MessageHandlingClass 5.0

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jeod		

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3.1 Class Hierarchy

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Modules

Message

6.2.1 Detailed Description

6.3 Message

6.3 Message

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· file class declarations.hh

Forward declarations of classes defined in this module.

· file make message code.hh

Define JEOD_MAKE_MESSAGE_CODE.

• file message_handler.hh

Define the class MessageHandler, the base class for generating messages.

• file message_messages.hh

Define the class MessageMessages.

• file suppressed_code_message_handler.hh

Define the class SuppressedCodeMessageHandler, which adds the capability to suppress messages by their message code.

• file message_handler.cc

Define member functions for the class MessageHandler.

• file message_messages.cc

Implement the class MessageMessages.

• file suppressed_code_message_handler.cc

Define member functions for the class SuppressedCodeMessageHandler.

Namespaces

• jeod

Namespace jeod.

6.3.1 Detailed Description

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Namespace Documentation

7.1 jeod Namespace Reference

Namespace jeod.

Data Structures

• class MessageHandler

The base class for generating JEOD messages.

class MessageMessages

Specifies the message IDs used in the message handler model.

• class SuppressedCodeMessageHandler

 $\textit{Adds the capability to suppress messages by their message code to the base \textit{MessageHandler class}.$

7.1.1 Detailed Description

Namespace jeod.

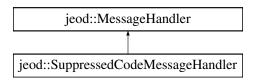
Data Structure Documentation

8.1 jeod::MessageHandler Class Reference

The base class for generating JEOD messages.

```
#include <message_handler.hh>
```

Inheritance diagram for jeod::MessageHandler:



Public Member Functions

• MessageHandler ()

Construct a MessageHandler.

virtual ∼MessageHandler ()

Destruct a MessageHandler.

virtual void register_contents ()

Register the checkpointable contents of the handler with the simulation interface.

· virtual void deregister_contents ()

Deregister the checkpointable contents of the handler with the simulation interface.

Static Public Member Functions

- static void fail (const char *file, unsigned int line, const char *msg_code, const char *format,...)

 Generate a message with negative severity, MessageHandler::Failure, and terminate the simulation.
- static void error (const char *file, unsigned int line, const char *msg_code, const char *format,...)

 Generate a message with severity MessageHandler::Error.
- static void warn (const char *file, unsigned int line, const char *msg_code, const char *format,...)

 Generate a message with severity MessageHandler::Warning.
- static void inform (const char *file, unsigned int line, const char *msg_code, const char *format,...)

Generates a message with severity MessageHandler::Notice.

• static void debug (const char *file, unsigned int line, const char *msg_code, const char *format,...)

Generate a message with severity MessageHandler::Debug.

 static void send_message (int severity, const char *prefix, const char *file, unsigned int line, const char *msg_code, const char *format,...)

Generic variable arguments message interface.

 static void va_send_message (int severity, const char *prefix, const char *file, unsigned int line, const char *msg_code, const char *format, va_list args)

Generic variable arguments message interface.

static void set_suppression_level (unsigned int suppression_level)

Set the suppression level in the global message handler.

static unsigned int get_suppression_level ()

Get the suppress_id of the global massage handler.

static void add_suppressed_code (const char *msg_code)

Add a message code to the set of messages that are to be suppressed for messages with positive severity level.

static void delete_suppressed_code (const char *msg_code)

Delete a message code from the set of suppressed message codes.

static void clear suppressed codes ()

Clear the set of suppressed message codes.

· static void set suppress id (bool suppress id)

Set the suppress_id flag in the global message handler.

static bool get_suppress_id ()

Get the suppress_id of the global massage handler.

static void set_suppress_location (bool suppress_location)

Set the suppress_location in the global message handler.

static bool get_suppress_location ()

Get the suppress_location of the global massage handler.

Static Public Attributes

• static const int Failure = -1

The severity value passed by the static public MessageHandler::fail method to the derived class process_message method.

• static const int Error = 0

The severity value passed by the static public MessageHandler::error method to the derived class process_message method.

• static const int Warning = 9

The severity value passed by the static public MessageHandler::warn method to the derived class process_message method.

• static const int Notice = 99

The severity value passed by the static public MessageHandler::inform method to the derived class process_message method.

• static const int Debug = 999

The severity value passed by the static public MessageHandler::debug method to the derived class process_message method.

Protected Member Functions

 virtual void process_message (int severity, const char *prefix, const char *file, unsigned int line, const char *msg_code, const char *format, va_list args) const =0

Generate the message.

• virtual void process_add_suppressed_code (const char *msg_code)

Add a message code to the set of messages that are to be suppressed.

virtual void process_delete_suppressed_code (const char *msg_code)

Delete a message code from the set of suppressed message codes.

virtual void process_clear_suppressed_codes ()

Clear the set of suppressed message codes.

Static Protected Member Functions

• static void no_handler_error (void)

Handle the error condition where there is no global handler.

Protected Attributes

· unsigned int suppression_level

All messages have an associated severity level, with increasingly positive values indicating warnings of decreasing severity.

· bool suppress_id

This flag indicates whether the message ID is printed for unsuppressed messages.

bool suppress_location

This flag indicates whether the message source file and line number printed for unsuppressed messages.

Static Protected Attributes

• static MessageHandler * handler = NULL

The MessageHandler instance that generates messages.

Private Member Functions

MessageHandler (const MessageHandler &)

Not implemented.

MessageHandler & operator= (const MessageHandler &)

Not implemented.

Friends

- · class InputProcessor
- void init_attrjeod__MessageHandler ()

8.1.1 Detailed Description

The base class for generating JEOD messages.

This class provides:

- A suite of public static message generation and message control functions. The message generation functions provide the mechanism to generate and present messages of various levels of severity to the simulation user. The message control functions provide the user the ability to control which messages will be presented and to control their presentation.
- · A set of defined constants that denote the severity levels used by JEOD.
 - Failure (-1): Any negative severity level value indicates an irrecoverable error. The simulation will terminate immediately.
 - Error (0): Errors almost certainly invalidate the simulation output. All severity zero messages are printed;
 they cannot be disabled. The difference between failures and errors is that there is some recovery from an error that lets the simulation limp on and find the next error.
 - Warning (9): Warnings represent conditions that a model deems to be suspect but not necessarily dangerous. Warning messages are printed by default, but they can be disabled.
 - Notice (99): Notices represent condiitions that a model deems to be suspicious, but not necessarily in error. Notifications are not printed by default, but they can be enabled.
 - Debug (999): Debug messages typically demonstrate progress of some sort. Enabling them may well result in spew.
- A public default constructor and destructor. The constructor ensures that the created object is indeed a singleton.

.

Definition at line 108 of file message_handler.hh.

8.1.2 Constructor & Destructor Documentation

```
8.1.2.1 MessageHandler() [1/2]
```

Construct a MessageHandler.

This default constructor sets the suppression level to MessageHandler::Warning, which means that messages of that severity and lower will be printed. The suppress_id and suppress_location flags are set to false; auxiliary information is not suppressed.

Definition at line 575 of file message_handler.cc.

References error(), handler, and jeod::MessageMessages::singleton error.

8.1.2.2 \sim MessageHandler()

Destruct a MessageHandler.

Definition at line 601 of file message handler.cc.

References handler.

8.1.2.3 MessageHandler() [2/2]

Not implemented.

8.1.3 Member Function Documentation

8.1.3.1 add_suppressed_code()

Add a message code to the set of messages that are to be suppressed for messages with positive severity level.

Note: Fatal errors and serious errors cannot be suppressed.

Parameters

in	msg_code	Message code to be suppressed
----	----------	-------------------------------

Definition at line 393 of file message_handler.cc.

References handler, no_handler_error(), and process_add_suppressed_code().

8.1.3.2 clear_suppressed_codes()

Clear the set of suppressed message codes.

Definition at line 436 of file message_handler.cc.

References handler, no_handler_error(), and process_clear_suppressed_codes().

8.1.3.3 debug()

Generate a message with severity MessageHandler::Debug.

Debug messages should never be used for erroneous conditions. They should instead be used for describing nominal behavior. Note that debug messages are nominally suppressed.

Parameters

in	file	Typically FILE
in	line	Typically LINE
in	msg_code	Message code
in	format	sprintf format
in		sprintf arguments

Definition at line 237 of file message_handler.cc.

References Debug, handler, no_handler_error(), and process_message().

8.1.3.4 delete_suppressed_code()

Delete a message code from the set of suppressed message codes.

Parameters

in	msg_code	Message code to be unsuppressed

Definition at line 415 of file message_handler.cc.

References handler, no_handler_error(), and process_delete_suppressed_code().

8.1.3.5 deregister_contents()

Deregister the checkpointable contents of the handler with the simulation interface.

The base MessageHandler has not such content.

Reimplemented in jeod::SuppressedCodeMessageHandler.

Definition at line 250 of file message_handler.hh.

8.1.3.6 error()

Generate a message with severity MessageHandler::Error.

An error represents a very serious problem. The intent is to represent errors that invalidate simulation results but for which a recovery path does exist. Using MessageHandler::error rather than MessageHandler::fail enables the user to address multiple errors at a time.

A conforming implementation of a class that derives MessageHandler will always report error messages. Errors should not be suppressed.

Parameters

in	file	Typically FILE
in	line	Typically LINE
in	msg_code	Message code
in	format	sprintf format
in		sprintf arguments

Definition at line 128 of file message handler.cc.

References Error, handler, no_handler_error(), and process_message().

Referenced by MessageHandler().

8.1.3.7 fail()

```
unsigned int line,
const char * msg_code,
const char * format,
... ) [static]
```

Generate a message with negative severity, MessageHandler::Failure, and terminate the simulation.

The intent of this method is to handle erroneous situations for which no recovery path exists. If a recovery path does exist, even if very suspect, callers of this method should consider calling MessageHandler::error as an alternative.

A conforming implementation of a class that derives MessageHandler will force the simulation to terminate upon receipt of a message with negative severity.

Parameters

in	file	Typically FILE
in	line	Typically LINE
in	msg_code	Message code
in	format	sprintf format
in		sprintf arguments

Definition at line 85 of file message handler.cc.

References Failure, handler, no handler error(), and process message().

8.1.3.8 get_suppress_id()

Get the suppress_id of the global massage handler.

Returns

ID value Units: Suppress

Definition at line 478 of file message_handler.cc.

References handler, no_handler_error(), and suppress_id.

8.1.3.9 get_suppress_location()

Get the suppress_location of the global massage handler.

Returns

Suppress location value

Definition at line 523 of file message_handler.cc.

References handler, no_handler_error(), and suppress_location.

8.1.3.10 get_suppression_level()

Get the suppress_id of the global massage handler.

Returns

Suppression level value

Definition at line 366 of file message_handler.cc.

References handler, no_handler_error(), and suppression_level.

8.1.3.11 inform()

Generates a message with severity MessageHandler::Notice.

Informational notices should not represent problems of any significance as the default behavior is to suppress such messages.

Parameters

in	file	Typically FILE
in	line	Typically LINE
in	msg_code	Message code
in	format	sprintf format
in		sprintf arguments

Definition at line 201 of file message_handler.cc.

References handler, no_handler_error(), Notice, and process_message().

8.1.3.12 no_handler_error()

Handle the error condition where there is no global handler.

Note

That this condition exists means the simulation is non-compliant.

Assumptions and Limitations

- All JEOD-based simulations must have a message handler and memory handler that at instantiated prior to instantiating any other JEOD-based model and destroyed after all those other models have been destroyed.
- That no message handler exists means the simulation is not a compliant with the above restrictions.
- The handling of this condition is intentionally simplistic. An error message is printed and the simulation is terminated via a system call to exit.

Definition at line 558 of file message_handler.cc.

Referenced by add_suppressed_code(), clear_suppressed_codes(), debug(), delete_suppressed_code(), error(), fail(), get_suppress_id(), get_suppress_location(), get_suppression_level(), inform(), send_message(), set_ \leftarrow suppress_id(), set_suppress_location(), set_suppression_level(), va_send_message(), and warn().

8.1.3.13 operator=()

Not implemented.

8.1.3.14 process add suppressed_code()

Add a message code to the set of messages that are to be suppressed.

The method add_suppressed_code relays the call to the message handler as a call to process_add_suppressed code.

The default behavior is a no-op. Suppressing messages by the message code is an optional capability.

Parameters

	M
msa coae	Message code to be suppressed
3	

Reimplemented in jeod::SuppressedCodeMessageHandler.

Definition at line 350 of file message_handler.hh.

Referenced by add_suppressed_code().

8.1.3.15 process_clear_suppressed_codes()

```
virtual void jeod::MessageHandler::process_clear_suppressed_codes ( ) [inline], [protected],
[virtual]
```

Clear the set of suppressed message codes.

The method clear_suppressed_codes relays the call to the message handler as a call to process_clear_ \hookleftarrow suppressed_codes.

As with process_add_suppressed_code, the default for this function is a no-op; suppressed codes are an optional capability.

Definition at line 378 of file message_handler.hh.

Referenced by clear suppressed codes().

8.1.3.16 process_delete_suppressed_code()

Delete a message code from the set of suppressed message codes.

The method delete_suppressed_code relays the call to the message handler as a call to process_delete_← suppressed_code.

As with process_add_suppressed_code, the default for this function is a no-op; suppressed codes are an optional capability.

Parameters

```
msg_code | Message code to be suppressed
```

Reimplemented in jeod::SuppressedCodeMessageHandler.

Definition at line 365 of file message handler.hh.

Referenced by delete_suppressed_code().

8.1.3.17 process_message()

```
const char * format,
va_list args ) const [protected], [pure virtual]
```

Generate the message.

All of the send_message() methods relay the message to the message handler in the form of a call to process message().

An instantiable derived MessageHandler class must supply this function.

Parameters

severity	Severity level
prefix	Message prefix (e.g., Error)
file	Typically FILE
line	Typically LINE
msg_code	Message code
format	sprintf format
args	Arguments

Referenced by debug(), error(), fail(), inform(), send message(), va send message(), and warn().

8.1.3.18 register_contents()

Register the checkpointable contents of the handler with the simulation interface.

The base MessageHandler has not such content.

Reimplemented in jeod::SuppressedCodeMessageHandler.

Definition at line 243 of file message_handler.hh.

8.1.3.19 send_message()

Generic variable arguments message interface.

This method gives the caller control over the severity level and over the message prefix. These are automatically generated in the standard set of MessageHandler interface methods.

Parameters

in	severity	Severity level
in	prefix	Message prefix (e.g., Error)
in	file	Typically FILE
in	line	Typically LINE
in	msg_code	Message code
in	format	sprintf format
in		sprintf arguments

Definition at line 275 of file message_handler.cc.

References handler, no_handler_error(), and process_message().

8.1.3.20 set_suppress_id()

Set the suppress_id flag in the global message handler.

Parameters

in	suppress⇔	New suppress id value
	_id	

Definition at line 457 of file message_handler.cc.

References handler, no_handler_error(), and suppress_id.

8.1.3.21 set_suppress_location()

Set the suppress_location in the global message handler.

Parameters

in suppress_location New suppress_loc value

Definition at line 502 of file message_handler.cc.

 $References\ handler,\ no_handler_error(),\ and\ suppress_location.$

8.1.3.22 set_suppression_level()

```
void jeod::MessageHandler::set_suppression_level ( unsigned\ int\ suppression\_level\ )\ [static]
```

Set the suppression level in the global message handler.

Parameters

	in suppression_level New suppres	vel
--	----------------------------------	-----

Definition at line 345 of file message_handler.cc.

References handler, no_handler_error(), and suppression_level.

8.1.3.23 va_send_message()

```
void jeod::MessageHandler::va_send_message (
    int severity,
    const char * prefix,
    const char * file,
    unsigned int line,
    const char * msg_code,
    const char * format,
    va_list args ) [static]
```

Generic variable arguments message interface.

This method behaves similarly to MessageHandler::send_message except that the caller has already captured the variable arguments in the form of a va_list. Note that MessageHandler::va_send_message does not call va_end macro.

Parameters

in	severity	Severity level
in	prefix	Message prefix (e.g., Error)
in	file	Typically FILE
in	line	Typically LINE
in	msg_code	Message code
in	format	sprintf format
in,out	args	Varargs stack

Definition at line 316 of file message_handler.cc.

References handler, no_handler_error(), and process_message().

8.1.3.24 warn()

Generate a message with severity MessageHandler::Warning.

Warnings represent situations where the model developer had to make some assumptions to recover from what would otherwise be an erroneous condition. The recovery based on those assumptions does not necessarily invalidate invalidate the simulation results.

Parameters

in	file	Typically FILE
in	line	Typically LINE
in	msg_code	Message code
in	format	sprintf format
in		sprintf arguments

Definition at line 166 of file message handler.cc.

References handler, no_handler_error(), process_message(), and Warning.

8.1.4 Friends And Related Function Documentation

8.1.4.1 init_attrjeod__MessageHandler

```
void init_attrjeod__MessageHandler ( ) [friend]
```

8.1.4.2 InputProcessor

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

Definition at line 109 of file message_handler.hh.

8.1.5 Field Documentation

8.1.5.1 Debug

```
const int jeod::MessageHandler::Debug = 999 [static]
```

The severity value passed by the static public MessageHandler::debug method to the derived class process_
message method.

This is set to 999 in the implementation. The intent is to summarize to the user of some event that the user requested did indeed transpire. Ideally, JEOD code, particularly initialization code, will be peppered with calls to MessageHandler::debug.trick_io(*o) trick_units(-)

Definition at line 302 of file message_handler.hh.

Referenced by debug().

8.1.5.2 Error

```
const int jeod::MessageHandler::Error = 0 [static]
```

The severity value passed by the static public MessageHandler::error method to the derived class process_message method.

This is set to 0 in the implementation, representing the most severe non-fatal error.

Non-negative severity levels indicate non-fatal conditions for which messages might nonetheless need to be generated, depending on the value of the user-settable suppression level.trick io(*o) trick units(-)

Definition at line 276 of file message_handler.hh.

Referenced by error().

8.1.5.3 Failure

```
const int jeod::MessageHandler::Failure = -1 [static]
```

The severity value passed by the static public MessageHandler::fail method to the derived class process_message method.

This is set to -1 in the implementation, representing a fatal error.

A valid implementation of the process_message method must treat negative severity levels as fatal; they must not return to the calling procedure. In other words, failures eventually result in a call to exit.trick_io(*o) trick_units(-)

Definition at line 264 of file message_handler.hh.

Referenced by fail().

8.1.5.4 handler

```
MessageHandler * jeod::MessageHandler::handler = NULL [static], [protected]
```

The MessageHandler instance that generates messages.

The static MessageHandler functions invoked by various models pass the message on to this instance in the form of a call to process_message.trick_io(*o) trick_units(-)

Definition at line 389 of file message handler.hh.

Referenced by add_suppressed_code(), clear_suppressed_codes(), debug(), delete_suppressed_code(), error(), fail(), get_suppress_id(), get_suppress_location(), get_suppression_level(), inform(), MessageHandler(), send_ \leftarrow message(), set_suppress_id(), set_suppress_location(), set_suppression_level(), va_send_message(), warn(), and \sim MessageHandler().

8.1.5.5 Notice

```
const int jeod::MessageHandler::Notice = 99 [static]
```

The severity value passed by the static public MessageHandler::inform method to the derived class process_
message method.

This is set to 99 in the implementation. The intent is to indicate a non-error condition that might be worthy of a user notification.trick_io(*o) trick_units(-)

Definition at line 292 of file message_handler.hh.

Referenced by inform().

8.1.5.6 suppress_id

```
bool jeod::MessageHandler::suppress_id [protected]
```

This flag indicates whether the message ID is printed for unsuppressed messages.

The ID is not printed if this flag is set to true. The message ID is always printed for fatal errors.

Default value: false.trick_units(-)

Definition at line 412 of file message_handler.hh.

Referenced by get suppress id(), and set suppress id().

8.1.5.7 suppress_location

```
bool jeod::MessageHandler::suppress_location [protected]
```

This flag indicates whether the message source file and line number printed for unsuppressed messages.

The location is not printed if this flag is set to true. The message location is always printed for fatal errors.

Default value: false.trick units(-)

Definition at line 422 of file message_handler.hh.

Referenced by get suppress location(), and set suppress location().

8.1.5.8 suppression_level

```
unsigned int jeod::MessageHandler::suppression_level [protected]
```

All messages have an associated severity level, with increasingly positive values indicating warnings of decreasing severity.

Fatal errors have a negative severity level. Messages whose severity exceeds the value of the global message handler's suppression_level are suppressed. Note that fatal errors and severe errors cannot be suppressed.

Default value: MessageHandler::Warning (warnings and non-fatal errors).trick_units(-)

Definition at line 403 of file message_handler.hh.

Referenced by get_suppression_level(), jeod::SuppressedCodeMessageHandler::message_is_to_be_printed(), and set_suppression_level().

8.1.5.9 Warning

```
const int jeod::MessageHandler::Warning = 9 [static]
```

The severity value passed by the static public MessageHandler::warn method to the derived class process_message method.

This is set to 9 in the implementation. The intent is to indicate a condition that might indicate that results are suspect.trick_io(*o) trick_units(-)

Definition at line 284 of file message_handler.hh.

Referenced by warn().

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

- message_handler.hh
- message_handler.cc

8.2 jeod::MessageMessages Class Reference

Specifies the message IDs used in the message handler model.

```
#include <message_messages.hh>
```

Static Public Attributes

• static char const * singleton_error = "utils/message/" "singleton_error"

Error issued when multiple instance of a class that should be a singleton are created or when no such instance exists (but should).

Private Member Functions

• MessageMessages (void)

Not implemented.

• MessageMessages (const MessageMessages &)

Not implemented.

• MessageMessages & operator= (const MessageMessages &)

Not implemented.

8.2.1 Detailed Description

Specifies the message IDs used in the message handler model.

Definition at line 73 of file message_messages.hh.

8.2.2 Constructor & Destructor Documentation

```
8.2.2.1 MessageMessages() [1/2]
```

Not implemented.

8.2.2.2 MessageMessages() [2/2]

Not implemented.

8.2.3 Member Function Documentation

8.2.3.1 operator=()

Not implemented.

8.2.4 Field Documentation

8.2.4.1 singleton_error

```
char const * jeod::MessageMessages::singleton_error = "utils/message/" "singleton_error" [static]
```

Error issued when multiple instance of a class that should be a singleton are created or when no such instance exists (but should).

trick_units(-)

Definition at line 82 of file message_messages.hh.

Referenced by jeod::MessageHandler::MessageHandler().

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

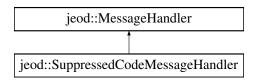
- · message_messages.hh
- message_messages.cc

8.3 jeod::SuppressedCodeMessageHandler Class Reference

Adds the capability to suppress messages by their message code to the base MessageHandler class.

```
#include <suppressed_code_message_handler.hh>
```

Inheritance diagram for jeod::SuppressedCodeMessageHandler:



Public Member Functions

SuppressedCodeMessageHandler (void)

Default constructor.

 $\bullet \ \, \text{virtual} \sim \\ \text{SuppressedCodeMessageHandler (void)} \\$

Destructor.

Protected Member Functions

· virtual void register_contents (void)

Register the MessageHandler's checkpointable contents.

virtual void deregister_contents (void)

Deregister the MessageHandler's checkpointable contents.

• virtual void process_add_suppressed_code (const char *msg_code)

Add a message code to the set of messages that are to be suppressed.

• virtual void process_delete_suppressed_code (const char *msg_code)

Delete a message code from the set of suppressed message codes.

virtual void process_clear_suppressed_code (void)

Clear the set of messages that are to be suppressed.

• bool message_is_to_be_printed (int severity, const char *msg_code) const

Determine whether output for a message is to be printed.

Protected Attributes

• JeodPrimitiveSet< std::string >::type suppressed_codes

The set of message code that are to be suppressed.

Private Member Functions

SuppressedCodeMessageHandler (const SuppressedCodeMessageHandler &)

Not implemented.

• SuppressedCodeMessageHandler & operator= (const SuppressedCodeMessageHandler &)

Not implemented.

Friends

- · class InputProcessor
- void init_attrjeod__SuppressedCodeMessageHandler ()

Additional Inherited Members

8.3.1 Detailed Description

Adds the capability to suppress messages by their message code to the base MessageHandler class.

Definition at line 83 of file suppressed_code_message_handler.hh.

8.3.2 Constructor & Destructor Documentation

8.3.2.1 SuppressedCodeMessageHandler() [1/2]

```
{\tt jeod::SuppressedCodeMessageHandler::SuppressedCodeMessageHandler ( } \\ {\tt void } {\tt ) [inline]}
```

Default constructor.

Definition at line 102 of file suppressed_code_message_handler.hh.

8.3.2.2 ~SuppressedCodeMessageHandler()

```
\label{lem:condition} \begin{tabular}{ll} virtual jeod::SuppressedCodeMessageHandler::$$\sim$SuppressedCodeMessageHandler ( void ) [inline], [virtual] \end{tabular}
```

Destructor.

Definition at line 107 of file suppressed_code_message_handler.hh.

8.3.2.3 SuppressedCodeMessageHandler() [2/2]

```
\label{lem:suppressedCodeMessageHandler::SuppressedCodeMessageHandler ( \\ const SuppressedCodeMessageHandler \& ) [private] \\
```

Not implemented.

8.3.3 Member Function Documentation

8.3.3.1 deregister_contents()

Deregister the MessageHandler's checkpointable contents.

Reimplemented from jeod::MessageHandler.

Definition at line 60 of file suppressed code message handler.cc.

References suppressed_codes.

8.3.3.2 message_is_to_be_printed()

Determine whether output for a message is to be printed.

Returns

True => print message

Parameters

in	severity	Severity level
in	msg_code	Message code

Definition at line 159 of file suppressed_code_message_handler.hh.

References suppressed_codes, and jeod::MessageHandler::suppression_level.

8.3.3.3 operator=()

Not implemented.

8.3.3.4 process_add_suppressed_code()

Add a message code to the set of messages that are to be suppressed.

Parameters

in	msg_code	Message code to be suppressed
----	----------	-------------------------------

Reimplemented from jeod::MessageHandler.

Definition at line 125 of file suppressed_code_message_handler.hh.

References suppressed_codes.

8.3.3.5 process_clear_suppressed_code()

Clear the set of messages that are to be suppressed.

Definition at line 146 of file suppressed_code_message_handler.hh.

References suppressed_codes.

8.3.3.6 process_delete_suppressed_code()

Delete a message code from the set of suppressed message codes.

Parameters

in	msg_code	Message code to be unsuppressed

Reimplemented from jeod::MessageHandler.

Definition at line 136 of file suppressed_code_message_handler.hh.

References suppressed codes.

8.3.3.7 register_contents()

Register the MessageHandler's checkpointable contents.

Reimplemented from jeod::MessageHandler.

Definition at line 48 of file suppressed_code_message_handler.cc.

References suppressed_codes.

8.3.4 Friends And Related Function Documentation

8.3.4.1 init_attrjeod__SuppressedCodeMessageHandler

```
void init_attrjeod__SuppressedCodeMessageHandler ( ) [friend]
```

8.3.4.2 InputProcessor

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

Definition at line 84 of file suppressed_code_message_handler.hh.

8.3.5 Field Documentation

8.3.5.1 suppressed_codes

JeodPrimitiveSet<std::string>::type jeod::SuppressedCodeMessageHandler::suppressed_codes
[protected]

The set of message code that are to be suppressed.

trick_io(**)

Definition at line 175 of file suppressed code message handler.hh.

Referenced by deregister_contents(), message_is_to_be_printed(), process_add_suppressed_code(), process_clear_suppressed_code(), and register_contents().

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

- suppressed_code_message_handler.hh
- suppressed_code_message_handler.cc

Chapter 9

File Documentation

9.1 class_declarations.hh File Reference

Forward declarations of classes defined in this module.

Namespaces

• jeod

Namespace jeod.

9.1.1 Detailed Description

Forward declarations of classes defined in this module.

9.2 make_message_code.hh File Reference

Define JEOD_MAKE_MESSAGE_CODE.

Namespaces

• jeod

Namespace jeod.

Macros

• #define JEOD_MAKE_MESSAGE_CODE(cname, path, id) char const * cname::id = path #id

Shortcut macro to define the static member cname::id as the catenation of the path and the stringified id.

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9.2.1 Detailed Description

Define JEOD_MAKE_MESSAGE_CODE.

9.2.2 Macro Definition Documentation

9.2.2.1 JEOD_MAKE_MESSAGE_CODE

Shortcut macro to define the static member cname::id as the catenation of the path and the stringified id.

Parameters

in	cname	The name of the message class.
in	path	The path from \$JEOD_HOME/models to the model in question. This must be a char* string
		and shoult terminate in a '/'.
in	id	The static member data name to be assigned.

Definition at line 70 of file make_message_code.hh.

9.3 message_handler.cc File Reference

Define member functions for the class MessageHandler.

```
#include <cstdarg>
#include <cstddef>
#include <cstdio>
#include <cstdlib>
#include "../include/message_handler.hh"
#include "../include/message_messages.hh"
```

Namespaces

• jeod

Namespace jeod.

9.3.1 Detailed Description

Define member functions for the class MessageHandler.

9.4 message_handler.hh File Reference

Define the class MessageHandler, the base class for generating messages.

```
#include <cstdarg>
#include "utils/sim_interface/include/jeod_class.hh"
#include "class_declarations.hh"
```

Data Structures

· class jeod::MessageHandler

The base class for generating JEOD messages.

Namespaces

· jeod

Namespace jeod.

9.4.1 Detailed Description

Define the class MessageHandler, the base class for generating messages.

9.5 message_messages.cc File Reference

Implement the class MessageMessages.

```
#include "utils/message/include/make_message_code.hh"
#include "../include/message_messages.hh"
```

Namespaces

• jeod

Namespace jeod.

Macros

• #define MAKE_MESSAGE_MESSAGE_CODE(id) JEOD_MAKE_MESSAGE_CODE(MessageMessages, "utils/message/", id)

9.5.1 Detailed Description

Implement the class MessageMessages.

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9.5.2 Macro Definition Documentation

9.5.2.1 MAKE_MESSAGE_MESSAGE_CODE

Definition at line 39 of file message_messages.cc.

9.6 message_messages.hh File Reference

Define the class MessageMessages.

Data Structures

class jeod::MessageMessages

Specifies the message IDs used in the message handler model.

Namespaces

• jeod

Namespace jeod.

9.6.1 Detailed Description

Define the class MessageMessages.

9.7 suppressed_code_message_handler.cc File Reference

Define member functions for the class SuppressedCodeMessageHandler.

```
#include <cstdarg>
#include <cstddef>
#include <cstdio>
#include <cstdlib>
#include "utils/memory/include/jeod_alloc.hh"
#include "../include/suppressed_code_message_handler.hh"
```

Namespaces

• jeod

Namespace jeod.

9.7.1 Detailed Description

Define member functions for the class SuppressedCodeMessageHandler.

9.8 suppressed_code_message_handler.hh File Reference

Define the class SuppressedCodeMessageHandler, which adds the capability to suppress messages by their message code.

```
#include "utils/container/include/primitive_set.hh"
#include "utils/sim_interface/include/jeod_class.hh"
#include "message_handler.hh"
```

Data Structures

· class jeod::SuppressedCodeMessageHandler

Adds the capability to suppress messages by their message code to the base MessageHandler class.

Namespaces

• jeod

Namespace jeod.

9.8.1 Detailed Description

Define the class SuppressedCodeMessageHandler, which adds the capability to suppress messages by their message code.

This capability cannot be a part of the base MessageHandler class because that base class needs to stand on its own.

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