

NAME

egencache – generate metadata cache for ebuild repositories

SYNOPSIS

egencache [*options*] --update [*ATOM*]...

DESCRIPTION

The egencache program generates metadata cache for ebuild repositories and stores it in the *metadata/md5-cache/* directory within the repository itself, for distribution.

ACTIONS**--update [ATOM] ...**

Update the *metadata/md5-cache/* directory (generate metadata as necessary). If no package atoms are specified then all will be updated. See **ebuild(5)** for the details on package atom syntax.

--update-changelogs

Update the ChangeLog files from SCM logs (supported only in git repos).

--update-pkg-desc-index

Update the package description index which is located at *metadata/pkg_desc_index* in the repository.

--update-use-local-desc

Update the *profiles/use.local.desc* file from metadata.xml.

--update-manifests

Update manifest files, and sign them if signing is enabled. This supports parallelization if enabled via the --jobs option. The --thin-manifests and --sign-manifests options may be used to manually override layout.conf settings.

OPTIONS**--cache-dir=CACHE_DIR**

Location of the intermediate metadata cache which is stored in a different format that includes eclass state. See the **BUGS** section for information about why this is necessary. Defaults to */var/cache/edb/dep*.

--changelog-output=FILENAME

Specifies the file name used to store autogenerated ChangeLogs inside the package directories. Defaults to *ChangeLog*.

--changelog-reversed

Reverses the commit order in ChangeLogs. The oldest commits are output first, the newest last.

--config-root=PORTAGE_CONFIGROOT

Location of portage config files. Defaults to */*.

--external-cache-only

Output to the external cache rather than to the repository itself. This is useful for client-side usage, where it may not be possible to output to the repository itself since that would interfere with repository verification. This option is supported by the --update and --update-pkg-desc-index actions.

--gpg-dir

Override the *PORTAGE_GPG_DIR* variable.

--gpg-key

Override the *PORTAGE_GPG_KEY* variable.

--ignore-default-opts

Causes *EGENCACHE_DEFAULT_OPTS* to be ignored.

--jobs=JOBS

Specifies the maximum number of ebuild processes to spawn simultaneously. Also see the related **--load-average** option.

--load-average=LOAD

Specifies that maximum load allowed when spawning multiple jobs.

--preserve-comments

Preserve the comments found in the output use.local.desc file. This requires the output file to exist before egencache is called.

--repo=REPO

Name of the repo to operate on. The name should correspond the value of a **repo_name** entry (see **portage(5)**) from one of the repositories.

--repositories-configuration=REPOSITORIES_CONFIGURATION

Override configuration of repositories. The argument of this option has the same format as **repos.conf** (see **portage(5)**).

--rsync

When used together with the **--update** action, this enables a workaround for cases in which the content of a cache entry changes and neither the file mtime nor size changes, preventing rsync from detecting changes. Such cases are handled by bumping the mtime on the ebuild (and the corresponding cache entry). This option should only be needed for distribution via something like **rsync(1)**, which relies on timestamps and file sizes to detect changes (see **bug 139134**). It's not needed with **git(1)** since that uses a more thorough mechanism which allows it to detect changed inode numbers (described in *racy-git.txt* in the git technical docs).

--sign-manifests < y | n >

Manually override layout.conf sign-manifests setting.

--strict-manifests < y | n >

Manually override "strict" FEATURES setting.

--thin-manifests < y | n >

Manually override layout.conf thin-manifests setting.

--tolerant

Exit successfully if only minor errors occurred, such as skipped cache updates due to ebuids that either fail to source or are not sourced due to invalid Manifest entries.

--use-local-desc-output=ULD_OUTPUT

Output file for use.local.desc data (or '-' for stdout)

--verbose, -v

Increase verbosity.

--write-timestamp

Write metadata/timestamp.chk as required for rsync repositories

ENVIRONMENT OPTIONS**EGENCACHE_DEFAULT_OPTS**

If this variable is set in **make.conf(5)** then any options that it contains will be added to the beginning of the command line on every invocation. These options will not be added if the **--ignore-default-opts** option is specified.

BUGS

Prior to portage-2.1.11.32, the 'pms' cache format was enabled by default. This 'pms' format, which is distributed in the *metadata/cache/* directory of the repository, has significant limitations related to the cache validation mechanism which involves comparison of a cache entry mtime to the mtime of the corresponding **ebuild(5)**. This mechanism is unreliable in cases when eclass changes result in metadata changes, since no information about eclass state is available in the cache. Also, since the mtime of the cache entry must correspond to that of the ebuild, the cache format is only suitable for distribution via protocols that preserve

timestamps (such as **rsync**(1)). For cache that is distributed via **git**(1) repositories, there is currently a workaround implemented in **emerge**(1) **--sync** which updates ebuild mtimes to match their corresponding cache entries (except for ebuids that are modified relative to HEAD).

In order to solve the above problems, the newer 'md5-dict' format has been enabled by default since portage-2.1.11.32. This format is distributed in the *metadata/md5-cache/* directory of the repository, and includes additional validation data in the form of digests for both the ebuild and its inherited eclasses. **WARNING:** Portage versions prior to portage-2.1.11.14 will **NOT** recognize the 'md5-dict' format unless it is explicitly listed in *metadata/layout.conf* (refer to **portage**(5) for example usage).

WARNING: For backward compatibility, the obsolete 'pms' cache format will still be generated by default if the *metadata/cache/* directory exists in the repository. It can also be explicitly enabled via the *cache-formats* setting in *metadata/layout.conf* (refer to **portage**(5) for example usage). If the 'pms' cache format is enabled and the 'md5-dict' format is not enabled, then it is necessary to enable **metadata-transfer** in **FEATURES** (see **make.conf**(5)). This causes intermediate cache (in a different format that includes eclass state) to be generated inside the directory which is configurable via the **--cache-dir** option.

REPORTING BUGS

Please report bugs via <https://bugs.gentoo.org/>

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FILES

/etc/portage/make.conf

Contains variables.

SEE ALSO

emerge(1), **make.conf**(5), **portage**(5)