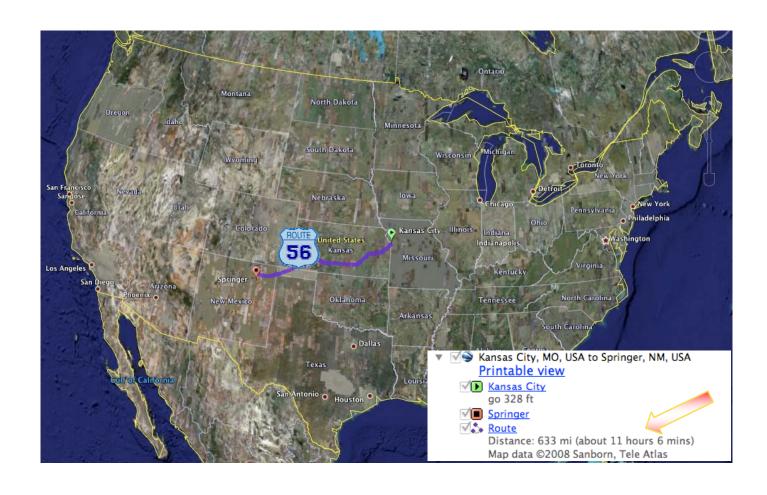
On the road to LCG 56

Stefan Roiser PH/SFT



A bit of geography ...







LCG Configuration 56



- Candidate for next year production
- Including several changes
 - New platforms / compiler
 - slc5, gcc 4.3, vc9
 - Project upgrades / fixes
 - Eg. Root 5.22.00
 - "External" software upgrades
 - Boost, Qt, ...



LCG 56 - platforms



- New platforms / compilers
 - slc5
 - Two virtual machines running (32 / 64 bit) -> producing gcc 4.3 builds
 - Externals are used through symlinks
 re-compilation needed
 - $-\gcd 4.3(.2)$
 - All projects successfully compile
 - All externals re-compiled (on slc4)
 - VC 9 (Visual Studio Express)
 - Still problems with the build machine
 - Status after CINT STL fixes is pending

```
slc4_ia32_gcc34
slc4_ia32_gcc34_dbg
slc4_amd64_gcc34
slc4_amd64_gcc34_dbg
slc4 ia32 gcc43
slc4_ia32_gcc43_dbg
slc4_amd64_gcc43
slc4_amd64_gcc43_dbg
6686-slc5-gcc34-opt
686-slc5-gcc34-dbg
i686-slc5-gcc43-opt
i686-slc5-gcc43-dbg
€x86 64-slc5-gcc34-opt
€x86_64-slc5-gcc34-dbg
x86_64-slc5-gcc43-opt
x86_64-slc5-gcc43-dbg
osx105_ia32_gcc401
osx105_ia32_gcc401_dbg
win32_vc71_dbg
i686-winxp-vc9-dbg
```



LCG 56 - packages



- Project upgrades / fixes
 - Two Root releases foreseen
 - Dev release 5.21.05 on Nov. 26 for LCG56-pre?
 - Pro release 5.22.00 on Dec. 18
 - Other minor project changes
- External software upgrades
 - Most notably Boost 1.37 and Qt 4.4.3
 - More upgrades mostly because of gcc 4.3



LCG 56 – configuration



- Use new cmt version
 - To be released today we will use it ASAP
- Use of new tag names
 - Implementation in LCGCMT done
 - Used only for "new" tag names
 - e.g. i686-slc5-gcc43-dbg, x86_64-slc5-gcc34-opt
 - Including a "backward compatibility layer"
 - To be decided when this will be removed
 - Next steps
 - convert LCGCMT + cmt based projects
 - CMT based LHC projects are encouraged to move aswell



LCG/AA nightly builds



(as of today)

problem with reference files



rebuild frontier client / slc5

Wednesday Slot : dev (preview) w towards LCG 56

Project		slc4_ia32_g (Wed Nov 19		slc4_ia32_g (Wed Nov 19		slc4_amd64 (Wed Nov 19				slc4_amd64 (Wed Nov 19				i686-slc5-gc (Wed Nov 19			5-gcc43-dbg 19 09:57 2008)		
LCGCMT	LCGCMT-preview	build	ats	build	tests	build	tests	build	tests	build	tests	build		build	tests	bi d	tests	build	tests
ROOT	ROOT_today	build	tests (2)	build (137)	tests (2)	build	tests (2)	build	tests (2)	build (5)	tests (2)	build	ica.	build (139)	tests (3)	build (3)	tests (2)	build (1)	fests (3)
RELAX	RELAX-preview	build	tests	build (1)	tests	build	tests	build	tests	build (1)	tests	build	tests	uild (1)	tests	build (1)	tests	build (47)	tests (7)
CORAL	CORAL-preview	build	tests	build (2)	tests	build	tests	build	tests	build (2)	tests	build (2)	tests	build (6)	tests	build (6)	tests	build (260)	tests
POOL	POOL-preview	build	tests (50)	build (258)	tests (51)	build	tests (50)	build	tests (50)	build (258)	tests (50)	build (7)	tests (50)	build (258)	tests (50)	build (260)	t s (50)	build (176)	tests (52)
COOL	COOL-preview	build) s (1)	build	tests (1)	build	tests (1)	build	tests (1)	build	tests (1)	build	fests (1)	build (2)	fests (1)	build (2)	<u> </u>	build (39)	tests (44)
GAUDIATLAS	GAUDI_ATLAS	build (114)	s (57)	build (135)	tests (build (164)	tests (57)	build (164)	tests (57)	build (137)	tests /	build (114)	tests (57)	build (136)	tests (57)	build (13)	ts (57)	build (62)	tests
GAUDI	GAUDI_HEAD	build (118)	s (81)	build (109)	tests (8	build (102)	tests (81)	build (102)	tests (81)	build (95)		build (88)	tests (82)	build (101)	tests (81)	build /	sts (81)	build (62)	tests
LCGTEST	LCGTEST-preview	build	ests	build	tests	build	tests	build	tests	build	.5	build	tests	build	tests (6)	<u> </u>	sts (6)	build (4)	tests (1)

Platforms not ready: i686-winxp-vc9-dbg

memory corruption? syntax error in test

test configuration problem

vc9 build machine fails

pyCool problem



Todo list

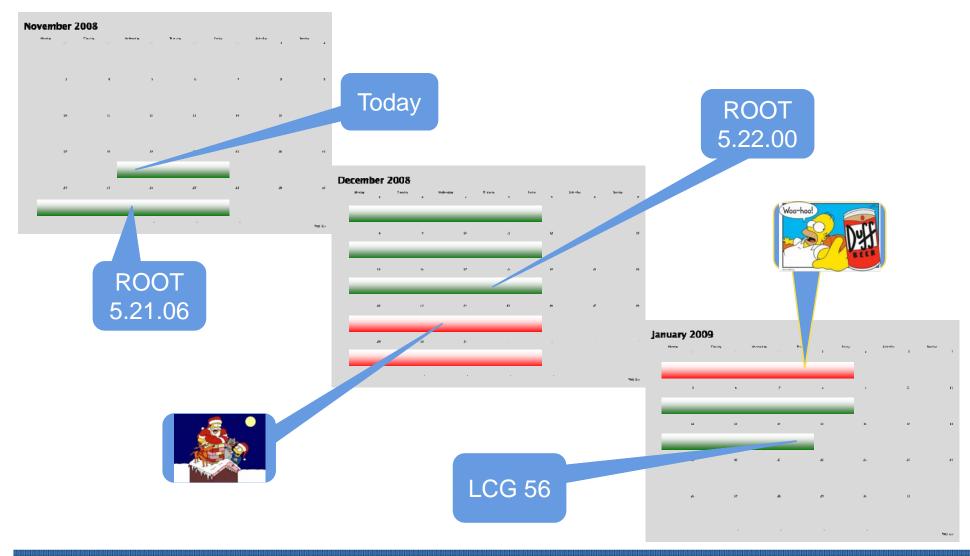


- 1 New project releases
 - 1 ROOT dev + pro releases
 - 2 COOL, CORAL, POOL no major changes
- 2 Recompile external packages on slc5
- 3 Fix Windows builds both VC7.1 and VC9
- 4 slc5 / gcc 3.4 builds
- 5 Use new cmt version
- 6 Apply new tag names for cmt based projects



Time line







Conclusion



The schedule is rather tight but feasible

Please check the nightly builds regularly