

root	=> => xd_high_page :num_val => xd_user_root : user_root => xd_source_list :sourceline => xd_err_count :num_val => spare_1 :void ; => => xd_number :num_val => xd_error_list :error ; => => => xd_srcpos :Source_Position => xd_text :txtrep ; => ; => => xd_sourcename :txtrep => xd_grammar :void => xd_statelist :void => xd_structure : compilation => xd_timestamp :Integer => spare_3 :void ; => => as_compltn_unit_s : compltn_unit_s => lx_srcpos :Source_Position ; => => as_list : compilation_unit => lx_srcpos :Source_Position ; => => as_context_elem_s : explications => as_all_decl : ALL_DECL => as_pragma_s : pragma_s => lx_srcpos :Source_Position => xd_timestamp :Integer => xd_with_list :trans_with => xd_nbr_pages :Integer => xd_parent :compilation_unit => xd_lib_name : symbol_rep ;	pragma_s => => as_list : pragma => lx_srcpos :Source_Position ; symbol_rep => => xd_text :txtrep => xd_deflist :DEF_NAME ; false => true => nil => ; list => => xd_head :void => xd_tail :void ; hash => => xd_list :symbol_rep ; void => ;
ALL_SOURCE > CONTEXT_ELEM		
compilation	context_elem_s => => as_list : CONTEXT_ELEM => lx_srcpos :Source_Position ;	
compltn_unit_s	context_pragma => => as_pragma : pragma => lx_srcpos :Source_Position ; with => => as_name_s : name_s => as_use_pragma_s : use_pragma_s => lx_srcpos :Source_Position ;	
compilation_unit		

ALL_SOURCE > ALL_DECL			ALL_SOURCE > ALL_DECL > ITEM > DECL > ID_DECL			> ITEM > DECL > ID_DECL > UNIT_DECL > NON_GENERIC_DECL		
subunit	=> => as_name :NAME => as_subunit_body :SUBUNIT_BODY => lx_srcpos :Source_Position ;		type_decl	=> => as_source_name :SOURCE_NAME => as_dscrmt_decl_s :dscrmt_decl_s => as_type_def :TYPE_DEF => lx_srcpos :Source_Position ;		subprog_entry_decl	=> => as_source_name :SOURCE_NAME => as_header :HEADER => as_unit_kind :UNIT_KIND => lx_srcpos :Source_Position ;	
block_master	=> => lx_srcpos :Source_Position => sm_stm :STM ;		subtype_decl	=> => as_source_name :SOURCE_NAME => as_subtype_indication :subtype_indication => lx_srcpos :Source_Position ;		package_decl	=> => as_source_name :SOURCE_NAME => as_header :HEADER => as_unit_kind :UNIT_KIND => lx_srcpos :Source_Position ;	
ALL_SOURCE > ALL_DECL > ITEM			task_decl	=> => as_source_name :SOURCE_NAME => as_decl_s :decl_s => lx_srcpos :Source_Position ;		DECL > ITEM > DECL > ID_S_DECL	exception_decl	=> => as_source_name_s :source_name_s => lx_srcpos :Source_Position ;
item_s	=> => as_list :ITEM => lx_srcpos :Source_Position ;			=> => as_source_name :SOURCE_NAME => as_decl_s :decl_s => lx_srcpos :Source_Position ;				=> => as_source_name_s :source_name_s => lx_srcpos :Source_Position ;
ALL_SOURCE > ALL_DECL > ITEM > SUBUNIT_BODY			> ALL_DECL > ITEM > DECL > ID_DECL > SIMPLE_RENAME			DEFERRED_CONSTANT_DECL		
subprogram_body	=> => as_source_name :SOURCE_NAME => as_body :BODY => as_header :HEADER => lx_srcpos :Source_Position ;		renames_obj_decl	=> => as_source_name :SOURCE_NAME => as_name :NAME => as_type_mark_name :NAME => lx_srcpos :Source_Position ;		deferred_constant_decl	=> => as_source_name_s :source_name_s => lx_srcpos :Source_Position ;	
package_body	=> => as_source_name :SOURCE_NAME => as_body :BODY => lx_srcpos :Source_Position ;		renames_exc_decl	=> => as_source_name :SOURCE_NAME => as_name :NAME => lx_srcpos :Source_Position ;		> ITEM > DECL > ID_S_DECL > EXP_DECL		
task_body	=> => as_source_name :SOURCE_NAME => as_body :BODY => lx_srcpos :Source_Position ;		> ALL_DECL > ITEM > DECL > ID_DECL > UNIT_DECL			number_decl	=> => as_source_name_s :source_name_s => as_exp :EXP => lx_srcpos :Source_Position ;	
ALL_SOURCE > ALL_DECL > ITEM > DECL			generic_decl	=> => as_source_name :SOURCE_NAME => as_header :HEADER => as_item_s :item_s => lx_srcpos :Source_Position ;		constant_decl	=> => as_source_name_s :source_name_s => as_exp :EXP => as_type_def :TYPE_DEF => lx_srcpos :Source_Position ;	
decl_s	=> => as_list :DECL => lx_srcpos :Source_Position ;					variable_decl	=> => as_source_name_s :source_name_s => as_exp :EXP => as_type_def :TYPE_DEF => lx_srcpos :Source_Position ;	
null_comp_decl	=> => lx_srcpos :Source_Position ;							

ALL_SOURCE > ALL_DECL > ITEM > DECL > REP	ALL_SOURCE > ALL_DECL > ITEM > DSCRMT_PARAM_DECL
record_rep => (explications) => as_name :NAME => as_alignment_clause :ALIGNMENT_CLAUSE => as_comp_rep_s :comp_rep_s => lx_srcpos :Source_Position ;	dscrmt_decl_s => => as_list :dscrmt_decl => lx_srcpos :Source_Position ; dscrmt_decl => => as_source_name_s :source_name_s => as_name :NAME => as_exp :EXP => lx_srcpos :Source_Position ;
ALL_SOURCE > ALL_DECL > ITEM > DECL > REP > NAMED REP	ALL_SOURCE > ALL_DECL > ITEM > DSCRMT_PARAM_DECL > PARAM
address => (explications) => as_name :NAME => as_exp :EXP => lx_srcpos :Source_Position ;	param_s => => as_list :PARAM => lx_srcpos :Source_Position ;
length_enum_rep => => as_name :NAME => as_exp :EXP => lx_srcpos :Source_Position ;	in => => as_source_name_s :source_name_s => as_name :NAME => as_exp :EXP => lx_srcpos :Source_Position => lx_default :BOOLEAN ;;
ALL_SOURCE > ALL_DECL > ITEM > DECL > USE_PRAGMA	ALL_SOURCE > ALL_DECL > ITEM > DSCRMT_PARAM_DECL > PARAM
use_pragma_s => => as_list :USE_PRAGMA => lx_srcpos :Source_Position ;	out => => as_source_name_s :source_name_s => as_name :NAME => as_exp :EXP => lx_srcpos :Source_Position ;
use => => as_name_s :name_s => lx_srcpos :Source_Position ;	in_out => => as_source_name_s :source_name_s => as_name :NAME => as_exp :EXP => lx_srcpos :Source_Position ;
pragma => => as_used_name_id :used_name_id => as_general_assoc_s :general_assoc_s => lx_srcpos :Source_Position ;	=> => as_source_name_s :source_name_s => as_name :NAME => as_exp :EXP => lx_srcpos :Source_Position ;

ALL_SOURCE > ALIGNMENT_CLAUSE			ALL_SOURCE > UNIT_DESC > BODY			ALL_SOURCE > UNIT_DESC > UNIT_KIND		
alignment => => as_pragma_s :pragma_s => as_exp :EXP => lx_srcpos :Source_Position ;	block_body => => as_item_s :item_s => as_stm_s :stm_s => as_alternative_s :alternative_s => lx_srcpos :Source_Position => cd_level :Integer => cd_return_label :Integer => cd_result_offset :Integer ; => => lx_srcpos :Source_Position ;	renames_unit => => as_name :NAME => lx_srcpos :Source_Position ; => => as_name :NAME => as_general_assoc_s :general_assoc_s => lx_srcpos :Source_Position => sm_decl_s :decl_s ; => => as_name :NAME => lx_srcpos :Source_Position ; => => lx_srcpos :Source_Position ;	renames_unit => => as_name :NAME => lx_srcpos :Source_Position ;	instantiation => => as_name :NAME => as_general_assoc_s :general_assoc_s => lx_srcpos :Source_Position => sm_decl_s :decl_s ; => => as_name :NAME => lx_srcpos :Source_Position ;	instantiation => => as_name :NAME => as_general_assoc_s :general_assoc_s => lx_srcpos :Source_Position => sm_decl_s :decl_s ; => => as_name :NAME => lx_srcpos :Source_Position ;	name_default => => as_name :NAME => lx_srcpos :Source_Position ;	box_default => => as_name :NAME => lx_srcpos :Source_Position ;	no_default => => as_name :NAME => lx_srcpos :Source_Position ;
ALL_SOURCE > COMP REP ELEM			comp_rep_s => => as_list :COMP REP ELEM => lx_srcpos :Source_Position ;		comp_rep => => as_name :NAME => as_exp :EXP => as_range :RANGE => lx_srcpos :Source_Position ; => => as_pragma :pragma => lx_srcpos :Source_Position ;	ALL_SOURCE > ALTERNATIVE_ELEM alternative_s => => as_list :ALTERNATIVE_ELEM => lx_srcpos :Source_Position ;	alternative => => as_choice_s :choice_s => as_stm_s :stm_s => lx_srcpos :Source_Position ; => => as_pragma :pragma => lx_srcpos :Source_Position ;	
ALL_SOURCE > HEADER	package_spec => => as_decl_s1 :decl_s => as_decl_s2 :decl_s => lx_srcpos :Source_Position => xd_body_is_required :BOOLEAN ;	alternative_pragma => => as_list :ALTERNATIVE_ELEM => lx_srcpos :Source_Position ;	choice_s => => as_list :CHOICE => lx_srcpos :Source_Position => cd_label :Integer ;	choice_exp => => as_exp :EXP => lx_srcpos :Source_Position ;	choice_range => => as_discrete_range :DISCRETE_RANGE => lx_srcpos :Source_Position ;	choice_others => => lx_srcpos :Source_Position ;	choice_others => => as_name :NAME => lx_srcpos :Source_Position ;	choice_others => => as_name :NAME => lx_srcpos :Source_Position ;
ALL_SOURCE > HEADER > SUBP_ENTRY_HEADER			procedure_spec => => as_param_s :param_s => lx_srcpos :Source_Position ; function_spec => => as_param_s :param_s => as_name :NAME => lx_srcpos :Source_Position ; entry => => as_param_s :param_s => as_discrete_range :DISCRETE_RANGE => lx_srcpos :Source_Position ;			choice_exp => => as_exp :EXP => lx_srcpos :Source_Position ; choice_range => => as_discrete_range :DISCRETE_RANGE => lx_srcpos :Source_Position ;	choice_others => => lx_srcpos :Source_Position ;	choice_others => => as_name :NAME => lx_srcpos :Source_Position ;

ALL_SOURCE > TYPE_DEF		
enumeration_def => => as_enum_literal_s :enum_literal_s => lx_srcpos :Source_Position ; => => as_comp_list :comp_list => lx_srcpos :Source_Position ; formal_integer_def => => lx_srcpos :Source_Position ; formal_fixed_def => => lx_srcpos :Source_Position ; formal_float_def => => lx_srcpos :Source_Position ; private_def => => lx_srcpos :Source_Position ; l_private_def => => lx_srcpos :Source_Position ;	ALL_SOURCE > TYPE_DEF > ARR_ACC_DER_DEF <pre> constrained_array_def => => as_subtype_indication :subtype_indication => as_constraint :CONSTRAINT => lx_srcpos :Source_Position ; unconstrained_array_def => => as_subtype_indication :subtype_indication => as_index_s :index_s => lx_srcpos :Source_Position ; access_def => => as_subtype_indication :subtype_indication => lx_srcpos :Source_Position ; derived_def => => as_subtype_indication :subtype_indication => lx_srcpos :Source_Position => xd_derived_subprog_list :SUBPROG_NAME ; => => as_subtype_indication :subtype_indication => lx_srcpos :Source_Position => xd_derived_subprog_list :SUBPROG_NAME ; => => as_subtype_indication :subtype_indication => lx_srcpos :Source_Position => xd_derived_subprog_list :SUBPROG_NAME ; formal_dscrt_def => => as_constraint :CONSTRAINT => lx_srcpos :Source_Position ; </pre>	ALL_SOURCE > VARIANT_PART <pre> variant_part => => as_name :NAME => as_variant_s :variant_s => lx_srcpos :Source_Position ; </pre>
ALL_SOURCE > VARIANT_ELEM		
ALL_SOURCE > CONSTRAINT		
ALL_SOURCE > CONSTRAINT > REAL_CONSTRAINT		

ALL_SOURCE > CONSTRAINT > DISCRETE_RANGE

```
discrete_range_s      =>
=> as_list           :DISCRETE_RANGE
=> lx_srcpos         :Source_Position
;
-----
discrete_subtype      =>
=> as_subtype_indication
:&subotype_indication
=> lx_srcpos         :Source_Position
;
```

ALL_SOURCE > CONSTRAINT > DISCRETE_RANGE > RANGE

```
range                =>
=> as_exp1           :EXP
=> as_exp2           :EXP
=> lx_srcpos         :Source_Position
=> sm_type_spec     :TYPE_SPEC
;
range_attribute       =>
=> as_name            :NAME
=> as_used_name_id   :used_name_id
=> as_exp             :EXP
=> lx_srcpos         :Source_Position
=> sm_type_spec     :TYPE_SPEC
;
```

ALL_SOURCE > STM_ELEM			ALL_SOURCE > STM_ELEM > STM > STM_WITH_EXP			ALL_SOURCE > STM_ELEM > STM > STM_WITH_NAME > CALLSTM		
stm_s => => as_list :STM_ELEM => lx_srcpos :Source_Position ;	return => => as_exp :EXP => lx_srcpos :Source_Position ;	entry_call => => as_name :NAME => as_general_assoc_s :general_assoc_s => lx_srcpos :Source_Position => sm_normalized_param_s :exp_s ; <td>case => => as_exp :EXP => as_alternative_s :alternative_s => lx_srcpos :Source_Position ;<td>procedure_call => => as_name :NAME => as_general_assoc_s :general_assoc_s => lx_srcpos :Source_Position => sm_normalized_param_s :exp_s ;</td><td>procedure_call => => as_name :NAME => as_general_assoc_s :general_assoc_s => lx_srcpos :Source_Position => sm_normalized_param_s :exp_s ;</td></td>	case => => as_exp :EXP => as_alternative_s :alternative_s => lx_srcpos :Source_Position ; <td>procedure_call => => as_name :NAME => as_general_assoc_s :general_assoc_s => lx_srcpos :Source_Position => sm_normalized_param_s :exp_s ;</td> <td>procedure_call => => as_name :NAME => as_general_assoc_s :general_assoc_s => lx_srcpos :Source_Position => sm_normalized_param_s :exp_s ;</td>	procedure_call => => as_name :NAME => as_general_assoc_s :general_assoc_s => lx_srcpos :Source_Position => sm_normalized_param_s :exp_s ;	procedure_call => => as_name :NAME => as_general_assoc_s :general_assoc_s => lx_srcpos :Source_Position => sm_normalized_param_s :exp_s ;			
stm_pragma => => as_pragma :pragma => lx_srcpos :Source_Position ;	delay => => as_exp :EXP => lx_srcpos :Source_Position ;	loop => => as_source_name_s :source_name_s => as_pragma_s :pragma_s => as_stm :STM => lx_srcpos :Source_Position ;	exit => => as_exp :EXP => as_name :NAME => lx_srcpos :Source_Position => sm_stm :STM ;	block => => as_source_name :SOURCE_NAME => as_iteration :ITERATION => as_stm_s :stm_s => lx_srcpos :Source_Position => cd_level :Integer => cd_after_loop :Integer ;	block => => as_source_name :SOURCE_NAME => as_block_body :block_body => lx_srcpos :Source_Position ;			
ALL_SOURCE > STM_ELEM > STM	> STM_ELEM > STM > STM_WITH_EXP > STM_WITH_EXP_NAME			ALL_SOURCE > STM_ELEM > STM > BLOCK_LOOP			ALL_SOURCE > STM_ELEM > STM > ENTRY_STM	
null_stm => => lx_srcpos :Source_Position ; <td>assign => => as_exp :EXP => as_name :NAME => lx_srcpos :Source_Position ;</td> <td>cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;</td> <td>raise => => as_name :NAME => lx_srcpos :Source_Position ;</td> <td>timed_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;</td> <td>cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;</td>	assign => => as_exp :EXP => as_name :NAME => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;	raise => => as_name :NAME => lx_srcpos :Source_Position ;	timed_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;			
labeled => => as_source_name_s :source_name_s => as_pragma_s :pragma_s => as_stm :STM => lx_srcpos :Source_Position ;	code => => as_exp :EXP => as_name :NAME => lx_srcpos :Source_Position ;	gototo => => as_name :NAME => lx_srcpos :Source_Position ;	raise => => as_name :NAME => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;			
abort => => as_name_s :name_s => lx_srcpos :Source_Position ;	code => => as_exp :EXP => as_name :NAME => lx_srcpos :Source_Position ;	timed_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;	raise => => as_name :NAME => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;			
accept => => as_name :NAME => as_param_s :param_s => as_stm_s :stm_s => lx_srcpos :Source_Position ;	code => => as_exp :EXP => as_name :NAME => lx_srcpos :Source_Position ;	timed_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;	raise => => as_name :NAME => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;			
terminate => => lx_srcpos :Source_Position ;	code => => as_exp :EXP => as_name :NAME => lx_srcpos :Source_Position ;	timed_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;	raise => => as_name :NAME => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;			
ALL_SOURCE > STM_ELEM > STM > CLAUSES_STM	ALL_SOURCE > STM_ELEM > STM > STM_WITH_NAME			ALL_SOURCE > STM_ELEM > STM > ENTRY_STM			ALL_SOURCE > STM_ELEM > STM > CALLSTM	
if => => as_test_clause_elem_s :test_clause_elem_s => as_stm_s :stm_s => lx_srcpos :Source_Position ;	raise => => as_name :NAME => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;	raise => => as_name :NAME => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;			
selective_wait => => as_test_clause_elem_s :test_clause_elem_s => as_stm_s :stm_s => lx_srcpos :Source_Position ;	raise => => as_name :NAME => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;	raise => => as_name :NAME => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;	cond_entry => => as_stm_s1 :stm_s => as_stm_s2 :stm_s => lx_srcpos :Source_Position ;			

ALL_SOURCE > ITERATION

```
for          =>
=> as_source_name :SOURCE_NAME
=> as_discrete_range :DISCRETE_RANGE
=> lx_srcpos       :Source_Position
;
reverse      =>
=> as_source_name :SOURCE_NAME
=> as_discrete_range :DISCRETE_RANGE
=> lx_srcpos       :Source_Position
;
while        =>
=> as_exp         :EXP
=> lx_srcpos       :Source_Position
;
```

ALL_SOURCE > TEST_CLAUSE_ELEM

```
test_clause_elem_s    =>
=> as_list           :TEST_CLAUSE_ELEM
=> lx_srcpos         :Source_Position
;
cond_clause          =>
=> as_exp            :EXP
=> as_stm_s          :stm_s
=> lx_srcpos         :Source_Position
;
select_alternative   =>
=> as_exp            :EXP
=> as_stm_s          :stm_s
=> lx_srcpos         :Source_Position
;
select_alt_pragma    =>
=> as_pragma         :pragma
=> lx_srcpos         :Source_Position
;
```

GENERAL_ASSOC						
general_assoc_s	=> => as_list :GENERAL_ASSOC => lx_srcpos :Source_Position ;		=> as_used_name_id :used_name_id => as_exp :EXP => lx_srcpos :Source_Position ;	aggregate	=> => as_general_assoc_s :general_assoc_s => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_discrete_range :DISCRETE_RANGE => sm_normalized_comp_s :general_assoc_s ;	;
named	=> => as_exp :EXP => as_choice_s :choice_s => lx_srcpos :Source_Position ;	selected	=> => as_name :NAME => as_designator :DESIGNATOR => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_value :Value ;	string_literal	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_exp_type :TYPE_SPEC => sm_discrete_range :DISCRETE_RANGE ;	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_exp_type :TYPE_SPEC => sm_discrete_range :DISCRETE_RANGE ;
assoc	=> => as_exp :EXP => as_used_name :USED_NAME => lx_srcpos :Source_Position ;	function_call	=> => as_name :NAME => as_general_assoc_s :general_assoc_s => lx_srcpos :Source_Position => lx_prefix :BOOLEAN => sm_exp_type :TYPE_SPEC => sm_value :Value => sm_normalized_param_s :exp_s : => => as_name :NAME => as_exp_s :exp_s => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC : => => as_name :NAME => as_discrete_range :DISCRETE_RANGE => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC : => => as_name :NAME => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC :	numeric_literal	=> => lx_srcpos :Source_Position => lx_numrep :Number_Rep => sm_exp_type :TYPE_SPEC => sm_value :Value ;	=> => lx_srcpos :Source_Position => lx_numrep :Number_Rep => sm_exp_type :TYPE_SPEC => sm_value :Value ;
GENERAL_ASSOC > EXP						
exp_s	=> => as_list :EXP => lx_srcpos :Source_Position ;		=> => sm_normalized_param_s :exp_s : => => as_name :NAME => as_exp_s :exp_s => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC : => => as_name :NAME => as_discrete_range :DISCRETE_RANGE => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC : => => as_name :NAME => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC :	null_access	=> => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_value :Value ;	=> => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_value :Value ;
GENERAL_ASSOC > EXP > NAME						
name_s	=> => as_list :NAME => lx_srcpos :Source_Position ;	indexed	=> => as_name :NAME => as_exp_s :exp_s => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC : => => as_name :NAME => as_discrete_range :DISCRETE_RANGE => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC : => => as_name :NAME => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC :	short_circuit	=> => as_exp1 :EXP => as_short_circuit_op :SHORT_CIRCUIT_OP => as_exp2 :EXP => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_value :Value ;	=> => as_exp1 :EXP => as_short_circuit_op :SHORT_CIRCUIT_OP => as_exp2 :EXP => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_value :Value ;
used_char	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_defn :DEF_NAME => sm_exp_type :TYPE_SPEC => sm_value :Value ;	slice	=> => as_name :NAME => as_discrete_range :DISCRETE_RANGE => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC : => => as_name :NAME => as_discrete_range :DISCRETE_RANGE => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC : => => as_name :NAME => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC :	parenthesized	=> => as_exp :EXP => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_value :Value ;	=> => as_exp :EXP => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_value :Value ;
used_object_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_defn :DEF_NAME => sm_exp_type :TYPE_SPEC => sm_value :Value ;	all	=> => as_name :NAME => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC : => => as_name :NAME => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC :	conversion	=> => as_exp :EXP => as_name :NAME => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_value :Value ;	=> => as_exp :EXP => as_name :NAME => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_value :Value ;
GENERAL_ASSOC > EXP > EXP_EXP						
used_op	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_defn :DEF_NAME => sm_exp_type :TYPE_SPEC => sm_value :Value ;	qualified_allocator	=> => as_qualified :qualified => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC : => => as_subtype_indication :subtype_indication => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_desig_type :TYPE_SPEC	qualified	=> => as_exp :EXP => as_name :NAME => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_value :Value ;	=> => as_exp :EXP => as_name :NAME => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_value :Value ;
used_name_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_defn :DEF_NAME ;	subtype_allocator				
attribute	=> => as_name :NAME					

	=> sm_value :Value ; => => as_exp :EXP => as_membership_op : MEMBERSHIP_OP => as_range :RANGE => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_value :Value ;
range_membership	
	=> => as_exp :EXP => as_membership_op : MEMBERSHIP_OP => as_name :NAME => lx_srcpos :Source_Position => sm_exp_type :TYPE_SPEC => sm_value :Value ;
type_membership	
	SHORT_CIRCUIT_OP
and_then	=> => lx_srcpos :Source_Position ;
or_else	=> => lx_srcpos :Source_Position ;
	MEMBERSHIP_OP
in_op	=> => lx_srcpos :Source_Position ;
not_in	=> => lx_srcpos :Source_Position ;

TYPE_SPEC		
universal_integer	=> ; ;	=> cd_compiled :BOOLEAN => cd_impl_size :Integer => cd_impl_small :Value => cd_impl_size :Integer ; => => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN => sm_base_type :TYPE_SPEC => sm_range :RANGE => sm_accuracy :Value => xd_source_name :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer
universal_fixed	=> ; ;	float ;
universal_real	=> ; ;	=> => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN => sm_base_type :TYPE_SPEC => sm_range :RANGE => sm_accuracy :Value => xd_source_name :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer
incomplete	=> ; => => sm_discriminant_s :dscrmt_decl_s => xd_source_name :SOURCE_NAME => xd_full_type_spec :TYPE_SPEC ;	record ;
SCALAR		
scalar_s	=> => as_list :SCALAR => lx_srcpos :Source_Position ; => => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN => sm_base_type :TYPE_SPEC => sm_range :RANGE => sm_literal_s :enum_literal_s => xd_source_name :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer => cd_compiled :BOOLEAN => cd_impl_size :Integer ;	constrained_record => => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN => sm_base_type :TYPE_SPEC => sm_depends_on_dscrmt :BOOLEAN => sm_normalized_dscrmt_s :exp_s => xd_source_name :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer => cd_compiled :BOOLEAN => cd_impl_size :Integer => cd_alignment :Integer ;
enumeration	;	CONSTRINED
integer	=> => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN => sm_base_type :TYPE_SPEC => sm_range :RANGE => xd_source_name :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer => cd_compiled :BOOLEAN => cd_impl_size :Integer ;	constrained_array => => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN => sm_base_type :TYPE_SPEC => sm_depends_on_dscrmt :BOOLEAN => sm_index_subtype_s :scalar_s => xd_source_name :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer => cd_compiled :BOOLEAN => cd_impl_size :Integer => cd_alignment :Integer => cd_offset :Integer => cd_dimensions :Integer ;
fixed	; => => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN => sm_base_type :TYPE_SPEC => sm_range :RANGE => sm_accuracy :Value => xd_source_name :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer	constrained_access => => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN
		=> sm_base_type :TYPE_SPEC => sm_depends_on_dscrmt :BOOLEAN => sm_desig_type :TYPE_SPEC => xd_source_name :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer => cd_compiled :BOOLEAN => cd_impl_size :Integer => cd_alignment :Integer ; => => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN => sm_base_type :TYPE_SPEC => sm_size :EXP => sm_is_limited :BOOLEAN => sm_is_packed :BOOLEAN => sm_discriminant_s :dscrmt_decl_s => sm_comp_list :comp_list => sm_representation :REP => xd_source_name :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer => cd_compiled :BOOLEAN ; => => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN => sm_base_type :TYPE_SPEC => sm_size :EXP => sm_is_limited :BOOLEAN => sm_is_packed :BOOLEAN => sm_index_s :index_s => sm_comp_type :TYPE_SPEC => xd_source_name :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer => cd_compiled :BOOLEAN ; => => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN => sm_base_type :TYPE_SPEC => sm_size :EXP => sm_storage_size :EXP => sm_is_controlled :BOOLEAN => sm_desig_type :TYPE_SPEC => sm_master :ALL_DECL => xd_source_name :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer

	=> cd_compiled :BOOLEAN => cd_offset :Integer => cd_constrained :BOOLEAN ; => => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN => sm_discriminant_s :dscrmt_decl_s => sm_type_spec :TYPE_SPEC => xd_source_name :SOURCE_NAME ; => => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN => sm_discriminant_s :dscrmt_decl_s => sm_type_spec :TYPE_SPEC => xd_source_name :SOURCE_NAME ; => => sm_derived :TYPE_SPEC => sm_is_anonymous :BOOLEAN => sm_decl_s :decl_s => sm_body :BODY => sm_address :EXP => sm_size :EXP => sm_storage_size :EXP => xd_source_name :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer => cd_compiled :BOOLEAN => xd_stub :stub => xd_body :SUBUNIT_BODY ; => => xd_numer :num_val => xd_denom :num_val ; => => tw_filename :txtrrep => tw_comp_unit :compilation_unit ; => => xd_short :txtrrep => xd_primary :txtrrep => xd_secondary :txtrrep ; => => xd_header :HEADER => xd_source_name :SOURCE_NAME => xd_region_def :def => xd_is_in_spec :BOOLEAN => xd_lex_level :Integer		=> xd_is_used :BOOLEAN ; any_access => ; any_composite => ; any_string => ; any_access_of => => xd_item :ITEM ; any_integer => ; any_real => ; implicit_conv => => xd_item :ITEM => xd_list :EXP ; nullary_call => => xd_item :ITEM ;	
private				
l_private				
task_spec				
real_val				
trans_with				
lib_info				
def				

DEF_NAME > SOURCE_NAME						
source_name_s	=> => as_list :SOURCE_NAME => lx_srcpos :Source_Position ;		=> sm_obj_type :TYPE_SPEC => sm_init_exp :EXP => sm_comp_rep :COMP REP ELEM => sm_first :DEF_NAME => xd_region :SOURCE_NAME ;			=> xd_region :SOURCE_NAME ;
variable_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_obj_type :TYPE_SPEC => sm_init_exp :EXP => sm_renames_obj :BOOLEAN => sm_address :EXP => sm_is_shared :BOOLEAN => xd_region :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer => cd_offset :Integer => cd_compiled :BOOLEAN ;	in_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_obj_type :TYPE_SPEC => sm_init_exp :EXP => sm_renames_obj :BOOLEAN => sm_address :EXP => sm_is_shared :BOOLEAN => xd_region :SOURCE_NAME => cd_level :Integer => cd_offset :Integer => cd_compiled :BOOLEAN ;		character_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_obj_type :TYPE_SPEC => sm_pos :Integer => sm_rep :Integer => xd_region :SOURCE_NAME ;
constant_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_obj_type :TYPE_SPEC => sm_init_exp :EXP => sm_renames_obj :BOOLEAN => sm_address :EXP => sm_first :DEF_NAME => xd_region :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer => cd_offset :Integer => cd_compiled :BOOLEAN ;	in_out_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_obj_type :TYPE_SPEC => sm_init_exp :EXP => sm_renames_obj :BOOLEAN => sm_address :EXP => sm_first :DEF_NAME => xd_region :SOURCE_NAME => cd_level :Integer => cd_offset :Integer => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_obj_type :TYPE_SPEC => sm_init_exp :EXP => sm_renames_obj :BOOLEAN => sm_address :EXP => sm_first :DEF_NAME => xd_region :SOURCE_NAME => cd_level :Integer => cd_offset :Integer ;		iteration_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_obj_type :TYPE_SPEC => xd_region :SOURCE_NAME => cd_level :Integer => cd_offset :Integer ;
number_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_obj_type :TYPE_SPEC => sm_init_exp :EXP => xd_region :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer => cd_offset :Integer => cd_compiled :BOOLEAN ;	out_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_obj_type :TYPE_SPEC => sm_init_exp :EXP => sm_renames_obj :BOOLEAN => sm_address :EXP => sm_first :DEF_NAME => xd_region :SOURCE_NAME => cd_comp_unit :Integer => cd_level :Integer => cd_offset :Integer => cd_compiled :BOOLEAN ;		type_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_type_spec :TYPE_SPEC => sm_first :DEF_NAME => xd_region :SOURCE_NAME ;
component_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_obj_type :TYPE_SPEC => sm_init_exp :EXP => xd_region :SOURCE_NAME ;	enum_literal_s	=> => as_list :ENUM_LITERAL => lx_srcpos :Source_Position => cd_alignment :Integer => cd_impl_size :Integer => cd_last :Integer ;		subtype_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_type_spec :TYPE_SPEC => xd_region :SOURCE_NAME ;
discriminant_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep ;		ENUM_LITERAL		private_type_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_type_spec :TYPE_SPEC => xd_region :SOURCE_NAME ;
		enumeration_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_obj_type :TYPE_SPEC => sm_pos :Integer => sm_rep :Integer		l_private_type_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_type_spec :TYPE_SPEC => xd_region :SOURCE_NAME ;
					procedure_id	=> => lx_srcpos :Source_Position => lx_symrep :symbol_rep => sm_first :DEF_NAME => sm_spec :HEADER => sm_unit_desc :UNIT_DESC => sm_address :EXP => sm_is_inline :BOOLEAN => sm_interface :PREDEF_NAME

function_id	=> xd_region	:SOURCE_NAME			=> xd_region	:SOURCE_NAME
	=> xd_stub	:stub			;	
	=> xd_body	:SUBUNIT_BODY			=> sm_first	:DEF_NAME
	=> cd_compiled	:BOOLEAN			=> sm_spec	:HEADER
	=> cd_level	:Integer			=> sm_unit_desc	:UNIT_DESC
	=> cd_label	:Integer			=> sm_address	:EXP
	=> cd_param_size	:Integer			=> xd_region	:SOURCE_NAME
	;				=> xd_stub	:stub
	=>				=> xd_body	:SUBUNIT_BODY
	=> lx_srcpos	:Source_Position			=> cd_compiled	:BOOLEAN
	=> lx_symrep	:symbol_rep			;	
	=> sm_first	:DEF_NAME			=>	
	=> sm_spec	:HEADER			=> lx_srcpos	:Source_Position
	=> sm_unit_desc	:UNIT_DESC			=> lx_symrep	:symbol_rep
	=> sm_address	:EXP			=> sm_first	:DEF_NAME
	=> sm_is_inline	:BOOLEAN			=> sm_spec	:HEADER
	=> sm_interface	:PREDEF_NAME			=> sm_generic_param_s:item_s	:item_s
	=> xd_region	:SOURCE_NAME			=> sm_body	:BODY
	=> xd_stub	:stub			=> sm_is_inline	:BOOLEAN
	=> xd_body	:SUBUNIT_BODY			=> xd_region	:SOURCE_NAME
	=> cd_compiled	:BOOLEAN			=> xd_stub	:stub
	=> cd_level	:Integer			=> xd_body	:SUBUNIT_BODY
	=> cd_label	:Integer			;	
	=> cd_param_size	:Integer			=>	
	=> cd_result_size	:Integer			=> lx_srcpos	:Source_Position
	;				=> lx_symrep	:symbol_rep
	=>				=> sm_first	:DEF_NAME
	=> lx_srcpos	:Source_Position			=> sm_type_spec	:TYPE_SPEC
	=> lx_symrep	:symbol_rep			=> sm_body	:BODY
	=> sm_first	:DEF_NAME			=> xd_region	:SOURCE_NAME
	=> sm_spec	:HEADER			;	
	=> sm_unit_desc	:UNIT_DESC			=>	
	=> sm_address	:EXP			=> lx_srcpos	:Source_Position
	=> sm_is_inline	:BOOLEAN			=> lx_symrep	:symbol_rep
	=> sm_interface	:PREDEF_NAME			=> sm_stm	:STM
	=> xd_region	:SOURCE_NAME			=> xd_region	:SOURCE_NAME
	=> xd_stub	:stub			=> cd_label	:Integer
	=> xd_body	:SUBUNIT_BODY			;	
	=> cd_compiled	:BOOLEAN			=>	
	=> cd_level	:Integer			=> lx_srcpos	:Source_Position
	=> cd_label	:Integer			=> lx_symrep	:symbol_rep
	=> cd_param_size	:Integer			=> sm_stm	:STM
	=> xd_not_equal	:operator_id			=> xd_region	:SOURCE_NAME
	;				;	
	=>				=> lx_srcpos	:Source_Position
	=> lx_srcpos	:Source_Position			=> lx_symrep	:symbol_rep
	=> lx_symrep	:symbol_rep			=> sm_spec	:HEADER
	;				=> sm_address	:EXP
	=>					
	=> lx_srcpos	:Source_Position				
	=> lx_symrep	:symbol_rep				
	;					
operator_id	=> lx_srcpos	:Source_Position				
	=> lx_symrep	:symbol_rep				
	=> sm_first	:DEF_NAME				
	=> sm_spec	:HEADER				
	=> sm_unit_desc	:UNIT_DESC				
	=> sm_address	:EXP				
	=> sm_is_inline	:BOOLEAN				
	=> sm_interface	:PREDEF_NAME				
	=> xd_region	:SOURCE_NAME				
	=> xd_stub	:stub				
	=> xd_body	:SUBUNIT_BODY				
	=> cd_compiled	:BOOLEAN				
	=> cd_level	:Integer				
	=> cd_label	:Integer				
	=> cd_param_size	:Integer				
	=> xd_not_equal	:operator_id				
	;					
	=>					
	=> lx_srcpos	:Source_Position				
	=> lx_symrep	:symbol_rep				
	;					
package_id	=> lx_srcpos	:Source_Position				
	=> lx_symrep	:symbol_rep				
	;					
	=>					
	=> lx_srcpos	:Source_Position				
	=> lx_symrep	:symbol_rep				
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	=> lx_srcpos	:Source_Position				
	=> lx_symrep	:symbol_rep				
	;					
	=>					
	=> lx_srcpos	:Source_Position				
	=> lx_symrep	:symbol_rep				
	;					
	=>					

explications_compilation_unit :

Le champ « `as_all_decl` » de type classe `ALL_DECL` ne contient pas de liste mais seulement le premier élément ITEM représentant l'unité de compilation.
 Les listes de déclarations et d'instructions sont contenues plus bas dans des listes d'ITEM attribuées aux spécifications de package (HEADER) ou aux BODY.

Au sujet des unités de compilation, il faut se reporter à la section RM-10.1 du manuel de référence Ada.

unité de compilation::=		
	clause de contexte unité de librairie	
	clause de contexte unité secondaire	
unité de librairie::=		
	déclaration de sous-programme	<code>procedure X (...); function Y (...);</code>
	déclaration de package	<code>package X is ... end X;</code>
	déclaration de package ou sous-programme générique	<code>generic ... procedure GP (...); generic ... function GF (...); generic ... package GP is ... end GP;</code>
	instantiation de générique	<code>procedure IP is new GP (...); function IF is new GF (...); package IP is new GP (...);</code>
	corps de sous-programme	<code>procedure P (...) is ... begin ... end P; function F (...) is ... begin ... end F; subprogram_body</code>
unité secondaire::=		
	corps d'unité de librairie	<code>procedure P (...) is ... begin ... end P; function F (...) is ... begin ... end F; package body K is ... end K;</code>
	sous-unité	<code>separate (X) package body Y is ... end Y;</code>

[\(retour\)](#)

explications_address :

La clause d'adressage RM-13.5 sert à imposer une adresse définie à un objet. Elle s'écrit :
`for MA_VARIABLE use at ...`

[\(retour\)](#)

explications_record_rep :

La clause de représentation d'enregistrement RM-13.4 s'écrit :

`for ENREGISTREMENT use record at mod ...`

[\(retour\)](#)

explications_deferred_constant_decl :

RM-7.4

[\(retour\)](#)

explications_number_decl :

RM-3.2.2

[\(retour\)](#)