

**NAME**

pbuilder – configuration files for personal package builder

**DESCRIPTION**

**/etc/pbuilder** contains default values used in the **pbuilder** program invocation.

The file itself is sourced by a shell script, so it is required that the file conforms to shell script conventions.

The environment variable **PBUILDER\_OPERATION** contains the current operation mode of pbuilder, and can be used to do a conditional configuration. Possible values are **build**, **clean**, **create**, **debuild**, **dumpconfig**, **execute**, **login**, **update**.

**FORMAT**

**APTCACHE**=*/var/cache/pbuilder/aptcache*

Specify the location that the packages downloaded by apt should be cached. Setting this value to "" will cause caching to be turned off.

**APTCACHEHARDLINK**=*yes*

Specify using hard links in apt cache handling. Changing this to no will disable hard linking and will copy the files.

It is advised to set this to **no** if you are using user-mode-linux.

**APTCONFDIR**=*/etc/apt*

Configures where the apt configuration files are copied from. By default, this value is empty, allowing the usual configuration options to take effect. Setting this variable overrides other options.

**ARCHITECTURE**=*'dpkg --print-architecture'*

Specifies the **build architecture** (as described in **dpkg-architecture(1)**). It'll be the architecture used when creating the chroot, defaults to the system one. The supported values are the ones debootstrap supports.

**AUTOCLEANAPTCACHE**=*yes*

Always run with **--autocleanaptcache** option.

**AUTO\_DEBSIGN**=*yes*

When this value is set to yes, **pdebuild** will invoke **debsign** command after building.

**BASETGZ**=*/var/cache/pbuilder/base.tgz*

Specifies the default location for the archived chroot image to be created and used. This is overridden with the option **--basetgz**.

**BINDMOUNTS**=*directories-to-bind-mount[:internal-mountpoint]*

When this value is set, pbuilder will mount these directories using bind-mount. Different directories are space separated, a column can optionally specify a mount destination inside the chroot.

Do not bind-mount /.

An Example:

```
BINDMOUNTS="/home /mnt/test /home/joe/repo:/var/repo"
```

**BUILDDIR**=*/build*

The directory inside the chroot where the build happens. This directory will contain the build products; the source packages will be unpacked in a subdirectory therein contained, named *\$srcpkg-\$ver*, with *\$ver* being the upstream part of the version, without epoch and debian revision.

Attention! Some directories — such as **/tmp** — are not safe to use since they can be world-writable, and external users can temper with the build process.

**BUILDPLACE**=*/var/cache/pbuilder/build/*

The default place which the chroot is constructed. **pbuilder** will use the directory **\$BUILDPLACE\$\$.** which means, that it will use the directory and the PID to determine the directory to use. This should obtain an unique directory for concurrent runs of pbuilder in one machine. This is not guaranteed to happen on network shared drives, so be aware of this fact when playing with this option on NFS shared beowulf clusters. Change it to something like */var/cache/pbuilder/build/\$HOSTNAME/* when doing such a thing.

**pbuilder clean** cleans up this directory.

**BUILDRESULT**=*/var/cache/pbuilder/result/*

Specify the default directory which the build result will be copied over to after the building.

Unlike the **--buildresult** command-line option the path is not canonicalized, so you should specify a full path, not a relative path.

**EATMYDATA**=*no*

Enable or disable the builtin eatmydata support.

For this to work the library of the same architecture as the one inside the chroot has to be installed in the host.

**CCACHEDIR**=

Specifies where ccache will keep its cached compiler output. If this is specified, ccache will be installed upon **pbuilder create** or **pbuilder update**, */usr/lib/ccache* will be prepended to the **PATH**, **CCACHEDIR** will be bind-mounted in the chroot, and **CCACHE\_DIR** (ccache variable) will be set to **CCACHEDIR**. Note that files in **CCACHEDIR** are chowned to **BUILDUSERID** (1234 by default).

*ccache* is disabled by default.

**BUILDRESULTUID**=

**BUILDRESULTGID**=

Set the UID and GID of the files built as result. They probably need to be set to numeric UID values, so that it works the same inside the chroot and outside the chroot.

If sudo is used, the values specified by sudo is used. They are **SUDO\_UID**, and **SUDO\_GID**. The default value is **0**

**BUILDSOURCEROOTCMD**=*fakeroot*

This option is used on invocation of fakeroot for **dpkg-buildpackage** in **pdebuild**

**BUILDUSERID**=*1234*

The uid to be used inside chroot. It should ideally not collide with user-id outside the chroot, to avoid user inside chroot having access to processes owned by the user id outside the chroot.

**BUILDUSERNAME**=*pbuilder*

The user name of the user the build will run as. Specifying this will enable the use of fakeroot inside pbuilder.

Note that this will require fakeroot to be installed within the chroot, and fakeroot will automatically be installed. And **-rfakeroot** will be added to **DEBBUILDPTS**

**COMPONENTS**=*main*

Specify the default distribution components to use. This option is space-delimited, use quotes when listing multiple components. This option only affects when doing **pbuilder create** or when **--override-config** is specified for **pbuilder update** option.

**COMPRESSPROG**=*gzip*

Program to use for compression of the base.tgz. The default is to use gzip, and any program that can be used to compress data using a pipe can be used.

If set to "pigz", compression and decompression is gzip compatible but will use all available CPUs.

If set to "cat", there will be no compression at all (so compression/decompression will be a lot faster but takes much more space on the disk).

**export http\_proxy=***http://your-proxy:8080/*

Defines the proxy for http connection.

**export DEBIAN\_BUILDARCH=***athlon*

Uses this variable as **DEBIAN\_BUILDARCH**. This trick can be used for other environmental variables as well.

**DEBBOILDOPTS=**

The options given here will be passed on to **dpkg-buildpackage**. This can be useful e.g. for binary-only builds. The command-line option **--debbuildopts** will be appended to any contents specified here but may also be used to reset the list of options.

The default value is to build source and binary package.

**DEBOOTSTRAPOPTS=**( *'--variant=builddd'* *'--keyring'* *'/usr/share/keyrings/debian-archive-keyring.gpg'* )

When this option is set to **--variant=builddd** **pbuilder** will invoke **\$DEBOOTSTRAP** with **--variant=builddd** option, which results in debootstrap creating a minimal chroot for builddd instead of trying to create a minimal installation chroot. **--keyring** is used to specify a keyring for debootstrap.

**APTKEYRINGS=**( )

Additional keyrings to use for package verification with apt, not used for debootstrap (use **\$DEBOOTSTRAPOPTS**). Use this to add (local) signed repositories. By default the debian-archive-keyring package inside the chroot is used.

Keyrings are copied into */etc/apt/trusted.gpg.d* in the chroot. APT supports it since version 0.7.25.1, firstly available in the Debian release codenamed "squeeze" (released on 2011). For older chroots, use a **G** hook to run **apt-key** manually.

**DEBOOTSTRAP=***debootstrap*

Use this option to switch the implementation of debootstrap. Known implementations of debootstrap are **cdebootstrap** and **debootstrap**

**export DEBIAN\_FRONTEND=***noninteractive*

Sets interactiveness of pbuilder run. Setting this value to blank will cause the pbuilder run to be interactive. Change this value when noninteractive upgrades do not work.

**DISTRIBUTION=***sid*

Specify the default distribution to use. This option only affects when doing **pbuilder create** or when **--override-config** is specified for **pbuilder update** option.

**EXTRAPACKAGES=***"ccache lintian XXX"*

Specifies extra packages which the system should install in the chroot on **pbuilder create**. This is a space-delimited list. Also this is installed on **pbuilder update**

**HOOKDIR=***/usr/lib/pbuilder/hooks*

Specifies the default location for the user hooks directory. This is overridden with the option **--hookdir**.

If this is specified, hooks are searched for in the chroot, when running **pbuilder**. If it is not defined, or is an empty string, hooks are not executed.

For details, see **pbuilder(8)**

**LOGLEVEL=I**

Specify how much output you want from pbuilder, valid values are **E** (errors only), **W** (errors and warnings), **I** (errors, warnings and informational) and **D** (everything including some debug messages).

**USECOLORS=auto**

Specify whether you'd like to see colored output from pbuilder. Valid values are **auto** (to try to automatically detect whether the terminal supports them), **yes** (to always use colors), and **no** (to never use colors).

**MIRRORSITE=http://www.jp.debian.org/debian**

Specify the mirror site which contains the main Debian distribution.

Note that you cannot really use **file:/** kind of URL, because the location needs to be accessible from within the chroot.

**OTHERMIRROR=deb http://xxx/xxx/ ./ [ other deb lines... ]**

The lines which is added to the `sources.list`, delimited with | Like:

**deb http://local/mirror sid main|deb file:/usr/local/mirror ./**

The deb lines here are the ones that will appear at the top of the `sources.list` inside the chroot. Be sure to follow the syntax rules of `sources.list(5)`. These lines appear at the beginning of the constructed sources file, so this is the place to list your **local** mirror sites; apt will then use them in preference to the ones listed in **MIRRORSITE**.

To make changes on mirror site effective on **update** ~~---override-config~~ needs to be specified.

**PDEBUILD\_PBUILDER=pbuilder**

Specify what pbuilder implementation to use for pdebuild. The currently possible values are **pbuilder** and **cowbuilder**

**PKGNAME\_LOGFILE\_EXTENSION=\_\$(dpkg --print-architecture).build**

The extension of filename used in `pkgname-logfile` option.

**PKGNAME\_LOGFILE=yes**

Always run with ~~---pkgname-logfile~~ option, and create a logfile named after the package name.

**PBUILDERROOTCMD=sudo -E**

This option is used on invocation of **pbuilder build** in **pdebuild**

**PBUILDERSATISFYDEPENDSCMD=/usr/lib/pbuilder/pbuilder-satisfydepends**

This option is used by various parts of pbuilder to satisfy (i.e. install) the build-dependencies of a package. These are the available implementations:

*pbuilder-satisfydepends-apt* the newest implementation, which leverage the ability of apt 1.4 to satisfy build dependencies and build conflicts from a .dsc; useful since it's pretty fast and doesn't require the installation of any non-required package in the chroot, nor of dummy packages.

*pbuilder-satisfydepends-experimental* might be useful to pull packages from repositories with a low APT Pin Priority (for example, Debian's experimental or stable-backports).

*pbuilder-satisfydepends-aptitude* will resolve build-dependencies and build-conflicts with aptitude which helps dealing with complex cases but does not support unsigned APT repositories.

*pbuilder-satisfydepends-gdebi* will resolve build-dependencies using gdebi, faster than classic implementation, and does not require installation of a dummy package like the aptitude implementation.

*pbuilder-satisfydepnds-classic* the "classic" implementation, which was the original

implementation used by default until v0.172.

The default is now "aptitude".

**PBUILDERSATISFYDEPENDSOPT=()**

Array of flags to give to pbuilder--satisfydepends.

**SOURCE\_ONLY\_CHANGES=no**

Specify whether to generate an additional .changes file for a source-only upload, whilst still producing a full .changes file for any binary packages built.

**ALLOWUNTRUSTED=no**

Allow untrusted (no key installed) and unsigned repositories. **Warning:** Enabling this option may allow remote attackers to compromise the system. Better use signed repositories and **\$APTKEYRINGS** to add the key(s).

**APTGETOPT=()**

Extra flags to give to apt-get.

**APTITUDEGETOPT=()**

Extra flags to give to aptitude.

**DEBDELTA=no**

Enable use of debdelta to download the needed updates in the chroot, if debdelta is already installed.

**REMOVEPACKAGES=lilo**

Specify the packages to be removed on creation of **base.tgz**. Leaving lilo in the chroot is like keeping a timebomb...

**TIMEOUT\_TIME=2h**

Sets timeout time. Build will be stopped with SIGTERM after the set time.

**USEDEVFS=no**

Whether to mount a devfs or not. Has no effect on kFreeBSD, as a devfs (and fdescfs for **/dev/fd**) is always used.

**USEDEVPTS=yes**

Specify **yes** when it is desired to mount **/dev/pts** interface. It is usually a good idea, since there are many software which fail miserably when there is no **/dev/pts** being mounted.

**USESYSFS=yes**

Whether to mount a sysfs (linsysfs for kFreeBSD) in **/sys** or not. Has no effect on GNU/Hurd hosts, where sysfs is not available. It is usually a good idea, since there are several software which require **/sys** being populated.

**USENETWORK=no**

Specify **yes** when you do not want to disable network access during build. Network is not available on a Debian build, so you might want to keep the default. Disabling network access currently only works on Linux.

**USECGROUP=yes**

Specify **yes** to use a cgroup to isolate build processes, so that any stray processes from the build can be cleaned up afterwards. This currently only works on Linux systems running systemd.

**USESHM=yes**

Specify **yes** when it is desired to mount **/dev/shm** mount point. It is usually a good idea in order to work with software that expects shm to work.

**/run/shm** will be configured as a symbolic link to **/dev/shm**.

This option used to be named **USERUNSHM**, for compatibility purpose the old name is still supported, and if set it'll override any **USESHM**.

Has no effect on GNU/Hurd hosts due to bugs in **/hurd/tmpfs**; since **/dev** is always bind-mounted, the host's **/dev/shm** will be used.

**USE\_PDEBUILD\_INTERNAL=yes**

When this option is set to **yes** **pdebuild--internal** implementation of **pdebuild** is used.

**USEPROC=yes**

Specify **yes** when it is desired to mount **/proc** interface. It is usually a good idea, since there are many software which fail miserably when there is no **/proc** being mounted.

**ADDITIONAL\_BUILDRESULTS=(foo "bar\*" "baz\ biz")**

Array of additional files to copy out of the build area.

In case a wildcard is needed (e.g. **\*.changes**) quote it to have the wildcard escaped and not expanded at configuration load time, but instead expanded at run time when the additional build artifacts are exported. Spaces in file names needs to be escaped by using a **\** or a wildcard to match the space.

**CONFDIR=/etc/pbuilder/conf\_files**

**pbuilder** copies some configuration files (like **/etc/hosts** or **/etc/hostname**) from the host system into the chroot. If the directory specified here exists and contains one of the copied files (without the leading **/etc**) that file will be copied from here instead of the system one.

**BUILD\_HOME=/nonexistent**

Set the what the **HOME** environment variable points to during the builds. It defaults to a non-existing directory to prevent builds from writing to **HOME**, which is reserved to users. If you need a working **HOME** you can set it to **\$BUILDDIR** instead.

**BINNMU\_MAINTAINER=**

Set the value of the maintainer name and email in the changelog during binNMU. Such value is then copied to the Changed-By field of the **.changes** file. Can be set at run time with the **--bin-nmu-maintainer** command line option.

**AUTHOR**

Initial coding, and main maintenance is done by Junichi Uekawa <dancer@debian.org>. User hooks code added by Dale Amon <amon@vnl.com>

The homepage is available at <https://pbuilder-team.pages.debian.net/pbuilder/>

**FILES**

**/etc/pbuilddrc**, **\$HOME/.pbuילddrc**

**SEE ALSO**

**/usr/share/doc/pbuilder/pbuilder-doc.html**, **cowbuilder(8)**, **pbuilder(8)**, **pdebuild(1)**