unpack 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 60.

new* standard input

The newins etc. commands read from standard input if the first argument is – (a hyphen). See NEWFOO-STDIN on page 82.

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 50.

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 6 (2015-11-08)

#### Additions/Changes

**Bash version**

Ebuilds can use features of Bash version 4.2 (was 3.2 before). See BASH-VERSION on page 26.

**failglob**

The failglob option of Bash is set in global scope, so that unintentional pattern expansion will be caught as an error. See FAILGLOB on page 54.

**src_prepare**

This phase function has a default now, which applies patches from the PATCHES variable with the new eapply command, and user-provided patches with eapply_user. See SRC-PREPARE-6 on page 39.

**src_install**

The default implementation uses the new einstalldocs function for installing documentation. See SRC-INSTALL-6 on page 41.

**unpack**

This has been extended:

- Pathnames Both absolute paths and paths relative to the working directory are accepted as arguments. See UNPACK-ABSOLUTE on page 66.
- .txz files Suffix .txz for xz compressed tarballs is recognised. See UNPACK-EXTENSIONS on page 66.
- Filename case Character case of filename extensions is ignored. See UNPACK-IGNORE-CASE on page 66.

**econf**

Options --docdir and --htmlmdir are passed to configure, in addition to the existing options. See ECONF-OPTIONS on page 58.

**nonfatal die**

When die or assert are called under the nonfatal command and with the -n option, they will not abort the build process but return with an error. See NONFATAL-DIE on page 56.

**eapply**

The eapply command is a simplified substitute for epatch, implemented in the package manager. The patches from its file or directory arguments are applied using patch -p1. See EAPPLY on page 56.

**eapply_user**

The eapply_user command permits the package manager to apply user-provided patches. It must be called from every src_prepare function. See EAPPLY-USER on page 56.

**einstalldocs**

The einstalldocs function will install the files specified by the DOCS variable (or a default set of files if DOCS is unset) and by the HTML_DOCS variable. See EINSTALLDOWCS on page 67.

**in_iuse**

The in_iuse function returns true if the USE flag given as its argument is available in the ebuild for USE queries. See IN-IUSE on page 65.

**get_libdir**

The get_libdir command outputs the lib* directory basename suitable for the current ABI. See GET-LIBDIR on page 67.

### Removals/Bans

**einstall**

No longer allowed. Use emake install as replacement. See BANNED-COMMANDS on page 55.

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**EAPI Cheatsheet**

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Version 6.0  
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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;¹ 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 documentation, built from the same checkout as this overview.

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#### EAPIs 0, 1, and 2

Omitted for lack of space. See version 5.0 of this document for differences between these previous EAPIs.

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¹https://wiki.gentoo.org/wiki/Project:Package_Manager_Specification
²http://creativecommons.org/licenses/by-sa/3.0/
The two

you can use

runs

change

on page 64.

or

on page 52.

changes

to allow zero or one


on page 35.

IUSE

REQUIRED_USE

AA

characters; for example

host-root

IUSE

OPTIONS

REPLACED_BY_VERSION

SUB-SLOT

atching of

SUB-SLOT

the user early (when just pretending to emerge the

workaround of

PPKG

file), but abort. Virtual packages are the only exception.

If the USE flag is set, output

directives are all

the package manager will not report the build-

commands you specified will show the built-

If you call

phase is no longer

AUX

The

will be pre-activated when the USE

now be called even for non-installed packages.

and the version that is replacing the current one,

versions

combin

is not a direc-

The default for

g

or

(). See

on page 50.

REPLACE

VARS

and the version that is replacing the current one,

MULTI:req

The helper function now always passes

on page 64.

USE flag out of many. See

on page 29.

Illegal combination

variables and define sets of USE flag

combinations that are not allowed. All elements can be

Slot operator dependencies

injection

without

These variables are not defined any more. See

on page 53.

These variables are not defined any more. See

on page 53.

These variables are not defined any more. See

on page 53.

These variables are not defined any more. See

on page 53.

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