NAME

genup-lite − update Portage tree, and all installed packages

SYNOPSIS

genup-lite [*options*]

DESCRIPTION

genup-lite is a utility intended to simplify the process of keeping your Gentoo system up to date. When invoked, it automatically performs the following steps, in order:

- updates Portage tree (and active overlays), and syncs **eix**(1)
  (using **eix-sync**)
- removes any prior **emerge**(1) resume history;
  (using **emaint --fix cleanresume**)
- ensures Portage itself is up-to-date
  (using **emerge --oneshot --update portage**)
- updates all packages in the @world set
  (using **emerge --deep --with-bdeps=y --newuse --update @world**)
- builds any external modules (such as those for VirtualBox)
  (using **emerge @module-rebuild**)
- rebuilds any packages depending on stale libraries
  (using **emerge @preserved-rebuild**)
- updates any old **perl**(1) modules (if desired)
  (using **perl-cleaner --all**)
- updates any old **python**(1) modules (if desired)
  (using **python-updater**)
- resolves clashing config file changes (in interactive mode)
  (using **dispatch-conf**)
- removes unreferenced packages
  (using **emerge --depclean**)
- fixes missing shared library dependencies
  (using **revdep-rebuild**)
- rebuilds any packages depending on stale libraries (again)
  (using **emerge @preserved-rebuild**)
- removes any unused source tarballs (if desired)
  (using **eclean --deep distfiles**)
- updates environment settings (as a precautionary measure)
  (using **env-update**)

The **genup-lite** utility can be invoked in non-interative (default) or interactive mode (see the **--ask** option, below). Non-interactive mode is suitable for use in a scripted invocation, for example as part of a nightly **cron**(8) job (see **AUTOMATING GENUP-LITE**, below).

Note that **genup-lite** does not attempt to upgrade the kernel (this is what makes it 'lite', comprared to the full **genup**(8) utility) - so it is suitable for use in an embedded environment.

OPTIONS

−a, **−−ask**

By default, **genup-lite** will: a) attempt to perform the update automatically; b) fail immediately on any error; c) invoke underlying tools in non-interactive mode; and d) not invoke **dispatch-conf**(1) to resolve clashing configuration file updates (unless the **--dispatch-conf** option has been specified).

However, if you supply the **--ask** option, then **genup-lite** will instead: a) prompt for confirmation during important steps of the update; b) fail immediately on any error, **except** when that error occurs during the @world update **emerge**(1) (in which case, prompt whether or not to retry, allowing the problem — for example, a missing use flag — to be fixed in a separate terminal); c) invoke most underlying tools in interactive mode; and d) invoke **dispatch-conf**(1) to resolve clashing configuration file updates.

−c, **−−dispatch−conf**
Always forces **dispatch-conf**(1) to be run, where necessary, even if not in interactive mode.

−e, **−−emerge−args=ADDITIONAL_ARGS**
Passes the specified arguments to the main **emerge**(1) invocation. One possible use here is to specify:
--emerge-args="--autounmask-write"

This instructs **emerge**(1) to automatically make any necessary changes to Portage configuration files to ensure that the process can proceed (adding additional use flags, allowing libraries, and so on), provided the Portage **--autounmask** option is enabled (which by default it is). This can be useful when running **genup-lite** in an unattended situation (assuming of course you are comfortable with such changes being made automatically on your behalf).

−h, **−−help**
Displays a short help screen, and exits.

−k, **−−keep−old−distfiles**
By default, **genup-lite** will remove any source tarballs that have previously been downloaded by Portage, but which do not relate to the installed version of any package. This option inhibits such cleaning.

−p, **−−no−perl−cleaner**
Do not attempt to run **perl-cleaner**(1) during the process.

−P, **−−no−python−updater**
Do not attempt to run **python-updater**(1) during the process.

−v, **−−verbose**
Provides more verbose output from invoked tools, where possible.

−V, **−−version**
Displays the version number of **genup-lite**, and exits.

EXIT STATUS

The exit status is 0 if the update completed successfully, and 1 otherwise.

PARALLEL MAKE

Quite frequently, large **emerge**(1) runs fail because one or more of the invoked ebuilds have problems running with parallel **make**(1) (as set via MAKEOPTS="-jN", where N>1).

Because of this, **genup-lite** will attempt to automatically resume any **emerge**(1) operation with parallel make inhibited, should the original operation fail. A warning is issued if this happens.

In a similar fashion, if you are using distributed compilation with the **distcc** and **distcc-pump** features, these will be automatically inhibited if operations are retried.

AUTOMATING GENUP-LITE

Should you wish to run **genup-lite** automatically, you need to ensure it has an appropriate environment. For example, you could put the following script in */etc/cron.daily/genup-lite*, to execute an update nightly (be sure to make the file executable):

```
#!/bin/bash
```

```
export PATH="/usr/local/sbin:/usr/local/bin:"\
"/usr/sbin:/usr/bin:/sbin:/bin:/opt/bin"
genup-lite >/var/log/latest-genup-lite-run.log 2>&1
```

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AUTHORS

sakaki — send bug reports or comments to <sakaki@deciban.com>

SEE ALSO

dispatch-conf(1), **eclean**(1), **emerge**(1), **eix**(1), **emaint**(1), **make**(1), **perl-cleaner**(1), **python-updater**(1), **buildkernel**(8), **revdep-rebuild**(1), **cron**(8), **genup**(8), **portage**(5).