htd_te

API Documentation

August 26, 2014

Contents

Contents 1

1 Module htd_actions_library_top 3
- 1.1 Variables . . . 3
- 1.2 Class REG . . . 3
  - 1.2.1 Methods . . . 3
  - 1.2.2 Properties . . . 4
  - 1.2.3 Class Variables . . . 4
- 1.3 Class CACHEPLOAD . . . 4
  - 1.3.1 Methods . . . 4
  - 1.3.2 Properties . . . 5
  - 1.3.3 Class Variables . . . 5

2 Module htd_basic_action 6
- 2.1 Functions . . . 6
- 2.2 Variables . . . 6
- 2.3 Class htd_base_action . . . 6
  - 2.3.1 Methods . . . 7
  - 2.3.2 Properties . . . 8
  - 2.3.3 Class Variables . . . 8

3 Module htd_basic_flow 9
- 3.1 Variables . . . 9
- 3.2 Class htd_segment . . . 9
  - 3.2.1 Methods . . . 10
  - 3.2.2 Properties . . . 10
- 3.3 Class htd_base_flow . . . 10
  - 3.3.1 Methods . . . 11
  - 3.3.2 Properties . . . 12
  - 3.3.3 Class Variables . . . 12
- 3.4 Class htd_ip_segment . . . 13
  - 3.4.1 Methods . . . 13
  - 3.4.2 Properties . . . 14
- 3.5 Class htd_flow_segment . . . 14
  - 3.5.1 Methods . . . 14
  - 3.5.2 Properties . . . 15

4 Module htd_clocks **16**
4.1 Variables . . . 16
4.2 Class htd_clocks . . . 16
4.2.1 Methods . . . 16
4.2.2 Properties . . . 17

5 Module htd_collaterals **18**
5.1 Variables . . . 18
5.2 Class htd_collaterals . . . 18
5.2.1 Methods . . . 18
5.2.2 Properties . . . 20

6 Module htd_gen_action **21**
6.1 Variables . . . 21
6.2 Class GEN . . . 21
6.2.1 Methods . . . 21
6.2.2 Properties . . . 22
6.2.3 Class Variables . . . 22

7 Module htd_signal_action **23**
7.1 Variables . . . 23
7.2 Class SIG . . . 23
7.2.1 Methods . . . 23
7.2.2 Properties . . . 24
7.2.3 Class Variables . . . 24

8 Module htd_tap_action **25**
8.1 Variables . . . 25
8.2 Class TAP . . . 25
8.2.1 Methods . . . 25
8.2.2 Properties . . . 26
8.2.3 Class Variables . . . 26

9 Module htd_te_manager **27**
9.1 Variables . . . 27

10 Module htd_utilities **28**
10.1 Functions . . . 28
10.2 Variables . . . 29
10.3 Class htd_action_argument_entry . . . 29
10.3.1 Methods . . . 30
10.3.2 Properties . . . 30
10.4 Class Logger . . . 30
10.4.1 Methods . . . 30
10.4.2 Properties . . . 31
10.5 Class htd_argument_containter . . . 31
10.5.1 Methods . . . 31
10.5.2 Properties . . . 33

Index **34**

1 Module htd_actions_library_top

1.1 Variables

Name	Description
__package__	**Value:** None
dict_cr_RegFieldsByName	**Value:** {'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'ALL': {'access': '...
dict_cr_RegPropertiesByName	**Value:** {'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'addressOffset': 20...
dict_fuse_RegFieldsByName	**Value:** {'Iunit/fp_iunit_hpll_freq': {'access': 'not-available', ...
dict_pcu_ConstByName	**Value:** {'BOOT_FSM_PRE_PCODE_WAKE': {'value': 10}, 'PCODE_INSTR_L...
dict_sig_GetModulePath	**Value:** {'.behavioral.double_sync2': {'path': ['soc_tb.soc.par_dd...
dict_tap_EncodingByName	**Value:** {'AgingPatternTAPonly_CHAIN': {'ir': 274, 'irRtlPath': No...
dict_tap_FieldsByEncoding	**Value:** {0: {'DATA': {'access': 'RO', 'bitOffset': 0, 'bitWidth':...
htdPlayer	**Value:** <htd_player_ui.htd_player_ui object at 0x2aaaaed07950>
mname	**Value:** 'collateral_dynamic_members'
status	**Value:** 1

1.2 Class REG

object

htd_basic_action.htd_base_action

htd_actions_library_top.REG

1.2.1 Methods

__init__(*self*, *action_name*, *source_file*, *source_lineno*, *currentFlow*)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

verify_arguments(*self*)

Overrides: htd_basic_action.htd_base_action.verify_arguments

run(*self*)

Overrides: htd_basic_action.htd_base_action.run

Inherited from htd_basic_action.htd_base_action(Section 2.3)

argument_exists(), error(), error_bysrc(), get_action_argument(), get_action_argument_last_entry(), get_action_call_file(), get_action_call_lineno(), get_action_name(), get_action_type(), get_all_arguments(), get_arguments(), get_declared_arguments(), get_not_declared_arguments(), get_result(), i_am_htd_base_action_object(), inform(), inform_nosrc(), post_run(), post_run_place_holder(), pre_run(), pre_run_place_holder(), print_action_arguments(), set_result(), verify_action_arguments(), verify_obligatory_arguments()

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

1.2.2 Properties

Name	Description
Inherited from object	
__class__	

1.2.3 Class Variables

Name	Description
Inherited from htd_basic_action.htd_base_action (Section 2.3)	
author, description	

1.3 Class CACHEPLOAD

object

htd_basic_action.htd_base_action

htd_actions_library_top.CACHEPLOAD

1.3.1 Methods

__init__(*self*, *action_name*, *source_file*, *source_lineno*, *currentFlow*)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

verify_arguments(*self*)

Overrides: htd_basic_action.htd_base_action.verify_arguments

run(*self*)

Overrides: htd_basic_action.htd_base_action.run

Inherited from htd_basic_action.htd_base_action(Section 2.3)

argument_exists(), error(), error_bysrc(), get_action_argument(), get_action_argument_last_entry(), get_action_call_file(), get_action_call_lineno(), get_action_name(), get_action_type(), get_all_arguments(), get_arguments(), get_declared_arguments(), get_not_declared_arguments(), get_result(), i_am_htd_base_action_object(), inform(), inform_nosrc(), post_run(), post_run_place_holder(), pre_run(), pre_run_place_holder(), print_action_arguments(), set_result(), verify_action_arguments(), verify_obligatory_arguments()

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

1.3.2 Properties

Name	Description
Inherited from object	
__class__	

1.3.3 Class Variables

Name	Description
Inherited from htd_basic_action.htd_base_action (Section 2.3)	
author, description	

2 Module htd_basic_action

2.1 Functions

evaluate_constrain_condition(*condition*, *src*)

2.2 Variables

Name	Description
__package__	**Value:** None
dict_cr_RegFieldsByName	**Value:** {'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'ALL': {'access': '...
dict_cr_RegPropertiesByName	**Value:** {'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'addressOffset': 20...
dict_fuse_RegFieldsByName	**Value:** {'Iunit/fp_iunit_hpll_freq': {'access': 'not-available', ...
dict_pcu_ConstByName	**Value:** {'BOOT_FSM_PRE_PCODE_WAKE': {'value': 10}, 'PCODE_INSTR_L...
dict_sig_GetModulePath	**Value:** {'.behavioral.double_sync2': {'path': ['soc_tb.soc.par_dd...
dict_tap_EncodingByName	**Value:** {'AgingPatternTAPonly_CHAIN': {'ir': 274, 'irRtlPath': No...
dict_tap_FieldsByEncoding	**Value:** {0: {'DATA': {'access': 'RO', 'bitOffset': 0, 'bitWidth':...
htdPlayer	**Value:** <htd_player_ui.htd_player_ui object at 0x2aaaaed07950>
mname	**Value:** 'collateral_dynamic_members'
status	**Value:** 1

2.3 Class htd_base_action

object
└ **htd_basic_action.htd_base_action**

Known Subclasses: htd_actions_library_top.CACHEPLOAD, htd_actions_library_top.REG, htd_gen_action.GEN, htd_signal_action.SIG, htd_tap_action.TAP

2.3.1 Methods

__init__(*self*, *action_type*, *action_name*, *locfile*, *loclinenum*, *currentFlow*)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

i_am_htd_base_action_object()

get_action_name(*self*)

get_action_type(*self*)

get_action_call_file(*self*)

get_action_call_lineno(*self*)

get_arguments(*self*)

set_result(*self*, *res*)

get_result(*self*)

inform(*self*, *msg*)

inform_nosrc(*self*, *msg*)

error(*self*, *msg*, *exit*)

error_bysrc(*self*, *srcfile*, *srcline*, *msg*, *exit*)

verify_obligatory_arguments(*self*)

get_declared_arguments(*self*)

get_not_declared_arguments(*self*)

get_all_arguments(*self*)

argument_exists(*self*, *name*)

get_action_argument(*self*, *name*)

get_action_argument_last_entry(*self*, *name*)

print_action_arguments(*self*)

verify_action_arguments(*self*)

verify_arguments(*self*)

post_run_place_holder(*self*)

post_run(*self*)

pre_run_place_holder(*self*)

pre_run(*self*)

run(*self*)

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

2.3.2 Properties

Name	Description
Inherited from object	
__class__	

2.3.3 Class Variables

Name	Description
description	**Value:** `'The htd_base_action is a base flow class that will be in...`
author	**Value:** `'alexse'`

3 Module htd_basic_flow

3.1 Variables

Name	Description
SCHEDULED_LOAD_SEGMENTS_IP_MODULES	**Value:** `[]`
__package__	**Value:** `None`
dict_cr_RegFieldsByName	**Value:** `{'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'ALL': {'access': '...`
dict_cr_RegPropertiesByName	**Value:** `{'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'addressOffset': 20...`
dict_fuse_RegFieldsByName	**Value:** `{'Iunit/fp_iunit_hpll_freq': {'access': 'not-available', ...`
dict_pcu_ConstByName	**Value:** `{'BOOT_FSM_PRE_PCODE_WAKE': {'value': 10}, 'PCODE_INSTR_L...`
dict_sig_GetModulePath	**Value:** `{'.behavioral.double_sync2': {'path': ['soc_tb.soc.par_dd...`
dict_tap_EncodingByName	**Value:** `{'AgingPatternTAPonly_CHAIN': {'ir': 274, 'irRtlPath': No...`
dict_tap_FieldsByEncoding	**Value:** `{0: {'DATA': {'access': 'RO', 'bitOffset': 0, 'bitWidth':...`
htdPlayer	**Value:** `<htd_player_ui.htd_player_ui object at 0x2aaaaed07950>`
ip_module	**Value:** `'PchIsolation_Stage0'`
mname	**Value:** `'collateral_dynamic_members'`
module	**Value:** `'/nfs/iil/proj/mpgbd/alexse/TE/repo/project/testproj//htd.`
seg_module	**Value:** `'PchIsolation_Stage0'`
status	**Value:** `1`

3.2 Class htd_segment

object
└ **htd_basic_flow.htd_segment**

Known Subclasses: htd_basic_flow.htd_flow_segment, htd_basic_flow.htd_ip_segment

3.2.1 Methods

__init__(*self*, *current_flow*)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

print_interface_arguments(*self*)

get_currentflow(*self*)

assign_arguments_container(*self*, *container*, *arguments*, *object_type*, *location*)

declare_interface(*self*, *arguments*, *location*=[])

exec_action(*self*, *params*)

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

3.2.2 Properties

Name	Description
Inherited from object	
__class__	

3.3 Class htd_base_flow

object

htd_basic_flow.htd_base_flow

3.3.1 Methods

__init__(*self*, *flow_type*, *flow_num*)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

help_cmd(*self*)

debug_readback(*self*)

i_am_htd_base_flow_object()

get_flow_type(*self*)

get_flow_num(*self*)

verify_obligatory_arguments(*self*)

get_per_action_cmd_arguments(*self*)

inform(*self*, *msg*, *distribute_to_interface*=0, *level*=0, *prefix*='Inform')

inform_bysrc(*self*, *currfile*, *currline_no*, *msg*, *distribute_to_interface*=0, *level*=0, *prefix*='Inform')

error(*self*, *msg*, *exit*)

error_bysrc(*self*, *currfile*, *currline_no*, *msg*, *exit*)

actions_override(*self*)

post_verify(*self*)

set_flow_arguments(*self*, *arguments*, *src*)

print_flow_arguments_help(*self*)

print_flow_arguments(*self*)

action_override(*self*, *actionName*, *paramName*, *value*, *lsb*=-1, *msb*=-1)

exec_action(*self*, *params*, *atype*='none', *location_file_str*='none', *location_file_lineno*=0)

exec_action_obj(*self*, *location_file_str*, *location_file_lineno*, *arguments*)

exec_segment(*self*, *arguments*)

ip_connect(*self*, *arguments*)

ip_activate(*self*, *ip_name*, *ena*)

pre_flow_run(*self*)

post_flow_run_place_holder(*self*)

post_flow_run(*self*)

flow_run(*self*)

connect_ips(*self*)

flow_override(*self*)

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

3.3.2 Properties

Name	Description
Inherited from object	
__class__	

3.3.3 Class Variables

Name	Description
description	**Value:** `'The htd_base_flow is a base flow class that will be inhe...`
author	**Value:** `'alexse'`

3.4 Class htd_ip_segment

object
└
htd_basic_flow.htd_segment
└
htd_basic_flow.htd_ip_segment

3.4.1 Methods

__init__(*self*, *current_flow*, *ip_name*)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

get_ip_name(*self*)

enable_ip_segment(*self*)

is_ip_segment_enabled(*self*)

error(*self*, *msg*, *exit*)

error_bysrc(*self*, *currfile*, *currline_no*, *msg*, *exit*)

get_interface_method(*self*, *interface_method_name*)

is_debug_interface_method(*self*, *interface_method_name*)

get_interface_method_description(*self*, *interface_method_name*)

execute_interface_method(*self*, *interface_method_name*)

Inherited from htd_basic_flow.htd_segment(Section 3.2)

assign_arguments_container(), declare_interface(), exec_action(), get_currentflow(), print_interface_arguments()

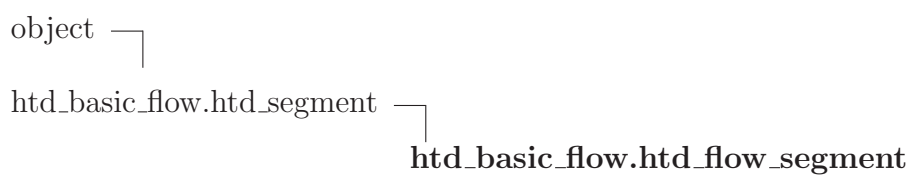
Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

3.4.2 Properties

Name	Description
Inherited from object	
__class__	

3.5 Class htd_flow_segment



3.5.1 Methods

__init__(*self*, *current_flow*)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

error(*self*, *msg*, *exit*)

error_bysrc(*self*, *currfile*, *currline_no*, *msg*, *exit*)

Inherited from htd_basic_flow.htd_segment(Section 3.2)

assign_arguments_container(), declare_interface(), exec_action(), get_currentflow(), print_interface_arguments()

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

3.5.2 Properties

Name	Description
Inherited from object __class__	

4 Module htd_clocks

4.1 Variables

Name	Description
__package__	**Value:** `None`
mname	**Value:** `'collateral_dynamic_members'`
status	**Value:** `1`

4.2 Class htd_clocks

object
└ **htd_clocks.htd_clocks**

4.2.1 Methods

__init__(*self*, *logger*)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

add_new_clock(*self*, *clk*)

get_clock_rtl_path(*self*, *clk*)

get_all_clocks(*self*)

is_clock(*self*, *name*)

set_clock_rate(*self*, *name*, *rate*)

check_for_unassigned_clock_ratio(*self*)

set_default(*self*, *clk*)

get_default(*self*)

clock_transpose(*self*, *from_clock*, *from_clock_cycles*, *to_clock*)

is_transposed_clock_modulo(*self*, *from_clock*, *from_clock_cycles*, *to_clock*)

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

4.2.2 Properties

Name	Description
Inherited from object	
__class__	

5 Module htd_collaterals

5.1 Variables

Name	Description
RES	**Value:** `htd_collaterals()`
CFG	**Value:** {'CMD': {}, 'FlowSignals': {'BootFsmBrkPtTrigger': 'xxNOA...
dynamic_methods_module	**Value:** `'collateral_dynamic_members.py'`
file_name	**Value:** `None`
__package__	**Value:** `None`
mname	**Value:** `'collateral_dynamic_members'`
status	**Value:** `1`

5.2 Class htd_collaterals

object
└ **htd_collaterals.htd_collaterals**

5.2.1 Methods

__init__(*self*)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

get_collateral_file_info(*self*, *col_name*, *errpostfix*='')

get_col_pickle_name(*self*, *col_names*, *dictionary_name*)

cfg_getstr(*self*, *var_category*, *var_name*, *obligatory*=1, *location_str*='')

cfg_getint(*self*, *var_category*, *var_name*, *obligatory*=1)

traverse_cfg_xml_node(*self*, *rootNode*, *cfg_hash*, *dict_name*, *path_to_cfg*, *col_type*)

read_cfg_file(*self*, *cfg_path*)

read_cfg(*self*, *xmldoc*, *node*, *path_to_cfg*)

read_te_cfg(*self*, *path_to_cfg*)

read_combined_xml_cfg_value(*self*, *value*)

get_int_value(*self*, *value*)

traverse_nodes_by_path(*self*, *rootNode*, *path_l*, *depth*, *strict_path*=0, *conditional_existence*=0)

traverse_single_node_by_path(*self*, *rootNode*, *path_l*, *conditional_existence*=0)

get_xml_value_by_combined_path(*self*, *rootNode*, *path_l*, *conditional_existence*=0)

is_single_node_hierarchy(*self*, *rootNode*, *path_l*, *conditional_existence*=0)

add_normilized_string_value_to_dictionary(*self*, *res*, *str_value*, *islist*=0)

apply_current_dictionary_on_current_user_collateral(*self*, *dict_name*, *dictionary*, *matched_entries*, *coll_name*, *line_num*, *res*)

apply_current_dictionary_on_current_tab_collateral(*self*, *dict_name*, *dictionary*, *tabed_entries*, *coll_name*, *line_num*, *res*)

apply_current_dictionary_on_current_xml_collateral(*self*, *dict_name*, *keyNodePath*, *dictionary*, *rootNode*, *res*)

parse_all_collaterals(*self*)

traverse_single_xml_node(*self*, *parent_node*, *key*, *xmlcfg*, *xml_hash*, *col_tag*, *col_type*)

traverse_xml_entry(*self*, *parent_node*, *col_tag*, *col_type*, *xmlcfg*, *xml_hash*)

findChildNodeByName(*self*, *parent*, *name*, *err*=1)

getChildNodeValByName(*self*, *parent*, *name*, *err*=1)

get_xml_tree_str(*self*, *node*, *indentationLevel*=0)

create_dynamic_methods_module(*self*, *file_name*)

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

5.2.2 Properties

Name	Description
Inherited from object	
__class__	

6 Module htd_gen_action

6.1 Variables

Name	Description
__package__	**Value:** None
dict_cr_RegFieldsByName	**Value:** {'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'ALL': {'access': '...
dict_cr_RegPropertiesByName	**Value:** {'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'addressOffset': 20...
dict_fuse_RegFieldsByName	**Value:** {'Iunit/fp_iunit_hpll_freq': {'access': 'not-available', ...
dict_pcu_ConstByName	**Value:** {'BOOT_FSM_PRE_PCODE_WAKE': {'value': 10}, 'PCODE_INSTR_L...
dict_sig_GetModulePath	**Value:** {'.behavioral.double_sync2': {'path': ['soc_tb.soc.par_dd...
dict_tap_EncodingByName	**Value:** {'AgingPatternTAPonly_CHAIN': {'ir': 274, 'irRtlPath': No...
dict_tap_FieldsByEncoding	**Value:** {0: {'DATA': {'access': 'RO', 'bitOffset': 0, 'bitWidth':...
htdPlayer	**Value:** <htd_player_ui.htd_player_ui object at 0x2aaaaed07950>
mname	**Value:** 'collateral_dynamic_members'
status	**Value:** 1

6.2 Class GEN

object

htd_basic_action.htd_base_action

htd_gen_action.GEN

6.2.1 Methods

__init__(*self*, *action_name*, *source_file*, *source_lineno*, *currentFlow*)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

verify_arguments(*self*)

Overrides: htd_basic_action.htd_base_action.verify_arguments

run(*self*)

Overrides: htd_basic_action.htd_base_action.run

Inherited from htd_basic_action.htd_base_action(Section 2.3)

argument_exists(), error(), error_bysrc(), get_action_argument(), get_action_argument_last_entry(), get_action_call_file(), get_action_call_lineno(), get_action_name(), get_action_type(), get_all_arguments(), get_arguments(), get_declared_arguments(), get_not_declared_arguments(), get_result(), i_am_htd_base_action_object(), inform(), inform_nosrc(), post_run(), post_run_place_holder(), pre_run(), pre_run_place_holder(), print_action_arguments(), set_result(), verify_action_arguments(), verify_obligatory_arguments()

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

6.2.2 Properties

Name	Description
Inherited from object	
__class__	

6.2.3 Class Variables

Name	Description
Inherited from htd_basic_action.htd_base_action (Section 2.3)	
author, description	

7 Module htd_signal_action

7.1 Variables

Name	Description
__package__	**Value:** None
dict_cr_RegFieldsByName	**Value:** {'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'ALL': {'access': '...
dict_cr_RegPropertiesByName	**Value:** {'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'addressOffset': 20...
dict_fuse_RegFieldsByName	**Value:** {'Iunit/fp_iunit_hpll_freq': {'access': 'not-available', ...
dict_pcu_ConstByName	**Value:** {'BOOT_FSM_PRE_PCODE_WAKE': {'value': 10}, 'PCODE_INSTR_L...
dict_sig_GetModulePath	**Value:** {'.behavioral.double_sync2': {'path': ['soc_tb.soc.par_dd...
dict_tap_EncodingByName	**Value:** {'AgingPatternTAPonly_CHAIN': {'ir': 274, 'irRtlPath': No...
dict_tap_FieldsByEncoding	**Value:** {0: {'DATA': {'access': 'RO', 'bitOffset': 0, 'bitWidth':...
htdPlayer	**Value:** <htd_player_ui.htd_player_ui object at 0x2aaaaed07950>
mname	**Value:** 'collateral_dynamic_members'
status	**Value:** 1

7.2 Class SIG

object

htd_basic_action.htd_base_action

htd_signal_action.SIG

7.2.1 Methods

__init__(*self*, *action_name*, *source_file*, *source_lineno*, *currentFlow*)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

verify_arguments(*self*)

Overrides: htd_basic_action.htd_base_action.verify_arguments

run(*self*)

Overrides: htd_basic_action.htd_base_action.run

Inherited from htd_basic_action.htd_base_action(Section 2.3)

argument_exists(), error(), error_bysrc(), get_action_argument(), get_action_argument_last_entry(), get_action_call_file(), get_action_call_lineno(), get_action_name(), get_action_type(), get_all_arguments(), get_arguments(), get_declared_arguments(), get_not_declared_arguments(), get_result(), i_am_htd_base_action_object(), inform(), inform_nosrc(), post_run(), post_run_place_holder(), pre_run(), pre_run_place_holder(), print_action_arguments(), set_result(), verify_action_arguments(), verify_obligatory_arguments()

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

7.2.2 Properties

Name	Description
Inherited from object	
__class__	

7.2.3 Class Variables

Name	Description
Inherited from htd_basic_action.htd_base_action (Section 2.3)	
author, description	

8 Module htd_tap_action

8.1 Variables

Name	Description
__package__	**Value:** None
dict_cr_RegFieldsByName	**Value:** {'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'ALL': {'access': '...
dict_cr_RegPropertiesByName	**Value:** {'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'addressOffset': 20...
dict_fuse_RegFieldsByName	**Value:** {'Iunit/fp_iunit_hpll_freq': {'access': 'not-available', ...
dict_pcu_ConstByName	**Value:** {'BOOT_FSM_PRE_PCODE_WAKE': {'value': 10}, 'PCODE_INSTR_L...
dict_sig_GetModulePath	**Value:** {'.behavioral.double_sync2': {'path': ['soc_tb.soc.par_dd...
dict_tap_EncodingByName	**Value:** {'AgingPatternTAPonly_CHAIN': {'ir': 274, 'irRtlPath': No...
dict_tap_FieldsByEncoding	**Value:** {0: {'DATA': {'access': 'RO', 'bitOffset': 0, 'bitWidth':...
htdPlayer	**Value:** <htd_player_ui.htd_player_ui object at 0x2aaaaed07950>
mname	**Value:** 'collateral_dynamic_members'
status	**Value:** 1

8.2 Class TAP

object

htd_basic_action.htd_base_action

htd_tap_action.TAP

8.2.1 Methods

__init__(*self*, *action_name*, *source_file*, *source_lineno*, *currentFlow*)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

debug_readback(*self*)

verify_arguments(*self*)

Overrides: htd_basic_action.htd_base_action.verify_arguments

run(*self*)

Overrides: htd_basic_action.htd_base_action.run

Inherited from htd_basic_action.htd_base_action(Section 2.3)

argument_exists(), error(), error_bysrc(), get_action_argument(), get_action_argument_last_entry(), get_action_call_file(), get_action_call_lineno(), get_action_name(), get_action_type(), get_all_arguments(), get_arguments(), get_declared_arguments(), get_not_declared_arguments(), get_result(), i_am_htd_base_action_object(), inform(), inform_nosrc(), post_run(), post_run_place_holder(), pre_run(), pre_run_place_holder(), print_action_arguments(), set_result(), verify_action_arguments(), verify_obligatory_arguments()

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

8.2.2 Properties

Name	Description
Inherited from object	
__class__	

8.2.3 Class Variables

Name	Description
Inherited from htd_basic_action.htd_base_action (Section 2.3)	
author, description	

9 Module htd_te_manager

9.1 Variables

Name	Description
version	**Value:** `1.0`
CURRENT_FLOW_OBJ	**Value:** `None`
dbgmsg	**Value:** `"Number of arguments:", len(sys.argv), "\nArgument List:"...`
manager_arguments	**Value:** `htd_argument_containter(HTD_ARGUMENTS_DECLARED_ONLY)`
flows_list	**Value:** {}
misc_modules	**Value:** {}
print_help_only_mode	**Value:** `1`
temp_flow	**Value:** `htd_base_flow("", 0)`
dummy_action	**Value:** `htd_base_action("", "dummy", "", 0, 0)`
cfg_override	**Value:** {}
keylist	**Value:** `flows_list.keys()`

10 Module htd_utilities

10.1 Functions

list_resize(*list_src*, *size*, *item*, *up_direct*=1, *increase_only*=1)

execute_all_flow_in_module(*flow_obj*, *module_obj*, *module_name*)

dynamic_load_external_module(*module_path*)

caller_name(*skip*=2)

Get a name of a caller in the format module.class.method

'skip' specifies how many levels of stack to skip while getting caller name.
skip=1 means "who calls me", skip=2 "who calls my caller" etc.

An empty string is returned if skipped levels exceed stack height

int_to_binstr(*i*, *size*)

itersubclasses(*cls*)

Generator over all subclasses of a given class, in depth first order.

```
>>> list(itersubclasses(int)) == [bool]
True
>>> class A(object): pass
>>> class B(A): pass
>>> class C(A): pass
>>> class D(B,C): pass
>>> class E(D): pass
>>>
>>> for cls in itersubclasses(A):
...     print(cls.__name__)
B
D
E
C
>>> # get ALL (new-style) classes currently defined
>>> [cls.__name__ for cls in itersubclasses(object)] #doctest: +ELLIPSIS
['type', ...'tuple', ...]
```

itersubclasses_names(*cls*, *_seen*=None)

get_int_sub_range(*lsb*, *msb*, *orig_val*)

format_sorce_location_info(*src_info*)

get_class_method_names(*obj*, *postfix*='')

retrieve_obj_members(*obj*)

10.2 Variables

Name	Description
htdte_clocks	**Value:** `htd_clocks(htdte_logger)`
__package__	**Value:** `None`
dict_cr_RegFieldsByName	**Value:** {'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'ALL': {'access': '...
dict_cr_RegPropertiesByName	**Value:** {'ACMODE_SAVE_FSCP_PM_REDIRECTIONS': {'addressOffset': 20...
dict_fuse_RegFieldsByName	**Value:** {'Iunit/fp_iunit_hpll_freq': {'access': 'not-available', ...
dict_pcu_ConstByName	**Value:** {'BOOT_FSM_PRE_PCODE_WAKE': {'value': 10}, 'PCODE_INSTR_L...
dict_sig_GetModulePath	**Value:** {'.behavioral.double_sync2': {'path': ['soc_tb.soc.par_dd...
dict_tap_EncodingByName	**Value:** {'AgingPatternTAPonly_CHAIN': {'ir': 274, 'irRtlPath': No...
dict_tap_FieldsByEncoding	**Value:** {0: {'DATA': {'access': 'RO', 'bitOffset': 0, 'bitWidth':...
mname	**Value:** `'collateral_dynamic_members'`
status	**Value:** `1`

10.3 Class htd_action_argument_entry

object
└ **htd_utilities.htd_action_argument_entry**

10.3.1 Methods

__init__(*self*, *argvalue*, *src*, *lsb*=-1, *msb*=-1, *strobe*=0, *label*='', *capture*=0, *mask*=0)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

10.3.2 Properties

Name	Description
Inherited from object	
__class__	

10.4 Class Logger

object
└ **htd_utilities.Logger**

10.4.1 Methods

__del__(*self*)

__init__(*self*, *fileName*)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

callBack_for_extensions(*self*, *line*)

close(*self*)

debug(*self*, *line*, *level*)

error(*self*, *line*)

error_str(*self*, *line*)

inform(*self*, *line*, *distribute_to_callback*=0, *level*=0, *prefix*='Inform')

log(*self*, *line*)

warn(*self*, *line*)

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

10.4.2 Properties

Name	Description
Inherited from object	
__class__	

10.5 Class htd_argument_containter

object
└ **htd_utilities.htd_argument_containter**

10.5.1 Methods

__init__(*self*, *declared_arguments_only_mode*=0)

x.__init__(...) initializes x; see help(type(x)) for signature

Overrides: object.__init__ extit(inherited documentation)

argument_assigned(*self*, *arg*)

argument_is_assigned(*self*, *arg_name*)

declare_arg(*self*, *argname*, *description*, *typeval*, *default_value*='---', *obligatory*=0)

declared_keys(*self*)

ever_accessed(*self*, *argname*)

exists_not_declared_argument(*self*, *argname*)

get_argument(*self*, *argname*, *noerr*=0, *location*='')

get_argument_lsb_msb(*self*, *argname*, *err*=1, *location*='')

get_argument_src(*self*, *argname*, *location*='')

get_declared_argument_indexes(*self*, *argname*, *noerr*=0, *location*='')

get_not_declared_arguments(*self*)

insert_not_declared_argument_value(*self*, *arg_name*, *src*, *arg_value*, *lsb*, *msb*)

is_declared_argument(*self*, *argname*)

is_obligatory_argument(*self*, *argname*)

keys(*self*)

normalize_indexes(*self*, *first*, *second*)

not_declared_keys(*self*)

overrideByOtherArgumentContainer(*self*, *override_arguments*, *filter_mode*=0)

overrideSingleArgument(*self*, *argName*, *value*, *location*='', *lsb*=-1, *msb*=-1)

parse_argument_name_indexation(*self*, *arg_name*)

parse_not_declared_argument_tokens(*self*, *arg_name*, *arg_value*, *lsb*, *msb*)

print_arguments(*self*, *header*='')

print_help(*self*)

set_accessed(*self*, *argname*)

set_argument(*self*, *arg_name*, *arg_value*, *src*='', *lsb*=-1, *msb*=-1)

set_obligatory(*self*, *argname*)

verify_obligatory_arguments(*self*, *header*, *location*='')

Inherited from object

__delattr__(), __format__(), __getattribute__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

10.5.2 Properties

Name	Description
Inherited from object	
__class__	

Index

htd_actions_library_top *(module)*, 3–5
htd_actions_library_top.CACHEPLOAD *(class)*, 4–5
htd_actions_library_top.REG *(class)*, 3–4
htd_basic_action *(module)*, 6–8
htd_basic_action.evaluate_constrain_condition *(function)*, 6
htd_basic_action.htd_base_action *(class)*, 6–8
htd_basic_action.htd_base_action.argument_exists *(method)*, 7
htd_basic_action.htd_base_action.error *(method)*, 7
htd_basic_action.htd_base_action.error_bysrc *(method)*, 7
htd_basic_action.htd_base_action.get_action_arguments *(method)*, 8
htd_basic_action.htd_base_action.get_action_arguments_as_string *(method)*, 8
htd_basic_action.htd_base_action.get_action_callback *(method)*, 7
htd_basic_action.htd_base_action.get_action_class *(method)*, 7
htd_basic_action.htd_base_action.get_action_name *(method)*, 7
htd_basic_action.htd_base_action.get_action_type *(method)*, 7
htd_basic_action.htd_base_action.get_all_arguments *(method)*, 7
htd_basic_action.htd_base_action.get_arguments *(method)*, 7
htd_basic_action.htd_base_action.get_declared_arguments *(method)*, 7
htd_basic_action.htd_base_action.get_not_declared_arguments *(method)*, 7
htd_basic_action.htd_base_action.get_result *(method)*, 7
htd_basic_action.htd_base_action.i_am_htd_base_action_object *(method)*, 7
htd_basic_action.htd_base_action.inform *(method)*, 7
htd_basic_action.htd_base_action.inform_nosrc *(method)*, 7
htd_basic_action.htd_base_action.post_run *(method)*, 8
htd_basic_action.htd_base_action.post_run_place_holder *(method)*, 8
htd_basic_action.htd_base_action.pre_run *(method)*, 8
htd_basic_action.htd_base_action.pre_run_place_holder *(method)*, 8
htd_basic_action.htd_base_action.print_action_arguments *(method)*, 8
htd_basic_action.htd_base_action.run *(method)*, 8
htd_basic_action.htd_base_action.set_result *(method)*, 7
htd_basic_action.htd_base_action.verify_action_arguments *(method)*, 8
htd_basic_action.htd_base_action.verify_arguments *(method)*, 8
htd_basic_action.htd_base_action.verify_obligatory_arg *(method)*, 7
htd_basic_flow *(module)*, 9–15
htd_basic_flow.htd_base_flow *(class)*, 10–13
htd_basic_flow.htd_base_flow.action_override *(method)*, 11
htd_basic_flow.htd_base_flow.actions_override *(method)*, 11
htd_basic_flow.htd_base_flow.connect_ips *(method)*, 12
htd_basic_flow.htd_base_flow.debug_readback *(method)*, 11
htd_basic_flow.htd_base_flow.error *(method)*, 11
htd_basic_flow.htd_base_flow.error_bysrc *(method)*, 11
htd_basic_flow.htd_base_flow.exec_action *(method)*, 12
htd_basic_flow.htd_base_flow.exec_action_obj *(method)*, 12
htd_basic_flow.htd_base_flow.exec_segment *(method)*, 12

htd_basic_flow.htd_base_flow.flow_override *(method)*, 12
htd_basic_flow.htd_base_flow.flow_run *(method)*, 12
htd_basic_flow.htd_base_flow.get_flow_num *(method)*, 11
htd_basic_flow.htd_base_flow.get_flow_type *(method)*, 11
htd_basic_flow.htd_base_flow.get_per_action_cmd_arguments *(method)*, 11
htd_basic_flow.htd_base_flow.help_cmd *(method)*, 11
htd_basic_flow.htd_base_flow.i_am_htd_base_flow_too *(method)*, 11
htd_basic_flow.htd_base_flow.inform *(method)*, 11
htd_basic_flow.htd_base_flow.inform_bysrc *(method)*, 11
htd_basic_flow.htd_base_flow.ip_activate *(method)*, 12
htd_basic_flow.htd_base_flow.ip_connect *(method)*, 12
htd_basic_flow.htd_base_flow.post_flow_run *(method)*, 12
htd_basic_flow.htd_base_flow.post_flow_run_place_holder *(method)*, 12
htd_basic_flow.htd_base_flow.post_verify *(method)*, 11
htd_basic_flow.htd_base_flow.pre_flow_run *(method)*, 12
htd_basic_flow.htd_base_flow.print_flow_arguments *(method)*, 11
htd_basic_flow.htd_base_flow.print_flow_arguments_bysrc *(method)*, 11
htd_basic_flow.htd_base_flow.set_flow_arguments *(method)*, 11
htd_basic_flow.htd_base_flow.verify_obligatory_arguments *(method)*, 11
htd_basic_flow.htd_flow_segment *(class)*, 14–15
htd_basic_flow.htd_flow_segment.error *(method)*, 14
htd_basic_flow.htd_flow_segment.error_bysrc *(method)*, 14
htd_basic_flow.htd_ip_segment *(class)*, 13–14
htd_basic_flow.htd_ip_segment.enable_ip_segment *(method)*, 13
htd_basic_flow.htd_ip_segment.error *(method)*, 13
htd_basic_flow.htd_ip_segment.error_bysrc *(method)*, 13
htd_basic_flow.htd_ip_segment.execute_interface_meth *(method)*, 13
htd_basic_flow.htd_ip_segment.get_interface_method *(method)*, 13
htd_basic_flow.htd_ip_segment.get_interface_method_d *(method)*, 13
htd_basic_flow.htd_ip_segment.get_ip_name *(method)*, 13
htd_basic_flow.htd_ip_segment.is_debug_interface_meth *(method)*, 13
htd_basic_flow.htd_ip_segment.is_ip_segment_enabled *(method)*, 13
htd_basic_flow.htd_segment *(class)*, 9–10
htd_basic_flow.htd_segment.assign_arguments_contain *(method)*, 10
htd_basic_flow.htd_segment.declare_interface *(method)*, 10
htd_basic_flow.htd_segment.exec_action *(method)*, 10
htd_basic_flow.htd_segment.get_currentflow *(method)*, 10
htd_basic_flow.htd_segment.print_interface_arguments *(method)*, 10
htd_clocks *(module)*, 16–17
htd_clocks.htd_clocks *(class)*, 16–17
htd_clocks.htd_clocks.add_new_clock *(method)*, 16
htd_clocks.htd_clocks.check_for_unassigned_clock_ratio *(method)*, 16
htd_clocks.htd_clocks.clock_transpose *(method)*, 16
htd_clocks.htd_clocks.get_all_clocks *(method)*, 16
htd_clocks.htd_clocks.get_clock_rtl_path *(method)*, 16
htd_clocks.htd_clocks.get_default *(method)*,

16
htd_clocks.htd_clocks.is_clock *(method)*, 16
htd_clocks.htd_clocks.is_transposed_clock_modulo *(method)*, 17
htd_clocks.htd_clocks.set_clock_rate *(method)*, 16
htd_clocks.htd_clocks.set_default *(method)*, 16
htd_collaterals *(module)*, 18–20
htd_collaterals.htd_collaterals *(class)*, 18–20
htd_collaterals.htd_collaterals.add_normilized_string_collateral_dictionary *(method)*, 19
htd_collaterals.htd_collaterals.apply_current_dictionary_collaterals *(method)*, 19
htd_collaterals.htd_collaterals.apply_current_dictionary_collaterals_to_collateral *(method)*, 19
htd_collaterals.htd_collaterals.apply_current_dictionary_collaterals_to_collateral_entry *(method)*, 19
htd_collaterals.htd_collaterals.cfg_getint *(method)*, 18
htd_collaterals.htd_collaterals.cfg_getstr *(method)*, 18
htd_collaterals.htd_collaterals.create_dynamic_methods_module *(method)*, 20
htd_collaterals.htd_collaterals.findChildNodeByName *(method)*, 19
htd_collaterals.htd_collaterals.get_col_pickle_name *(method)*, 18
htd_collaterals.htd_collaterals.get_collateral_file_info *(method)*, 18
htd_collaterals.htd_collaterals.get_int_value *(method)*, 19
htd_collaterals.htd_collaterals.get_xml_tree_str *(method)*, 20
htd_collaterals.htd_collaterals.get_xml_value_by_comb_name *(method)*, 19
htd_collaterals.htd_collaterals.getChildNodeValByName *(method)*, 19
htd_collaterals.htd_collaterals.is_single_node_hierarchy *(method)*, 19
htd_collaterals.htd_collaterals.parse_all_collaterals *(method)*, 19
htd_collaterals.htd_collaterals.read_cfg *(method)*, 18
htd_collaterals.htd_collaterals.read_cfg_file *(method)*, 18
htd_collaterals.htd_collaterals.read_combined_xml_cfg *(method)*, 19
htd_collaterals.htd_collaterals.read_te_cfg *(method)*, 19
htd_collaterals.htd_collaterals.traverse_cfg_xml_node *(method)*, 18
htd_collaterals.htd_collaterals.traverse_nodes_by_path *(method)*, 19
htd_collaterals.htd_collaterals.traverse_single_node_by *(method)*, 19
htd_collaterals.htd_collaterals.traverse_single_xml_nod *(method)*, 19
htd_collaterals.htd_collaterals.traverse_xml_entry *(method)*, 19
htd_gen_action *(module)*, 21–22
htd_gen_action.GEN *(class)*, 21–22
htd_signal_action *(module)*, 23–24
htd_signal_action.SIG *(class)*, 23–24
htd_tap_action *(module)*, 25–26
htd_tap_action.TAP *(class)*, 25–26
htd_tap_action.TAP.debug_readback *(method)*, 25
htd_utilities *(module)*, 28–33
htd_utilities.caller_name *(function)*, 28
htd_utilities.dynamic_load_external_module *(function)*, 28
htd_utilities.execute_all_flow_in_module *(function)*, 28
htd_utilities.format_sorce_location_info *(function)*, 29
htd_utilities.get_class_method_names *(function)*, 29
htd_utilities.get_int_sub_range *(function)*, 28
htd_utilities.htd_action_argument_entry *(class)*, 29–30
htd_utilities.htd_argument_containter *(class)*, 31–33
htd_utilities.htd_argument_containter.argument_assign

(method), 31
htd_utilities.htd_argument_containter.argumentIsAssigned
(method), 31
htd_utilities.htd_argument_containter.declare_arg
(method), 31
htd_utilities.htd_argument_containter.declared_keys
(method), 32
htd_utilities.htd_argument_containter.ever_accessed
(method), 32
htd_utilities.htd_argument_containter.exists_not_declared_argument
(method), 32
htd_utilities.htd_argument_containter.get_argument
(method), 32
htd_utilities.htd_argument_containter.get_argument_list
(method), 32
htd_utilities.htd_argument_containter.get_argument_str
(method), 32
htd_utilities.htd_argument_containter.get_declared_argument
(method), 32
htd_utilities.htd_argument_containter.get_not_declared_argument
(method), 32
htd_utilities.htd_argument_containter.insert_not_declared_argument_value
(method), 32
htd_utilities.htd_argument_containter.is_declared_argument
(method), 32
htd_utilities.htd_argument_containter.is_obligatory_argument
(method), 32
htd_utilities.htd_argument_containter.keys
(method), 32
htd_utilities.htd_argument_containter.normalize_indexes
(method), 32
htd_utilities.htd_argument_containter.not_declared_keys
(method), 32
htd_utilities.htd_argument_containter.overrideByOtherArgumentContainer
(method), 32
htd_utilities.htd_argument_containter.overrideSingleArgument
(method), 32
htd_utilities.htd_argument_containter.parse_argument_name_indexation
(method), 32
htd_utilities.htd_argument_containter.parse_not_declared_argument_tokens
(method), 32
htd_utilities.htd_argument_containter.print_arguments
(method), 33
htd_utilities.htd_argument_containter.print_help
(method), 33
htd_utilities.htd_argument_containter.set_accessed
(method), 33
htd_utilities.htd_argument_containter.set_argument
(method), 33
htd_utilities.htd_argument_containter.set_obligatory
(method), 33
htd_utilities.htd_argument_containter.verify_obligatory
(method), 33
htd_utilities.list_to_str *(function)*, 28
htd_utilities.itersubclasses *(function)*, 28
htd_utilities.itersubclasses_names *(function)*, 28
htd_utilities.list_resize *(function)*, 28
htd_utilities.Logger *(class)*, 30–31
htd_utilities.Logger.__del__ *(method)*, 30
htd_utilities.Logger.callBack_for_extensions *(method)*, 30
htd_utilities.Logger.close *(method)*, 30
htd_utilities.Logger.debug *(method)*, 30
htd_utilities.Logger.error *(method)*, 30
htd_utilities.Logger.format_str *(method)*, 31
htd_utilities.Logger.inform *(method)*, 31
htd_utilities.Logger.log *(method)*, 31
htd_utilities.Logger.warn *(method)*, 31
htd_utilities.retrieve_obj_members *(function)*, 29