

Nightly Builds: NEWS

- 55 branches, 69 platforms (*47/65 4 months ago*)
- 17.X.0 nightlies started (with 16.0.X, 16.1.X, 16.2.X, 16.4.X, 16.6.X branches still building)
- Computing farm (~50 machines) works at full capacity
- Hardware upgraded to 8-cpu, 16-24 GB RAM
- Excellent stability of the Nightly System despite recent AFS and TC outages
 - Under surveillance 20 hours a day (by me and release shifters)
- High level of success of ATN tests (90% or more) for major nightlies
- For each new “full” nightly platform requested we need a new machine
- First SLC5 VM machine and machine CVMFS client are available on the farm

Nightlies News (2)

- GAUDI is fully supported in the Nightly System
 - GAUDI packages can be added to cache nightlies
- PackDist (package with kit building sw) is converted into regular ATLAS package in DetCommon project (also in the Tag Collector)
- Script for building pacballs of the nightly releases is finalized (thanks to Tom Doherty and Stan Thompson)
 - All nightly releases come with kits, rpms, and pacballs
 - Multiplatform kits are created if necessary
 - Nightlies download areas ("*releases-from-nightlies*", "*releases-from-nightlies-val*") look the same as the "*releases*" area with stable releases
- Improved handling of TC problems
 - Jobs are stopped if TC problems are fatal
 - When >50% are not compiling the auto emails are disabled

Improvement of Nightlies Web Pages

- In NICOS Build Summaries: by default failing packages are sorted in build order while successful packages are displayed alphabetically
- NICOS global page is now searchable (thanks to Brinick for suggesting jquery script)

Message of a day about nightlies problems and usability


03 Apr 2011: no technical problems observed

Two numbers for build failures and test success percentages represent cases when only errors are counted and errors AND "serious" warnings into account (the latter posted in messages).

NEW: Search the nightlies table

Nightly Title	# Platf / Proj	Latest	Build	Date	Copy	Kit	KV >>	RPM	PACBALL	Ave. Failed Builds (w/warnings)	Ave. Test Success,% (no warnings)
BUGFIX NIGHTLIES											
16.0.X	1/11	rel_2	done	04/05 11:23	done	rel_2	✓✓	N/A	rel_2	rel_2	0 (0.5) 91.7 (91.4)

Stability of the Nightlies

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In 2011: 60%
problems were
caused by the
TC outages

Excellent stability overall

Nightlies Plans

- Include AtlasSetup in nightly job procedures (Aug 2011)
- Independent (separate) AFS server for NICOS ?
 - Nightly jobs strongly depend on AFS:
 - Synchronization via AFS-based stamps
- Upload nightlies on CVMFS (see talk at today's CVMFS meeting)
 - Plan: deploy ~ 2 full nightly releases and 4 nightly caches
 - First test nightly builds cache nightly based on the CVMFS-deployed release: fast and reliable builds
- Make KV tests standard (currently run for few cache nightlies)
 - Issue: KV requires the base release co-located with patch releases while nightly jobs download cache releases separately

Status of ATN testing framework

- Total number of ATN tests in development nightlies reached 451 (was 411 in Dec. 2010)
- ATN efficiently uses multiprocessor machines:
 - In 10-project nightlies tests of upstream projects are performed in parallel with compilations of downstream projects
 - In cache nightlies independent test suites run in parallel
- Test results are available by 10:00 – 12:00 for major nightlies