



Gentoo Linux in 5 minutes

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Introduction

- Who am I?
- What is Gentoo?
 - Most distributions have tools that manage the entire system. Do you work for them, or do they work for you?
- Organization
- Docs
 - Gentoo Handbook rated 2nd favorite Linux book by Linux Journal readers, November 2005
- Community



Gentoo features

- 'ebuilds'
- /etc/make.conf
- “Opt-in” versus “opt-out”
- Security-only updates
- Enterprise use
 - Local rsync servers
 - Binary package support
 - Unattended installation
- Integration with CPAN, Ruby gems



New software

- Portage 2.1 – 'elog', speed
 - The core of Gentoo
- GCC 4.1, glibc 2.4 (NPTL)
- Modular X.Org 7.1/7.0
- GNOME 2.14, KDE 3.5, PulseAudio
- Java 1.5, MySQL 5.1, PHP 5.1, Apache 2.2



Installer

- My baby: 2 ½ years old, 1 ½ till first release
- Finally, no more manual installs!
- GTK+, dialog, CLI, Web ...
- Quick install time:
 - ~4-8 hours with stage3
 - ~45 min with stage3+GRP (additional binaries)
 - ~15 min with installer (stage3+GRP+livecd-kernel)



Multiple overlays

- What's an overlay?
- 'layman'
- Xgl
- NetworkManager
- NX, VMWare, webapp, ...



System configuration

- 'eselect' – modular configuration framework
- 'eselect opengl list'
- 'eselect opengl set ati'
- 'eselect compiler set i686-pc-linux-gnu-4.1.1/vanilla'
- 'eselect compiler set \
--ctarget=powerpc-unknown-linux-gnu \
powerpc-unknown-linux-gnu-4.1.1/hardened'



Web applications

- webapp-config
- Friendly to virtual hosts
 - Manage multiple installations, multiple versions, multiple sites simultaneously
- 2-stage install: “stages” in /usr/share/webapps/
- 'webapp-config --list-installs [app-name] [app-version]'
- 'webapp-config --host foo.com --install app-name'
- Minimizes duplication with links



Coming ... soon?

- 2006.1 release
- Direct GLSA/Portage integration
- Mandatory GPG signing of ebuild manifests
- Critical news reporting
- overlays.gentoo.org
- Summer of Code: 14 projects!
 - GUI for baselayout, CVS migration, pkgcore/paludis, NetworkManager, JACK, GuideXML editor, and more
- **SCIRE** – Systems Configuration, Installation and Replication Environment



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<http://dev.gentoo.org/~dberkholz/stateofgentoo/>

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<http://dev.gentoo.org/~rajiv/IntroToGentoo/>

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