EAPI 8 (2021-06-13)

Additions/Changes

 profiles/updates directory Arbitrary filenames are now allowed, instead of strict naming by quarters (like 2Q–2021). See UPDATES-FILENAMES on page 21.

 Bash version Ebuilds can use features of Bash version 5.0 (was 4.2 before). See BASH-VERSION on page 29.

 Selective fetch/mirror restriction In SRC_URI, adding a fetch+ or mirror+ prefix to an individual URI means that the file may be fetched or mirrored. This overrides the corresponding global settings in the RESTRICT variable. See URI-RESTRICT on page 32.

 IDEPEND This variable specifies install-time dependencies on packages used in (e.g.) pkg_postinst. In a cross-compilation environment, these are dependencies for native tools (CBUILD). See IDEPEND on page 35.

 pkg_* phases The initial working directory is guaranteed to be empty. See PHASE-FUNCTION-DIR on page 41.

 src_prepare Items in the PATCHES variable are interpreted as files, even if their name begins with a hyphen. See SRC-PREPARE on page 43.

 PROPERTIES and RESTRICT These variables are accumulated across the ebuild and inherited eclasses, like IUSE, REQUIRED_USE, and DEPEND were before. See ACCUMULATE-VARS on page 49.

 econf If supported, options --disable-static and --datarootdir=${EPREFIX}/usr/share are passed to configure, respectively. See ECONF-OPTIONS on page 65.

dosym With the new option -r, an absolute path specified for the link target will be converted to a path relative to the link location. See DOSYM-RELATIVE on page 69.

 insopts Commands doconfd, doenvd, doheader install files with fixed mode 0644, i.e. they are no longer affected by insopts. See INSOPTS on page 72.

 exeopts Command doinitd installs files with fixed mode 0755, i.e. it is no longer affected by exeopts. See EXEOPTS on page 72.

 usev This helper has an optional second argument now: usev <flag> [true]. If the flag is set, outputs [true], or the flag’s name if called with only one argument. Otherwise outputs nothing. See USEV on page 73.

 Removals/Bans

 useq No longer allowed. Use regular use as a drop-in replacement. See BANNED-COMMANDS on page 61.

 hasv and hasq No longer allowed. Regular has should be used instead. See BANNED-COMMANDS on page 61.

 unpack No longer supports unpacking of 7-Zip, RAR, and LHA archives. See UNPACK-EXTENSIONS on page 76.


EAPI Cheat Sheet

Christian Faulhammer
fauli@gentoo.org

Ulrich Müller
ulm@gentoo.org

Version 8.0
24th September 2021

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 document itself, built from the same checkout as this overview.

This work is released under the Creative Commons Attribution-ShareAlike 4.0 International Licence.²

EAPIs 0, 1, 2, 3, 4, and 5

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

EAPI 6 (2015-11-13)

Additions/Changes

 Bash version Ebuilds can use features of Bash version 4.2 (was 3.2 before). See BASH-VERSION on page 29.

 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 29.

¹https://wiki.gentoo.org/wiki/Project:Package_Manager_Specification
²https://creativecommons.org/licenses/by-sa/4.0/