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*

`package_cache_data`

Tools for managing the package cache (previously downloaded packages).

Classes#

`PackageCacheType` | This metaclass does basic caching of PackageCache instance objects.

---|---

`PackageCacheData` |

`UrlsData` |

`ProgressiveFetchExtract` |

Functions#

`do_cache_action`(prec, cache_action, progress_bar[, ...]) | This function gets called from ProgressiveFetchExtract.execute.

---|---

`do_extract_action`(prec, extract_action, progress_bar) | This function gets called after

do_cache_action completes.

`do_cleanup`(actions) |

`do_reverse`(actions) |

`done_callback`(future, actions, progress_bar, exceptions) |

Attributes#

`FileNotFoundError` |

---|---

`THREADESAFE_EXTRACT` |

`EXTRACT_THREADS` |

FileNotFoundError#

THREADESAFE_EXTRACT _ = False_#

EXTRACT_THREADS#

_class _PackageCacheType#

Bases: [`type`](https://docs.python.org/3/library/functions.html#type "(in Python v3.13\))

This metaclass does basic caching of PackageCache instance objects.

`__call__`(`_pkgs_dir` : [`str`](https://docs.python.org/3/library/stdtypes.html#str "(in Python v3.13\)) | [`os.PathLike`](https://docs.python.org/3/library/os.html#os.PathLike "(in Python v3.13\)) | [`pathlib.Path`](https://docs.python.org/3/library/pathlib.html#pathlib.Path "(in Python v3.13\))_)#

Call self as a function.

`_class` `_PackageCacheData`(`_pkgs_dir`)#

`_property` `__package_cache_records`#

`_property` `_is_writable`#

`_cache__`: [`dict`](https://docs.python.org/3/library/stdtypes.html#dict "(in Python v3.13\))[[`str`](https://docs.python.org/3/library/stdtypes.html#str

"\ (in Python v3.13\)", PackageCacheData]_#

insert(_package_cache_record_)#

load()#

reload()#

get(_package_ref_ , _default =NULL_)#

remove(_package_ref_ , _default =NULL_)#

query(_package_ref_or_match_spec_)#

`iter_records()#`

`_classmethod _query_all(_package_ref_or_match_spec_ , _pkgs_dirs =None_)#`

`_classmethod _first_writable(_pkgs_dirs =None_)#`

`_classmethod _writable_caches(_pkgs_dirs =None_)#`

`_classmethod _read_only_caches(_pkgs_dirs =None_)#`

`_classmethod _all_caches_writable_first(_pkgs_dirs =None_)#`

`_classmethod _get_all_extracted_entries()#`

`_classmethod _get_entry_to_link(_package_ref_)#`

`_classmethod _tarball_file_in_cache(_tarball_path_ , _md5sum =None_,
_exclude_caches =())#`

`_classmethod _clear()#`

`tarball_file_in_this_cache(_tarball_path_ , _md5sum =None_)#`

`_check_writable()#`

`_static __clean_tarball_path_and_get_md5sum(_tarball_path_ , _md5sum =None_)#`

`_scan_for_dist_no_channel(_dist_str_)`#

`itervalues()`#

`values()`#

`__repr__()`#

Return repr(self).

`_make_single_record(_package_filename_)`#

`_static __dedupe_pkgs_dir_contents(_pkgs_dir_contents_)`#

`_class _UrlsData(_pkgs_dir_)`#

`__contains__(_url_)`#

`__iter__()`#

`add_url(_url_)`#

`get_url(_package_path_)`#

`_class _ProgressiveFetchExtract(_link_prefs_)`#

Parameters:

****link_prefs****

([_tuple_](https://docs.python.org/3/library/stdtypes.html#tuple "(in Python v3.13\))")

_[[_PackageRecord_](../models/records/index.html#conda.models.records.PackageRecord

"conda.models.records.PackageRecord") _]) -- A sequence of `PackageRecord`s

to ensure available in a known package cache, typically for a follow-on

:class:`UnlinkLinkTransaction`. Here, "available" means the package tarball is

both downloaded and extracted to a package directory.

_property _cache_actions#

_property _extract_actions#

_static _make_actions_for_record(_pref_or_spec_)#

prepare()#

execute()#

Run each action in self.paired_actions. Each action in cache_actions runs before its corresponding extract_actions.

```
__static __progress_bar(_prec_or_spec_ , _position =None_, _leave =False_,  
_context_manager =None_) ->
```

```
[conda.plugins.types.ProgressBarBase](../../plugins/types/index.html#conda.plugins.types.ProgressBarBase
```

```
"conda.plugins.types.ProgressBarBase")#
```

```
__hash__()#
```

Return hash(self).

```
__eq__(_other_)#
```

Return self==value.

```
do_cache_action(_prec_ , _cache_action_ , _progress_bar_ , _download_total  
=1.0_ , _*_ , _cancelled_)#
```

This function gets called from `ProgressiveFetchExtract.execute`.

```
do_extract_action(_prec_ , _extract_action_ , _progress_bar_)#
```

This function gets called after `do_cache_action` completes.

```
do_cleanup(_actions_)#
```

```
do_reverse(_actions_)#
```

```
done_callback(_future :
[concurrent.futures.Future](https://docs.python.org/3/library/concurrent.futures.html#concurrent.futures.Future
"\(in Python v3.13\)"_) , _actions :
[tuple](https://docs.python.org/3/library/stdtypes.html#tuple "\(in Python v3.13\)")][conda.core.path_actions.CacheUrlAction](../path_actions/index.html#conda.core.path_actions.CacheUrlAction
"conda.core.path_actions.CacheUrlAction") |
[conda.core.path_actions.ExtractPackageAction](../path_actions/index.html#conda.core.path_actions.ExtractPackageAction
"conda.core.path_actions.ExtractPackageAction"), Ellipsis]_, _progress_bar
```

:

```
[conda.plugins.types.ProgressBarBase](../plugins/types/index.html#conda.plugins.types.ProgressBarBase
"conda.plugins.types.ProgressBarBase")_, _exceptions :
[list](https://docs.python.org/3/library/stdtypes.html#list "\in Python
v3.13\")[Exception](https://docs.python.org/3/library/exceptions.html#Exception "\in Python
v3.13\")]_, _finish : [bool](https://docs.python.org/3/library/functions.html#bool "\in Python v3.13\")
= False_)#
```

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[[__Edit on GitHub](https://github.com/conda/conda/edit/main/docs/source/dev-guide/api/conda/core/package_cache_data/index.rst)](https://github.com/conda/conda/edit/main/docs/source/dev-guide/api/conda/core/package_cache_data/index.rst)

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