
HPCTOOLS

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The generated documentation will look like figure *Fig.1*

The screenshot shows a web-based Sphinx documentation interface. At the top left is a blue header bar with the text 'SPH-EXA'. Below it is a search bar labeled 'Search docs'. To the right of the search bar is a breadcrumb navigation 'Docs » Introduction' and a link 'View page source'. The main content area has a dark grey header with the word 'CONTENTS:' in white. A sidebar on the left lists several sections: 'Introduction' (which is collapsed), 'Getting started with Sphinx' (which is expanded, showing 'Configuration file' and 'Benchmarking results'), and other collapsed sections like 'API Reference' and 'Module Index'. The main content area features a large heading 'Introduction' followed by a sub-section 'Getting started with Sphinx'. It contains instructions on how to build the documentation using the command 'sphinx-build -M html . _build' and how to open the resulting HTML file with 'firefox ./_build/html/index.html'. A note at the bottom states 'The generated documentation will look like figure Fig.1'.

Fig. 1: Title: typical sphinx html documentation

A typical example configuration file is `conf.py`:

```
1 import re
2 import sys
3 import sphinx_rtd_theme
```


CHAPTER 1

Link to Reference Guide

This page tests links to *foo.py* (reference2.rst), see [documentation](#).

1.1 link to module

- ... automodule:: reframechecks.common.sphexa.foo
- Link to *foo.py* module
- Link to *foo.py/square* module
- :mod:`Foo <reframechecks.common.sphexa.foo>`

1.2 link to class

- ... autoclass:: reframechecks.common.sphexa.foo.Foo
- Link to *Foo* class
- :class:`Foo <reframechecks.common.sphexa.foo.Foo>`

1.3 link to method

- ... automethod:: reframechecks.common.sphexa.foo.hello
- Inside Class works:
 - Link to *reframechecks.common.sphexa.foo.Foo.bye()* method.
 - Link to *bye* method.
 - :meth:`bye <reframechecks.common.sphexa.foo.Foo.bye>`

- Not inside Class works:
 - Link to `reframechecks.common.sphexa.foo.hello()` method.
 - Link to `hello` method.
 - Link to `square` method.
 - :meth:`hello <reframechecks.common.sphexa.foo.hello>`

1.4 link to function

- .. autofunction:: square
- Link to `reframechecks.common.sphexa.foo.square()` function.
- Link to `square` function.
- Link to `square (ko)` function.

CHAPTER 2

Reference Guide

This page tests links, see `started.rst`.

2.1 Foo Documentation

2.2 automodule

- `reframechecks.common.sphexa/foo.py`
foo module.

2.3 autoclass

- `reframechecks.common.sphexa/foo.py` -> class Foo:
class `reframechecks.common.sphexa.foo.Foo`
Bases: `object`
Foo class.
bye (*name*)
Print bye addressed to *name*.
Args: name (str): Name to address.

2.4 automethod

- `reframechecks.common.sphexa/foo.py` ->

```
foo.hello()  
Print hello addressed to name.  
Args: name (str): Name to address.
```

2.5 autofunction

```
reframechecks.common.sphexa.foo.seconds_neigh(self)  
Reports FindNeighbors time in seconds using the internal timer from the code  
reframechecks.common.sphexa.foo.square(a)  
short description of the function square  
longish explanation: returns the square of a:  $a^2$   
Parameters a – an input argument  
Returns a*a  
reframechecks.common.sphexa.foo.hello(name)  
Print hello addressed to name.  
Args: name (str): Name to address.
```

CHAPTER 3

TODO

3.1 link to parameter::

- Link to prefix parameter

3.2 Howto

```
class RegressionTest(metaclass=RegressionTestMeta):  
    '''Base class for regression tests.'''  
    #: The set of reference values for this test.  
    #:  
    #: The reference values are specified as a scoped dictionary keyed on the  
    #: performance variables defined in :attr:`perf_patterns` and scoped under  
    #: the system/partition combinations.  
    #: The reference itself is a three- or four-tuple that contains the  
    #: reference value, the lower and upper thresholds and, optionally, the  
    #: measurement unit.  
    #: An example follows:  
    #:  
    #: .. code:: python  
    #:  
    #:     self.reference = {  
    #:         'sys0:part0': {  
    #:             'perfvar0': (50, -0.1, 0.1, 'Gflop/s'),  
    #:             'perfvar1': (20, -0.1, 0.1, 'GB/s')  
    #:         },  
    #:         'sys0:part1': {  
    #:             'perfvar0': (100, -0.1, 0.1, 'Gflop/s'),  
    #:             'perfvar1': (40, -0.1, 0.1, 'GB/s')  
    #:         }  
    #:     }
```

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```
#:     }
#:
#: :type: A scoped dictionary with system names as scopes or :class:`None`
#: :default: ``{}``
reference = fields.ScopedDictField('reference', typ.Tuple[object])

@property
def current_environ(self):
    '''The programming environment that the regression test is currently
executing with.

    This is set by the framework during the :func:`setup` phase.

    :type: :class:`reframechecks.common.sphexa.environments.Environment`.
    '''
    return self._current_environ
```

CHAPTER 4

JG Cheatsheet

```
# with overline, for parts  
* with overline, for chapters  
=, for sections  
-, for subsections  
^, for subsubsections  
", for paragraphs
```


CHAPTER 5

Part title..

5.1 Chapter title..

5.1.1 Section title..

Subsection title..

Subsubsection title..

Paragraph title..

Paragraph title..

Subtitle: Titles

- All sections marked with the same adornment style are deemed to be at the same level:

5.1.2 Chapter 1 Title

Section 1.1

Section 1.2

5.1.3 Chapter 2 Title

etc...

italic / **bold** / *interpreted* / *inline* / *None*

A	B
a	b
aa	bb

- SPH-EXA website ...
- download conf.py
- pdf
- open a local file ?.
- how to go to the Images section ?.
- This works in reframe doc: [here](#).

New in version 0.1.

Changed in version 0.1.

Caution: this is a caution

Warning: this is a warning

Tip: this is a tip

Note: this is a note

Notice space after ::

```
Command line: ./bin/reframe -C tutorial/config/settings.py \
-c tutorial/example1.py -r
Reframe version: 2.x
```

```
> $EBROOTREFRAME/bin/reframe -r $SCRATCH/example1.py
```

```
import os
```

```
#!/bin/bash -l
#SBATCH --job-name="rfm_Example1Test_job"
export X=`date`
```

see 1

5.1.4 Indices and tables

- genindex
- modindex
- search

Python Module Index

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 5

F

Foo (*class in reframechecks.common.sphex.foo*), 5

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hello() (*in module reframechecks.common.sphex.foo*), 6
hello () (*reframechecks.common.sphex.foo method*),
 5

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reframechecks.common.sphex.foo (*module*),
 5

S

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square() (*in module reframechecks.common.sphex.foo*), 6