NAME

dh_python3 - calculates Python dependencies, adds maintainer scripts to byte compile files, etc.

SYNOPSIS

dh_python3 -p PACKAGE [-V [X.Y][-][A.B]] DIR [-X REGEXPR]

DESCRIPTION

QUICK GUIDE FOR MAINTAINERS

- if necessary, describe supported Python 3 versions via X-Python3-Version field in debian/control,
- build-depend on python3 or python3-all or python3-all-dev,
- build module/application using its standard build system, remember to build extensions for all supported Python 3 versions (loop over **py3versions -vr**),
- install files to the *standard* locations, add *--install-layout=deb* to setup.pys install command if your package is using distutils,
- add *python3* to dhs --with option, or:
- *include /usr/share/cdbs/1/class/python-distutils.mk* in debian/rules and depend on *cdbs (>= 0.4.90)*, or:
- call **dh_python3** in the *binary-** target,
- add {*python3:Depends*} to Depends

NOTES

dependencies

dh_python3 tries to translate Python dependencies from requires.txt file to Debian dependencies. Use debian/py3dist-overrides or --no-guessing-deps option to override it if the guess is incorrect. If you want dh_python3 to generate more strict dependencies (f.e. to avoid ABI problems) create debian/python3-foo.pydist file. See /usr/share/doc/dh-python/README.PyDist for more information. If the pydist file contains PEP386 flag or set of (uscan like) rules, dh_python3 will make the depedency versioned (version requirements are ignored by default).

private dirs

/usr/share/foo, */usr/share/games/foo*, */usr/lib/foo* and */usr/lib/games/foo* private directories are scanned for Python files by default (where *foo* is binary package name). If your package is shipping Python files in some other directory, add another dh_python3 call in debian/rules with directory name as an argument - you can use different set of options in this call. If you need to change options (f.e. a list of supported Python 3 versions) for a private directory that is checked by default, invoke dh_python3 with --skip-private option and add another call with a path to this directory and new options.

debug packages

In binary packages which name ends with *-dbg*, all files in */usr/lib/python3/dist-packages/* directory that have extensions different than *so* or *h* are removed by default. Use --no-dbg-cleaning option to disable this feature.

pyinstall files

Files listed in debian/pkg.pyinstall file will be installed as public modules (i.e. into .../dist-packages/ directory) for all requested Python versions.

Syntax: **path/to/file [VERSION_RANGE] [NAMESPACE]**

debian directory is automatically removed from the path, so you can place your files in debian/ directory and install them from this location (if you want to install them in debian namespace, set NAMESPACE to debian). If NAMESPACE is set, all listed files will be installed in .../dist-packages/NAMESPACE/ directory.

Examples:

- **foo.py** installs .../dist-packages/foo.py for all supported Python versions
- **foo/bar.py 3.3-**installs .../dist-pac kages/foo/bar.py for versions >= 3.3
- **foo/bar.py spam**installs .../dist-pac kages/spam/bar.py
- **debian/*.py spam.egg 3.2**installs .../p ython3.2/dist-packages/spam/egg/*.py files

pyremove files

If you want to remove some public modules (i.e. files in .../dist-packages/ directory) installed by build system (from all supported Python versions or only from a subset of these versions), add them to debian/pkg.pyremove file.

Examples:

- ***.pth** removes .pth files from .../dist-packages/
- **bar/baz.py 3.2**remo ves .../python3.2/dist-packages/bar/baz.py

overriding supported / default Python versions

If you want to override systems list of supported Python versions or the default one (f.e. to build a package that includes symlinks for older version of Python or compile .py files only for given interpreter version), you can do that via *DEBPYTHON3_SUPPORTED* and/or *DEBPYTHON3_DEFAULT* env. variables.

Example: **3.2,3.3** limits the list of supported Python versions to Python 3.2 and Python 3.3.

OPTIONS

--version
show programs version number and exit

-h, **--help**
show help message and exit

--no-guessing-deps
disable guessing dependencies

--no-dbg-cleaning
do not remove any files from debug packages

--no-ext-rename do not add magic tags nor multiarch tuples to extension file names

--no-shebang-rewrite
do not rewrite shebangs

--skip-private
dont check private directories

-v, **--verbose**
turn verbose mode on

-i, **--indep**
act on architecture independent packages

-a, **--arch**
act on architecture dependent packages

-q, **--quiet**
be quiet

-p *PACKAGE*, **--package=***PACKAGE*
act on the package named PACKAGE

-N *NO_PACKAGE*, **--no-package=***NO_PACKAGE*
do not act on the specified package

-V *VRANGE*
specify list of supported Python 3 versions. See py3compile(1) for examples

-X *REGEXPR*, **--exclude=***REGEXPR*
exclude items that match given REGEXPR. You may use this option multiple times to build up a list of things to exclude.

--compile-all
compile all files from given private directory in postinst/rtupdate not just the ones provided by the package (i.e. do not pass the --package parameter to py3compile/py3clean)

--depends=*DEPENDS*
translate given requirements into Debian dependencies and add them to ${python3:Depends}. Use it for missing items in requires.txt

--recommends=*RECOMMENDS*
translate given requirements into Debian dependencies and add them to ${python3:Recommends}

--suggests=*SUGGESTS*
translate given requirements into Debian dependencies and add them to ${python3:Suggests}

--requires=*FILENAME*
translate requirements from given file(s) into Debian dependencies and add them to ${python3:Depends}

--shebang=*COMMAND*
use given command as shebang in scripts

--ignore-shebangs
do not translate shebangs into Debian dependencies

SEE ALSO

- /usr/share/doc/python/python-policy.txt.gz
- /usr/share/doc/dh-python/README.PyDist
- pybuild(1)
- py3compile(1), py3clean(1)
- dh_python2(1), pycompile(1), pyclean(1)
- *http://deb.li/dhp3* - most recent version of this document

AUTHOR

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