

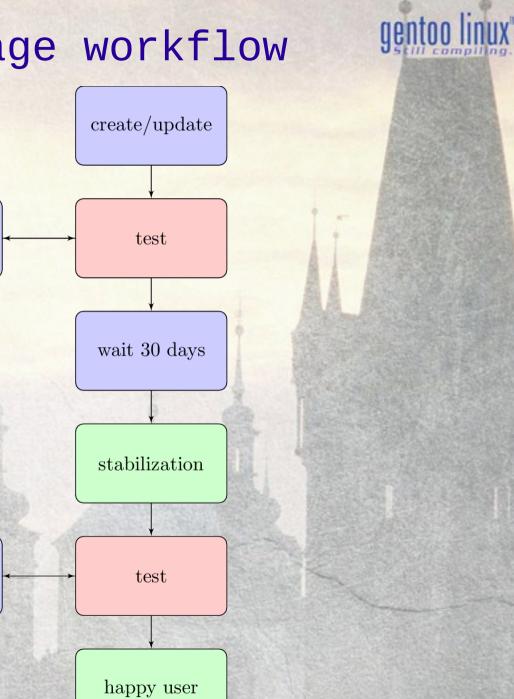
# gentoo@home aka "they'd rather be compiling..."

## package workflow

/

fix

fix



## Fpackage testing



for each config combination
 install deps
 install pkg / unit test
 test pkg / integration test
 remove pkg and deps



tree:~16M packages ~32M ebuilds
5M use flags (average ~2/ebuild)
12 C/C++ compilers (10M packages)
10 python (4M packages)
2 ruby (1.2M packages)
5 jdk (1.4M packages)

>100G tests

not for human

### automation uses



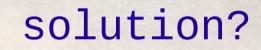
- keywording
- stabilization
- q.a.
- binary package building
- benchmarks (see andrea's talk)
- pypy/clang/... testing
- integration tests
- release ?

### other distros?



### opensuse openqa (go see next door now!) fedora autoqa ubuntu checkbox/autotest/pbuilder

probably some scripts to recycle
but: need more resources / time / flexibility





### use community resources enter volunteer computing

## virtualization



the easiest way for clean base systems
 we can compile on ms users machines
could be modular (i.e. lxc for other users)





# two clusters (100+400 cores) nimbus schedulers: condor cloud scheduler





minimal gentoo VM + xen kernel
SL5/xen VM + gentoo prefix minimal

test: sci-physics/root-5.34.01 (27 use flags)
15 min for each compilation (-j4)

FEATURES=test and integration (stress -b)
result: 230 failures 54 success 10 cluster

# Solunteer computing



# how to schedule condor? another pbs?

→ BOINC it!

# upsating initial system gentoo linux

download stage each time?
regenerate base vms every day ? (too many vms?)
network read-only file system (cvmfs) LHC@home

Set binary packages



current approach: build pkg with
default settings/use flags

→ not really useful in gentoo

typical binary distro: all use flags enabled, split binary packages

why not: binary for minimal pkg +
deltas for a decent set of combo
options?

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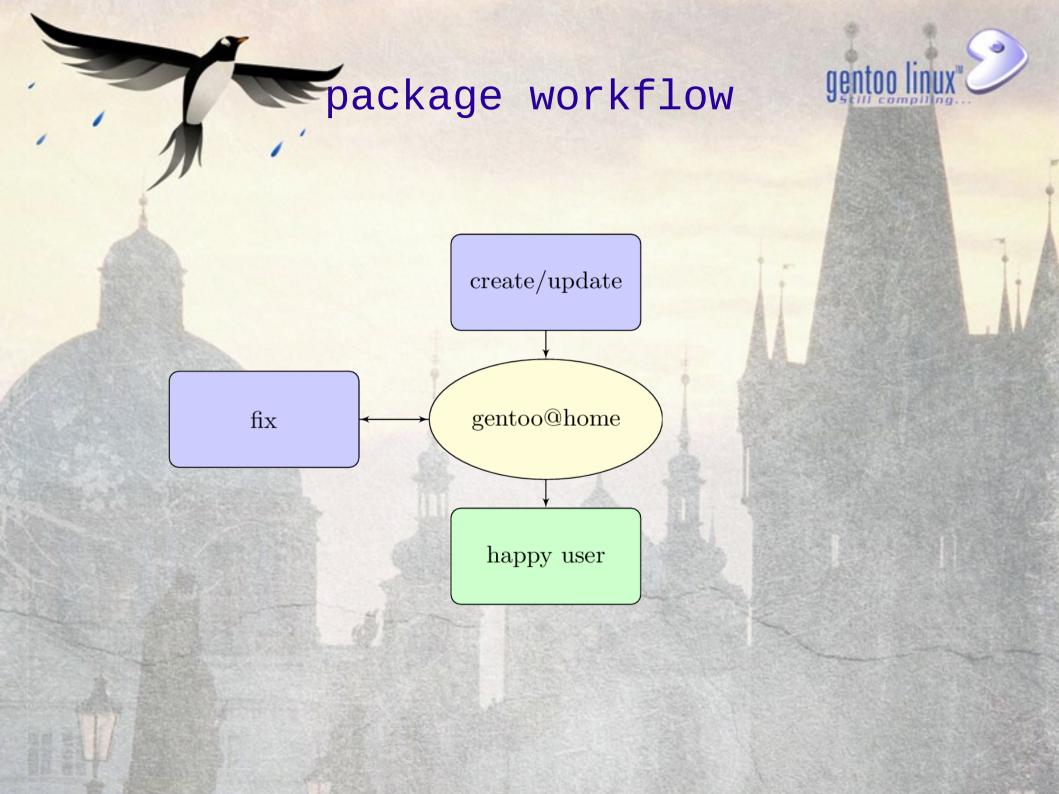
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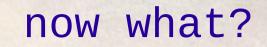


- start with minimal base vm
- lots of scripts to automate
- schedule to community via boinc
- update base via cvmfs
- too much infra work

### some ideas









### still vaporware gsoc 2012: no candidate two gentoo users showed interest

interested? bicatali@gentoo.org