

NAME

Dpkg::Index – generic index of control information

DESCRIPTION

This object represent a set of Dpkg::Control objects.

METHODS

`$index = Dpkg::Index->new(%opts)`

Creates a new empty index. See **set_options()** for more details.

`$index->set_options(%opts)`

The “type” option is checked first to define default values for other options. Here are the relevant options: “get_key_func” is a function returning a key for the item passed in parameters, “unique_tuple_key” is a boolean requesting whether the default key should be the unique tuple (default to false for backwards compatibility, but it will change to true in dpkg 1.20.x). The index can only contain one item with a given key. The “get_key_func” function used depends on the type:

- for CTRL_INFO_SRC, it is the Source field;
- for CTRL_INDEX_SRC and CTRL_PKG_SRC it is the Package field by default, or the Package and Version fields (concatenated with “_”) when “unique_tuple_key” is true;
- for CTRL_INFO_PKG it is simply the Package field;
- for CTRL_INDEX_PKG and CTRL_PKG_DEB it is the Package field by default, or the Package, Version and Architecture fields (concatenated with “_”) when “unique_tuple_key” is true;
- for CTRL_CHANGELOG it is the Source and the Version fields (concatenated with an intermediary “_”);
- for CTRL_TESTS is either the Tests or Test-Command fields;
- for CTRL_FILE_CHANGES it is the Source, Version and Architecture fields (concatenated with “_”);
- for CTRL_FILE_VENDOR it is the Vendor field;
- for CTRL_FILE_STATUS it is the Package and Architecture fields (concatenated with “_”);
- otherwise it is the Package field by default.

`$index->get_type()`

Returns the type of control information stored. See the type parameter set during **new()**.

`$index->add($item, [$key])`

Add a new item in the index. If the `$key` parameter is omitted, the key will be generated with the `get_key_func` function (see **set_options()** for details).

`$index->parse($fh, $desc)`

Reads the filehandle and creates all items parsed. When called multiple times, the parsed stanzas are accumulated.

Returns the number of items parsed.

`$index->load($file)`

Reads the file and creates all items parsed. Returns the number of items parsed. Handles compressed files transparently based on their extensions.

`$item = $index->new_item()`

Creates a new item. Mainly useful for derived objects that would want to override this method to return something else than a Dpkg::Control object.

`$item = $index->get_by_key($key)`

Returns the item identified by `$key` or undef.

`@keys = $index->get_keys(%criteria)`

Returns the keys of items that matches all the criteria. The key of the `%criteria` hash is a field name and the value is either a regex that needs to match the field value, or a reference to a function that must return true and that receives the field value as single parameter, or a scalar that must be equal to the field value.

`@items = $index->get(%criteria)`

Returns all the items that matches all the criteria.

`$index->remove_by_key($key)`

Remove the item identified by the given key.

`@items = $index->remove(%criteria)`

Returns and removes all the items that matches all the criteria.

`$index->merge($other_index, %opts)`

Merge the entries of the other index. While merging, the keys of the merged index are used, they are not re-computed (unless you have set the options “keep_keys” to “0”). It’s your responsibility to ensure that they have been computed with the same function.

`$index->sort(\&sortfunc)`

Sort the index with the given sort function. If no function is given, an alphabetic sort is done based on the keys. The sort function receives the items themselves as parameters and not the keys.

`$str = $index->output([fh])`

“\$index”

Get a string representation of the index. The `Dpkg::Control` objects are output in the order which they have been read or added except if the order have been changed with `sort()`.

Print the string representation of the index to a filehandle if `$fh` has been passed.

`$index->save($file)`

Writes the content of the index in a file. Auto-compresses files based on their extensions.

CHANGES

Version 1.01 (dpkg 1.19.0)

New option: Add new “unique_tuple_key” option to `$index->set_options()` to set better default “get_key_func” options, which will become the default behavior in 1.20.x.

Version 1.00 (dpkg 1.15.6)

Mark the module as public.