

NamedItemRoutines

5.1

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Chapter 1

Module Index

1.1 Modules

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Chapter 2

Namespace Index

2.1 Namespace List

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Chapter 3

Data Structure Index

3.1 Data Structures

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File Index

4.1 File List

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Chapter 5

Module Documentation

5.1 Models

Modules

- [Utils](#)

5.1.1 Detailed Description

5.2 Utils

Modules

- [NamedItem](#)

5.2.1 Detailed Description

5.3 NamedItem

Files

- file [named_item.hh](#)
Define the NamedItem utility class.
- file [named_item_messages.hh](#)
Define the class NamedItemMessages, the class that specifies the message IDs used in the named item model.
- file [named_item.cc](#)
Construct the name of a NamedItem object by conjoining the passed parameters with a dot.
- file [named_item_demangle.cc](#)
Demangle a C++ name, isolated from other NamedItem methods because this has the potential to get big and ugly if JEOD is ported to a number of different systems.
- file [named_item_messages.cc](#)
Implement the class NamedItemMessages.

Namespaces

- [jeod](#)
Namespace jeod.

Macros

- `#define MAX_NAME_ITEMS 8`
- `#define __has_include(x) 0`
- `#define PATH "utils/named_item/"`

Functions

- `bool operator== (const jeod::NamedItem &lhs, const std::string &rhs)`
Comparison to string.
- `bool operator== (const std::string &lhs, const jeod::NamedItem &rhs)`

5.3.1 Detailed Description

5.3.2 Macro Definition Documentation

5.3.2.1 __has_include

```
#define __has_include(  
    x ) 0
```

Definition at line 32 of file `named_item_demangle.cc`.

5.3.2.2 MAX_NAME_ITEMS

```
#define MAX_NAME_ITEMS 8
```

Definition at line 46 of file `named_item.cc`.

5.3.2.3 PATH

```
#define PATH "utils/named_item/"
```

Definition at line 36 of file `named_item_messages.cc`.

5.3.3 Function Documentation

5.3.3.1 operator==() [1/2]

```
bool operator== (
    const jeod::NamedItem & lhs,
    const std::string & rhs )
```

Comparison to string.

Definition at line 105 of file `named_item.cc`.

References `jeod::NamedItem::get_name()`.

5.3.3.2 operator==() [2/2]

```
bool operator== (
    const std::string & lhs,
    const jeod::NamedItem & rhs )
```

Definition at line 110 of file `named_item.cc`.

References `jeod::NamedItem::get_name()`.

Chapter 6

Namespace Documentation

6.1 jeod Namespace Reference

Namespace jeod.

Data Structures

- class [NamedItem](#)

Provides a set of static methods for constructing dot-conjoined names.

- class [NamedItemMessages](#)

Specifies the message IDs used in the `named_item` model.

6.1.1 Detailed Description

Namespace jeod.

Chapter 7

Data Structure Documentation

7.1 jeod::NamedItem Class Reference

Provides a set of static methods for constructing dot-conjoined names.

```
#include <named_item.hh>
```

Public Types

- using `size_type` = `std::string::size_type`
The size type used in `std::string`.

Public Member Functions

- `NamedItem` (`std::string` name_in=`std::string()`, `bool` frozen_in=`false`)
Default constructor.
- `NamedItem` (`const NamedItem &`)=`default`
Copy constructor.
- `NamedItem` (`NamedItem &&`)=`default`
Move constructor.
- `virtual ~NamedItem` ()=`default`
Destructor.
- `NamedItem & operator=` (`const NamedItem &src`)
Copy assignment.
- `NamedItem & operator=` (`NamedItem &&src`)
Move assignment.
- `NamedItem & operator=` (`const std::string &name_in`)
Assignment from a string.
- `bool operator==` (`const NamedItem &rhs`)
Comparison of names.
- `std::string get_name` () `const`
Getter for name.
- `const char * c_str` () `const`

- Getter for name, as a C-style string.

 - `size_type size () const`

Getter for the length of the name.
- `bool get_is_frozen () const`

Getter for `is_frozen`.
- `bool ends_with (size_type pos1, const std::string &other) const`

Compare the end of this string to a C-style string.
- `std::string suffix (const std::string &test_name) const`

Given a dot-conjoined test name, find the part of the test name that follows this name, as a prefix.
- `void set_name (const std::string &nameIn)`
- `template<typename... Type>`
`void set_name (const std::string &nameIn, Type... namesIn)`

Set the name as a dot-conjoined string of the given inputs.
- `void verify_unfrozen_name () const`

Verify that the name is not frozen.
- `void validate_name (const char *file, unsigned int line, const std::string &variable_type, const std::string &variable_name)`

Checks whether a name is trivially invalid, failing if it is.
- `void freeze_name ()`

Freeze the name – i.e., denote that the name as no longer settable.

Static Public Member Functions

- `static std::string construct_name (const std::string &nameIn)`

Construct a name from the given input, as a string.
- `template<typename... Type>`
`static std::string construct_name (const std::string &nameIn, Type... namesIn)`

Construct a name as a dot-conjoined string of the given inputs.
- `static std::string suffix (const std::string &prefix, const std::string &name)`

Given a prefix and a dot-conjoined name, find the part of the name that follows the prefix.
- `static const std::string demangle (const std::type_info &info)`

Demangle a C++ name.
- `static void validate_name (const char *file, unsigned int line, const std::string &variable_value, const std::string &variable_type, const std::string &variable_name)`

Checks whether a name is trivially invalid, failing if it is.

Protected Member Functions

- `void unfreeze_name ()`

Unfreeze the name – i.e., denote that the name is now settable.

Private Attributes

- `std::string name`

The item's name.
- `bool is_frozen`

Indicates whether the name is frozen.

Friends

- class [InputProcessor](#)
- void [init_attrjeod__NamedItem](#) ()

7.1.1 Detailed Description

Provides a set of static methods for constructing dot-conjoined names.

The methods defined in this class allocate memory and do not release it. Releasing that memory is the responsibility of the calling function. Use the macro `JEOD_DELETE_ARRAY` to release this memory.

Prior to JEOD 4.0, the [NamedItem](#) class was not instantiable. It is in JEOD 4.0. The [NamedItem](#) class forms the basis of a thing with a name, with the name being a `std::string`. The `construct_name` functions and & related functions that allocate a C-style string are deprecated.

Definition at line 90 of file `named_item.hh`.

7.1.2 Member Typedef Documentation

7.1.2.1 size_type

```
using jeod::NamedItem::size_type = std::string::size_type
```

The size type used in `std::string`.

Definition at line 96 of file `named_item.hh`.

7.1.3 Constructor & Destructor Documentation

7.1.3.1 NamedItem() [1/3]

```
jeod::NamedItem::NamedItem (
    std::string name_in = std::string(),
    bool frozen_in = false ) [inline]
```

Default constructor.

This is the default constructor by virtue of the defaults.

Parameters

<i>name_in</i>	Initial value of the name, defaults to the empty string.
<i>frozen_in</i>	Initial value of <code>is_frozen</code> , defaults to false.
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Definition at line 160 of file named_item.hh.

7.1.3.2 NamedItem() [2/3]

```
jeod::NamedItem::NamedItem (
    const NamedItem & ) [default]
```

Copy constructor.

The default implementation works fine.

7.1.3.3 NamedItem() [3/3]

```
jeod::NamedItem::NamedItem (
    NamedItem && ) [default]
```

Move constructor.

The default implementation works fine.

7.1.3.4 ~NamedItem()

```
virtual jeod::NamedItem::~~NamedItem ( ) [virtual], [default]
```

Destructor.

The default implementation virtually works fine.

7.1.4 Member Function Documentation

7.1.4.1 c_str()

```
const char* jeod::NamedItem::c_str ( ) const [inline]
```

Getter for name, as a C-style string.

Definition at line 238 of file named_item.hh.

7.1.4.2 `construct_name()` [1/2]

```
static std::string jeod::NamedItem::construct_name (
    const std::string & nameIn ) [inline], [static]
```

Construct a name from the given input, as a string.

The input must not be the empty string or the null pointer.

Definition at line 102 of file `named_item.hh`.

7.1.4.3 `construct_name()` [2/2]

```
template<typename... Type>
static std::string jeod::NamedItem::construct_name (
    const std::string & nameIn,
    Type... namesIn ) [inline], [static]
```

Construct a name as a dot-conjoined string of the given inputs.

Each input must not be the empty string or the null pointer.

Template Parameters

<i>Type</i>	Types of the remaining arguments to <code>construct_name</code> .
-------------	---

Parameters

<i>nameIn</i>	First argument to <code>construct_name</code> .
<i>namesIn</i>	Remaining arguments to <code>construct_name</code> .

Returns

The given inputs as a dot-conjoined string.

Definition at line 116 of file `named_item.hh`.

7.1.4.4 `demangle()`

```
const std::string jeod::NamedItem::demangle (
    const std::type_info & info ) [static]
```

Demangle a C++ name.

Returns

Demangled name

Parameters

<i>in</i>	<i>info</i>	Typeinfo to be demangled
-----------	-------------	--------------------------

Definition at line 58 of file named_item_demangle.cc.

7.1.4.5 ends_with()

```
bool jeod::NamedItem::ends_with (
    size_type pos1,
    const std::string & other ) const [inline]
```

Compare the end of this string to a C-style string.

See `std::string::compare`.

Parameters

<i>pos1</i>	The start index in the name.
<i>other</i>	The C-style null-terminated string.

Returns

True if the end part of the name equals the given C-style string.

Definition at line 266 of file named_item.hh.

7.1.4.6 freeze_name()

```
void jeod::NamedItem::freeze_name ( ) [inline]
```

Freeze the name – i.e., denote that the name as no longer settable.

Definition at line 325 of file named_item.hh.

7.1.4.7 get_is_frozen()

```
bool jeod::NamedItem::get_is_frozen ( ) const [inline]
```

Getter for `is_frozen`.

Definition at line 254 of file named_item.hh.

7.1.4.8 get_name()

```
std::string jeod::NamedItem::get_name ( ) const [inline]
```

Getter for name.

Definition at line 230 of file named_item.hh.

Referenced by operator==().

7.1.4.9 operator=() [1/3]

```
NamedItem& jeod::NamedItem::operator= (
    const NamedItem & src ) [inline]
```

Copy assignment.

Only the name is copied, and only if the name isn't frozen.

Definition at line 191 of file named_item.hh.

7.1.4.10 operator=() [2/3]

```
NamedItem& jeod::NamedItem::operator= (
    NamedItem && src ) [inline]
```

Move assignment.

The default implementation works fine.

Definition at line 201 of file named_item.hh.

7.1.4.11 operator=() [3/3]

```
NamedItem& jeod::NamedItem::operator= (
    const std::string & name_in ) [inline]
```

Assignment from a string.

Definition at line 212 of file named_item.hh.

7.1.4.12 operator==()

```
bool jeod::NamedItem::operator== (
    const NamedItem & rhs ) [inline]
```

Comparison of names.

Definition at line 222 of file named_item.hh.

7.1.4.13 set_name() [1/2]

```
void jeod::NamedItem::set_name (
    const std::string & nameIn ) [inline]
```

Definition at line 284 of file named_item.hh.

7.1.4.14 set_name() [2/2]

```
template<typename... Type>
void jeod::NamedItem::set_name (
    const std::string & nameIn,
    Type... namesIn ) [inline]
```

Set the name as a dot-conjoined string of the given inputs.

Each input must not be the empty string or the null pointer.

Template Parameters

<i>Type</i>	Types of the remaining arguments to construct_name.
-------------	---

Parameters

<i>nameIn</i>	First argument to construct_name.
<i>namesIn</i>	Remaining arguments to construct_name.

Definition at line 296 of file named_item.hh.

7.1.4.15 size()

```
size_type jeod::NamedItem::size ( ) const [inline]
```

Getter for the length of the name.

Definition at line 246 of file named_item.hh.

7.1.4.16 suffix() [1/2]

```
std::string jeod::NamedItem::suffix (
    const std::string & prefix,
    const std::string & name ) [static]
```

Given a prefix and a dot-conjoined name, find the part of the name that follows the prefix.

For names of the form "prefix.suffix", this function returns a pointer to "suffix". The function returns the input name if the name does not start with "prefix".

Returns

Suffix

Parameters

in	<i>prefix</i>	Prefix
in	<i>name</i>	Name, possibly prefixed

Definition at line 53 of file named_item.cc.

References name.

7.1.4.17 suffix() [2/2]

```
std::string jeod::NamedItem::suffix (
    const std::string & test_name ) const [inline]
```

Given a dot-conjoined test name, find the part of the test name that follows this name, as a prefix.

For names of the form "prefix.suffix", this function returns a pointer to "suffix". The function returns the input name if the name does not start with "prefix".

Returns

Suffix

Parameters

in	<i>test_name</i>	Test name, possibly prefixed
----	------------------	------------------------------

Definition at line 279 of file `named_item.hh`.

7.1.4.18 `unfreeze_name()`

```
void jeod::NamedItem::unfreeze_name ( ) [inline], [protected]
```

Unfreeze the name – i.e., denote that the name is now settable.

This exists solely to parallel `freeze_name()`.

Definition at line 335 of file `named_item.hh`.

7.1.4.19 `validate_name()` [1/2]

```
void jeod::NamedItem::validate_name (
    const char * file,
    unsigned int line,
    const std::string & variable_value,
    const std::string & variable_type,
    const std::string & variable_name ) [static]
```

Checks whether a name is trivially invalid, failing if it is.

Parameters

in	<i>file</i>	Usually FILE
in	<i>line</i>	Usually LINE
in	<i>variable_value</i>	Value to check
in	<i>variable_type</i>	Variable description
in	<i>variable_name</i>	Variable name

Definition at line 73 of file `named_item.cc`.

References `jeod::NamedItemMessages::invalid_name`.

7.1.4.20 `validate_name()` [2/2]

```
void jeod::NamedItem::validate_name (
    const char * file,
    unsigned int line,
    const std::string & variable_type,
    const std::string & variable_name ) [inline]
```

Checks whether a name is trivially invalid, failing if it is.

Parameters

in	<i>file</i>	Usually FILE
in	<i>line</i>	Usually LINE
in	<i>variable_type</i>	Variable description
in	<i>variable_name</i>	Variable name

Definition at line 314 of file named_item.hh.

7.1.4.21 verify_unfrozen_name()

```
void jeod::NamedItem::verify_unfrozen_name ( ) const
```

Verify that the name is not frozen.

Definition at line 91 of file named_item.cc.

References jeod::NamedItemMessages::frozen_name, is_frozen, and name.

7.1.5 Friends And Related Function Documentation

7.1.5.1 init_attrjeod__NamedItem

```
void init_attrjeod__NamedItem ( ) [friend]
```

7.1.5.2 InputProcessor

```
friend class InputProcessor [friend]
```

Definition at line 92 of file named_item.hh.

7.1.6 Field Documentation

7.1.6.1 is_frozen

```
bool jeod::NamedItem::is_frozen [private]
```

Indicates whether the name is frozen.

trick_units(-)

Definition at line 349 of file named_item.hh.

Referenced by verify_unfrozen_name().

7.1.6.2 name

```
std::string jeod::NamedItem::name [private]
```

The item's name.

trick_units(-)

Definition at line 344 of file named_item.hh.

Referenced by suffix(), and verify_unfrozen_name().

The documentation for this class was generated from the following files:

- [named_item.hh](#)
- [named_item.cc](#)
- [named_item_demangle.cc](#)

7.2 jeod::NamedItemMessages Class Reference

Specifies the message IDs used in the named_item model.

```
#include <named_item_messages.hh>
```

Public Member Functions

- [NamedItemMessages](#) ()=delete
- [NamedItemMessages](#) (const [NamedItemMessages](#) &)=delete
- [NamedItemMessages](#) & operator= (const [NamedItemMessages](#) &)=delete

Static Public Attributes

- static const char * [bad_args](#) = "utils/named_item/" "bad_args"
Error issued when the arguments to named item are invalid.
- static const char * [invalid_name](#) = "utils/named_item/" "invalid_name"
Error issued when a name is the null pointer or an empty string.
- static const char * [frozen_name](#) = "utils/named_item/" "frozen_name"
Error issued when set_name is called with the name marked as frozen.

Friends

- class [InputProcessor](#)
- void [init_attrjeod__NamedItemMessages](#) ()

7.2.1 Detailed Description

Specifies the message IDs used in the named_item model.

Definition at line 77 of file named_item_messages.hh.

7.2.2 Constructor & Destructor Documentation

7.2.2.1 NamedItemMessages() [1/2]

```
jeod::NamedItemMessages::NamedItemMessages ( ) [delete]
```

7.2.2.2 NamedItemMessages() [2/2]

```
jeod::NamedItemMessages::NamedItemMessages (
    const NamedItemMessages & ) [delete]
```

7.2.3 Member Function Documentation

7.2.3.1 operator=()

```
NamedItemMessages& jeod::NamedItemMessages::operator= (
    const NamedItemMessages & ) [delete]
```

7.2.4 Friends And Related Function Documentation

7.2.4.1 init_attrjeod__NamedItemMessages

```
void init_attrjeod__NamedItemMessages ( ) [friend]
```

7.2.4.2 InputProcessor

```
friend class InputProcessor [friend]
```

Definition at line 79 of file named_item_messages.hh.

7.2.5 Field Documentation

7.2.5.1 bad_args

```
const char * jeod::NamedItemMessages::bad_args = "utils/named_item/" "bad_args" [static]
```

Error issued when the arguments to named item are invalid.

trick_units(-)

Definition at line 86 of file named_item_messages.hh.

7.2.5.2 frozen_name

```
const char * jeod::NamedItemMessages::frozen_name = "utils/named_item/" "frozen_name" [static]
```

Error issued when set_name is called with the name marked as frozen.

trick_units(-)

Definition at line 96 of file named_item_messages.hh.

Referenced by jeod::NamedItem::verify_unfrozen_name().

7.2.5.3 invalid_name

```
const char * jeod::NamedItemMessages::invalid_name = "utils/named_item/" "invalid_name" [static]
```

Error issued when a name is the null pointer or an empty string.

trick_units(-)

Definition at line 91 of file named_item_messages.hh.

Referenced by jeod::NamedItem::validate_name().

The documentation for this class was generated from the following files:

- [named_item_messages.hh](#)
- [named_item_messages.cc](#)

Chapter 8

File Documentation

8.1 `named_item.cc` File Reference

Construct the name of a `NamedItem` object by conjoining the passed parameters with a dot.

```
#include <cstdlib>
#include <cstdio>
#include <cstring>
#include "utils/memory/include/jeod_alloc.hh"
#include "utils/message/include/message_handler.hh"
#include "../include/named_item.hh"
#include "../include/named_item_messages.hh"
```

Namespaces

- `jeod`
Namespace `jeod`.

Macros

- `#define MAX_NAME_ITEMS 8`

Functions

- `bool operator== (const jeod::NamedItem &lhs, const std::string &rhs)`
Comparison to string.
- `bool operator== (const std::string &lhs, const jeod::NamedItem &rhs)`

8.1.1 Detailed Description

Construct the name of a `NamedItem` object by conjoining the passed parameters with a dot.

8.2 named_item.hh File Reference

Define the NamedItem utility class.

```
#include "utils/sim_interface/include/jeod_class.hh"
#include <array>
#include <cstdint>
#include <string>
#include <typeinfo>
#include <utility>
#include <vector>
```

Data Structures

- class [jeod::NamedItem](#)

Provides a set of static methods for constructing dot-conjoined names.

Namespaces

- [jeod](#)

Namespace jeod.

Functions

- bool [operator==](#) (const [jeod::NamedItem](#) &lhs, const std::string &rhs)
Comparison to string.
- bool [operator==](#) (const std::string &lhs, const [jeod::NamedItem](#) &rhs)

8.2.1 Detailed Description

Define the NamedItem utility class.

8.3 named_item_demangle.cc File Reference

Demangle a C++ name, isolated from other NamedItem methods because this has the potential to get big and ugly if JEOD is ported to a number of different systems.

```
#include <cstdlib>
#include <string>
#include <typeinfo>
#include "../include/named_item.hh"
#include "../include/named_item_messages.hh"
```

Namespaces

- [jeod](#)
Namespace jeod.

Macros

- `#define __has_include(x) 0`

8.3.1 Detailed Description

Demangle a C++ name, isolated from other NamedItem methods because this has the potential to get big and ugly if JEOD is ported to a number of different systems.

8.4 named_item_messages.cc File Reference

Implement the class NamedItemMessages.

```
#include "../include/named_item_messages.hh"
```

Namespaces

- [jeod](#)
Namespace jeod.

Macros

- `#define PATH "utils/named_item/"`

8.4.1 Detailed Description

Implement the class NamedItemMessages.

8.5 named_item_messages.hh File Reference

Define the class NamedItemMessages, the class that specifies the message IDs used in the named item model.

```
#include "utils/sim_interface/include/jeod_class.hh"
```

Data Structures

- class [jeod::NamedItemMessages](#)
Specifies the message IDs used in the named_item model.

Namespaces

- [jeod](#)
Namespace jeod.

8.5.1 Detailed Description

Define the class NamedItemMessages, the class that specifies the message IDs used in the named item model.

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