

# Unittest pylibs.caching

15. Februar 2018

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# 1 Statistics

## 1.1 Test-Statistics

Number of tests	20
Number of successfull tests	18
Number of possibly failed tests	2
Number of failed tests	0

## 1.2 Coverage-Statistics

Module- or Filename	Line-Coverage	Branch-Coverage
caching	100.0%	96.9%
caching.__init__.py	100.0%	96.9%

# 2 Test Information

## 2.1 Test Object Information

The Module `pylibs.caching` is designed to cache data of a class to increase performance. The class has a uid to signalise that the source had been changed and a version information to signalise that the data structure or creation method had been changed.

Only if case of such a change, the caching module gets the data from the class, otherwise from the cached information.

## 2.2 Test Candidate Information

Module Name	<code>pylibs.caching</code>
Module Verion	1.1.0
Test execution level	Full
Time consumption	0.109s

# 3 Summary

## 3.1 Tests with status **warning** (2)

### 3.1.1 Test full initialisation of JSON-Cache

This test was passed with the state: **WARNING** . See also full trace in section A.1!

Testsummary:	
INFO	JSON cache initialised
INFO	Storage object extracted from cache class for comparison

```

INFO      No missing items in cache
INFO      No odd items in cache
INFO      Key 'str' has the correct content ('string')
WARNING   Key 'str' has a slightly different type. Cache/ Data: <type 'unicode'>/ <type 'str'>.
INFO      Key 'float' has the correct content (3.14159)
INFO      Key 'float' has the correct type (<type 'float'>)
INFO      Key 'list' has the correct content ([1, 'two', '3', 4])
INFO      Key 'list' has the correct type (<type 'list'>)
INFO      Key 'dict' has the correct content ('1': 1, '3': '3', '2': 'two', '4': 4)
INFO      Key 'dict' has the correct type (<type 'dict'>)
INFO      Key 'unicode' has the correct content (u'unicode')
INFO      Key 'unicode' has the correct type (<type 'unicode'>)
INFO      Key 'integer' has the correct content (17)
INFO      Key 'integer' has the correct type (<type 'int'>)

```

---

### 3.1.2 Test partially initialisation of JSON-Cache

This test was passed with the state: **WARNING** . See also full trace in section A.3!

---

Testsummary:

---

```

INFO      JSON cache initialised
INFO      Partially initialised cache class by requesting some data
INFO      Storage object extracted from cache class for comparison
INFO      No missing items in cache
INFO      No odd items in cache
INFO      Key 'float' has the correct content (3.14159)
INFO      Key 'float' has the correct type (<type 'float'>)
INFO      Key 'list' has the correct content ([1, 'two', '3', 4])
INFO      Key 'list' has the correct type (<type 'list'>)
INFO      Key 'str' has the correct content ('string')
WARNING   Key 'str' has a slightly different type. Cache/ Data: <type 'unicode'>/ <type 'str'>.

```

---

## 3.2 Tests with status **success** (18)

### 3.2.1 Test full initialisation of PICKLE-Cache

This test was passed with the state: **INFO** . See also full trace in section A.2!

---

Testsummary:

---

```

INFO      JSON cache initialised
INFO      Storage object extracted from cache class for comparison
INFO      No missing items in cache
INFO      No odd items in cache
INFO      Key 'str' has the correct content ('string')
INFO      Key 'str' has the correct type (<type 'str'>)
INFO      Key 'float' has the correct content (3.14159)

```

```
INFO Key 'float' has the correct type (<type 'float'>)
INFO Key 'list' has the correct content ([1, 'two', '3', 4])
INFO Key 'list' has the correct type (<type 'list'>)
INFO Key 'dict' has the correct content ('1': 1, '3': '3', '2': 'two', '4': 4)
INFO Key 'dict' has the correct type (<type 'dict'>)
INFO Key 'unicode' has the correct content (u'unicode')
INFO Key 'unicode' has the correct type (<type 'unicode'>)
INFO Key 'integer' has the correct content (17)
INFO Key 'integer' has the correct type (<type 'int'>)
```

---

### 3.2.2 Test partially initialisation of PICKLE-Cache

This test was passed with the state: **INFO** . See also full trace in section A.4!

---

Testsummary:

---

```
INFO JSON cache initialised
INFO Partially initialised cache class by requesting some data
INFO Storage object extracted from cache class for comparison
INFO No missing items in cache
INFO No odd items in cache
INFO Key 'float' has the correct content (3.14159)
INFO Key 'float' has the correct type (<type 'float'>)
INFO Key 'list' has the correct content ([1, 'two', '3', 4])
INFO Key 'list' has the correct type (<type 'list'>)
INFO Key 'str' has the correct content ('string')
INFO Key 'str' has the correct type (<type 'str'>)
```

---

### 3.2.3 Test cached data of JSON-Cache (full init)

This test was passed with the state: **INFO** . See also full trace in section A.5!

---

Testsummary:

---

```
INFO JSON cache initialised
INFO Got expected cached value for 'uncached' from cached class. Got (uncached_data_of_class), Current Class (uncached_data_of_class)
INFO Got expected cached value for 'dict' from cached class. Got (u'1': 1, u'3': u'3', u'2': u'two', u'4': 4), Current Class ('1': '1', '3': 'three', '2': 2, '4': '4')
INFO Got expected cached value for 'unicode' from cached class. Got (unicode), Current Class (__unicode__)
INFO Got expected cached value for 'str' from cached class. Got (string), Current Class (__string__)
INFO Got expected cached value for 'integer' from cached class. Got (17), Current Class (34)
INFO Got expected cached value for 'float' from cached class. Got (3.14159), Current Class (2.71828)
INFO Got expected cached value for 'list' from cached class. Got ([1, u'two', u'3', 4]), Current Class (['one', 2, 3, '4'])
```

---

### 3.2.4 Test cached data of PICKLE-Cache (full init)

This test was passed with the state: **INFO** . See also full trace in section A.6!

---

Testsummary:

---

```
INFO JSON cache initialised
INFO Got expected cached value for 'uncached' from cached class. Got (uncached_data_of_class), Current Class
(uncached_data_of_class)
INFO Got expected cached value for 'dict' from cached class. Got ('1': 1, '3': '3', '2': 'two', '4': 4), Current Class
('1': '1', '3': 'three', '2': 2, '4': '4')
INFO Got expected cached value for 'unicode' from cached class. Got (unicode), Current Class (__unicode__)
INFO Got expected cached value for 'str' from cached class. Got (string), Current Class (__string__)
INFO Got expected cached value for 'integer' from cached class. Got (17), Current Class (34)
INFO Got expected cached value for 'float' from cached class. Got (3.14159), Current Class (2.71828)
INFO Got expected cached value for 'list' from cached class. Got ([1, 'two', '3', 4]), Current Class ([ 'one', 2, 3, '4'])
```

---

### 3.2.5 Test cached data of JSON-Cache (partially init)

This test was passed with the state: **INFO** . See also full trace in section A.7!

---

Testsummary:

---

```
INFO JSON cache initialised
INFO Got expected cached value for 'uncached' from cached class. Got (uncached_data_of_class), Current Class
(uncached_data_of_class)
INFO Got expected cached value for 'dict' from cached class. Got (u'1': 1, u'3': u'3', u'2': u'two', u'4': 4), Current
Class ('1': '1', '3': 'three', '2': 2, '4': '4')
INFO Got expected cached value for 'unicode' from cached class. Got (unicode), Current Class (__unicode__)
INFO Got expected cached value for 'str' from cached class. Got (string), Current Class (__string__)
INFO Got expected cached value for 'integer' from cached class. Got (17), Current Class (34)
INFO Got expected cached value for 'float' from cached class. Got (3.14159), Current Class (2.71828)
INFO Got expected cached value for 'list' from cached class. Got ([1, u'two', u'3', 4]), Current Class ([ 'one', 2, 3,
'4'])
```

---

### 3.2.6 Test cached data of PICKLE-Cache (partially init)

This test was passed with the state: **INFO** . See also full trace in section A.8!

---

Testsummary:

---

```
INFO JSON cache initialised
INFO Got expected cached value for 'uncached' from cached class. Got (uncached_data_of_class), Current Class
(uncached_data_of_class)
INFO Got expected cached value for 'dict' from cached class. Got ('1': 1, '3': '3', '2': 'two', '4': 4), Current Class
('1': '1', '3': 'three', '2': 2, '4': '4')
INFO Got expected cached value for 'unicode' from cached class. Got (unicode), Current Class (__unicode__)
INFO Got expected cached value for 'str' from cached class. Got (string), Current Class (__string__)
INFO Got expected cached value for 'integer' from cached class. Got (17), Current Class (34)
INFO Got expected cached value for 'float' from cached class. Got (3.14159), Current Class (2.71828)
```

**INFO** Got expected cached value for 'list' from cached class. Got ([1, 'two', '3', 4]), Current Class ([one', 2, 3, '4'])

---

### 3.2.7 Test increased data version for JSON-Cache (full init)

This test was passed with the state: **INFO** . See also full trace in section A.9!

---

Testsummary:

**INFO** JSON cache initialised  
**INFO** Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')  
**INFO** Got expected renewed value for 'unicode' from cached class (\_\_unicode\_\_)  
**INFO** Got expected renewed value for 'str' from cached class (\_\_string\_\_)  
**INFO** Got expected renewed value for 'integer' from cached class (34)  
**INFO** Got expected renewed value for 'float' from cached class (2.71828)  
**INFO** Got expected renewed value for 'list' from cached class ([u'one', 2, 3, u'4'])

---

### 3.2.8 Test increased data version for PICKLE-Cache (full init)

This test was passed with the state: **INFO** . See also full trace in section A.10!

---

Testsummary:

**INFO** JSON cache initialised  
**INFO** Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')  
**INFO** Got expected renewed value for 'unicode' from cached class (\_\_unicode\_\_)  
**INFO** Got expected renewed value for 'str' from cached class (\_\_string\_\_)  
**INFO** Got expected renewed value for 'integer' from cached class (34)  
**INFO** Got expected renewed value for 'float' from cached class (2.71828)  
**INFO** Got expected renewed value for 'list' from cached class ([one', 2, 3, '4'])

---

### 3.2.9 Test increased data version for JSON-Cache (partially init)

This test was passed with the state: **INFO** . See also full trace in section A.11!

---

Testsummary:

**INFO** JSON cache initialised  
**INFO** Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')  
**INFO** Got expected renewed value for 'unicode' from cached class (\_\_unicode\_\_)  
**INFO** Got expected renewed value for 'str' from cached class (\_\_string\_\_)  
**INFO** Got expected renewed value for 'integer' from cached class (34)  
**INFO** Got expected renewed value for 'float' from cached class (2.71828)  
**INFO** Got expected renewed value for 'list' from cached class ([one', 2, 3, '4'])

---

### 3.2.10 Test increased data version for PICKLE-Cache (partially init)

This test was passed with the state: **INFO** . See also full trace in section A.12!



---

Testsummary:

```

INFO  JSON cache initialised
INFO  Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')
INFO  Got expected renewed value for 'unicode' from cached class (__unicode__)
INFO  Got expected renewed value for 'str' from cached class (__string__)
INFO  Got expected renewed value for 'integer' from cached class (34)
INFO  Got expected renewed value for 'float' from cached class (2.71828)
INFO  Got expected renewed value for 'list' from cached class (['one', 2, 3, '4'])

```

---

**3.2.11 Test changed uid for JSON-Cache (full init)**

This test was passed with the state: **INFO** . See also full trace in section A.13!

---

Testsummary:

```

INFO  JSON cache initialised
INFO  Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')
INFO  Got expected renewed value for 'unicode' from cached class (__unicode__)
INFO  Got expected renewed value for 'str' from cached class (__string__)
INFO  Got expected renewed value for 'integer' from cached class (34)
INFO  Got expected renewed value for 'float' from cached class (2.71828)
INFO  Got expected renewed value for 'list' from cached class ([u'one', 2, 3, u'4'])

```

---

**3.2.12 Test changed uid for PICKLE-Cache (full init)**

This test was passed with the state: **INFO** . See also full trace in section A.14!

---

Testsummary:

```

INFO  JSON cache initialised
INFO  Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')
INFO  Got expected renewed value for 'unicode' from cached class (__unicode__)
INFO  Got expected renewed value for 'str' from cached class (__string__)
INFO  Got expected renewed value for 'integer' from cached class (34)
INFO  Got expected renewed value for 'float' from cached class (2.71828)
INFO  Got expected renewed value for 'list' from cached class (['one', 2, 3, '4'])

```

---

**3.2.13 Test changed uid for JSON-Cache (partially init)**

This test was passed with the state: **INFO** . See also full trace in section A.15!

---

Testsummary:

```

INFO  JSON cache initialised
INFO  Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')
INFO  Got expected renewed value for 'unicode' from cached class (__unicode__)

```

---

INFO Got expected renewed value for 'str' from cached class (\_\_string\_\_)

INFO Got expected renewed value for 'integer' from cached class (34)

INFO Got expected renewed value for 'float' from cached class (2.71828)

INFO Got expected renewed value for 'list' from cached class (['one', 2, 3, '4'])

---

### 3.2.14 Test changed uid for PICKLE-Cache (partially init)

This test was passed with the state: **INFO** . See also full trace in section A.16!

---

Testsummary:

---

INFO JSON cache initialised

INFO Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')

INFO Got expected renewed value for 'unicode' from cached class (\_\_unicode\_\_)

INFO Got expected renewed value for 'str' from cached class (\_\_string\_\_)

INFO Got expected renewed value for 'integer' from cached class (34)

INFO Got expected renewed value for 'float' from cached class (2.71828)

INFO Got expected renewed value for 'list' from cached class (['one', 2, 3, '4'])

---

### 3.2.15 Test save callback for JSON-Cache (full init)

This test was passed with the state: **INFO** . See also full trace in section A.17!

---

Testsummary:

---

INFO Save callback was executed as expected

---

### 3.2.16 Test save callback for PICKLE-Cache (full init)

This test was passed with the state: **INFO** . See also full trace in section A.18!

---

Testsummary:

---

INFO Save callback was executed as expected

---

### 3.2.17 Test JSON-Cache internal keys

This test was passed with the state: **INFO** . See also full trace in section A.19!

---

Testsummary:

---

INFO JSON cache initialised

INFO Storage object extracted from cache class for comparison

INFO No missing items in cache

INFO No odd items in cache

INFO Key '\_\_property\_cache\_data\_version\_' has the correct content (u'no data version')

INFO Key '\_\_property\_cache\_data\_version\_' has the correct type (<type 'unicode'>)

---

```
INFO Key '___property_cache_data_version_' has the correct content (u'no second data version')
INFO Key '___property_cache_data_version_' has the correct type (<type 'unicode'>)
INFO Key '___property_cache_uid_' has the correct content (u'no uid')
INFO Key '___property_cache_uid_' has the correct type (<type 'unicode'>)
INFO Key '___property_cache_uid_' has the correct content (u'no second uid')
INFO Key '___property_cache_uid_' has the correct type (<type 'unicode'>)
```

---

### 3.2.18 Test PICKLE-Cache internal keys

This test was passed with the state: **INFO** . See also full trace in section A.20!

---

Testsummary:

---

```
INFO JSON cache initialised
INFO Storage object extracted from cache class for comparison
INFO No missing items in cache
INFO No odd items in cache
INFO Key '___property_cache_data_version_' has the correct content (u'no data version')
INFO Key '___property_cache_data_version_' has the correct type (<type 'unicode'>)
INFO Key '___property_cache_data_version_' has the correct content (u'no second data version')
INFO Key '___property_cache_data_version_' has the correct type (<type 'unicode'>)
INFO Key '___property_cache_uid_' has the correct content (u'no uid')
INFO Key '___property_cache_uid_' has the correct type (<type 'unicode'>)
INFO Key '___property_cache_uid_' has the correct content (u'no second uid')
INFO Key '___property_cache_uid_' has the correct type (<type 'unicode'>)
```

---

## A Complete Trace

### A.1 Test full initialisation of JSON-Cache (warning)

This test was passed with the state: **WARNING**

Description:	Test full initialisation of JSON-Cache
Caller:	my_unittest.py (54)
Start-Time:	2018-02-15 15:20:51,055
Finished-Time:	2018-02-15 15:20:51,059
Time-Consumption	0.004s
Testsummary:	
INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unitest_pylibs/caching/tmp/load_on_init.json as cache file
DEBUG	JsonCache: Cache file does not exists (yet).
DEBUG	JsonCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/load_on_init.json)
INFO	Storage object extracted from cache class for comparison
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/load_on_init.json)
INFO	Using storage object of cache class for comparison: u'str': u'string', u'_property_cache_uid': u'my-unique-id', u'float': 3.14159, u'list': [1, u'two', u'3', 4], u'dict': u'1': 1, u'3': u'3', u'2': u'two', u'4': 4, u'unicode': u'unicode', u'_property_cache_data_version_': 1, u'integer': 17
INFO	Deleted overhead keys: _property_cache_data_version_, _property_cache_uid_
INFO	No missing items in cache
DEBUG	REPORT: Starting...
INFO	No odd items in cache
DEBUG	REPORT: Starting...
INFO	Key 'str' has the correct content ('string')
DEBUG	REPORT: Starting...
WARNING	Key 'str' has a slightly different type. Cache/ Data: <type 'unicode'>/ <type 'str'>.
DEBUG	REPORT: Starting...
WARNING	This type difference is a known issue with json
INFO	Key 'float' has the correct content (3.14159)
DEBUG	REPORT: Starting...

INFO	Key 'float' has the correct type (<type 'float'>)
DEBUG	REPORT: Starting...
INFO	Key 'list' has the correct content ([1, 'two', '3', 4])
DEBUG	REPORT: Starting...
INFO	Key 'list' has the correct type (<type 'list'>)
DEBUG	REPORT: Starting...
INFO	Key 'dict' has the correct content ('1': 1, '3': '3', '2': 'two', '4': 4)
DEBUG	REPORT: Starting...
INFO	Key 'dict' has the correct type (<type 'dict'>)
DEBUG	REPORT: Starting...
INFO	Key 'unicode' has the correct content (u'unicode')
DEBUG	REPORT: Starting...
INFO	Key 'unicode' has the correct type (<type 'unicode'>)
DEBUG	REPORT: Starting...
INFO	Key 'integer' has the correct content (17)
DEBUG	REPORT: Starting...
INFO	Key 'integer' has the correct type (<type 'int'>)
DEBUG	REPORT: Starting...

## A.2 Test full initialisation of PICKLE-Cache (success)

This test was passed with the state: **INFO**

Description:	Test full initialisation of PICKLE-Cache
Caller:	my_unittest.py (55)
Start-Time:	2018-02-15 15:20:51,059
Finished-Time:	2018-02-15 15:20:51,062
Time-Consumption	0.003s
Testsummary:	
INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unitest_pylibs/caching/tmp/load_on_init.pkl as cache file
DEBUG	PickCache: Cache file does not exists (yet).
DEBUG	PickCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/load_on_init.pkl)
INFO	Storage object extracted from cache class for comparison

DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/load_on_init.pkl)
INFO	Using storage object of cache class for comparison: 'str': 'string', '_property_cache_uid_': 'my_unique_id', 'float': 3.14159, 'list': [1, 'two', '3', 4], 'dict': '1': 1, '3': '3', '2': 'two', '4': 4, 'unicode': u'unicode', '_property_cache_data_version_': 1, 'integer': 17
INFO	Deleted overhead keys: _property_cache_data_version_, _property_cache_uid_
INFO	No missing items in cache
DEBUG	REPORT: Starting...
INFO	No odd items in cache
DEBUG	REPORT: Starting...
INFO	Key 'str' has the correct content ('string')
DEBUG	REPORT: Starting...
INFO	Key 'str' has the correct type (<type 'str'>)
DEBUG	REPORT: Starting...
INFO	Key 'float' has the correct content (3.14159)
DEBUG	REPORT: Starting...
INFO	Key 'float' has the correct type (<type 'float'>)
DEBUG	REPORT: Starting...
INFO	Key 'list' has the correct content ([1, 'two', '3', 4])
DEBUG	REPORT: Starting...
INFO	Key 'list' has the correct type (<type 'list'>)
DEBUG	REPORT: Starting...
INFO	Key 'dict' has the correct content ('1': 1, '3': '3', '2': 'two', '4': 4)
DEBUG	REPORT: Starting...
INFO	Key 'dict' has the correct type (<type 'dict'>)
DEBUG	REPORT: Starting...
INFO	Key 'unicode' has the correct content (u'unicode')
DEBUG	REPORT: Starting...
INFO	Key 'unicode' has the correct type (<type 'unicode'>)
DEBUG	REPORT: Starting...
INFO	Key 'integer' has the correct content (17)
DEBUG	REPORT: Starting...
INFO	Key 'integer' has the correct type (<type 'int'>)
DEBUG	REPORT: Starting...

### A.3 Test partially initialisation of JSON-Cache (warning)

This test was passed with the state: **WARNING**

Description:	Test partially initialisation of JSON-Cache
Caller:	my_unittest.py (56)
Start-Time:	2018-02-15 15:20:51,063
Finished-Time:	2018-02-15 15:20:51,074
Time-Consumption	0.011s
Testsummary:	
INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unitest_pylibs/caching/tmp/no_load_on_init.json as cache file
DEBUG	JsonCache: Cache file does not exists (yet).
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/no_load_on_init.json)
INFO	Partially initialised cache class by requesting some data
DEBUG	REPORT: Starting...
DEBUG	JsonCache: Loading property for 'float' from source instance (3.14159)
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'list' from source instance ([1, 'two', '3', 4])
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'str' from source instance ('string')
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/no_load_on_init.json)
INFO	Storage object extracted from cache class for comparison
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/no_load_on_init.json)
INFO	Using storage object of cache class for comparison: u'_property_cache_data_version_': 1, u'float': 3.14159, u'list': [1, u'two', u'3', 4], u'str': u'string', u'_property_cache_uid_': u'my-unique-id'
INFO	Deleted overhead keys: _property_cache_data_version_, _property_cache_uid_
INFO	No missing items in cache
DEBUG	REPORT: Starting...
INFO	No odd items in cache
DEBUG	REPORT: Starting...
INFO	Key 'float' has the correct content (3.14159)
DEBUG	REPORT: Starting...

INFO	Key 'float' has the correct type (<type 'float'>)
DEBUG	REPORT: Starting...
INFO	Key 'list' has the correct content ([1, 'two', '3', 4])
DEBUG	REPORT: Starting...
INFO	Key 'list' has the correct type (<type 'list'>)
DEBUG	REPORT: Starting...
INFO	Key 'str' has the correct content ('string')
DEBUG	REPORT: Starting...
WARNING	Key 'str' has a slightly different type. Cache/ Data: <type 'unicode'>/ <type 'str'>.
DEBUG	REPORT: Starting...
WARNING	This type difference is a known issue with json

## A.4 Test partially initialisation of PICKLE-Cache (success)

This test was passed with the state: **INFO**

Description:	Test partially initialisation of PICKLE-Cache
Caller:	my_unittest.py (57)
Start-Time:	2018-02-15 15:20:51,074
Finished-Time:	2018-02-15 15:20:51,077
Time-Consumption	0.003s
Testsummary:	
INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unittest_pylibs/caching/tmp/no_load_on_init.pkl as cache file
DEBUG	PickCache: Cache file does not exists (yet).
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/no_load_on_init.pkl)
INFO	Partially initialised cache class by requesting some data
DEBUG	REPORT: Starting...
DEBUG	PickCache: Loading property for 'float' from source instance (3.14159)
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/no_load_on_init.pkl)
DEBUG	PickCache: Loading property for 'list' from source instance ([1, 'two', '3', 4])
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/no_load_on_init.pkl)
DEBUG	PickCache: Loading property for 'str' from source instance ('string')
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/no_load_on_init.pkl)



INFO	Storage object extracted from cache class for comparison
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/no_load_on_init.pkl)
INFO	Using storage object of cache class for comparison: '_property_cache_data_version': 1, 'float': 3.14159, 'list': [1, 'two', '3', 4], 'str': 'string', '_property_cache_uid': 'my-unique-id'
INFO	Deleted overhead keys: _property_cache_data_version_, _property_cache_uid_
INFO	No missing items in cache
DEBUG	REPORT: Starting...
INFO	No odd items in cache
DEBUG	REPORT: Starting...
INFO	Key 'float' has the correct content (3.14159)
DEBUG	REPORT: Starting...
INFO	Key 'float' has the correct type (<type 'float'>)
DEBUG	REPORT: Starting...
INFO	Key 'list' has the correct content ([1, 'two', '3', 4])
DEBUG	REPORT: Starting...
INFO	Key 'list' has the correct type (<type 'list'>)
DEBUG	REPORT: Starting...
INFO	Key 'str' has the correct content ('string')
DEBUG	REPORT: Starting...
INFO	Key 'str' has the correct type (<type 'str'>)
DEBUG	REPORT: Starting...

## A.5 Test cached data of JSON-Cache (full init) (success)

This test was passed with the state: **INFO**

Description:	Test cached data of JSON-Cache (full init)
Caller:	my_unittest.py (58)
Start-Time:	2018-02-15 15:20:51,077
Finished-Time:	2018-02-15 15:20:51,079
Time-Consumption	0.002s
Testsummary:	
INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unitest_pylibs/caching/tmp/cache_data_test_load_on_init.json as cache file

DEBUG	JsonCache: Cache file does not exists (yet).
DEBUG	JsonCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/cache_data_test_load_on_init.json)
INFO	Got expected cached value for 'uncached' from cached class. Got (uncached_data_of_class), Current Class (uncached_data_of_class)
DEBUG	REPORT: Starting...
WARNING	JsonCache: Key 'uncached' is not in cached.keys. Uncached data will be returned.
INFO	Got expected cached value for 'dict' from cached class. Got (u'1': 1, u'3': u'3', u'2': u'two', u'4': 4), Current Class ('1': '1', '3': 'three', '2': 2, '4': '4')
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/cache_data_test_load_on_init.json)
DEBUG	JsonCache: Providing property for 'dict' from cache (u'1': 1, u'3': u'3', u'2': u'two', u'4': 4)
INFO	Got expected cached value for 'unicode' from cached class. Got (unicode), Current Class (__unicode__)
DEBUG	REPORT: Starting...
DEBUG	JsonCache: Providing property for 'unicode' from cache (u'unicode')
INFO	Got expected cached value for 'str' from cached class. Got (string), Current Class (__string__)
DEBUG	REPORT: Starting...
DEBUG	JsonCache: Providing property for 'str' from cache (u'string')
INFO	Got expected cached value for 'integer' from cached class. Got (17), Current Class (34)
DEBUG	REPORT: Starting...
DEBUG	JsonCache: Providing property for 'integer' from cache (17)
INFO	Got expected cached value for 'float' from cached class. Got (3.14159), Current Class (2.71828)
DEBUG	REPORT: Starting...
DEBUG	JsonCache: Providing property for 'float' from cache (3.14159)
INFO	Got expected cached value for 'list' from cached class. Got ([1, u'two', u'3', 4]), Current Class ([ 'one', 2, 3, '4'])
DEBUG	REPORT: Starting...
DEBUG	JsonCache: Providing property for 'list' from cache ([1, u'two', u'3', 4])

## A.6 Test cached data of PICKLE-Cache (full init) (success)

This test was passed with the state: **INFO**

Description:	Test cached data of PICKLE-Cache (full init)
Caller:	my_unitest.py (59)
Start-Time:	2018-02-15 15:20:51,079
Finished-Time:	2018-02-15 15:20:51,089
Time-Consumption	0.010s

## Testsummary:

INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unitest_pylibs/caching/tmp/cache_data_test_load_on_init.pkl as cache file
DEBUG	PickCache: Cache file does not exists (yet).
DEBUG	PickCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/cache_data_test_load_on_init.pkl)
INFO	Got expected cached value for 'uncached' from cached class. Got (uncached_data_of_class), Current Class (uncached_data_of_class)
DEBUG	REPORT: Starting...
WARNING	PickCache: Key 'uncached' is not in cached_keys. Uncached data will be returned.
INFO	Got expected cached value for 'dict' from cached class. Got ('1': 1, '3': '3', '2': 'two', '4': 4), Current Class ('1': '1', '3': 'three', '2': 2, '4': '4')
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/cache_data_test_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'dict' from cache ('1': 1, '3': '3', '2': 'two', '4': 4)
INFO	Got expected cached value for 'unicode' from cached class. Got (unicode), Current Class (-- unicode--)
DEBUG	REPORT: Starting...
DEBUG	PickCache: Providing property for 'unicode' from cache (u'unicode')
INFO	Got expected cached value for 'str' from cached class. Got (string), Current Class (_string--)
DEBUG	REPORT: Starting...
DEBUG	PickCache: Providing property for 'str' from cache ('string')
INFO	Got expected cached value for 'integer' from cached class. Got (17), Current Class (34)
DEBUG	REPORT: Starting...
DEBUG	PickCache: Providing property for 'integer' from cache (17)
INFO	Got expected cached value for 'float' from cached class. Got (3.14159), Current Class (2.71828)
DEBUG	REPORT: Starting...
DEBUG	PickCache: Providing property for 'float' from cache (3.14159)
INFO	Got expected cached value for 'list' from cached class. Got ([1, 'two', '3', 4]), Current Class ([one, 2, 3, '4'])
DEBUG	REPORT: Starting...
DEBUG	PickCache: Providing property for 'list' from cache ([1, 'two', '3', 4])

## A.7 Test cached data of JSON-Cache (partially init) (success)

This test was passed with the state: **INFO**

Description:	Test cached data of JSON-Cache (partially init)
Caller:	my_unittest.py (60)
Start-Time:	2018-02-15 15:20:51,089
Finished-Time:	2018-02-15 15:20:51,092
Time-Consumption	0.003s
Testsummary:	
<b>INFO</b>	JSON cache initialised
<b>DEBUG</b>	REPORT: Starting...
<b>INFO</b>	Deleting cache file from filesystem to ensure identical conditions for each test run
<b>INFO</b>	Initialising cached class with /user_data/data/dirk/prj/unitest_pylibs/caching/tmp/cache_data_test_no_load_on_init.json as cache file
<b>DEBUG</b>	JsonCache: Cache file does not exists (yet).
<b>DEBUG</b>	JsonCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
<b>INFO</b>	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/cache_data_test_no_load_on_init.json)
<b>INFO</b>	Got expected cached value for 'uncached' from cached class. Got (uncached_data_of_class), Current Class (uncached_data_of_class)
<b>DEBUG</b>	REPORT: Starting...
<b>WARNING</b>	JsonCache: Key 'uncached' is not in cached keys. Uncached data will be returned.
<b>INFO</b>	Got expected cached value for 'dict' from cached class. Got (u'1': 1, u'3': u'3', u'2': u'two', u'4': 4), Current Class ('1': '1', '3': 'three', '2': 2, '4': '4')
<b>DEBUG</b>	REPORT: Starting...
<b>INFO</b>	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/cache_data_test_no_load_on_init.json)
<b>DEBUG</b>	JsonCache: Providing property for 'dict' from cache (u'1': 1, u'3': u'3', u'2': u'two', u'4': 4)
<b>INFO</b>	Got expected cached value for 'unicode' from cached class. Got (unicode), Current Class (.. unicode..)
<b>DEBUG</b>	REPORT: Starting...
<b>DEBUG</b>	JsonCache: Providing property for 'unicode' from cache (u'unicode')
<b>INFO</b>	Got expected cached value for 'str' from cached class. Got (string), Current Class (_string_)
<b>DEBUG</b>	REPORT: Starting...
<b>DEBUG</b>	JsonCache: Providing property for 'str' from cache (u'string')
<b>INFO</b>	Got expected cached value for 'integer' from cached class. Got (17), Current Class (34)
<b>DEBUG</b>	REPORT: Starting...
<b>DEBUG</b>	JsonCache: Providing property for 'integer' from cache (17)
<b>INFO</b>	Got expected cached value for 'float' from cached class. Got (3.14159), Current Class (2.71828)
<b>DEBUG</b>	REPORT: Starting...

DEBUG	JsonCache: Providing property for 'float' from cache (3.14159)
INFO	Got expected cached value for 'list' from cached class. Got ([1, u'two', u'3', 4]), Current Class ([one', 2, 3, '4'])
DEBUG	REPORT: Starting...
DEBUG	JsonCache: Providing property for 'list' from cache ([1, u'two', u'3', 4])

## A.8 Test cached data of PICKLE-Cache (partially init) (success)

This test was passed with the state: **INFO**

Description:	Test cached data of PICKLE-Cache (partially init)
Caller:	my_unittest.py (61)
Start-Time:	2018-02-15 15:20:51,092
Finished-Time:	2018-02-15 15:20:51,095
Time-Consumption	0.002s
Testsummary:	
INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unittest_pylibs/caching/tmp/cache_data_test_no_load_on_init.pkl as cache file
DEBUG	PickCache: Cache file does not exists (yet).
DEBUG	PickCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/cache_data_test_no_load_on_init.pkl)
INFO	Got expected cached value for 'uncached' from cached class. Got (uncached_data_of_class), Current Class (uncached_data_of_class)
DEBUG	REPORT: Starting...
WARNING	PickCache: Key 'uncached' is not in cached_keys. Uncached data will be returned.
INFO	Got expected cached value for 'dict' from cached class. Got ('1': 1, '3': '3', '2': 'two', '4': 4), Current Class ('1': '1', '3': 'three', '2': 2, '4': '4')
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/cache_data_test_no_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'dict' from cache ('1': 1, '3': '3', '2': 'two', '4': 4)
INFO	Got expected cached value for 'unicode' from cached class. Got (unicode), Current Class (__unicode__)
DEBUG	REPORT: Starting...
DEBUG	PickCache: Providing property for 'unicode' from cache (u'unicode')
INFO	Got expected cached value for 'str' from cached class. Got (string), Current Class (__string__)
DEBUG	REPORT: Starting...

DEBUG	PickCache: Providing property for 'str' from cache ('string')
INFO	Got expected cached value for 'integer' from cached class. Got (17), Current Class (34)
DEBUG	REPORT: Starting...
DEBUG	PickCache: Providing property for 'integer' from cache (17)
INFO	Got expected cached value for 'float' from cached class. Got (3.14159), Current Class (2.71828)
DEBUG	REPORT: Starting...
DEBUG	PickCache: Providing property for 'float' from cache (3.14159)
INFO	Got expected cached value for 'list' from cached class. Got ([1, 'two', '3', 4]), Current Class ([1, 'one', 2, 3, '4'])
DEBUG	REPORT: Starting...
DEBUG	PickCache: Providing property for 'list' from cache ([1, 'two', '3', 4])

## A.9 Test increased data version for JSON-Cache (full init) (success)

This test was passed with the state: **INFO**

Description:	Test increased data version for JSON-Cache (full init)
Caller:	my_unittest.py (62)
Start-Time:	2018-02-15 15:20:51,095
Finished-Time:	2018-02-15 15:20:51,105
Time-Consumption	0.010s
Testsummary:	
INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version.test_load_on_init.json as cache file
DEBUG	JsonCache: Cache file does not exists (yet).
DEBUG	JsonCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version.test_load_on_init.json)
INFO	Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version.test_load_on_init.json)
DEBUG	JsonCache: Data version increased, ignoring previous cache data
DEBUG	JsonCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version.test_load_on_init.json)
DEBUG	JsonCache: Providing property for 'dict' from cache ('1': '1', '3': 'three', '2': 2, '4': '4')

INFO	Got expected renewed value for 'unicode' from cached class (__unicode__)
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version.test_load_on_init.json)
DEBUG	JsonCache: Providing property for 'unicode' from cache (u'__unicode__')
INFO	Got expected renewed value for 'str' from cached class (__string__)
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version.test_load_on_init.json)
DEBUG	JsonCache: Providing property for 'str' from cache (u'__string__')
INFO	Got expected renewed value for 'integer' from cached class (34)
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version.test_load_on_init.json)
DEBUG	JsonCache: Providing property for 'integer' from cache (34)
INFO	Got expected renewed value for 'float' from cached class (2.71828)
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version.test_load_on_init.json)
DEBUG	JsonCache: Providing property for 'float' from cache (2.71828)
INFO	Got expected renewed value for 'list' from cached class ([u'one', 2, 3, u'4'])
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version.test_load_on_init.json)
DEBUG	JsonCache: Providing property for 'list' from cache ([u'one', 2, 3, u'4'])

## A.10 Test increased data version for PICKLE-Cache (full init) (success)

This test was passed with the state: **INFO**

Description:	Test increased data version for PICKLE-Cache (full init)
Caller:	my_unittest.py (63)
Start-Time:	2018-02-15 15:20:51,106
Finished-Time:	2018-02-15 15:20:51,110
Time-Consumption	0.004s
Testsummary:	
INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version.test_load_on_init.pkl as cache file
DEBUG	PickCache: Cache file does not exists (yet).
DEBUG	PickCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']

INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_load_on_init.pkl)
INFO	Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_load_on_init.pkl)
DEBUG	PickCache: Data version increased, ignoring previous cache data
DEBUG	PickCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'dict' from cache ('1': '1', '3': 'three', '2': 2, '4': '4')
INFO	Got expected renewed value for 'unicode' from cached class (__unicode__)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'unicode' from cache (u'__unicode__')
INFO	Got expected renewed value for 'str' from cached class (__string__)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'str' from cache ('__string__')
INFO	Got expected renewed value for 'integer' from cached class (34)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'integer' from cache (34)
INFO	Got expected renewed value for 'float' from cached class (2.71828)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'float' from cache (2.71828)
INFO	Got expected renewed value for 'list' from cached class (['one', 2, 3, '4'])
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'list' from cache (['one', 2, 3, '4'])

## A.11 Test increased data version for JSON-Cache (partially init) (success)

This test was passed with the state: **INFO**

Description:	Test increased data version for JSON-Cache (partially init)
Caller:	my_unittest.py (64)



Start-Time: 2018-02-15 15:20:51,110  
Finished-Time: 2018-02-15 15:20:51,121  
Time-Consumption 0.011s

# Testsummary:

INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.json as cache file
DEBUG	JsonCache: Cache file does not exists (yet).
DEBUG	JsonCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)
INFO	Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)
DEBUG	JsonCache: Data version increased, ignoring previous cache data
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'dict' from source instance ('1': '1', '3': 'three', '2': 2, '4': '4')
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)
INFO	Got expected renewed value for 'unicode' from cached class (__unicode__)
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'unicode' from source instance (u'__unicode__')
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)
INFO	Got expected renewed value for 'str' from cached class (__string__)
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'str' from source instance ('__string__')
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)
INFO	Got expected renewed value for 'integer' from cached class (34)
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'integer' from source instance (34)

INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)
INFO	Got expected renewed value for 'float' from cached class (2.71828)
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'float' from source instance (2.71828)
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)
INFO	Got expected renewed value for 'list' from cached class (['one', 2, 3, '4'])
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'list' from source instance (['one', 2, 3, '4'])
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_no_load_on_init.json)

## A.12 Test increased data version for PICKLE-Cache (partially init) (success)

This test was passed with the state: **INFO**

Description:	Test increased data version for PICKLE-Cache (partially init)
Caller:	my_unittest.py (65)
Start-Time:	2018-02-15 15:20:51,122
Finished-Time:	2018-02-15 15:20:51,127
Time-Consumption	0.005s
Testsummary:	
INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl as cache file
DEBUG	PickCache: Cache file does not exists (yet).
DEBUG	PickCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)
INFO	Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)
DEBUG	PickCache: Data version increased, ignoring previous cache data
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)

DEBUG	PickCache: Loading property for 'dict' from source instance ('1': '1', '3': 'three', '2': 2, '4': '4')
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)
INFO	Got expected renewed value for 'unicode' from cached class (__unicode__)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)
DEBUG	PickCache: Loading property for 'unicode' from source instance (u'__unicode__')
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)
INFO	Got expected renewed value for 'str' from cached class (__string__)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)
DEBUG	PickCache: Loading property for 'str' from source instance ('__string__')
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)
INFO	Got expected renewed value for 'integer' from cached class (34)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)
DEBUG	PickCache: Loading property for 'integer' from source instance (34)
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)
INFO	Got expected renewed value for 'float' from cached class (2.71828)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)
DEBUG	PickCache: Loading property for 'float' from source instance (2.71828)
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)
INFO	Got expected renewed value for 'list' from cached class (['one', 2, 3, '4'])
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)
DEBUG	PickCache: Loading property for 'list' from source instance (['one', 2, 3, '4'])
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/data_version_test_no_load_on_init.pkl)

### A.13 Test changed uid for JSON-Cache (full init) (success)

This test was passed with the state: **INFO**

Description: Test changed uid for JSON-Cache (full init)  
 Caller: my\_unittest.py (66)  
 Start-Time: 2018-02-15 15:20:51,128  
 Finished-Time: 2018-02-15 15:20:51,137  
 Time-Consumption 0.009s

# Testsummary:

INFO JSON cache initialised

DEBUG REPORT: Starting...

INFO Deleting cache file from filesystem to ensure identical conditions for each test run

INFO Initialising cached class with /user\_data/data/dirk/prj/unittest\_pylibs/caching/tmp/uid\_test\_load\_on\_init.json as cache file

DEBUG JsonCache: Cache file does not exists (yet).

DEBUG JsonCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']

INFO JsonCache: cache-file stored (/user\_data/data/dirk/prj/unittest\_pylibs/caching/tmp/uid\_test\_load\_on\_init.json)

INFO Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')

DEBUG REPORT: Starting...

INFO JsonCache: Loading properties from cache (/user\_data/data/dirk/prj/unittest\_pylibs/caching/tmp/uid\_test\_load\_on\_init.json)

DEBUG JsonCache: Source uid changed, ignoring previous cache data

DEBUG JsonCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']

INFO JsonCache: cache-file stored (/user\_data/data/dirk/prj/unittest\_pylibs/caching/tmp/uid\_test\_load\_on\_init.json)

DEBUG JsonCache: Providing property for 'dict' from cache ('1': '1', '3': 'three', '2': 2, '4': '4')

INFO Got expected renewed value for 'unicode' from cached class (\_\_unicode\_\_)

DEBUG REPORT: Starting...

INFO JsonCache: Loading properties from cache (/user\_data/data/dirk/prj/unittest\_pylibs/caching/tmp/uid\_test\_load\_on\_init.json)

DEBUG JsonCache: Providing property for 'unicode' from cache (u'\_\_unicode\_\_')

INFO Got expected renewed value for 'str' from cached class (\_\_string\_\_)

DEBUG REPORT: Starting...

INFO JsonCache: Loading properties from cache (/user\_data/data/dirk/prj/unittest\_pylibs/caching/tmp/uid\_test\_load\_on\_init.json)

DEBUG JsonCache: Providing property for 'str' from cache (u'\_\_string\_\_')

INFO Got expected renewed value for 'integer' from cached class (34)

DEBUG REPORT: Starting...

INFO JsonCache: Loading properties from cache (/user\_data/data/dirk/prj/unittest\_pylibs/caching/tmp/uid\_test\_load\_on\_init.json)

DEBUG JsonCache: Providing property for 'integer' from cache (34)

INFO Got expected renewed value for 'float' from cached class (2.71828)

DEBUG REPORT: Starting...

INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_load_on_init.json)
DEBUG	JsonCache: Providing property for 'float' from cache (2.71828)
INFO	Got expected renewed value for 'list' from cached class ([u'one', 2, 3, u'4'])
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_load_on_init.json)
DEBUG	JsonCache: Providing property for 'list' from cache ([u'one', 2, 3, u'4'])

## A.14 Test changed uid for PICKLE-Cache (full init) (success)

This test was passed with the state: **INFO**

Description:	Test changed uid for PICKLE-Cache (full init)
Caller:	my_unittest.py (67)
Start-Time:	2018-02-15 15:20:51,138
Finished-Time:	2018-02-15 15:20:51,143
Time-Consumption	0.005s
Testsummary:	
INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_load_on_init.pkl as cache file
DEBUG	PickCache: Cache file does not exists (yet).
DEBUG	PickCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_load_on_init.pkl)
INFO	Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_load_on_init.pkl)
DEBUG	PickCache: Source uid changed, ignoring previous cache data
DEBUG	PickCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'dict' from cache ('1': '1', '3': 'three', '2': 2, '4': '4')
INFO	Got expected renewed value for 'unicode' from cached class (__unicode__)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'unicode' from cache (u'__unicode__')

INFO	Got expected renewed value for 'str' from cached class ().__string__)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'str' from cache ().__string__)
INFO	Got expected renewed value for 'integer' from cached class (34)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'integer' from cache (34)
INFO	Got expected renewed value for 'float' from cached class (2.71828)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'float' from cache (2.71828)
INFO	Got expected renewed value for 'list' from cached class ([ 'one', 2, 3, '4'])
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_load_on_init.pkl)
DEBUG	PickCache: Providing property for 'list' from cache ([ 'one', 2, 3, '4'])

## A.15 Test changed uid for JSON-Cache (partially init) (success)

This test was passed with the state: **INFO**

Description:	Test changed uid for JSON-Cache (partially init)
Caller:	my_unittest.py (68)
Start-Time:	2018-02-15 15:20:51,143
Finished-Time:	2018-02-15 15:20:51,154
Time-Consumption	0.010s
Testsummary:	
INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_no_load_on_init.json as cache file
DEBUG	JsonCache: Cache file does not exists (yet).
DEBUG	JsonCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_no_load_on_init.json)
INFO	Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')
DEBUG	REPORT: Starting...

INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.json)
DEBUG	JsonCache: Source uid changed, ignoring previous cache data
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'dict' from source instance ('1': '1', '3': 'three', '2': 2, '4': '4')
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.json)
INFO	Got expected renewed value for 'unicode' from cached class (__unicode__)
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'unicode' from source instance (u'__unicode__')
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.json)
INFO	Got expected renewed value for 'str' from cached class (__string__)
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'str' from source instance ('__string__')
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.json)
INFO	Got expected renewed value for 'integer' from cached class (34)
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'integer' from source instance (34)
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.json)
INFO	Got expected renewed value for 'float' from cached class (2.71828)
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'float' from source instance (2.71828)
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.json)
INFO	Got expected renewed value for 'list' from cached class (['one', 2, 3, '4'])
DEBUG	REPORT: Starting...
INFO	JsonCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.json)
DEBUG	JsonCache: Loading property for 'list' from source instance (['one', 2, 3, '4'])
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.json)



## A.16 Test changed uid for PICKLE-Cache (partially init) (success)

This test was passed with the state: **INFO**

Description:	Test changed uid for PICKLE-Cache (partially init)
Caller:	my_unittest.py (69)
Start-Time:	2018-02-15 15:20:51,155
Finished-Time:	2018-02-15 15:20:51,161
Time-Consumption	0.005s
Testsummary:	
INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl as cache file
DEBUG	PickCache: Cache file does not exists (yet).
DEBUG	PickCache: Loading all data from source - ['dict', 'unicode', 'str', 'integer', 'float', 'list']
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)
INFO	Got expected renewed value for 'dict' from cached class ('1': '1', '3': 'three', '2': 2, '4': '4')
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)
DEBUG	PickCache: Source uid changed, ignoring previous cache data
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)
DEBUG	PickCache: Loading property for 'dict' from source instance ('1': '1', '3': 'three', '2': 2, '4': '4')
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)
INFO	Got expected renewed value for 'unicode' from cached class (__unicode__)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)
DEBUG	PickCache: Loading property for 'unicode' from source instance (u'__unicode__')
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)
INFO	Got expected renewed value for 'str' from cached class (__string__)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)
DEBUG	PickCache: Loading property for 'str' from source instance ('__string__')
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unittest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)



INFO	Got expected renewed value for 'integer' from cached class (34)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)
DEBUG	PickCache: Loading property for 'integer' from source instance (34)
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)
INFO	Got expected renewed value for 'float' from cached class (2.71828)
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)
DEBUG	PickCache: Loading property for 'float' from source instance (2.71828)
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)
INFO	Got expected renewed value for 'list' from cached class (['one', 2, 3, '4'])
DEBUG	REPORT: Starting...
INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)
DEBUG	PickCache: Loading property for 'list' from source instance (['one', 2, 3, '4'])
INFO	PickCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/uid_test_no_load_on_init.pkl)

## A.17 Test save callback for JSON-Cache (full init) (success)

This test was passed with the state: INFO

Description:	Test save callback for JSON-Cache (full init)
Caller:	my_unittest.py (70)
Start-Time:	2018-02-15 15:20:51,161
Finished-Time:	2018-02-15 15:20:51,161
Time-Consumption	0.000s
Testsummary:	
INFO	Save callback was executed as expected
DEBUG	REPORT: Starting...
INFO	JsonCache: cache-file stored (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/save_callback_load_on_init.json)

## A.18 Test save callback for PICKLE-Cache (full init) (success)

This test was passed with the state: INFO

Description:	Test save callback for PICKLE-Cache (full init)
Caller:	my_unittest.py (71)
Start-Time:	2018-02-15 15:20:51,161

Finished-Time: 2018-02-15 15:20:51,162

Time-Consumption 0.000s

Testsummary:

INFO Save callback was executed as expected

DEBUG REPORT: Starting...

INFO PickCache: cache-file stored (/user\_data/data/dirk/prj/unittest\_pylibs/caching/tmp/save\_callback\_load\_on\_init.json)

## A.19 Test JSON-Cache internal keys (success)

This test was passed with the state: INFO

Description: Test JSON-Cache internal keys

Caller: my\_unittest.py (72)

Start-Time: 2018-02-15 15:20:51,162

Finished-Time: 2018-02-15 15:20:51,169

Time-Consumption 0.007s

Testsummary:

INFO JSON cache initialised

DEBUG REPORT: Starting...

INFO Deleting cache file from filesystem to ensure identical conditions for each test run

INFO Initialising cached class with /user\_data/data/dirk/prj/unittest\_pylibs/caching/tmp/internal\_keys\_test.json as cache file

DEBUG JsonCache: Cache file does not exists (yet).

DEBUG JsonCache: Loading all data from source - ['\_\_property\_cache\_data\_version\_', '\_property\_cache\_data\_version\_', '\_\_property\_cache\_uid\_', '\_property\_cache\_uid\_']

INFO JsonCache: cache-file stored (/user\_data/data/dirk/prj/unittest\_pylibs/caching/tmp/internal\_keys\_test.json)

INFO Storage object extracted from cache class for comparison

DEBUG REPORT: Starting...

INFO JsonCache: Loading properties from cache (/user\_data/data/dirk/prj/unittest\_pylibs/caching/tmp/internal\_keys\_test.json)

INFO Using storage object of cache class for comparison: u'\_\_property\_cache\_data\_version\_': u'no data version', u'\_\_property\_cache\_data\_version\_': u'no second data version', u'\_\_property\_cache\_uid\_': u'no uid', u'\_property\_cache\_uid\_': u'my-unique-id', u'\_property\_cache\_data\_version\_': 1, u'\_\_property\_cache\_uid\_': u'no second uid'

INFO Deleted overhead keys: \_property\_cache\_data\_version\_, \_property\_cache\_uid\_

INFO No missing items in cache

DEBUG REPORT: Starting...

INFO No odd items in cache

DEBUG REPORT: Starting...

INFO	Key '.__property_cache_data_version_' has the correct content (u'no data version')
DEBUG	REPORT: Starting...
INFO	Key '.__property_cache_data_version_' has the correct type (<type 'unicode'>)
DEBUG	REPORT: Starting...
INFO	Key '.__property_cache_data_version_' has the correct content (u'no second data version')
DEBUG	REPORT: Starting...
INFO	Key '.__property_cache_data_version_' has the correct type (<type 'unicode'>)
DEBUG	REPORT: Starting...
INFO	Key '.__property_cache_uid_' has the correct content (u'no uid')
DEBUG	REPORT: Starting...
INFO	Key '.__property_cache_uid_' has the correct type (<type 'unicode'>)
DEBUG	REPORT: Starting...
INFO	Key '.__property_cache_uid_' has the correct content (u'no second uid')
DEBUG	REPORT: Starting...
INFO	Key '.__property_cache_uid_' has the correct type (<type 'unicode'>)
DEBUG	REPORT: Starting...

## A.20 Test PICKLE-Cache internal keys (success)

This test was passed with the state: **INFO**

Description:	Test PICKLE-Cache internal keys
Caller:	my_unittest.py (73)
Start-Time:	2018-02-15 15:20:51,174
Finished-Time:	2018-02-15 15:20:51,177
Time-Consumption	0.003s
Testsummary:	
INFO	JSON cache initialised
DEBUG	REPORT: Starting...
INFO	Deleting cache file from filesystem to ensure identical conditions for each test run
INFO	Initialising cached class with /user.data/data/dirk/prj/unitest_pylibs/caching/tmp/internal_keys.test.pkl as cache file
DEBUG	PickCache: Cache file does not exists (yet).
DEBUG	PickCache: Loading all data from source - ['.__property_cache_data_version_', '_property_cache_data_version_', '.__property_cache_uid_', '_property_cache_uid_']
INFO	PickCache: cache-file stored (/user.data/data/dirk/prj/unitest_pylibs/caching/tmp/internal_keys.test.pkl)
INFO	Storage object extracted from cache class for comparison
DEBUG	REPORT: Starting...

INFO	PickCache: Loading properties from cache (/user_data/data/dirk/prj/unitest_pylibs/caching/tmp/internal_keys.test.pkl)
INFO	Using storage object of cache class for comparison: '__property_cache_data_version_': u'no data version', '___property_cache_data_version_': u'no second data version', '__property_cache_uid_': u'no uid', '_property_cache_uid_': 'my_unique_id', '_property_cache_data_version_': 1, '___property_cache_uid_': u'no second uid'
INFO	Deleted overhead keys: _property_cache_data_version_, _property_cache_uid_
INFO	No missing items in cache
DEBUG	REPORT: Starting...
INFO	No odd items in cache
DEBUG	REPORT: Starting...
INFO	Key '__property_cache_data_version_' has the correct content (u'no data version')
DEBUG	REPORT: Starting...
INFO	Key '___property_cache_data_version_' has the correct type (<type 'unicode'>)
DEBUG	REPORT: Starting...
INFO	Key '___property_cache_data_version_' has the correct content (u'no second data version')
DEBUG	REPORT: Starting...
INFO	Key '___property_cache_data_version_' has the correct type (<type 'unicode'>)
DEBUG	REPORT: Starting...
INFO	Key '__property_cache_uid_' has the correct content (u'no uid')
DEBUG	REPORT: Starting...
INFO	Key '__property_cache_uid_' has the correct type (<type 'unicode'>)
DEBUG	REPORT: Starting...
INFO	Key '___property_cache_uid_' has the correct content (u'no second uid')
DEBUG	REPORT: Starting...
INFO	Key '___property_cache_uid_' has the correct type (<type 'unicode'>)
DEBUG	REPORT: Starting...

## B Test-Coverage

### B.1 caching

The line coverage for caching was 100.0%

The branch coverage for caching was 96.9%

#### B.1.1 caching.\_\_init\_\_.py

The line coverage for caching.\_\_init\_\_.py was 100.0%

The branch coverage for caching.\_\_init\_\_.py was 96.9%

```

1 """
2 Caching Module
3 =====
4
5 **Author:** Dirk Alders <d.alders@arcor.de>
6 """
7
8
9 import hashlib
10 import hmac
11 import json
12 from pylibs import report
13 import os
14 import pickle
15
16 __VERSION__ = '1.1.0'
17
18 class property_cache_pickle(report.logit):
19     """
20     Class to cache properties, which take longer on initialising than reading a file in pickle
21     format.
22
23     :param source_instance: The source instance holding the data
24     :type source_instance: instance
25     :param cache_filename: File name, where the properties are stored as cache
26     :type cache_filename: str
27     :param load_all_on_init: Optionally init behaviour control parameter. True will load all
28     available properties from source on init, False not.
29     :raises: ?
30
31     .. note:: This module uses logging. So logging should be initialised at least by executing
32     logging.basicConfig(...)
33
34     .. note:: source_instance needs to have at least the following methods: uid(), keys(),
35     data_version(), get()
36
37         * uid(): returns the unique id of the source.
38         * keys(): returns a list of all available keys.
39         * data_version(): returns a version number of the current data (it should be
40         increased, if the get method of the source instance returns improved values or the data
41         structure had been changed).
42         * get(key, default): returns the property for a key. If key does not exists,
43         default will be returned.
44
45     Reasons for updating the complete data set:
46
47     * UID of source_instance has changed (in comparison to the cached value).
48     * data_version is increased
49
50     **Example:**
51
52     .. code-block:: python
53
54         logging.basicConfig(format='%(asctime)s::%(levelname)s::%(pathname)s::%(lineno)s::%(
55         message)s', level=logging.DEBUG)
56
57         class test_slow_data(object):
58             _ONE = '1'
59             _TWO = '2'
60             _THREE = '_property_cache_data_version_'
61             _FOUR = '_property_cache_uid_'

```

```

54     _FIVE = '__property_cache_uid_'
55     KEYS = [_ONE, _TWO, _THREE, _FOUR, _FIVE]
56     VERS = 0.1
57
58     def data_version(self):
59         return self.VERS
60
61     def one(self):
62         return self.get(self._ONE)
63
64     def two(self):
65         return self.get(self._TWO)
66
67     def three(self):
68         return self.get(self._THREE)
69
70     def four(self):
71         return self.get(self._FOUR)
72
73     def five(self):
74         return self.get(self._FIVE)
75
76     def get(self, key, default=None):
77         def print_n_sleep(k):
78             logging.info('slow get executed for %s', k)
79             time.sleep(3)
80         if key == self._ONE:
81             print_n_sleep(key)
82             return 'one'
83         if key == self._TWO:
84             print_n_sleep(key)
85             return 'two'
86         if key == self._THREE:
87             print_n_sleep(key)
88             return 'three'
89         if key == self._FOUR:
90             print_n_sleep(key)
91             return 'four'
92         if key == self._FIVE:
93             print_n_sleep(key)
94             return 'five'
95         return default
96
97     def keys(self):
98         return self.KEYS
99
100    def uid(self):
101        return None
102
103    class tsd_cache_pickle(test_slow_data):
104        def __init__(self, *args, **kwargs):
105            test_slow_data.__init__(self, *args, **kwargs)
106            self._cached_data = property_cache_pickle(test_slow_data(*args, **kwargs), 'cache
107                .pickle', load_all_on_init=False)
108
109        def two(self):
110            return test_slow_data.get(self, self._TWO)
111
112        def get(self, key, default=None):
113            return self._cached_data.get(key, default)

```

```

114
115     data = tsd_cache_pickle()
116     print 'Testing property_cache (pickle):\\n-----'
117     print data.one()
118     print data.two()
119     print data.three()
120     print data.four()
121     print data.five()
122

```

Will result on the first execution to the following output (with a long execution time):

```

123
124
125 .. code-block:: text
126

```

```

127     Testing property_cache (pickle):
128     -----
129     2015-01-11 17:40:42,172::DEBUG:: __init__.py::69:: Loading property for "1" from source
instance
130     2015-01-11 17:40:42,173::INFO:: __init__.py::343:: slow get executed for 1
131     2015-01-11 17:40:45,176::INFO:: __init__.py::129:: cache-file stored (cache.pickle)
132     one
133     2015-01-11 17:40:45,176::INFO:: __init__.py::343:: slow get executed for 2
134     two
135     2015-01-11 17:40:48,180::DEBUG:: __init__.py::69:: Loading property for "
--property_cache_data_version_" from source instance
136     2015-01-11 17:40:48,180::INFO:: __init__.py::343:: slow get executed for
--property_cache_data_version_
137     2015-01-11 17:40:51,183::INFO:: __init__.py::129:: cache-file stored (cache.pickle)
138     three
139     2015-01-11 17:40:51,184::DEBUG:: __init__.py::69:: Loading property for "
--property_cache_uid_" from source instance
140     2015-01-11 17:40:51,184::INFO:: __init__.py::343:: slow get executed for
--property_cache_uid_
141     2015-01-11 17:40:54,187::INFO:: __init__.py::129:: cache-file stored (cache.pickle)
142     four
143     2015-01-11 17:40:54,188::DEBUG:: __init__.py::69:: Loading property for "
--property_cache_uid_" from source instance
144     2015-01-11 17:40:54,188::INFO:: __init__.py::343:: slow get executed for
--property_cache_uid_
145     2015-01-11 17:40:57,192::INFO:: __init__.py::129:: cache-file stored (cache.pickle)
146     five
147

```

With every following execution (slow for getting "two" which is not cached – see implementation):

```

148
149
150 .. code-block:: text
151

```

```

152     Testing property_cache (pickle):
153     -----
154     2015-01-11 17:42:42,158::DEBUG:: __init__.py::75:: Providing property for "1" from cache
155     one
156     2015-01-11 17:42:42,158::INFO:: __init__.py::343:: slow get executed for 2
157     two
158     2015-01-11 17:42:45,161::DEBUG:: __init__.py::75:: Providing property for "
--property_cache_data_version_" from cache
159     three
160     2015-01-11 17:42:45,162::DEBUG:: __init__.py::75:: Providing property for "
--property_cache_uid_" from cache
161     four
162     2015-01-11 17:42:45,162::DEBUG:: __init__.py::75:: Providing property for "
--property_cache_uid_" from cache
163     five

```

```

164 """
165 LOG_PREFIX = 'PickCache:'
166 DATA.VERSION_TAG = '_property_cache_data_version_'
167 UID_TAG = '_property_cache_uid_'
168
169 def __init__(self, source_instance, cache_filename, load_all_on_init=False,
170             callback_on_data_storage=None):
171     self._source_instance = source_instance
172     self._cache_filename = cache_filename
173     self._load_all_on_init = load_all_on_init
174     self._callback_on_data_storage = callback_on_data_storage
175     self._cached_props = None
176
177 def get(self, key, default=None, logger=None):
178     """
179     Method to get the cached property. If key does not exists in cache, the property will be
180     loaded from source_instance and stored in cache (file).
181
182     :param key: key for value to get.
183     :param default: value to be returned, if key does not exists.
184     :returns: value for a given key or default value.
185     """
186     if key in self.keys():
187         if self._cached_props is None:
188             self._init_cache(logger=logger)
189         if self._key_filter(key) not in self._cached_props:
190             val = self._source_instance.get(key, None)
191             self.logit_debug(logger, "Loading property for '%s' from source instance (%s)",
192                             key, repr(val))
193             self._cached_props[self._key_filter(key)] = val
194             self._save_cache(logger)
195         else:
196             self.logit_debug(logger, "Providing property for '%s' from cache (%s)", key, repr
197                             (self._cached_props.get(self._key_filter(key), default)))
198             return self._cached_props.get(self._key_filter(key), default)
199         else:
200             self.logit_warning(logger, "Key '%s' is not in cached_keys. Uncached data will be
201                             returned.", key)
202             return self._source_instance.get(key, default)
203
204 def keys(self):
205     return self._source_instance.keys()
206
207 def _data_version(self):
208     if self._cached_props is None:
209         return None
210     else:
211         return self._cached_props.get(self.DATA.VERSION_TAG, None)
212
213 def _init_cache(self, logger):
214     if not self._load_cache(logger=logger) or self._source_instance.uid() != self._uid() or
215     self._source_instance.data_version() > self._data_version():
216         if self._uid() is not None and self._source_instance.uid() != self._uid():
217             self.logit_debug(logger, "Source uid changed, ignoring previous cache data")
218         if self._data_version() is not None and self._source_instance.data_version() > self.
219         _data_version():
220             self.logit_debug(logger, "Data version increased, ignoring previous cache data")
221         self._cached_props = dict()
222         if self._load_all_on_init:
223             self._load_source(logger)
224         self._cached_props[self.UID_TAG] = self._source_instance.uid()
225         self._cached_props[self.DATA.VERSION_TAG] = self._source_instance.data_version()
226         self._save_cache(logger)

```



```

220
221     def _load_cache(self, logger):
222         if os.path.exists(self._cache_filename):
223             with open(self._cache_filename, 'r') as fh:
224                 self._cached_props = pickle.loads(fh.read())
225                 self.logit_info(logger, 'Loading properties from cache (%s)', self._cache_filename)
226                 return True
227         else:
228             self.logit_debug(logger, 'Cache file does not exists (yet).')
229             return False
230
231     def _key_filter(self, key):
232         if type(key) is str or type(key) is unicode:
233             if key.endswith(self.DATA_VERSION_TAG) or key.endswith(self.UID_TAG):
234                 return '_' + key
235             return key
236
237     def _load_source(self, logger):
238         self.logit_debug(logger, 'Loading all data from source - %s', repr(self._source_instance.
239         keys()))
240         for key in self._source_instance.keys():
241             val = self._source_instance.get(key)
242             self._cached_props[self._key_filter(key)] = val
243
244     def _save_cache(self, logger):
245         with open(self._cache_filename, 'w') as fh:
246             fh.write(pickle.dumps(self._cached_props))
247             self.logit_info(logger, 'cache-file stored (%s)', self._cache_filename)
248         if self._callback_on_data_storage is not None:
249             self._callback_on_data_storage()
250
251     def _uid(self):
252         if self._cached_props is None:
253             return None
254         else:
255             return self._cached_props.get(self.UID_TAG, None)
256
257 class property_cache_json(property_cache_pickle):
258     """
259     Class to cache properties, which take longer on initialising than reading a file in json
260     format. See also parent :py:class:`property_cache_pickle`
261
262     :param source_instance: The source instance holding the data
263     :type source_instance: instance
264     :param cache_filename: File name, where the properties are stored as cache
265     :type cache_filename: str
266     :param load_all_on_init: Optionally init behaviour control parameter. True will load all
267     available properties from source on init, False not.
268     :raises: ?
269
270     .. warning:: This class uses json. You should only use keys of type string!
271
272     .. note:: This module uses logging. So logging should be initialised at least by executing
273     logging.basicConfig(...)
274
275     .. note:: source_instance needs to have at least the following methods: uid(), keys(),
276     data_version(), get()
277
278         * uid(): returns the unique id of the source.
279         * keys(): returns a list of all available keys.

```

```

276         * data_version(): returns a version number of the current data (it should be
increased, if the get method of the source instance returns improved values or the data
structure had been changed).

```

```

277         * get(key, default): returns the property for a key. If key does not exists,
default will be returned.

```

Reasons for updating the complete data set:

```

281 * UID of source_instance has changed (in comparison to the cached value).
282 * data_version is increased

```

**\*\*Example:\*\***

```

285 .. code-block:: python

```

```

287     logging.basicConfig(format='%(asctime)s::%(levelname)s::%(pathname)s::%(lineno)s::%(
288 message)s', level=logging.DEBUG)

```

```

289     class test_slow_data(object):
290         _ONE = '1'
291         _TWO = '2'
292         _THREE = '_property_cache_data_version_'
293         _FOUR = '_property_cache_uid_'
294         _FIVE = '_property_cache_uid_'
295         KEYS = [_ONE, _TWO, _THREE, _FOUR, _FIVE]
296         VERS = 0.1
297
298         def data_version(self):
299             return self.VERS
300
301         def one(self):
302             return self.get(self._ONE)
303
304         def two(self):
305             return self.get(self._TWO)
306
307         def three(self):
308             return self.get(self._THREE)
309
310         def four(self):
311             return self.get(self._FOUR)
312
313         def five(self):
314             return self.get(self._FIVE)
315
316         def get(self, key, default=None):
317             def print_n_sleep(k):
318                 logging.info('slow get executed for %s', k)
319                 time.sleep(3)
320             if key == self._ONE:
321                 print_n_sleep(key)
322                 return 'one'
323             if key == self._TWO:
324                 print_n_sleep(key)
325                 return 'two'
326             if key == self._THREE:
327                 print_n_sleep(key)
328                 return 'three'
329             if key == self._FOUR:
330                 print_n_sleep(key)
331                 return 'four'
332

```

```

333         if key == self._FIVE:
334             print_n_sleep(key)
335             return 'five'
336         return default
337
338     def keys(self):
339         return self.KEYS
340
341     def uid(self):
342         return None
343
344     class tsd_cache_json(test_slow_data):
345         def __init__(self, *args, **kwargs):
346             test_slow_data.__init__(self, *args, **kwargs)
347             self._cached_data = property_cache_json(test_slow_data(*args, **kwargs), 'cache.
348 json', load_all_on_init=False)
349
350         def one(self):
351             return test_slow_data.get(self, self._ONE)
352
353         def get(self, key, default=None):
354             return self._cached_data.get(key, default)
355
356     data = tsd_cache_json()
357     print 'Testing property_cache (json):\\n_____\\n'
358     print data.one()
359     print data.two()
360     print data.three()
361     print data.four()
362     print data.five()
363

```

Will result on the first execution to the following output (with a long execution time):

```
.. code-block:: text
```

```

367     Testing property_cache (json):
368     _____
369
370     2015-01-11 17:34:53,522::INFO:: __init__.py::342::slow get executed for 1
371     one
372     2015-01-11 17:34:56,526::DEBUG:: __init__.py::69::Loading property for "2" from source
373 instance
374     2015-01-11 17:34:56,526::INFO:: __init__.py::342::slow get executed for 2
375     2015-01-11 17:34:59,529::INFO:: __init__.py::305::cache-file stored (cache.json)
376     two
377     2015-01-11 17:34:59,530::DEBUG:: __init__.py::69::Loading property for "
378 _property_cache_data_version_" from source instance
379     2015-01-11 17:34:59,530::INFO:: __init__.py::342::slow get executed for
380 _property_cache_data_version_
381     2015-01-11 17:35:02,533::INFO:: __init__.py::305::cache-file stored (cache.json)
382     three
383     2015-01-11 17:35:02,533::DEBUG:: __init__.py::69::Loading property for "
384 _property_cache_uid_" from source instance
385     2015-01-11 17:35:02,533::INFO:: __init__.py::342::slow get executed for
386 _property_cache_uid_
387     2015-01-11 17:35:05,537::INFO:: __init__.py::305::cache-file stored (cache.json)
388     four
389     2015-01-11 17:35:05,537::DEBUG:: __init__.py::69::Loading property for "
390 _property_cache_uid_" from source instance
391     2015-01-11 17:35:05,538::INFO:: __init__.py::342::slow get executed for
392 _property_cache_uid_
393

```

```

386         2015-01-11 17:35:08,541::INFO:: __init__.py::305::cache-file stored (cache.json)
387         five
388
389     With every following execution (slow for getting "one" which is not cached – see
390     implementation):
391
392     .. code-block:: text
393
394         Testing property-cache (json):
395
396         2015-01-11 17:35:53,709::INFO:: __init__.py::342::slow get executed for 1
397         one
398         2015-01-11 17:35:56,713::DEBUG:: __init__.py::75:: Providing property for "2" from cache
399         two
400         2015-01-11 17:35:56,713::DEBUG:: __init__.py::75:: Providing property for "
401         _property_cache_data_version_" from cache
402         three
403         2015-01-11 17:35:56,713::DEBUG:: __init__.py::75:: Providing property for "
404         _property_cache_uid_" from cache
405         four
406         2015-01-11 17:35:56,713::DEBUG:: __init__.py::75:: Providing property for "
407         _property_cache_uid_" from cache
408         five
409         """
410
411     LOG_PREFIX = 'JsonCache: '
412
413     def _load_cache(self, logger):
414         if os.path.exists(self._cache_filename):
415             with open(self._cache_filename, 'r') as fh:
416                 self._cached_props = json.loads(fh.read())
417                 self.logit_info(logger, 'Loading properties from cache (%s)', self._cache_filename)
418             return True
419         else:
420             self.logit_debug(logger, 'Cache file does not exists (yet).')
421             return False
422
423     def _save_cache(self, logger):
424         with open(self._cache_filename, 'w') as fh:
425             fh.write(json.dumps(self._cached_props, sort_keys=True, indent=4))
426             self.logit_info(logger, 'cache-file stored (%s)', self._cache_filename)
427         if self._callback_on_data_storage is not None:
428             self._callback_on_data_storage()

```