



# A new dashboard for the nightly builds and tests

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## Introduction

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# Introduction

# Why?

- Updated graphical user interface
- Integration with new features
- Segmentation between front-end and back-end
- Improved mobile version

# Why?

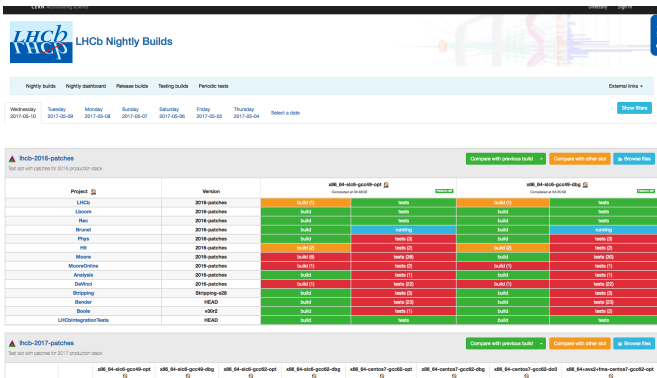


Figure: New dashboard

# Features

# Improvements

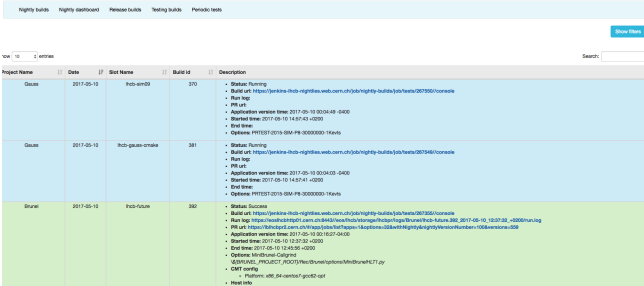
- All in one place: all the different flavours can be reached from the main interface
- Authentication
- Improved filters
- Mobile ready



# New features

## Periodic tests interface

## Integration tests that are not run at every build



The screenshot shows the Jenkins periodic tests interface. At the top, there are navigation tabs: "Nightly builds", "Nightly dashboard", "Release builds", "Testing builds", and "Periodic tests". A "Show filters" button is on the right. Below the tabs, there is a search bar and a "view" dropdown set to "16 entries". The main content is a table with columns: "Project Name", "Data", "Job Name", "Build Id", and "Description".

Project Name	Data	Job Name	Build Id	Description
Gauss	2017-05-10	rbcb-am03	370	<ul style="list-style-type: none"><li>Status: Running</li><li>Build url: <a href="https://jenkins-ibcb-nl.grid5es.web.cern.ch/job/highly-builds/job/testa/307550/console">https://jenkins-ibcb-nl.grid5es.web.cern.ch/job/highly-builds/job/testa/307550/console</a></li><li>Run log</li><li>PR url</li><li>Application version time: 2017-05-10 00:04:48 -0400</li><li>Started time: 2017-05-10 14:57:43 -0200</li><li>End time</li><li>Options: PRTTEST 2017-05-PM-30000000-1Kv6ts</li></ul>
Gauss	2017-05-10	rbcb-gauss-omska	381	<ul style="list-style-type: none"><li>Status: Running</li><li>Build url: <a href="https://jenkins-ibcb-nl.grid5es.web.cern.ch/job/highly-builds/job/testa/307540/console">https://jenkins-ibcb-nl.grid5es.web.cern.ch/job/highly-builds/job/testa/307540/console</a></li><li>Run log</li><li>PR url</li><li>Application version time: 2017-05-10 00:04:02 -0400</li><li>Started time: 2017-05-10 14:57:41 -0200</li><li>End time</li><li>Options: PRTTEST 2017-05-PM-30000000-1Kv6ts</li></ul>
Sharnel	2017-05-10	rbcb-future	392	<ul style="list-style-type: none"><li>Status: Success</li><li>Build url: <a href="https://jenkins-ibcb-nl.grid5es.web.cern.ch/job/highly-builds/job/testa/307550/console">https://jenkins-ibcb-nl.grid5es.web.cern.ch/job/highly-builds/job/testa/307550/console</a></li><li>Run log: <a href="https://s3.amazonaws.com/ibcb01.cern.ch/s3-us-east-1-ibcb-storage-bucket/logs/ibcb/future/392_2017-05-10_13:37:02_4880RunLog">https://s3.amazonaws.com/ibcb01.cern.ch/s3-us-east-1-ibcb-storage-bucket/logs/ibcb/future/392_2017-05-10_13:37:02_4880RunLog</a></li><li>PR url: <a href="https://bitbucket.org/cern/ibcb-apps/job/TestApps-1&amp;options=SB&amp;view=logs#at=ibcb/future/392">https://bitbucket.org/cern/ibcb-apps/job/TestApps-1&amp;options=SB&amp;view=logs#at=ibcb/future/392</a></li><li>Application version time: 2017-05-10 00:16:27 -0400</li><li>Started time: 2017-05-10 13:35:32 -0200</li><li>End time: 2017-05-10 13:43:36 -0200</li><li>Options: MTD:min:CalcPnl</li><li>MSHURL_PROJECT_IDCO1:file:/usr/share/systems/MinShareV4L71.py</li><li>CMT:copying<ul style="list-style-type: none"><li>Platform: x86_64-ubuntu16.04-2</li></ul></li><li>Host info</li></ul>

Figure: Periodic tests interface

# New features

## New statistics dashboard

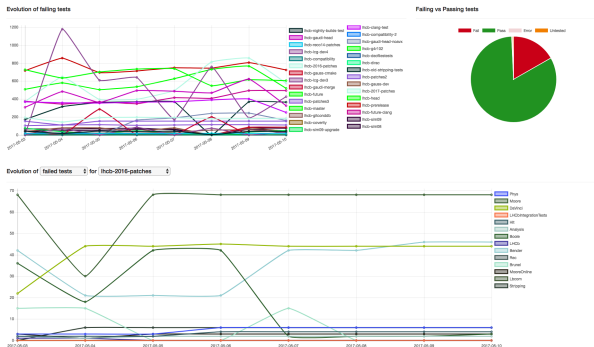


Figure: New statistics dashboard

# New features

## Build comparison

Nightly builds    Nightly dashboard    Release builds    Testing builds    Periodic tests

▼ [Logout](#)

▲ [lhc-2016-patches - build: 382 \(2017-05-09\)](#) ↔ [lhc-2016-patches - build: 383 \(2017-05-10\)](#)

Project	Version	x86_64-el6-gcc48-opt		x86_64-el6-gcc48-opt	
LHCb	2016-patches	1	175	1	175
Libcorn	2016-patches	OK	1	OK	1
Roo	2016-patches	OK	19	OK	19
Drumel	2016-patches	OK	running	OK	running
Phys	2016-patches	OK	16 (3)	OK	16 (3)
HS	2016-patches	2	41 (3)	2	41 (3)
Moore	2016-patches	6	50 (30)	OK	50 (30)
MasterOnline	2016-patches	1	4 (2)	1	4 (1)
Analysis	2016-patches	OK	30 (1)	OK	30 (1)
DelVinci	2016-patches	1	67 (22)	1	67 (22)
Stripping	Stripping-x86	OK	10 (3)	OK	10 (3)
Bandier	HEAD	OK	39 (23)	OK	39 (23)
Bookie	x3v2	OK	21 (1)	OK	21 (2)
LHCIntegrationTests	HEAD	OK	1	OK	1

Figure: Build comparison

# New features

## Slot comparison

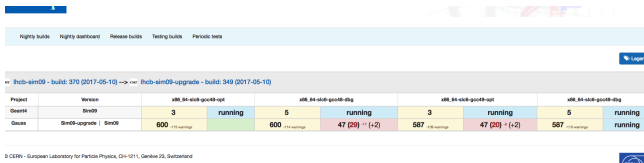


Figure: Slot difference

# New features

## Platform comparison

Nightly builds    Nightly dashboard    Release builds    Testing builds    Periodic tests

Incub-2016-patches - build: 383 (2017-05-10) Platforms : x86\_64-sic6-gcc49-opt vs x86\_64-sic6-gcc49-cbug

Project	Version	x86_64-sic6-gcc49-opt vs x86_64-sic6-gcc49-cbug	
LHCb	2016-patches	1	175
Libcint	2016-patches	OK	1
Relc	2016-patches	OK	19
Brunei	2016-patches	OK	running
Phys	2016-patches	OK	16 (3)
Hi	2016-patches	2	41 (2)
Moore	2016-patches	0 <small>Failed</small>	50 (24) = (-8)
MasterOnline	2016-patches	1	4 (2) = (-1)
Analysis	2016-patches	OK	30 (1)
Delvenc	2016-patches	1	67 (22)
Stripping	Stripping-x86	OK	10 (3)
Builder	HEAD	OK	39 (23)
Scale	v39v2	OK	21 (1) ..
LHCbIntegrationTests	HEAD	OK	1

Figure: Platform comparison

# Technologies and Infrastructure

# Technologies

- Django back-end in Python
- HTML 5 ready
- CSS3 ready
- Bootstrap framework
- JQuery

# Infrastructure

- Testing environment on Openshift
- Production environment on Openstack (*lbjenkins*)
- Communication with Couchdb<sup>1</sup> on localhost for fast data aggregation
- Cache implementation for data
- Parallelized internal tasks for data aggregation

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<sup>1</sup><http://couchdb.apache.org/>.



# Conclusion

- 2017 design based on bootstrap
- Statistics
- Comparison tool
- PR tests
- Mobile ready



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