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`* [`signature_verification`](../../dev-guide/api/conda/trust/signature_verification/index.html)`

`* [`utils`](../../dev-guide/api/conda/utils/index.html)`

- * [``conda_env``](../dev-guide/api/conda_env/index.html) __
- * [``cli``](../dev-guide/api/conda_env/cli/index.html)
- * [``installers``](../dev-guide/api/conda_env/installers/index.html)

- * [__](../index.html)
- * [User guide](../index.html)
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- * Managing...

Managing virtual packages#

"Virtual" packages are injected into the conda solver to allow real packages to depend on features present on the system that cannot be managed directly by conda, like system driver versions or CPU features. Virtual packages are not real packages and not displayed by ``conda list``. Instead ``conda`` runs a small bit of code to detect the presence or absence of the system feature that corresponds to the package. The currently supported list of virtual packages includes:

- > * ``__cuda``: Maximum version of CUDA supported by the display driver.
- >
- > * ``__osx``: OSX version if applicable.
- >
- > * ``__glibc``: Version of glibc supported by the OS.
- >
- > * ``__linux``: Available when running on Linux.
- >

```
> *`__unix`: Available when running on OSX or Linux.  
>  
> *`__win`: Available when running on Win.  
>  
> *`__conda`: Version of conda that is being used for solving.  
>  
>
```

Other virtual packages will be added in future conda releases. These are denoted by a leading double-underscore in the package name.

Note

Note that as of version `22.11.0`, [virtual packages](../dev-guide/plugins/virtual_packages.html) are implemented as [conda plugins](../concepts/conda-plugins.html).

Listing detected virtual packages#

Use the terminal for the following steps.

To see the list of detected virtual packages, run:

```
conda info
```

If a package is detected, you will see it listed in the `virtual packages` section, as shown in this example:

active environment : base

active env location : /Users/demo/dev/conda/devenv

shell level : 1

user config file : /Users/demo/.condarc

populated config files : /Users/demo/.condarc

conda version : 4.6.3.post8+8f640d35a

conda-build version : 3.17.8

python version : 3.7.2.final.0

virtual packages : __cuda=10.0

base environment : /Users/demo/dev/conda/devenv (writable)

channel URLs : <https://repo.anaconda.com/pkgs/main/osx-64>

<https://repo.anaconda.com/pkgs/main/noarch>

<https://repo.anaconda.com/pkgs/free/osx-64>

<https://repo.anaconda.com/pkgs/free/noarch>

<https://repo.anaconda.com/pkgs/r/osx-64>

<https://repo.anaconda.com/pkgs/r/noarch>

package cache : /Users/demo/dev/conda/devenv/pkgs

/Users/demo/.conda/pkgs

envs directories : /Users/demo/dev/conda/devenv/envs

/Users/demo/.conda/envs

platform : osx-64

user-agent : conda/4.6.3.post8+8f640d35a requests/2.21.0 CPython/3.7.2 Darwin/17.7.0

OSX/10.13.6

UID:GID : 502:20

netrc file : None

offline mode : False

Overriding detected packages#

For troubleshooting, it is possible to override virtual package detection using an environment variable. Supported variables include:

* ``CONDA_OVERRIDE_CUDA`` \- CUDA version number or set to ``""`` for no CUDA detected.

* ``CONDA_OVERRIDE_OSX`` \- OSX version number or set to ``""`` for no OSX detected.

* ``CONDA_OVERRIDE_GLIBC`` \- GLIBC version number or set to ``""`` for no GLIBC. This only applies on Linux.

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* Listing detected virtual packages

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[__Edit on GitHub](<https://github.com/conda/conda/edit/main/docs/source/user-guide/tasks/manage-virtual.rst>)

[[__Show Source](#)](../../_sources/user-guide/tasks/manage-virtual.rst.txt)

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