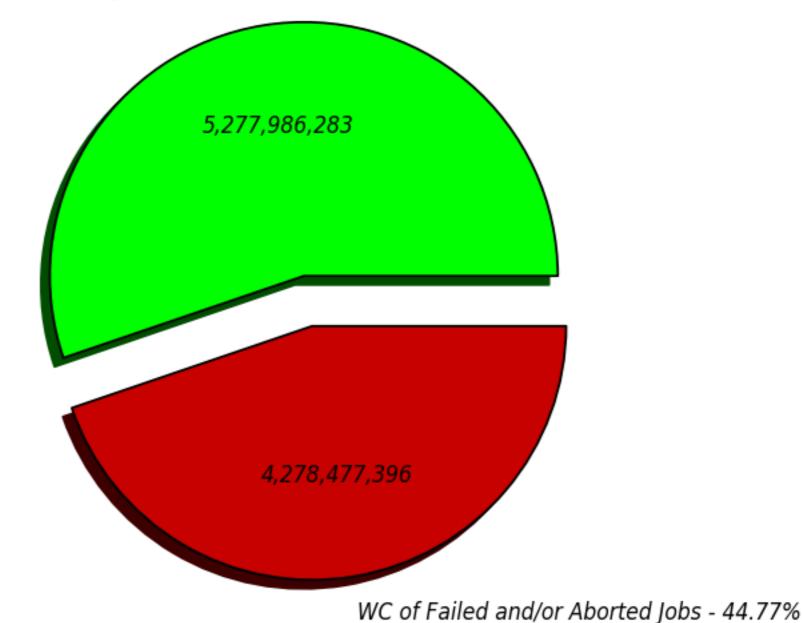
WallClock Consumption of Successful Jobs

WallClock Consumption of Failed and/or Aborted Jobs

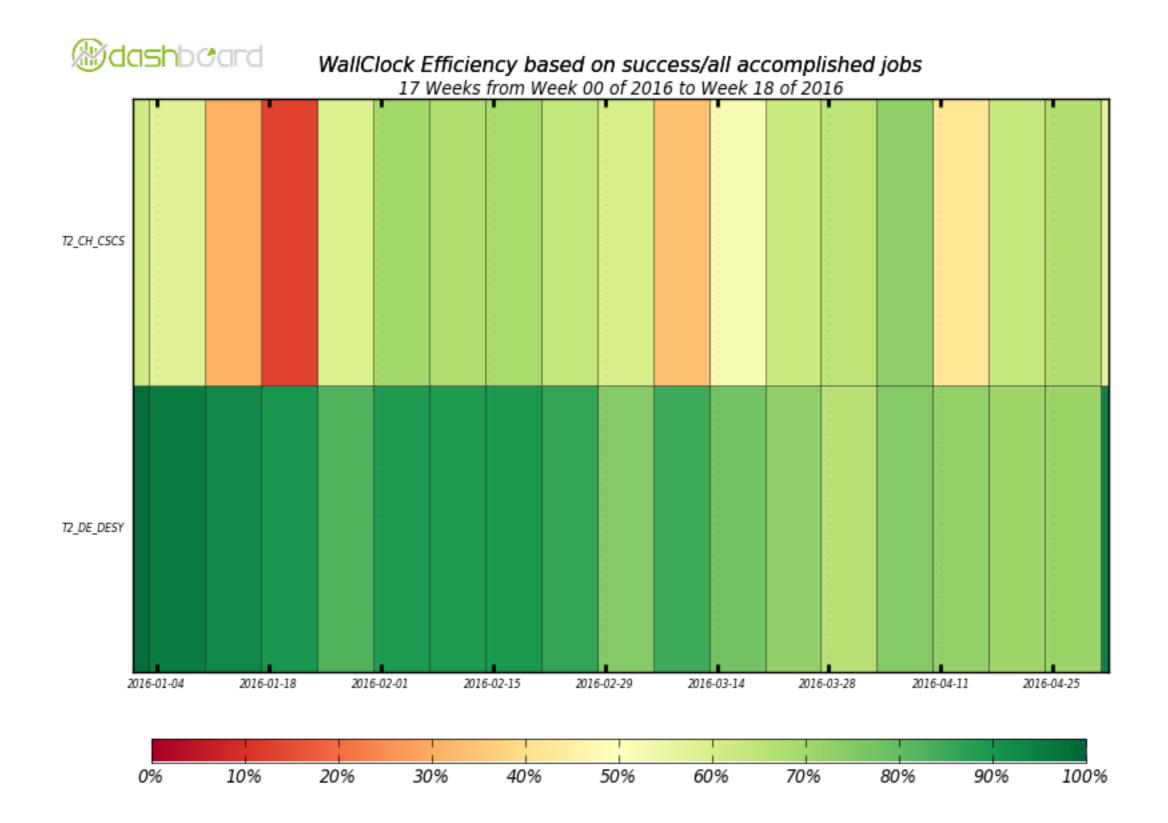
WallClock efficiency

Wdashboard

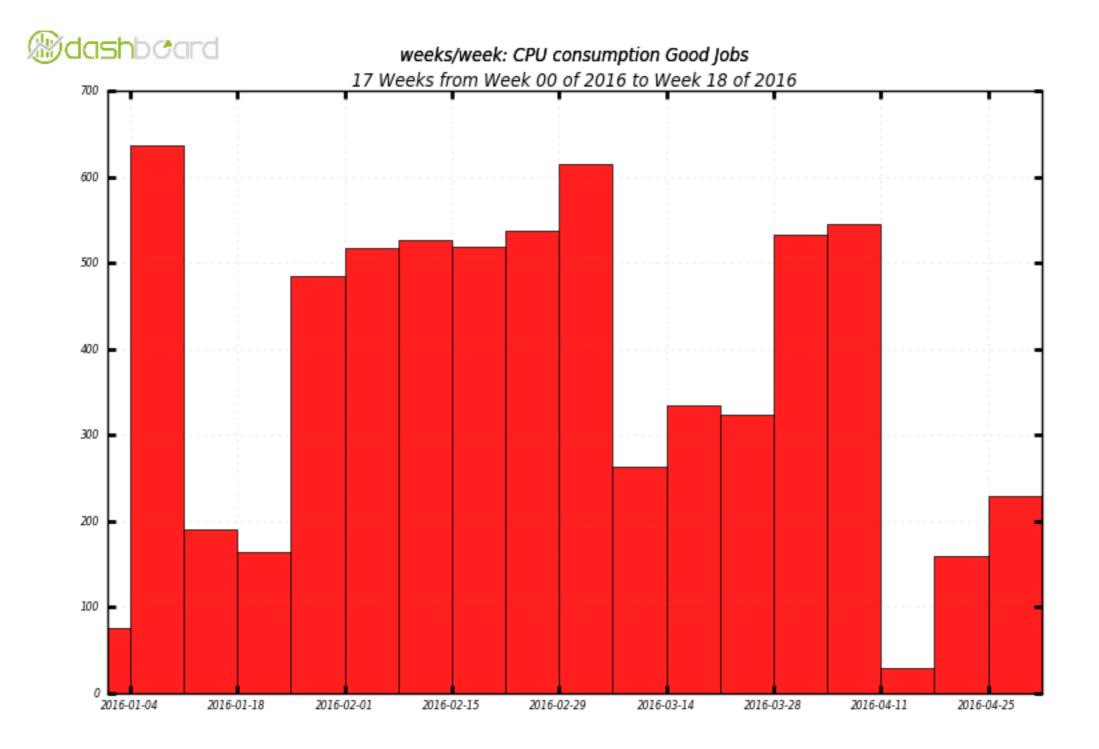
WC Consumption for Successful, Failed and/or Aborted Jobs (Sum: 9,556,463,679) WC of Successful Jobs - 55.23%



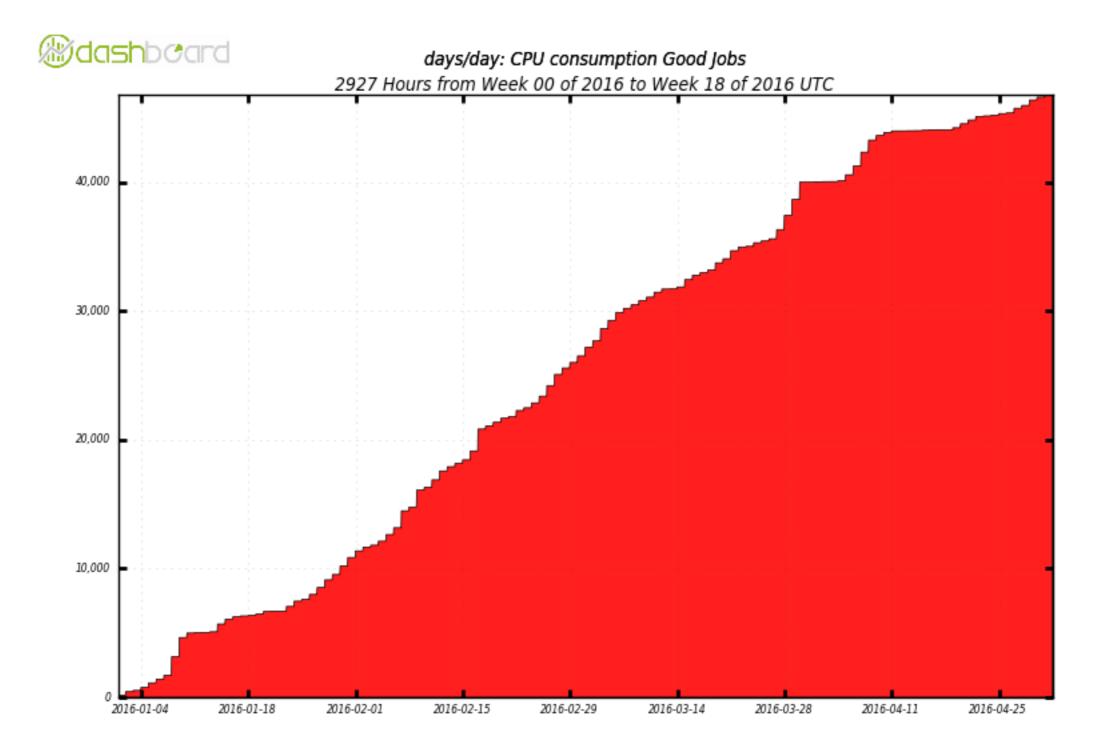
efficiency over time



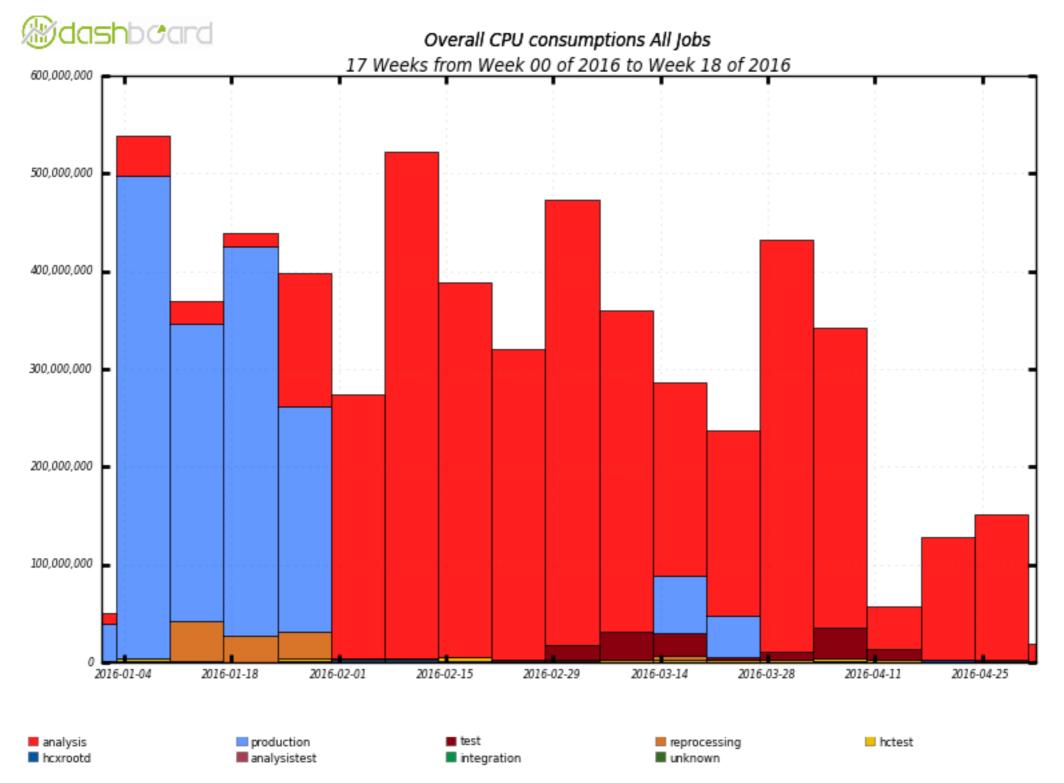
Good job CPU consumption



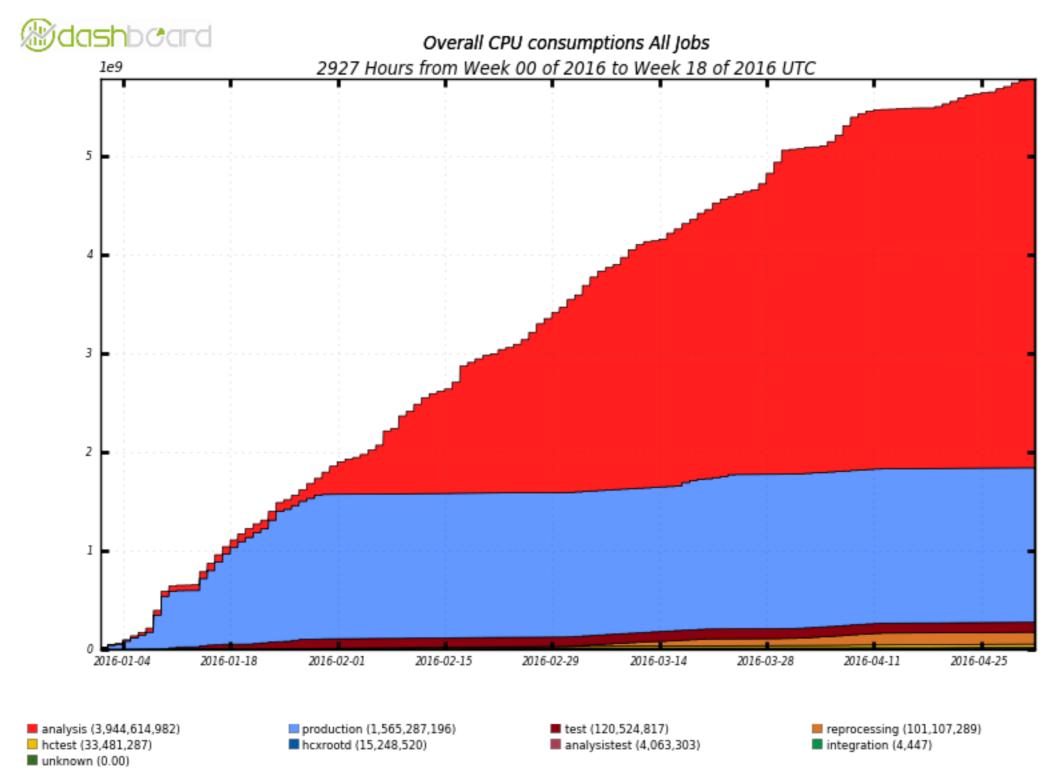
total CPU consumption



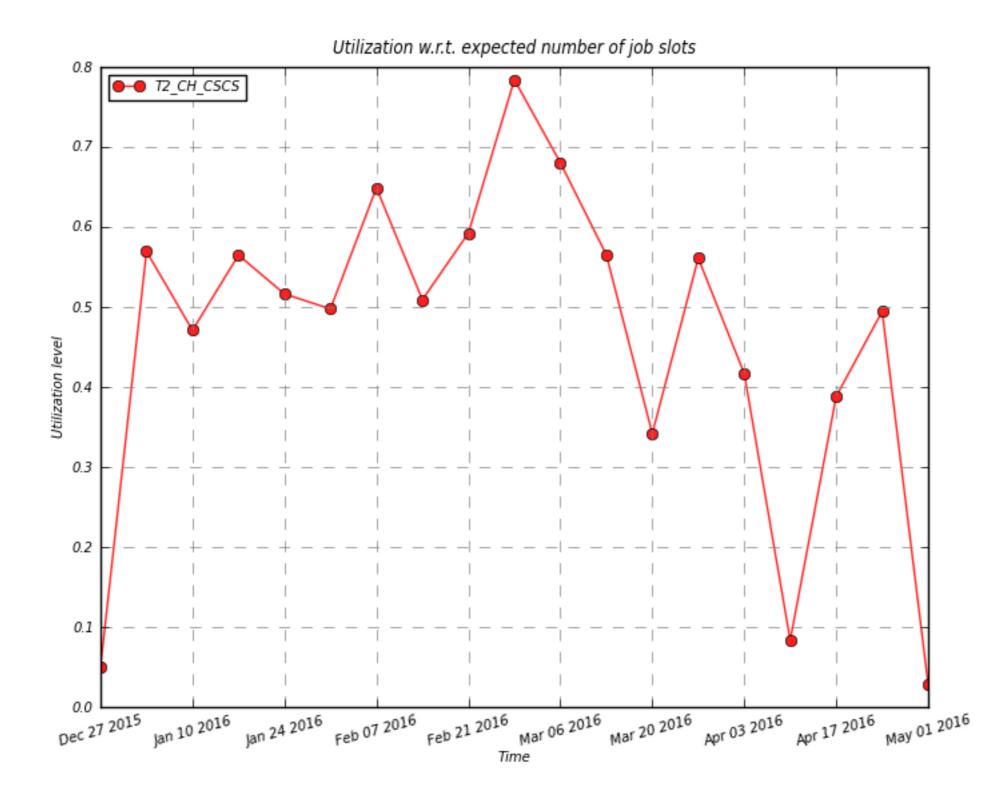
Job types



Job types

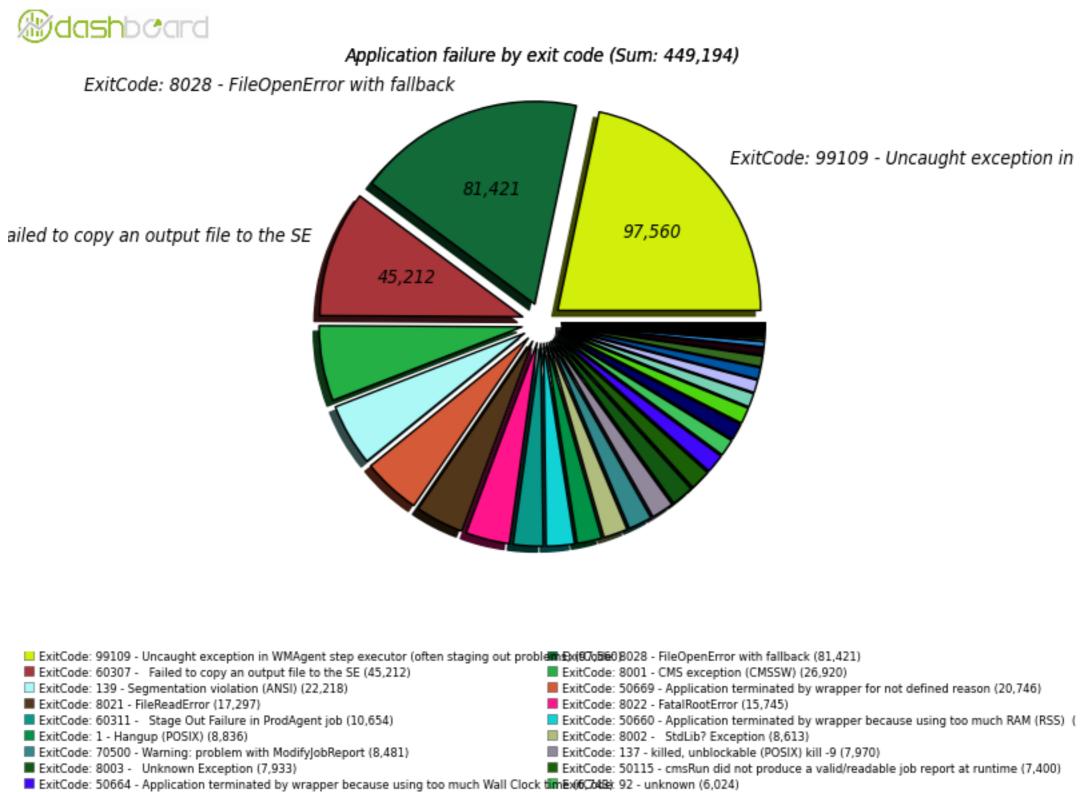


Utilization



14

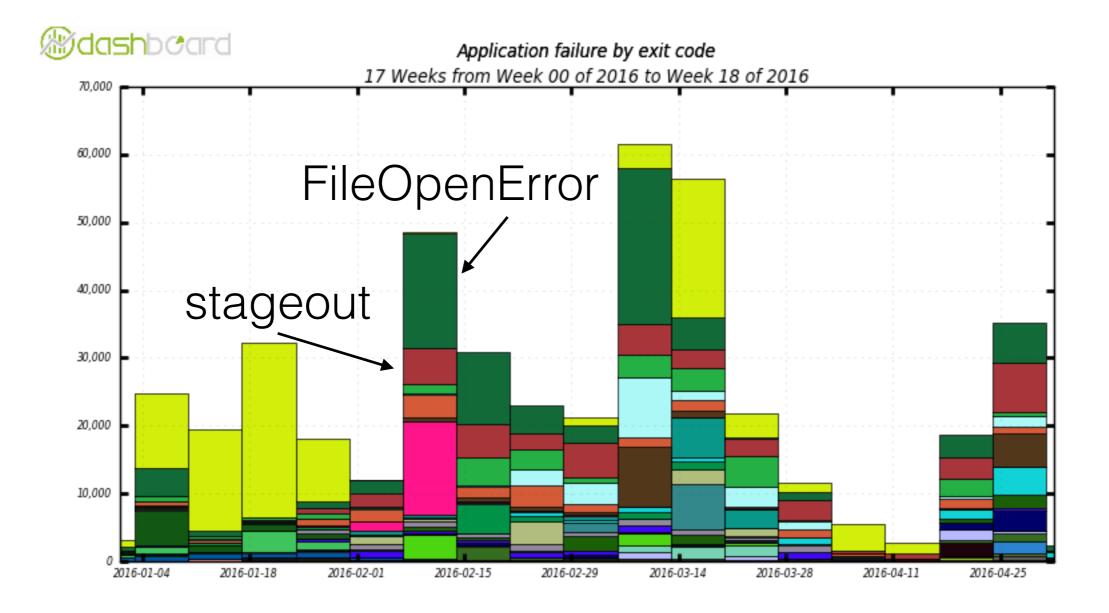
App failure codes



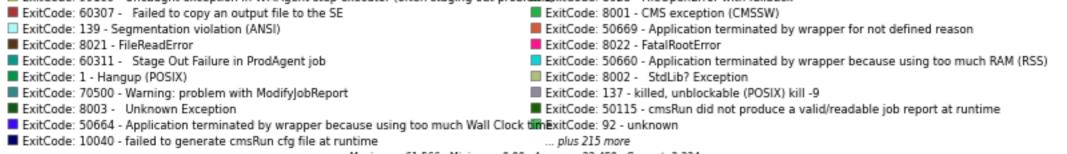
ExitCode: 10040 - failed to generate cmsRun cfg file at runtime (5.884)

nlus 215 more

Failure codes over time

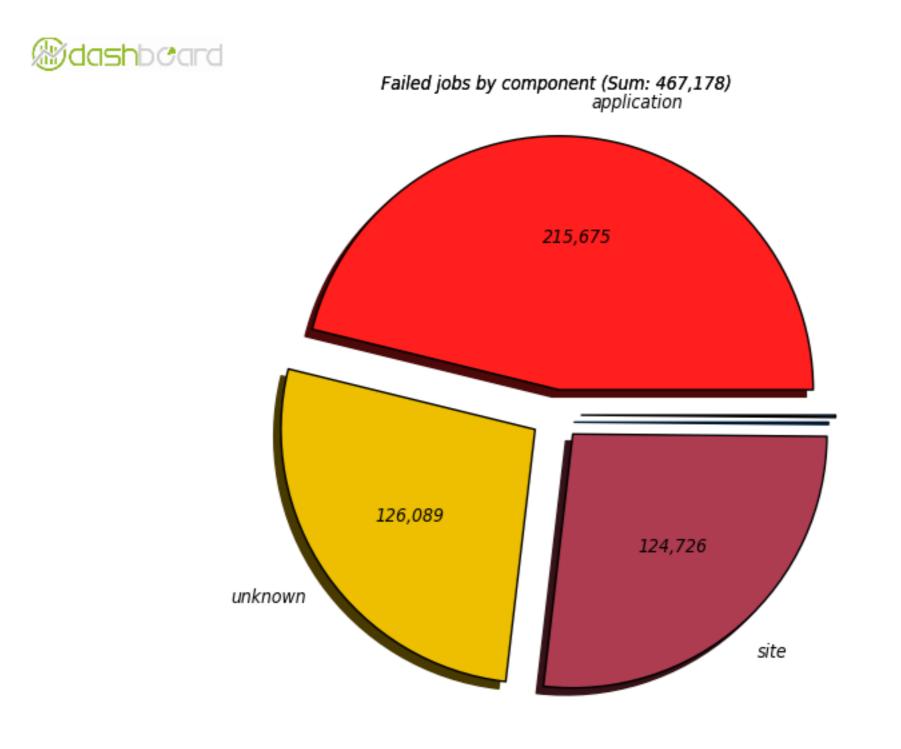


ExitCode: 99109 - Uncaught exception in WMAgent step executor (often staging out problem ExitCode: 8028 - FileOpenError with fallback



Maximum: 61,566 , Minimum: 0.00 , Average: 22,459 , Current: 2,334

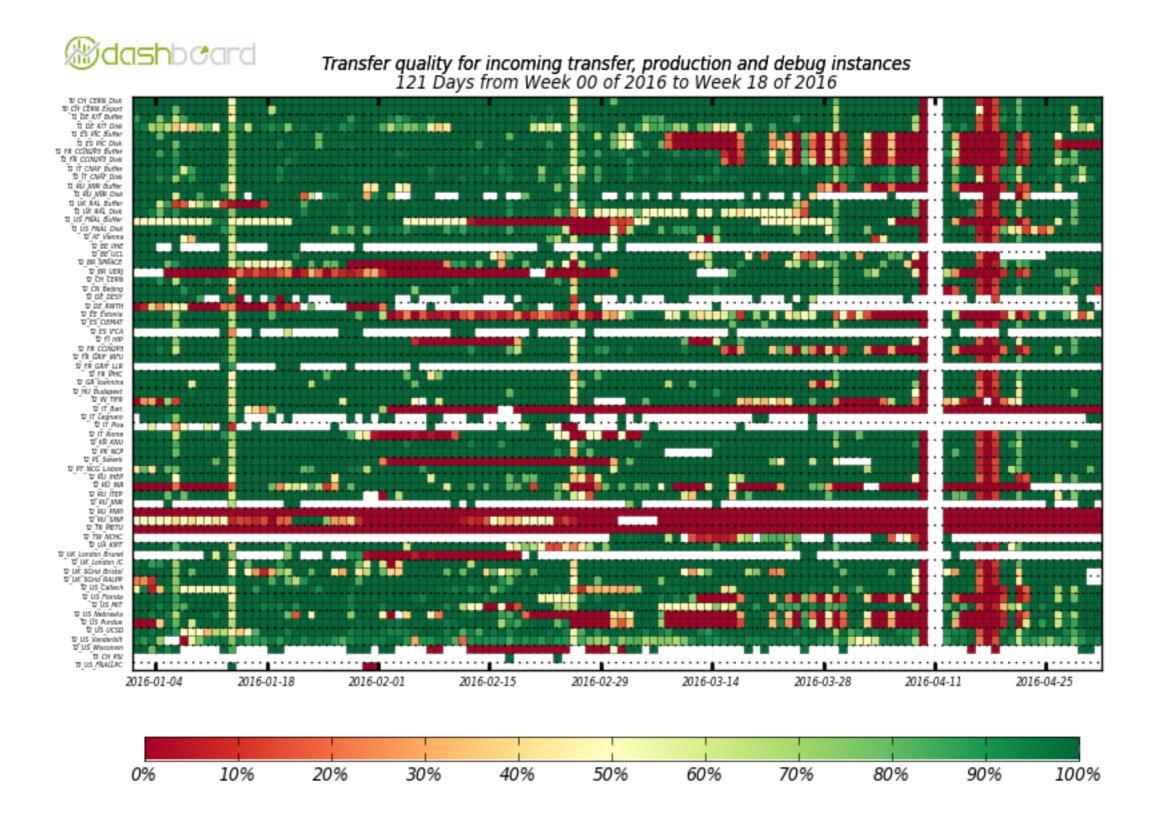
Overall efficiency



transfers out



transfers in

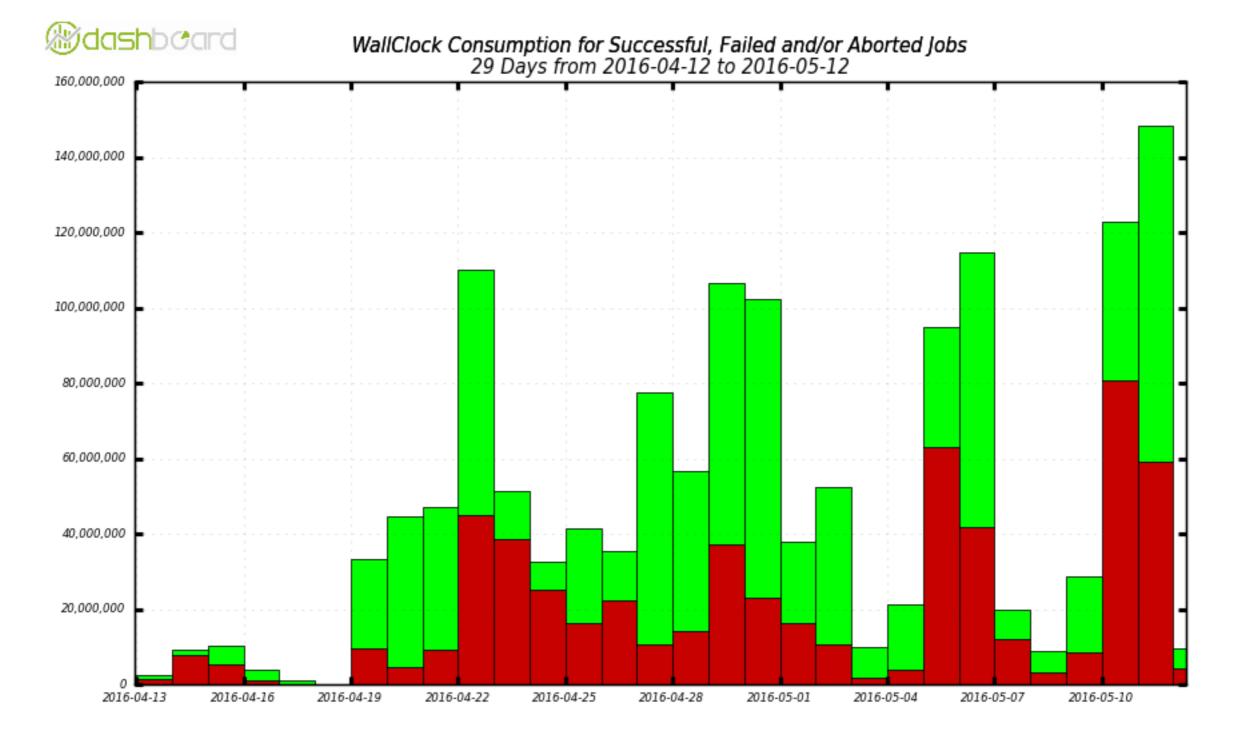


T2_DE_DESY



Time

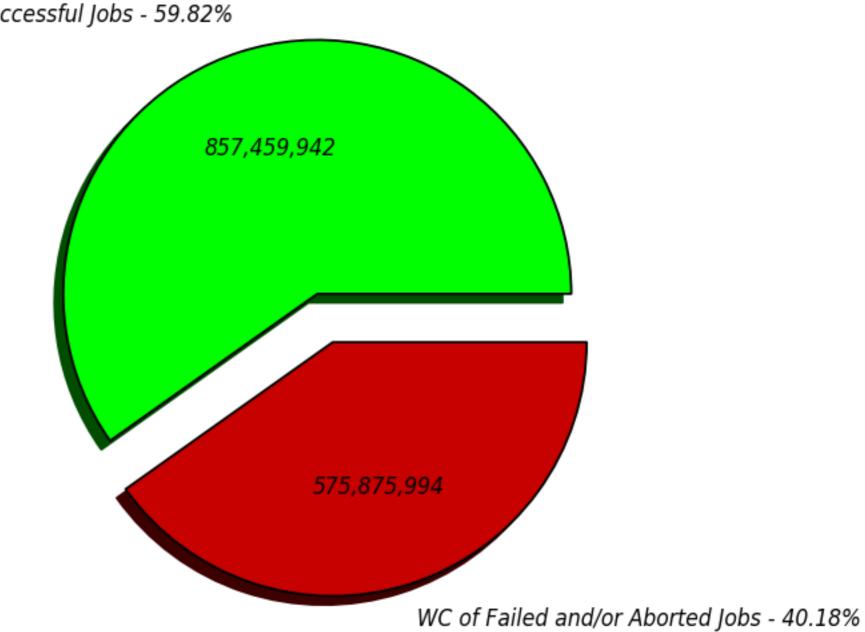
Last month



WallClock Consumption of Successful Jobs

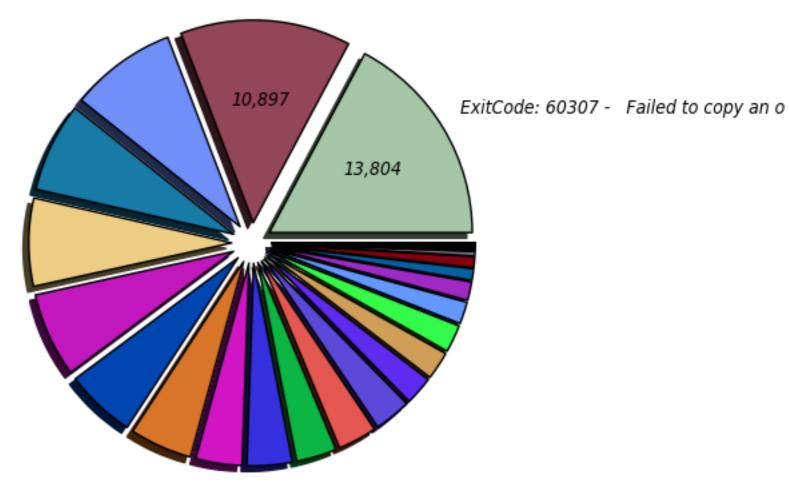
WallClock Consumption of Failed and/or Aborted Jobs





WC Consumption for Successful, Failed and/or Aborted Jobs (Sum: 1,433,335,937) WC of Successful Jobs - 59.82%





Application failure by exit code (Sum: 80,199) ExitCode: 8028 - FileOpenError with fallback

ExitCode: 60307 - Failed to copy an output file to the SE (13,804)	ExitCode: 8028 - FileOpenError with fallback (10,898)
ExitCode: 50660 - Application terminated by wrapper because using too much RAM (RSS)	IB,B0RCode: 99109 - Uncaught exception in WMAgent step executor (often staging out problem)
ExitCode: 8001 - CMS exception (CMSSW) (5,623)	ExitCode: 8021 - FileReadError (5,400)
ExitCode: 8002 - StdLib? Exception (4,499)	ExitCode: 10040 - failed to generate cmsRun cfg file at runtime (3,993)
ExitCode: 50669 - Application terminated by wrapper for not defined reason (2,962)	ExitCode: 139 - Segmentation violation (ANSI) (2,889)
ExitCode: 50115 - cmsRun did not produce a valid/readable job report at runtime (2,579)	ExitCode: 8009 - ConfigurationProblem (2,500)
ExitCode: 60302 - Output file(s) not found (2,348)	ExitCode: 8020 - FileOpenError (1,821)
ExitCode: 8027 - FormatIncompatibility (1,795)	ExitCode: 74 - unknown (1,763)
ExitCode: 10034 - Required application version is not found at the site (1,409)	ExitCode: 50664 - Application terminated by wrapper because using too much Wall Clock ti
ExitCode: 80000 - unknown (739.00)	plus 70 more

