EAPI 5 (2012-09-20)

Additions/Changes

Sub-slots The SLOT variable and slot dependencies may contain an optional sub-slot part that follows the regular slot, delimited by a / character; for example 2/2.30. The sub-slot is used to represent cases in which an upgrade to a new version of a package with a different sub-slot may require dependent packages to be rebuilt. If the sub-slot is not specified in SLOT, it defaults to the regular slot. See SUB-SLOT on page 35.

Slot operator dependencies One of the following operators can be specified after package atoms, which will affect updates of runtime dependencies:

- : Any slot value is acceptable, the package will not break when its dependency is updated.

Profile IUSE injection Apart from the USE flags explicitly listed in IUSE, additional flags can be implicitly provided by profiles. See PROFILE-IUSE-INJECT on page 55.

At-most-one-of groups In REQUIRED_USE you can use "?? ( flag1 flag2 ... )" to allow zero or one USE flag out of many. See AT-MOST-ONE-OF on page 32.

Parallel tests The default for src_test runs emake without -j1 now. See PARALLEL-TESTS on page 41.

ecnf changes The econf function now always passes --disable-silent-rules to configure. See ECONF-OPTIONS on page 60.

has_version and best_version changes The two helpers support a --host-root option that causes the query to apply to the host root instead of ROOT. See HOST-ROOT-OPTION on page 59.

usex Usage for this helper function is usex <USE flag> [true1] [false1] [true2] [false2]. If the USE flag is set, outputs [true1][true2] (defaults to yes), otherwise outputs [false1][false2] (defaults to no). See USEX on page 67.

doheader and newheader These new helper functions install the given header file(s) into /usr/include. The -r option enables recursion for doheader, similar to doins. See DOHEADER on page 62.

new* standard input The newins etc. commands read from standard input if the first argument is - (a hyphen). See NEWFOO-STDIN on page 64.

EBUILD_PHASE_FUNC This variable is very similar to EBUILD_PHASE, but contains the name of the current ebuild function. See EBUILD-PHASE-FUNC on page 52.

Stable use masking/forcing New files use.stable. [mask,force] and package.use.stable. [mask,force] are supported in profile directories. They are similar to their non-stable counterparts, but act only on packages that would be merged due to a stable keyword. See STABLEMASK on page 22.

EAPI Cheat Sheet

Gentoo PMS team

Version 5.0
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Abstract

An overview of the main EAPI changes in Gentoo, for ebuild authors. For full details, consult the Package Manager Specification found on the project page; this is an incomplete summary only.

Official Gentoo EAPIs are consecutively numbered integers (0, 1, 2, ...). Except where otherwise noted, an EAPI is the same as the previous EAPI. All labels refer to the PMS document itself, built from the same checkout as this overview.

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EAPI 0

If there is no EAPI explicitly specified, EAPI 0 is assumed.

EAPI 1

Additions/Changes

IUSE defaults A USE flag can be marked as mandatory (if not disabled explicitly by user configuration) with a + sign in front. See IUSE-DEFAULTS on page 28.

Named slot dependencies Dependencies can explicitly request a specific slot by using the dev-libs/foo: SLOT_name syntax. See SLOT-DEPS on page 35.

References:
1. http://creativecommons.org/licenses/by-sa/3.0/