

1. Copyright.

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2. *terminals_phrase_th* thread.

Parse terminals phrase. It goes thru the terminal definitions and keeps its own local symbol table: map and list. The *terminal_def_phrase* thread adds each symbol to O_2 's global symbol table. It calls the common backend *term_def_ph* thread extractor of symbol definition.

The only wrinkle is in the handling of pre / post amble directives *#terminal - refs* and *#terminals - suffix*. These directives are outside the normal containment within a rule, subrule, or "fsm" entities. They come before or after the terminal definitions. Why the wrinkle? *cweb* introductory comments for these directives come before the directive declaration: just like syntax directed code directives. They could stymie the grammar writer by applying this approach to introductory comments for rules which is an error; *cweb* introductory comments for a rule or terminals of all colours comes between the key / name and just before their class constructs.

Example of a terminals vocabulary to parse:

```

/*
file: Tsym.txt
Why: terminals symbols vocabulary to parse.
Note: terminals is shown for clarity. It is the keyword trigger
      that calls this grammar. Parsed is comments onwards.
*/
terminals
// comments
(file-name o2_terminals,name-space NS_o2_terminals){
/@
Makesure c++ forward references compile.
@/
    terminals-refs
    using namespace std;
    struct T_c_literal;
        ....
    struct refered_T;
    ***
"option-t"    AD
/@
    Command line option for \O2 indicating generate T vocabulary code.
    Returned from |yacco2_lcl_option| thread.
    @/
(sym-class T_option_t)
        ....
"lint" (sym-class T_lint)
terminals-suffix
    static int* NS_o2_terminals::example_(0);
    ***
}

```

3. Fsm Cterminals_phrase_th class.**4. Cterminals_phrase_th constructor directive.**

(Cterminals_phrase_th constructor directive 4) \equiv
terminals_phrase_ = 0;

5. Cterminals_phrase.th op directive.

```

<Cterminals_phrase.th op directive 5> ≡
  if (terminals_phrase_ ≠ 0) {
    delete terminals_phrase_;
    terminals_phrase_ = 0;
  }
  terminals_phrase_ = new T_terminals_phrase;
  terminals_phrase_→set_rc(*parser_→start_token_, __FILE__, __LINE__);
  AST *t = new AST(*terminals_phrase_);
  terminals_phrase_→phrase_tree(t);

```

6. Cterminals_phrase.th user-declaration directive.

```

<Cterminals_phrase.th user-declaration directive 6> ≡
public: T_terminals_phrase * terminals_phrase_;

```

7. Cterminals_phrase.th user-prefix-declaration directive.

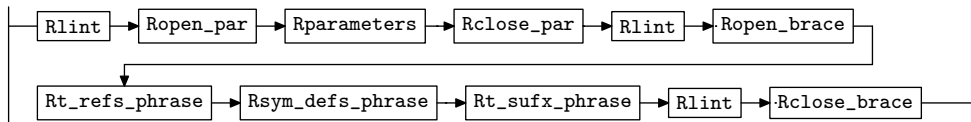
```

<Cterminals_phrase.th user-prefix-declaration directive 7> ≡
#include "lint_balls.h"
#include "cweb_or_c_k.h"
#include "identifier.h"
#include "term_def_ph.h"
#include "c_string.h"
#include "o2_sdc.h"

```

8. Rterminals_phrase rule.

Rterminals_phrase



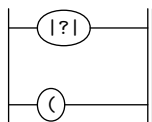
```

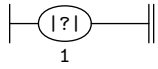
<Rterminals_phrase subrule 1 op directive 8> ≡
  Cterminals_phrase.th * fsm = ( Cterminals_phrase.th * ) rule_info_→parser_→fsm_tbl_;
  RSVP(fsm→terminals_phrase_);
  fsm→terminals_phrase_ = 0;

```

9. Ropen_par rule.

Ropen_par

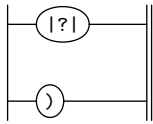
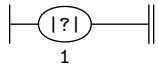


10. *Ropen_par*'s subrule 1.

⟨*Ropen_par* subrule 1 op directive 10⟩ ≡
`CAbs_lr1_sym * sym = new Err_no_open_parenthesis;`
`sym->set_rc(*rule_info->parser->current_token(), __FILE__, __LINE__);`
`RSVP(sym);`
`rule_info->parser->set_stop_parse(true);`

11. *Rclose_par* rule.

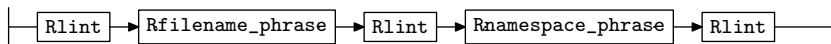
Rclose_par

12. *Rclose_par*'s subrule 1.

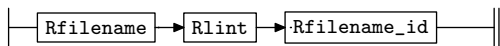
⟨*Rclose_par* subrule 1 op directive 12⟩ ≡
`CAbs_lr1_sym * sym = new Err_no_close_parenthesis;`
`sym->set_rc(*rule_info->parser->current_token(), __FILE__, __LINE__);`
`RSVP(sym);`
`rule_info->parser->set_stop_parse(true);`

13. *Rparameters* rule.

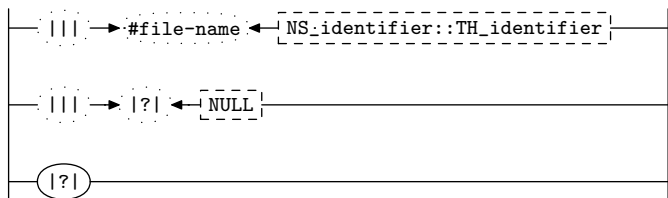
Rparameters

14. *Rfilename_phrase* rule.

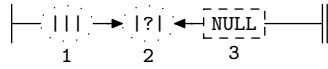
Rfilename_phrase

15. *Rfilename* rule.

Rfilename



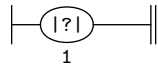
16. Rfilename's subrule 2.



```

⟨Rfilename subrule 2 op directive 16⟩ ≡
  sf→p2→set_auto_delete(true);
  CAbs_lr1_sym * sym = new Err_no_filename_present;
  sym→set_rc(*sf→p2→, __FILE__, __LINE__);
  RSVP(sym);
  rule_info→parser→set_stop_parse(true);
  
```

17. Rfilename's subrule 3.

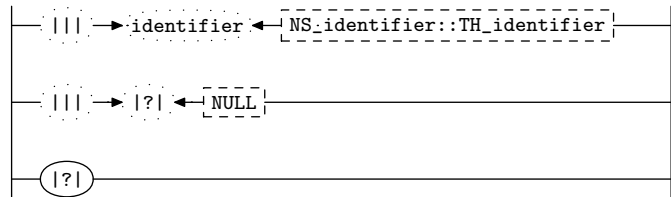


```

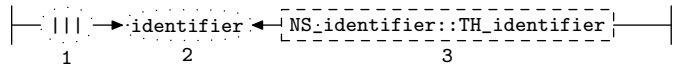
⟨Rfilename subrule 3 op directive 17⟩ ≡
  CAbs_lr1_sym * sym = new Err_no_filename_present;
  sym→set_rc(*rule_info→parser→current_token(), __FILE__, __LINE__);
  RSVP(sym);
  rule_info→parser→set_stop_parse(true);
  
```

18. Rfilename_id rule.

Rfilename_id



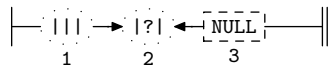
19. Rfilename_id's subrule 1.



```

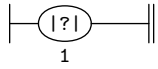
⟨Rfilename_id subrule 1 op directive 19⟩ ≡
  Cterminals_phrase.th * fsm = ( Cterminals_phrase.th * ) rule_info→parser→fsm_tbl→;
  fsm→terminals_phrase→filename_id(sf→p2→);
  
```

20. Rfilename_id's subrule 2.



```

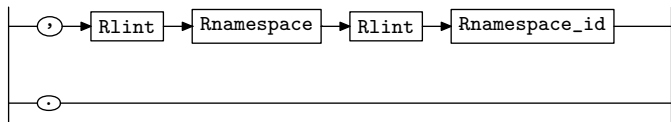
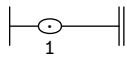
⟨Rfilename_id subrule 2 op directive 20⟩ ≡
  sf→p2→set_auto_delete(true);
  CAbs_lr1_sym * sym = new Err_no_filename_id_present;
  sym→set_rc(*sf→p2→, __FILE__, __LINE__);
  RSVP(sym);
  rule_info→parser→set_stop_parse(true);
  
```

21. *Rfilename_id*'s subrule 3.

⟨ *Rfilename_id* subrule 3 op directive 21 ⟩ ≡
CAbs_lr1_sym * *sym* = **new** *Err_no_filename_id_present*;
sym→*set_rc*(**rule_info*→*parser*→*current_token*(), __FILE__, __LINE__);
RSVP(*sym*);
rule_info→*parser*→*set_stop_parse*(*true*);

22. *Rnamespace_phrase* rule.

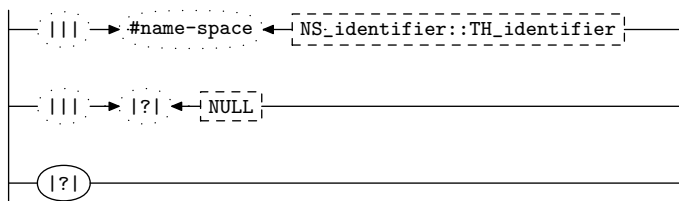
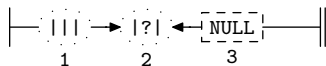
Rnamespace_phrase

**23. *Rnamespace_phrase*'s subrule 2.**

⟨ *Rnamespace_phrase* subrule 2 op directive 23 ⟩ ≡
CAbs_lr1_sym * *sym* = **new** *Err_no_comma_present*;
sym→*set_rc*(**rule_info*→*parser*→*current_token*(), __FILE__, __LINE__);
RSVP(*sym*);
rule_info→*parser*→*set_stop_parse*(*true*);

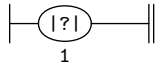
24. *Rnamespace* rule.

Rnamespace

**25. *Rnamespace*'s subrule 2.**

⟨ *Rnamespace* subrule 2 op directive 25 ⟩ ≡
sf→*p2*→*set_auto_delete*(*true*);
CAbs_lr1_sym * *sym* = **new** *Err_no_namespace_present*;
sym→*set_rc*(**sf*→*p2*, __FILE__, __LINE__);
RSVP(*sym*);
rule_info→*parser*→*set_stop_parse*(*true*);

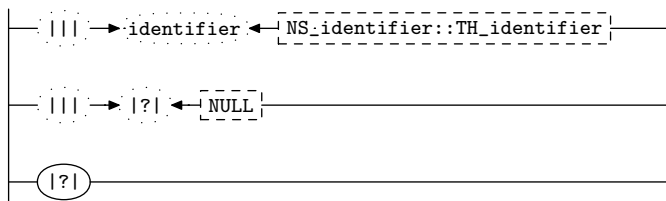
26. Rnamespace's subrule 3.



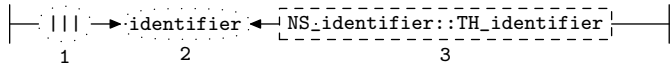
\langle Rnamespace subrule 3 op directive 26 $\rangle \equiv$
`CAbs_lr1_sym * sym = new Err_no_namespace_present;`
`sym->set_rc(*rule_info_.parser->current_token(), __FILE__, __LINE__);`
`RSVP(sym);`
`rule_info_.parser->set_stop_parse(true);`

27. Rnamespace_id rule.

Rnamespace_id

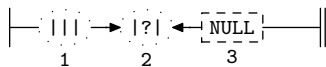


28. Rnamespace_id's subrule 1.



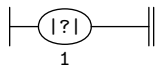
\langle Rnamespace_id subrule 1 op directive 28 $\rangle \equiv$
`Cterminals_phrase_th * fsm = (Cterminals_phrase_th *) rule_info_.parser->fsm_tbl_;`
`fsm->terminals_phrase->namespace_id(sf-p2_);`

29. Rnamespace_id's subrule 2.

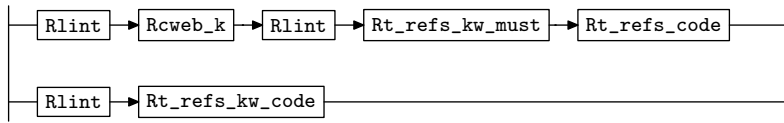
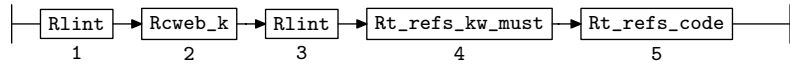


\langle Rnamespace_id subrule 2 op directive 29 $\rangle \equiv$
`sf-p2->set_auto_delete(true);`
`CAbs_lr1_sym * sym = new Err_no_namespace_id_present;`
`sym->set_rc(*sf-p2_, __FILE__, __LINE__);`
`RSVP(sym);`
`rule_info_.parser->set_stop_parse(true);`

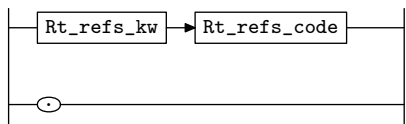
30. Rnamespace_id's subrule 3.



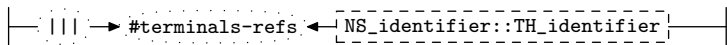
\langle Rnamespace_id subrule 3 op directive 30 $\rangle \equiv$
`CAbs_lr1_sym * sym = new Err_no_namespace_id_present;`
`sym->set_rc(*rule_info_.parser->current_token(), __FILE__, __LINE__);`
`RSVP(sym);`
`rule_info_.parser->set_stop_parse(true);`

31. *Rt_refs_phrase* rule.*Rt_refs_phrase***32.** *Rt_refs_phrase*'s subrule 1.
 $\langle \text{Rt_refs_phrase subrule 1 op directive 32} \rangle \equiv$

$$Cterminals_phrase.th * fsm = (Cterminals_phrase.th *) rule_info_parser_fsm_tbl_;$$

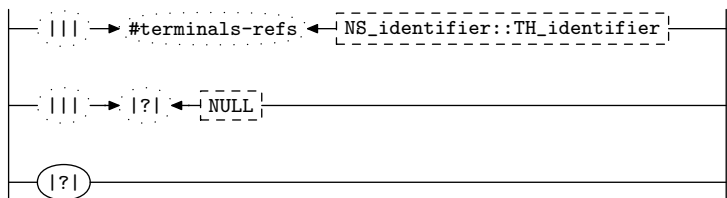
$$fsm_terminals_phrase_terminals_refs_code() \rightarrow add_cweb_marker(sf \rightarrow p2 \rightarrow cweb_t);$$
33. *Rt_refs_kw_code* rule.*Rt_refs_kw_code***34.** *Rt_refs_kw* rule.

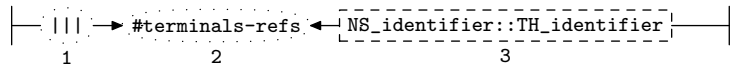
Drop the keyword as it is not needed. So delete at pop time. Mark the directive as seen just in case it is repeated and so it's an error situation.

Rt_refs_kw
 $\langle \text{Rt_refs_kw subrule 1 op directive 34} \rangle \equiv$

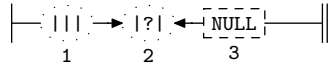
$$sf \rightarrow p2 \rightarrow set_auto_delete(true);$$
35. *Rt_refs_kw_must* rule.

Drop the keyword as it is not needed. So delete at pop time. Mark the directive as seen just in case it is repeated and so it's an error situation.

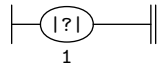
Rt_refs_kw_must

36. *Rt_refs_kw_must*'s subrule 1.

⟨*Rt_refs_kw_must* subrule 1 op directive 36⟩ ≡
sf-*p2*--*set_auto_delete*(*true*);

37. *Rt_refs_kw_must*'s subrule 2.

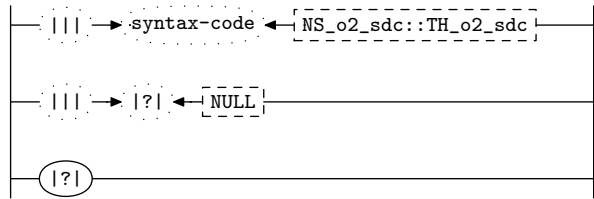
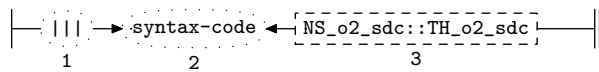
⟨*Rt_refs_kw_must* subrule 2 op directive 37⟩ ≡
CAbs_lr1_sym * *sym* = **new** *Err_missing_terminals_refs_kw*;
sym-*set_rc*(**sf*-*p2*--, __FILE__, __LINE__);
RSVP(*sym*);
sf-*p2*--*set_auto_delete*(*true*);
rule_info...*parser*--*set_stop_parse*(*true*);

38. *Rt_refs_kw_must*'s subrule 3.

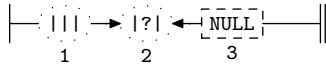
⟨*Rt_refs_kw_must* subrule 3 op directive 38⟩ ≡
CAbs_lr1_sym * *sym* = **new** *Err_missing_terminals_refs_kw*;
sym-*set_rc*(**sf*-*p1*--, __FILE__, __LINE__);
RSVP(*sym*);
rule_info...*parser*--*set_stop_parse*(*true*);

39. *Rt_refs_code* rule.

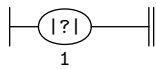
Rt_refs_code

**40. *Rt_refs_code*'s subrule 1.**

⟨*Rt_refs_code* subrule 1 op directive 40⟩ ≡
Cterminals_phrase_th * *fsm* = (*Cterminals_phrase_th* *) *rule_info*...*parser*--*fsm_tbl*--;
fsm-*terminals_phrase*--*terminals_refs_code*(*sf*-*p2*--);

41. *Rt_refs_code*'s subrule 2.

⟨*Rt_refs_code* subrule 2 op directive 41⟩ ≡
CAbs_lr1_sym * *sym* = **new** *Err_no_syntax_code_present*;
sym→*set_rc*(**sf*→*p2*→, __FILE__, __LINE__);
RSVP(*sym*);
sf→*p2*→*set_auto_delete*(*true*);
rule_info→*parser*→*set_stop_parse*(*true*);

42. *Rt_refs_code*'s subrule 3.

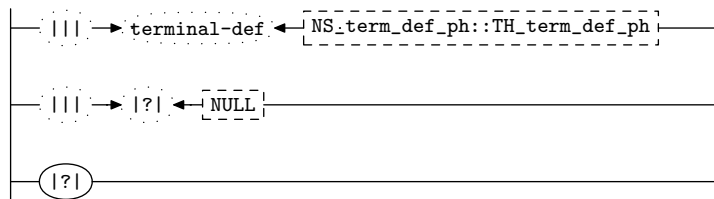
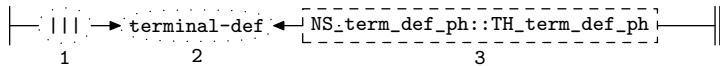
⟨*Rt_refs_code* subrule 3 op directive 42⟩ ≡
CAbs_lr1_sym * *sym* = **new** *Err_no_syntax_code_present*;
sym→*set_rc*(**rule_info*→*parser*→*start_token*→, __FILE__, __LINE__);
RSVP(*sym*);
rule_info→*parser*→*set_stop_parse*(*true*);

43. *Rsym_defs_phrase* rule.

Rsym_defs_phrase

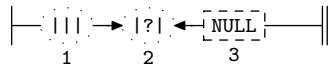
44. *Rsym_def* rule.

Rsym_def

45. *Rsym_def*'s subrule 1.

⟨*Rsym_def* subrule 1 op directive 45⟩ ≡
Cterminals_phrase_th * *fsm* = (*Cterminals_phrase_th* *) *rule_info*→*parser*→*fsm_tbl*→;
sf→*p2*→*classification*(*T_terminal_def* :: *t*);
CAbs_lr1_sym * *r* = *fsm*→*terminals_phrase*→*add_t_to_alphabet*(*sf*→*p2*→, *rule_info*→*parser*→);
if (*r* ≡ 0) **return**;
RSVP(*r*);
rule_info→*parser*→*set_stop_parse*(*true*);

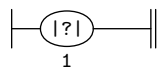
46. *Rsym_def*'s subrule 2.



```

⟨Rsym_def subrule 2 op directive 46⟩ ≡
  sf→p2→set_auto_delete(true);
  CAbs_lr1_sym * sym = new Err_no_sym_defs_present;
  sym→set_rc(*sf→p2→, __FILE__, __LINE__);
  RSVP(sym);
  rule_info→parser→set_stop_parse(true);
  
```

47. *Rsym_def*'s subrule 3.

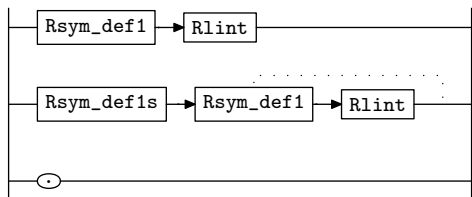


```

⟨Rsym_def subrule 3 op directive 47⟩ ≡
  CAbs_lr1_sym * sym = new Err_no_sym_defs_present;
  sym→set_rc(*rule_info→parser→current_token(), __FILE__, __LINE__);
  RSVP(sym);
  rule_info→parser→set_stop_parse(true);
  
```

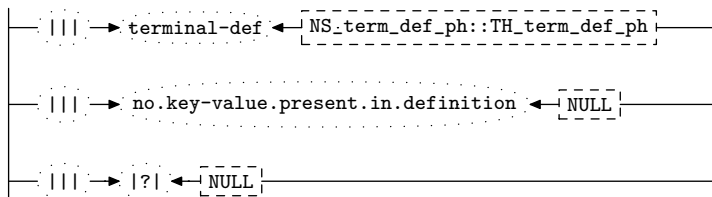
48. *Rsym_def1s* rule.

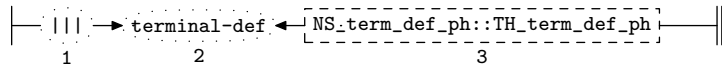
Rsym_def1s



49. *Rsym_def1* rule.

Rsym_def1

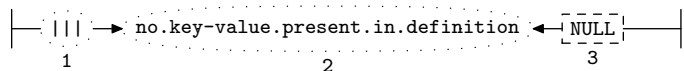


50. *Rsym_def1*'s subrule 1.

```

⟨Rsym_def1 subrule 1 op directive 50⟩ ≡
  Cterminals_phrase.th * fsm = ( Cterminals_phrase.th * ) rule_info...parser...fsm_tbl...;
  sf-p2...classification(T_terminal_def::t);
  CAbs_lr1_sym * r = fsm-terminals_phrase-add_t_to_alphabet(sf-p2..., rule_info...parser...);
  if (r ≠ 0) {
    RSVP(r);
    rule_info...parser...set_stop_parse(true);
    return;
  }

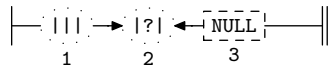
```

51. *Rsym_def1*'s subrule 2.

```

⟨Rsym_def1 subrule 2 op directive 51⟩ ≡
  Cterminals_phrase.th * fsm = ( Cterminals_phrase.th * ) rule_info...parser...fsm_tbl...;
  RSVP(fsm-terminals_phrase...);
  fsm-terminals_phrase_ = 0;
  rule_info...parser...set_stop_parse(true);

```

52. *Rsym_def1*'s subrule 3.

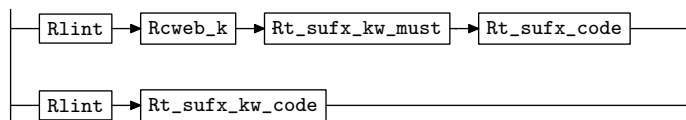
```

⟨Rsym_def1 subrule 3 op directive 52⟩ ≡
  using namespace NS_yacco2_T_enum;
  int id = sf-p2...enumerated_id...;
  if (id ≥ T_Enum::start_ERR ∧ id ≤ T_Enum::end_ERR) {
    RSVP(sf-p2...);
    rule_info...parser...set_stop_parse(true);
  }
  else {
    CAbs_lr1_sym * sym = new Err_not_a_terminal_definition;
    sym-set_rc(*sf-p2..., __FILE__, __LINE__);
    RSVP(sym);
    rule_info...parser...set_stop_parse(true);
  }

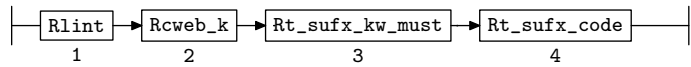
```

53. *Rt_sufx_phrase* rule.

Rt_sufx_phrase



54. *Rt_sufix_phrase*'s subrule 1.

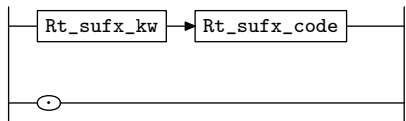


⟨ *Rt_sufix_phrase* subrule 1 op directive 54 ⟩ ≡
Cterminals_phrase.th * *fsm* = (*Cterminals_phrase.th* *) *rule_info...parser...fsm_tbl...*;
fsm→*terminals_phrase*→*terminals_sufix_code*()→*add_cweb_marker*(*sf*→*p2*→*cweb_t*);

55. *Rt_sufix_kw_code* rule.

If a *cweb* comment is seen, deposit it in the directive's syntax directed code.

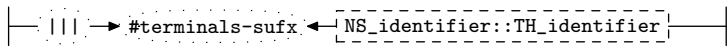
Rt_sufix_kw_code



56. *Rt_sufix_kw* rule.

Drop keyword as it's presence is indicated elsewhere. So pop the cork and let the good times roll.

Rt_sufix_kw

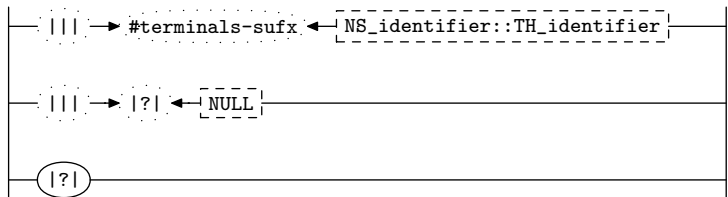


⟨ *Rt_sufix_kw* subrule 1 op directive 56 ⟩ ≡
sf→*p2*→*set_auto_delete*(*true*);

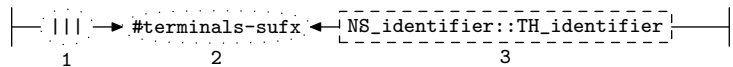
57. *Rt_sufix_kw_must* rule.

Drop keyword as it's presence is indicated elsewhere. So pop the cork and let the good times roll.

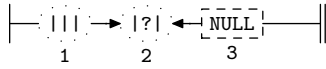
Rt_sufix_kw_must



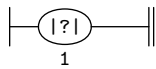
58. *Rt_sufix_kw_must*'s subrule 1.



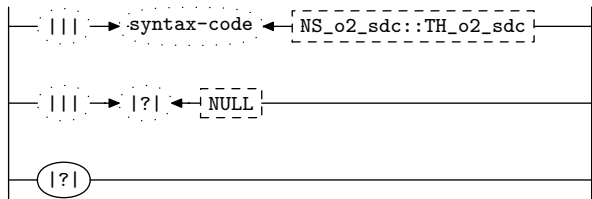
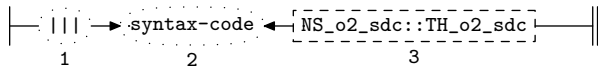
⟨ *Rt_sufix_kw_must* subrule 1 op directive 58 ⟩ ≡
sf→*p2*→*set_auto_delete*(*true*);

59. *Rt_sufix_kw_must*'s subrule 2.

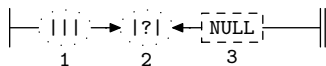
⟨*Rt_sufix_kw_must* subrule 2 op directive 59⟩ ≡
CAbs_lr1_sym * *sym* = **new** *Err_missing_terminals_sufix_kw*;
sym→*set_rc*(**sf*→*p2*__, __FILE__, __LINE__);
RSVP(*sym*);
sf→*p2*__→*set_auto_delete*(*true*);
*rule_info*__→*parser*__→*set_stop_parse*(*true*);

60. *Rt_sufix_kw_must*'s subrule 3.

⟨*Rt_sufix_kw_must* subrule 3 op directive 60⟩ ≡
CAbs_lr1_sym * *sym* = **new** *Err_missing_terminals_sufix_kw*;
sym→*set_rc*(**sf*→*p1*__, __FILE__, __LINE__);
RSVP(*sym*);
*rule_info*__→*parser*__→*set_stop_parse*(*true*);
return;

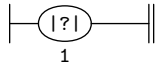
61. *Rt_sufix_code* rule.*Rt_sufix_code***62.** *Rt_sufix_code*'s subrule 1.

⟨*Rt_sufix_code* subrule 1 op directive 62⟩ ≡
Cterminals_phrase_th * *fsm* = (*Cterminals_phrase_th* *) *rule_info*__→*parser*__→*fsm_tbl*__;
fsm→*terminals_phrase*__→*terminals_sufix_code*(*sf*→*p2*__);

63. *Rt_sufix_code*'s subrule 2.

⟨*Rt_sufix_code* subrule 2 op directive 63⟩ ≡
CAbs_lr1_sym * *sym* = **new** *Err_no_syntax_code_present*;
sym→*set_rc*(**sf*→*p2*__, __FILE__, __LINE__);
RSVP(*sym*);
sf→*p2*__→*set_auto_delete*(*true*);
*rule_info*__→*parser*__→*set_stop_parse*(*true*);

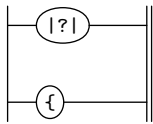
64. *Rt_sufix_code*'s subrule 3.



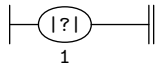
⟨*Rt_sufix_code* subrule 3 op directive 64⟩ ≡
`CAbs_lr1_sym * sym = new Err_no_syntax_code_present;`
`sym->set_rc(*rule_info_.parser->start_token(), __FILE__, __LINE__);`
`RSVP(sym);`
`rule_info_.parser->set_stop_parse(true);`

65. *Ropen_brace* rule.

Ropen_brace



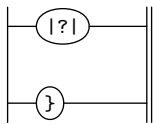
66. *Ropen_brace*'s subrule 1.



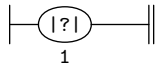
⟨*Ropen_brace* subrule 1 op directive 66⟩ ≡
`CAbs_lr1_sym * sym = new Err_no_open_brace;`
`sym->set_rc(*rule_info_.parser->current_token(), __FILE__, __LINE__);`
`RSVP(sym);`
`rule_info_.parser->set_stop_parse(true);`

67. *Rclose_brace* rule.

Rclose_brace



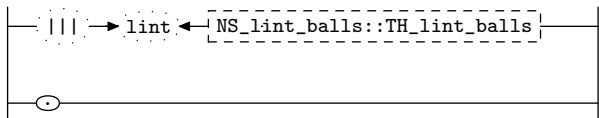
68. *Rclose_brace*'s subrule 1.



⟨*Rclose_brace* subrule 1 op directive 68⟩ ≡
`CAbs_lr1_sym * sym = new Err_no_close_brace;`
`sym->set_rc(*rule_info_.parser->current_token(), __FILE__, __LINE__);`
`RSVP(sym);`
`rule_info_.parser->set_stop_parse(true);`

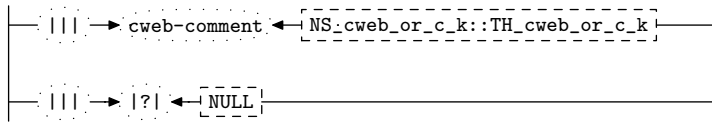
69. *Rlint* rule.

Rlint



70. Rcweb_k rule.

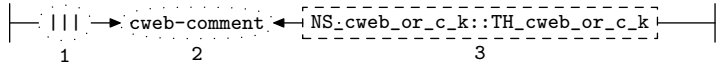
Rcweb_k

**71. Rcweb_k constructor directive.**

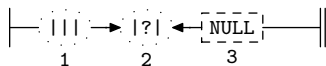
⟨Rcweb_k constructor directive 71⟩ ≡
cweb_t_ = 0;

72. Rcweb_k user-declaration directive.

⟨Rcweb_k user-declaration directive 72⟩ ≡
 AST * *cwebk_t_*;

73. Rcweb_k's subrule 1.

⟨Rcweb_k subrule 1 op directive 73⟩ ≡
Cterminals_phrase_th * *fsm* = (*Cterminals_phrase_th* *) *rule_info__parser__fsm_tbl__*;
T_cweb_comment * *k* = *sf-p2__*;
 AST * *cwebk_t_* = new AST(**k*);
cweb_t_ = new AST();
T_cweb_marker * *cw* = new *T_cweb_marker*(*cweb_t_*);
cw-set_rc(**k*, __FILE__, __LINE__);
cweb_t_ = *cw-ast*();
 AST::*set_content*(**cweb_t_*, **cw*);
 AST::*join_pts*(**cweb_t_*, **cwebk_t_*);

74. Rcweb_k's subrule 2.

⟨Rcweb_k subrule 2 op directive 74⟩ ≡
 RSVP(*sf-p2__*);
rule_info__parser__set_stop_parse(*true*);

75. First Set Language for O_2^{linker} .

```
/*
  File: terminals_phrase_th.fsc
  Date and Time: Fri Jan  2 15:33:59 2015
*/
transitive      y
grammar-name    "terminals_phrase_th"
name-space      "NS_terminals_phrase_th"
thread-name     "TH_terminals_phrase_th"
monolithic      n
file-name       "terminals_phrase_th.fsc"
no-of-T         569
list-of-native-first-set-terminals 2
  LR1_questionable_shift_operator
  raw_open_bracket
end-list-of-native-first-set-terminals
list-of-transitive-threads 1
  NS_lint_balls::TH_lint_balls
end-list-of-transitive-threads
list-of-used-threads 5
  NS_cweb_or_c_k::TH_cweb_or_c_k
  NS_identifier::TH_identifier
  NS_lint_balls::TH_lint_balls
  NS_o2_sdc::TH_o2_sdc
  NS_term_def_ph::TH_term_def_ph
end-list-of-used-threads
fsm-comments
"Parse terminals vocabulary."
```

76. Lr1 State Network.

\Rightarrow					State: 1 state type: s/r			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
c	Rlint		27 2 1		ϵ		1 0 1 1	
c	Rlint		27 1 1		lint NS lint_balls::TH lint_balls		1 2 3	
c	Rterminals_phrase		1 1 1		Rlint <u>Ropen_par</u>		1 4 16	
\Rightarrow	arbitration-code: ϵ				State: 2 state type: s			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rlint		27 1 2		lint		1 3 3	
\Rightarrow	lint				State: 3 state type: r			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rlint		27 1 3				1 0 3 1	
\Rightarrow	Rlint				State: 4 state type: s			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
c	Ropen_par		2 1 1		?		4 17 17	
c	Ropen_par		2 2 1		(4 18 18	
t	Rterminals_phrase		1 1 2		Ropen_par <u>Rparameters</u>		1 5 16	
\Rightarrow	Ropen_par				State: 5 state type: s/r			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
c	Rlint		27 2 1		ϵ		5 0 5 2	
c	Rlint		27 1 1		lint NS lint_balls::TH lint_balls		5 2 3	
t	Rterminals_phrase		1 1 3		Rparameters <u>Rclose_par</u>		1 6 16	
c	Rparameters		4 1 1		Rlint <u>Rfilename_phrase</u>		5 19 36	
\Rightarrow	Rparameters				State: 6 state type: s			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
c	Rclose_par		3 1 1		?		6 44 44	
c	Rclose_par		3 2 1)		6 45 45	
t	Rterminals_phrase		1 1 4		Rclose_par <u>Rlint^{ϵ} Ropen_brace</u>		1 7 16	
\Rightarrow	Rclose_par				State: 7 state type: s/r			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
c	Rlint		27 2 1		ϵ		7 0 7 3	
c	Rlint		27 1 1		lint NS lint_balls::TH lint_balls		7 2 3	
t	Rterminals_phrase		1 1 5		Rlint <u>Ropen_brace</u>		1 8 16	
\Rightarrow	Rlint				State: 8 state type: s			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
c	Ropen_brace		25 1 1		?		8 46 46	
c	Ropen_brace		25 2 1		{		8 47 47	
t	Rterminals_phrase		1 1 6		Ropen_brace <u>Rt_refs_phrase^{ϵ} Rsym_defs_phrase</u>		1 9 16	
\Rightarrow	Ropen_brace				State: 9 state type: s/r			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
c	Rlint		27 2 1		ϵ		9 0 9 2	
c	Rlint		27 1 1		lint NS lint_balls::TH lint_balls		9 2 3	
t	Rterminals_phrase		1 1 7		Rt_refs_phrase <u>Rsym_defs_phrase</u>		1 10 16	

c	Rt_refs_phrase	11	2	1	Rlint	<u>Rt_refs_kw_code^ε</u>		9	48	53		
c	Rt_refs_phrase	11	1	1	Rlint	<u>Rcweb_k</u>		9	48	63		
⇒ <i>Rt_refs_phrase</i>												
	← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rlint		27	2	1		ε		10	0	10	2
c	Rlint		27	1	1		lint NS lint_balls::TH lint_balls		10	2	3	
t	Rterminals_phrase		1	1	8		Rsym_defs_phrase <u>Rt_sufx_phrase^ε</u> <u>Rlint^ε</u> ...		1	11	16	
c	Rsym_defs_phrase		16	1	1		Rlint <u>Rsym_def</u>		10	64	75	
⇒ <i>Rsym_defs_phrase</i>												
	← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rlint		27	2	1		ε		11	0	11	4
c	Rlint		27	1	1		lint NS lint_balls::TH lint_balls		11	2	3	
t	Rterminals_phrase		1	1	9		Rt_sufx_phrase <u>Rlint^ε</u> <u>Rclose_brace</u>		1	12	16	
c	Rt_sufx_phrase		20	1	1		Rlint <u>Rcweb_k</u>		11	80	92	
c	Rt_sufx_phrase		20	2	1		Rlint <u>Rt_sufx_kw_code^ε</u>		11	80	83	
⇒ <i>Rt_sufx_phrase</i>												
	← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rlint		27	2	1		ε		12	0	12	5
c	Rlint		27	1	1		lint NS lint_balls::TH lint_balls		12	2	3	
t	Rterminals_phrase		1	1	10		Rlint <u>Rclose_brace</u>		1	13	16	
⇒ <i>Rlint</i>												
	← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rclose_brace		26	1	1		?		13	14	14	
c	Rclose_brace		26	2	1		}		13	15	15	
t	Rterminals_phrase		1	1	11		Rclose_brace		1	16	16	
⇒ <i> ? </i>												
	← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rclose_brace		26	1	2				13	0	14	6
⇒ <i>}</i>												
	← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rclose_brace		26	2	2				13	0	15	6
⇒ <i>Rclose_brace</i>												
	← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rterminals_phrase		1	1	12				1	0	16	6
⇒ <i> ? </i>												
	← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Ropen_par		2	1	2				4	0	17	2
⇒ <i>(</i>												
	← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Ropen_par		2	2	2				4	0	18	2
⇒ <i>Rlint</i>												
	← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA

c Rfilename	6	3	1	?		19	20	20
c Rfilename	6	1	1	# file-name NS_identifier::TH_identifier		19	21	23
c Rfilename	6	2	1	? NULL		19	21	22
t Rparameters	4	1	2	Rfilename_phrase <u>Rlint^ε Rnamespace_phrase^ε ...</u>		5	24	36
c Rfilename_phrase	5	1	1	Rfilename <u>Rlint^ε Rfilename_id</u>		19	37	43
⇒ ? State: 20 state type: <i>r</i>								
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA
t Rfilename	6	3	2			19	0	20 2
⇒ <i>arbitration-code: ε</i> State: 21 state type: <i>s</i>								
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA
t Rfilename	6	2	2	?		19	22	22
t Rfilename	6	1	2	# file-name		19	23	23
⇒ ? State: 22 state type: <i>r</i>								
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA
t Rfilename	6	2	3			19	0	22 2
⇒#file-name State: 23 state type: <i>r</i>								
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA
t Rfilename	6	1	3			19	0	23 2
⇒Rfilename_phrase State: 24 state type: <i>s/r</i>								
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA
c Rlint	27	2	1	ε		24	0	24 7
c Rlint	27	1	1	lint NS_lint_balls::TH_lint_balls		24	2	3
t Rparameters	4	1	3	Rlint <u>Rnamespace_phrase^ε Rlint^ε ...</u>		5	25	36
⇒Rlint State: 25 state type: <i>s/r</i>								
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA
c Rnamespace_phrase	8	2	1	ε		25	0	25 8
c Rnamespace_phrase	8	1	1	,		25	26	34
t Rparameters	4	1	4	Rnamespace_phrase <u>Rlint^ε</u>		5	35	36
⇒' State: 26 state type: <i>s/r</i>								
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA
c Rlint	27	2	1	ε		26	0	26 2
c Rlint	27	1	1	lint NS_lint_balls::TH_lint_balls		26	2	3
t Rnamespace_phrase	8	1	2	Rlint <u>Rnamespace</u>		25	27	34
⇒Rlint State: 27 state type: <i>s</i>								
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA
c Rnamespace	9	3	1	?		27	93	93
c Rnamespace	9	1	1	# name-space NS_identifier::TH_identifier		27	94	96
c Rnamespace	9	2	1	? NULL		27	94	95
t Rnamespace_phrase	8	1	3	Rnamespace <u>Rlint^ε Rnamespace_id</u>		25	28	34
⇒Rnamespace State: 28 state type: <i>s/r</i>								
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA
c Rlint	27	2	1	ε		28	0	28 2
c Rlint	27	1	1	lint NS_lint_balls::TH_lint_balls		28	2	3

t Rnamespace_phrase	8	1	4	Rlint	<u>Rnamespace_id</u>	25	29	34	
\Rightarrow <i>Rlint</i>				State: 29 state type: <i>s</i>					
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA	
c Rnamespace_id	10	3	1	?		29	30	30	
c Rnamespace_id	10	1	1		identifier NS_identifier::TH_identifier	29	31	33	
c Rnamespace_id	10	2	1		? NULL	29	31	32	
t Rnamespace_phrase	8	1	5		Rnamespace_id	25	34	34	
\Rightarrow <i> ? </i>				State: 30 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA	
t Rnamespace_id	10	3	2			29	0	30 8	
\Rightarrow <i> arbitration-code: ε</i>				State: 31 state type: <i>s</i>					
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA	
t Rnamespace_id	10	2	2	?		29	32	32	
t Rnamespace_id	10	1	2		identifier	29	33	33	
\Rightarrow <i> ? </i>				State: 32 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA	
t Rnamespace_id	10	2	3			29	0	32 8	
\Rightarrow <i>identifier</i>				State: 33 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA	
t Rnamespace_id	10	1	3			29	0	33 8	
\Rightarrow <i>Rnamespace_id</i>				State: 34 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA	
t Rnamespace_phrase	8	1	6			25	0	34 8	
\Rightarrow <i>Rnamespace_phrase</i>				State: 35 state type: <i>s/r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA	
c Rlint	27	2	1	ε		35	0	35 9	
c Rlint	27	1	1		lint NS_lint_balls::TH_lint_balls	35	2	3	
t Rparameters	4	1	5		Rlint	5	36	36	
\Rightarrow <i>Rlint</i>				State: 36 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA	
t Rparameters	4	1	6			5	0	36 9	
\Rightarrow <i>Rfilename</i>				State: 37 state type: <i>s/r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA	
c Rlint	27	2	1	ε		37	0	37 2	
c Rlint	27	1	1		lint NS_lint_balls::TH_lint_balls	37	2	3	
t Rfilename_phrase	5	1	2		Rlint <u>Rfilename_id</u>	19	38	43	
\Rightarrow <i>Rlint</i>				State: 38 state type: <i>s</i>					
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red LA	
c Rfilename_id	7	3	1	?		38	39	39	
c Rfilename_id	7	2	1		? NULL	38	40	41	
c Rfilename_id	7	1	1		identifier NS_identifier::TH_identifier	38	40	42	
t Rfilename_phrase	5	1	3		Rfilename_id	19	43	43	

\Rightarrow ?		State: 39 state type: r	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rfilename_id	7 3 2		38 0 39 7
\Rightarrow <i>arbitration-code: ϵ</i>		State: 40 state type: s	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rfilename_id	7 2 2 ?		38 41 41
t Rfilename_id	7 1 2 identifier		38 42 42
\Rightarrow ?		State: 41 state type: r	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rfilename_id	7 2 3		38 0 41 7
\Rightarrow <i>identifier</i>		State: 42 state type: r	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rfilename_id	7 1 3		38 0 42 7
\Rightarrow <i>Rfilename_id</i>		State: 43 state type: r	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rfilename_phrase	5 1 4		19 0 43 7
\Rightarrow ?		State: 44 state type: r	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rclose_par	3 1 2		6 0 44 10
\Rightarrow)		State: 45 state type: r	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rclose_par	3 2 2		6 0 45 10
\Rightarrow ?		State: 46 state type: r	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Ropen_brace	25 1 2		8 0 46 2
\Rightarrow {		State: 47 state type: r	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Ropen_brace	25 2 2		8 0 47 2
\Rightarrow <i>Rlint</i>		State: 48 state type: s/r	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
c Rt_refs_kw_code	12 2 1 ϵ		48 0 48 2
c Rcweb_k	28 2 1 ? NULL		48 49 50
c Rt_refs_kw	13 1 1 # terminals-refs NS_identifier::TH_identifier		48 49 51
c Rcweb_k	28 1 1 cweb-comment NS_cweb_or_c_k::TH_cweb_or_c_k		48 49 52
t Rt_refs_phrase	11 2 2 Rt_refs_kw_code		9 53 53
c Rt_refs_kw_code	12 1 1 Rt_refs_kw <u><i>Rt_refs_code</i></u>		48 54 59
t Rt_refs_phrase	11 1 2 Rcweb_k <u><i>Rlint</i></u> <u><i>Rt_refs_kw.must</i></u>		9 60 63
\Rightarrow <i>arbitration-code: ϵ</i>		State: 49 state type: s	
← rule	→ R# sr# Po ←	subrule element	→ Brn Gto Red LA
t Rcweb_k	28 2 2 ?		48 50 50
t Rt_refs_kw	13 1 2 # terminals-refs		48 51 51

t Rcweb_k	28	1	2	cweb-comment	48	52	52
\Rightarrow ?					State: 50 state type: <i>r</i>		
← rule	→ R#	sr#	Po	← subrule element	→ Brn	Gto	Red LA
t Rcweb_k	28	2	3		48	0	50 2
\Rightarrow #terminals-refs					State: 51 state type: <i>r</i>		
← rule	→ R#	sr#	Po	← subrule element	→ Brn	Gto	Red LA
t Rt_refs_kw	13	1	3		48	0	51 2
\Rightarrow cweb-comment					State: 52 state type: <i>r</i>		
← rule	→ R#	sr#	Po	← subrule element	→ Brn	Gto	Red LA
t Rcweb_k	28	1	3		48	0	52 2
\Rightarrow Rt_refs_kw_code					State: 53 state type: <i>r</i>		
← rule	→ R#	sr#	Po	← subrule element	→ Brn	Gto	Red LA
t Rt_refs_phrase	11	2	3		9	0	53 2
\Rightarrow Rt_refs_kw					State: 54 state type: <i>s</i>		
← rule	→ R#	sr#	Po	← subrule element	→ Brn	Gto	Red LA
c Rt_refs_code	15	3	1	?	54	55	55
c Rt_refs_code	15	2	1	? NULL	54	56	57
c Rt_refs_code	15	1	1	syntax-code NS_o2_sdc::TH_o2_sdc	54	56	58
t Rt_refs_kw_code	12	1	2	Rt_refs_code	48	59	59
\Rightarrow ?					State: 55 state type: <i>r</i>		
← rule	→ R#	sr#	Po	← subrule element	→ Brn	Gto	Red LA
t Rt_refs_code	15	3	2		54	0	55 2
\Rightarrow arbitration-code: ϵ					State: 56 state type: <i>s</i>		
← rule	→ R#	sr#	Po	← subrule element	→ Brn	Gto	Red LA
t Rt_refs_code	15	2	2	?	54	57	57
t Rt_refs_code	15	1	2	syntax-code	54	58	58
\Rightarrow ?					State: 57 state type: <i>r</i>		
← rule	→ R#	sr#	Po	← subrule element	→ Brn	Gto	Red LA
t Rt_refs_code	15	2	3		54	0	57 2
\Rightarrow syntax-code					State: 58 state type: <i>r</i>		
← rule	→ R#	sr#	Po	← subrule element	→ Brn	Gto	Red LA
t Rt_refs_code	15	1	3		54	0	58 2
\Rightarrow Rt_refs_code					State: 59 state type: <i>r</i>		
← rule	→ R#	sr#	Po	← subrule element	→ Brn	Gto	Red LA
t Rt_refs_kw_code	12	1	3		48	0	59 2
\Rightarrow Rcweb_k					State: 60 state type: <i>s/r</i>		
← rule	→ R#	sr#	Po	← subrule element	→ Brn	Gto	Red LA
c Rlint	27	2	1	ϵ	60	0	60 2
c Rlint	27	1	1	lint NS_lint_balls::TH_lint_balls	60	2	3
t Rt_refs_phrase	11	1	3	Rlint <u>Rt_refs_kw_must</u>	9	61	63

\Rightarrow <i>Rlint</i>					State: 61 state type: <i>s</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c Rt_refs_kw_must	14	3	1	?			61	97	97	
c Rt_refs_kw_must	14	1	1	# terminals-refs NS_identifier::TH_identifier			61	98	100	
c Rt_refs_kw_must	14	2	1	? NULL			61	98	99	
t Rt_refs_phrase	11	1	4	Rt_refs_kw_must <u>Rt_refs_code</u>			9	62	63	
\Rightarrow <i>Rt_refs_kw_must</i>					State: 62 state type: <i>s</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c Rt_refs_code	15	3	1	?			62	55	55	
c Rt_refs_code	15	2	1	? NULL			62	56	57	
c Rt_refs_code	15	1	1	syntax-code NS_o2_sdc::TH_o2_sdc			62	56	58	
t Rt_refs_phrase	11	1	5	Rt_refs_code			9	63	63	
\Rightarrow <i>Rt_refs_code</i>					State: 63 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rt_refs_phrase	11	1	6				9	0	63	2
\Rightarrow <i>Rlint</i>					State: 64 state type: <i>s</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c Rsym_def	17	3	1	?			64	65	65	
c Rsym_def	17	1	1	terminal-def NS_term_def_ph::TH_term_def_ph			64	66	68	
c Rsym_def	17	2	1	? NULL			64	66	67	
t Rsym_defs_phrase	16	1	2	Rsym_def <u>Rlint</u> ^ε <u>Rsym_def1s</u> ^ε ...			10	69	75	
\Rightarrow ?					State: 65 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rsym_def	17	3	2				64	0	65	4
\Rightarrow <i>arbitration-code: ε</i>					State: 66 state type: <i>s</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rsym_def	17	2	2	?			64	67	67	
t Rsym_def	17	1	2	terminal-def			64	68	68	
\Rightarrow ?					State: 67 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rsym_def	17	2	3				64	0	67	4
\Rightarrow <i>terminal-def</i>					State: 68 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rsym_def	17	1	3				64	0	68	4
\Rightarrow <i>Rsym_def</i>					State: 69 state type: <i>s/r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c Rlint	27	2	1	ε			69	0	69	4
c Rlint	27	1	1	lint NS_lint_balls::TH_lint_balls			69	2	3	
t Rsym_defs_phrase	16	1	3	Rlint <u>Rsym_def1s</u> ^ε			10	70	75	
\Rightarrow <i>Rlint</i>					State: 70 state type: <i>s/r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c Rsym_def1s	18	3	1	ε			70	0	70	4

c	Rsym_def1	19	2	1	no key-value present in definition	NULL	70	71	74	
c	Rsym_def1	19	1	1	terminal-def	NS_term_def_ph::TH_term_def_ph	70	71	73	
c	Rsym_def1	19	3	1	?	NULL	70	71	72	
t	Rsym_defs_phrase	16	1	4	Rsym_def1s		10	75	75	
c	Rsym_def1s	18	2	1	Rsym_def1s	<u>Rsym_def1</u>	70	75	77	
c	Rsym_def1s	18	1	1	Rsym_def1	<u>Rlint^ε</u>	70	78	79	
⇒ <i>arbitration-code: AR_Rsym_def1</i>							State: 71 state type: <i>s</i>			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA	
t	Rsym_def1		19	3	2		?		70 72 72	
t	Rsym_def1		19	1	2		terminal-def		70 73 73	
t	Rsym_def1		19	2	2		no key-value present in definition		70 74 74	
⇒ ?							State: 72 state type: <i>r</i>			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA	
t	Rsym_def1		19	3	3				70 0 72 4	
⇒ <i>terminal-def</i>							State: 73 state type: <i>r</i>			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA	
t	Rsym_def1		19	1	3				70 0 73 4	
⇒ <i>nokey-valuepresentindefinition</i>							State: 74 state type: <i>r</i>			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA	
t	Rsym_def1		19	2	3				70 0 74 4	
⇒ <i>Rsym_def1s</i>							State: 75 state type: <i>s/r</i>			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA	
t	Rsym_defs_phrase		16	1	5				10 0 75 4	
c	Rsym_def1		19	2	1		no key-value present in definition		75 71 74	
c	Rsym_def1		19	1	1		terminal-def		75 71 73	
c	Rsym_def1		19	3	1		?		75 71 72	
t	Rsym_def1s		18	2	2		Rsym_def1		70 76 77	
⇒ <i>Rsym_def1</i>							State: 76 state type: <i>s/r</i>			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA	
c	Rlint		27	2	1		ε		76 0 76 4	
c	Rlint		27	1	1		lint		76 2 3	
t	Rsym_def1s		18	2	3		Rlint		70 77 77	
⇒ <i>Rlint</i>							State: 77 state type: <i>r</i>			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA	
t	Rsym_def1s		18	2	4				70 0 77 4	
⇒ <i>Rsym_def1</i>							State: 78 state type: <i>s/r</i>			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA	
c	Rlint		27	2	1		ε		78 0 78 4	
c	Rlint		27	1	1		lint		78 2 3	
t	Rsym_def1s		18	1	2		Rlint		70 79 79	
⇒ <i>Rlint</i>							State: 79 state type: <i>r</i>			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA	
t	Rsym_def1s		18	1	3				70 0 79 4	

\Rightarrow <i>Rlint</i>					State: 80 state type: <i>s/r</i>			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
c	Rt_sufx_kw_code		21 2 1		ϵ		80 0 80 4	
c	Rcweb_k		28 2 1		? NULL		80 81 50	
c	Rt_sufx_kw		22 1 1		# terminals-sufx NS_identifier::TH_identifier		80 81 82	
c	Rcweb_k		28 1 1		cweb-comment NS_cweb_or_c_k::TH_cweb_or_c_k		80 81 52	
t	Rt_sufx_phrase		20 2 2		Rt_sufx_kw_code		11 83 83	
c	Rt_sufx_kw_code		21 1 1		Rt_sufx_kw <u>Rt_sufx_code</u>		80 84 89	
t	Rt_sufx_phrase		20 1 2		Rcweb.k <u>Rt_sufx_kw_must</u>		11 90 92	
\Rightarrow <i>arbitration-code: ϵ</i>					State: 81 state type: <i>s</i>			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rcweb_k		28 2 2		?		80 50 50	
t	Rt_sufx_kw		22 1 2		# terminals-sufx		80 82 82	
t	Rcweb_k		28 1 2		cweb-comment		80 52 52	
\Rightarrow # <i>terminals-sufx</i>					State: 82 state type: <i>r</i>			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rt_sufx_kw		22 1 3				80 0 82 2	
\Rightarrow <u>Rt_sufx_kw_code</u>					State: 83 state type: <i>r</i>			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rt_sufx_phrase		20 2 3				11 0 83 4	
\Rightarrow <u>Rt_sufx_kw</u>					State: 84 state type: <i>s</i>			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
c	Rt_sufx_code		24 3 1		?		84 85 85	
c	Rt_sufx_code		24 2 1		? NULL		84 86 87	
c	Rt_sufx_code		24 1 1		syntax-code NS_o2_sdc::TH_o2_sdc		84 86 88	
t	Rt_sufx_kw_code		21 1 2		Rt_sufx_code		80 89 89	
\Rightarrow ?					State: 85 state type: <i>r</i>			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rt_sufx_code		24 3 2				84 0 85 4	
\Rightarrow <i>arbitration-code: ϵ</i>					State: 86 state type: <i>s</i>			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rt_sufx_code		24 2 2		?		84 87 87	
t	Rt_sufx_code		24 1 2		syntax-code		84 88 88	
\Rightarrow ?					State: 87 state type: <i>r</i>			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rt_sufx_code		24 2 3				84 0 87 4	
\Rightarrow <i>syntax-code</i>					State: 88 state type: <i>r</i>			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rt_sufx_code		24 1 3				84 0 88 4	
\Rightarrow <u>Rt_sufx_code</u>					State: 89 state type: <i>r</i>			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rt_sufx_kw_code		21 1 3				80 0 89 4	

\Rightarrow <i>Rcweb_k</i>					State: 90 state type: <i>s</i>			
← rule	→ R# sr# Po	←	subrule element	→	Brn Gto Red LA			
c Rt_sufx_kw_must	23 3 1	?			90 101 101			
c Rt_sufx_kw_must	23 1 1	# terminals-sufx NS_identifier::TH_identifier			90 102 104			
c Rt_sufx_kw_must	23 2 1	? NULL			90 102 103			
t Rt_sufx_phrase	20 1 3	Rt_sufx_kw_must <u>Rt_sufx_code</u>			11 91 92			
\Rightarrow <i>Rt_sufx_kw_must</i>					State: 91 state type: <i>s</i>			
← rule	→ R# sr# Po	←	subrule element	→	Brn Gto Red LA			
c Rt_sufx_code	24 3 1	?			91 85 85			
c Rt_sufx_code	24 2 1	? NULL			91 86 87			
c Rt_sufx_code	24 1 1	syntax-code NS_o2_sdc::TH_o2_sdc			91 86 88			
t Rt_sufx_phrase	20 1 4	Rt_sufx_code			11 92 92			
\Rightarrow <i>Rt_sufx_code</i>					State: 92 state type: <i>r</i>			
← rule	→ R# sr# Po	←	subrule element	→	Brn Gto Red LA			
t Rt_sufx_phrase	20 1 5				11 0 92 4			
\Rightarrow <i> ? </i>					State: 93 state type: <i>r</i>			
← rule	→ R# sr# Po	←	subrule element	→	Brn Gto Red LA			
t Rnamespace	9 3 2				27 0 93 2			
\Rightarrow <i> arbitration-code: ϵ</i>					State: 94 state type: <i>s</i>			
← rule	→ R# sr# Po	←	subrule element	→	Brn Gto Red LA			
t Rnamespace	9 2 2	?			27 95 95			
t Rnamespace	9 1 2	# name-space			27 96 96			
\Rightarrow <i> ? </i>					State: 95 state type: <i>r</i>			
← rule	→ R# sr# Po	←	subrule element	→	Brn Gto Red LA			
t Rnamespace	9 2 3				27 0 95 2			
\Rightarrow <i>#name-space</i>					State: 96 state type: <i>r</i>			
← rule	→ R# sr# Po	←	subrule element	→	Brn Gto Red LA			
t Rnamespace	9 1 3				27 0 96 2			
\Rightarrow <i> ? </i>					State: 97 state type: <i>r</i>			
← rule	→ R# sr# Po	←	subrule element	→	Brn Gto Red LA			
t Rt_refs_kw_must	14 3 2				61 0 97 2			
\Rightarrow <i> arbitration-code: ϵ</i>					State: 98 state type: <i>s</i>			
← rule	→ R# sr# Po	←	subrule element	→	Brn Gto Red LA			
t Rt_refs_kw_must	14 2 2	?			61 99 99			
t Rt_refs_kw_must	14 1 2	# terminals-refs			61 100 100			
\Rightarrow <i> ? </i>					State: 99 state type: <i>r</i>			
← rule	→ R# sr# Po	←	subrule element	→	Brn Gto Red LA			
t Rt_refs_kw_must	14 2 3				61 0 99 2			
\Rightarrow <i>#terminals-refs</i>					State: 100 state type: <i>r</i>			
← rule	→ R# sr# Po	←	subrule element	→	Brn Gto Red LA			
t Rt_refs_kw_must	14 1 3				61 0 100 2			

⇒ ?					State: 101 state type: <i>r</i>	
←	rule	→	R#	sr#	Po	←
t	Rt_sufx_kw_must		23	3	2	
						subrule element
						→
						Brn
						Gto
						Red
						LA
						90
						0
						101
						2
⇒ <i>arbitration-code: ε</i>						
←	rule	→	R#	sr#	Po	←
t	Rt_sufx_kw_must		23	2	2	?
t	Rt_sufx_kw_must		23	1	2	# terminals-sufx
						subrule element
						→
						Brn
						Gto
						Red
						LA
						90
						103
						103
						90
						104
						104
⇒ ?						
←	rule	→	R#	sr#	Po	←
t	Rt_sufx_kw_must		23	2	3	
						subrule element
						→
						Brn
						Gto
						Red
						LA
						90
						0
						103
						2
⇒#terminals-sufx						
←	rule	→	R#	sr#	Po	←
t	Rt_sufx_kw_must		23	1	3	
						subrule element
						→
						Brn
						Gto
						Red
						LA
						90
						0
						104
						2

77. Index.

- ϵ : 22, 33, 48, 55, 69.
- # file-name: 15.
- # name-space: 24.
- # terminals-refs: 34, 35.
- # terminals-suffix: 56, 57.
- |||: 15, 18, 24, 27, 34, 35, 39, 44, 49, 56, 57, 61, 69, 70.
- |?|: 9, 11, 15, 18, 24, 27, 35, 39, 44, 49, 57, 61, 65, 67, 70.
- __FILE__: 5, 10, 12, 16, 17, 20, 21, 23, 25, 26, 29, 30, 37, 38, 41, 42, 46, 47, 52, 59, 60, 63, 64, 66, 68, 73.
- __LINE__: 5, 10, 12, 16, 17, 20, 21, 23, 25, 26, 29, 30, 37, 38, 41, 42, 46, 47, 52, 59, 60, 63, 64, 66, 68, 73.
- add_cweb_marker: 32, 54.
- add_t_to_alphabet: 45, 50.
- AR_Rsym_def1: 76.
- AST: 5, 72, 73.
- ast: 73.
- CAbs_lr1_sym: 10, 12, 16, 17, 20, 21, 23, 25, 26, 29, 30, 37, 38, 41, 42, 45, 46, 47, 50, 52, 59, 60, 63, 64, 66, 68.
- classification: 45, 50.
- Cterminals_phrase_th: 8, 19, 28, 32, 40, 45, 50, 51, 54, 62, 73.
- current_token: 10, 12, 17, 21, 23, 26, 30, 47, 66, 68.
- cw: 73.
- cweb: 2, 55.
- cweb-comment: 70.
- cweb_t: 32, 54, 71, 72, 73.
- cwebk_t: 73.
- end_ERR: 52.
- enumerated_id_: 52.
- Err_missing_terminals_refs_kw: 37, 38.
- Err_missing_terminals_suffix_kw: 59, 60.
- Err_no_close_brace: 68.
- Err_no_close_parenthesis: 12.
- Err_no_comma_present: 23.
- Err_no_filename_id_present: 20, 21.
- Err_no_filename_present: 16, 17.
- Err_no_namespace_id_present: 29, 30.
- Err_no_namespace_present: 25, 26.
- Err_no_open_brace: 66.
- Err_no_open_parenthesis: 10.
- Err_no_sym_defs_present: 46, 47.
- Err_no_syntax_code_present: 41, 42, 63, 64.
- Err_not_a_terminal_definition: 52.
- filename_id: 19.
- fsm: 8, 19, 28, 32, 40, 45, 50, 51, 54, 62, 73.
- fsm_tbl_: 8, 19, 28, 32, 40, 45, 50, 51, 54, 62, 73.
- id: 52.
- identifier: 18, 27.
- join_pts: 73.
- lint: 69.
- namespace_id: 28.
- no key-value present in definition: 49.
- NS_cweb_or_c_k::TH_cweb_or_c_k: 70.
- NS_identifier::TH_identifier: 15, 18, 24, 27, 34, 35, 56, 57.
- NS_lint_balls::TH_lint_balls: 69.
- NS_o2_sdc::TH_o2_sdc: 39, 61.
- NS_term_def_ph::TH_term_def_ph: 44, 49.
- NS_yacco2_T_enum: 52.
- NULL: 15, 18, 24, 27, 35, 39, 44, 49, 57, 61, 70.
- parser_: 5, 8, 10, 12, 16, 17, 19, 20, 21, 23, 25, 26, 28, 29, 30, 32, 37, 38, 40, 41, 42, 45, 46, 47, 50, 51, 52, 54, 59, 60, 62, 63, 64, 66, 68, 73, 74.
- phrase_tree: 5.
- p1_: 38, 60.
- p2_: 16, 19, 20, 25, 28, 29, 32, 34, 36, 37, 40, 41, 45, 46, 50, 52, 54, 56, 58, 59, 62, 63, 73, 74.
- Rclose_brace: 8.
- Rclose_par: 8.
- Rclose_brace: 67, 68.
- Rclose_par: 11, 12.
- Rcweb_k: 31, 53.
- Rcweb_k: 70, 73, 74.
- refs: 2.
- Rfilename: 15, 16, 17.
- Rfilename: 14.
- Rfilename_id: 14.
- Rfilename_phrase: 13.
- Rfilename_id: 18, 19, 20, 21.
- Rfilename_phrase: 14.
- Rlint: 69.
- Rlint: 8, 13, 14, 22, 31, 43, 48, 53.
- Rnamespace: 22.
- Rnamespace: 24, 25, 26.
- Rnamespace_id: 22.
- Rnamespace_phrase: 13.
- Rnamespace_id: 27, 28, 29, 30.
- Rnamespace_phrase: 22, 23.
- Ropen_brace: 8.
- Ropen_par: 8.
- Ropen_brace: 65, 66.
- Ropen_par: 9, 10.
- Rparameters: 13.
- Rparameters: 8.
- RSVP: 8, 10, 12, 16, 17, 20, 21, 23, 25, 26, 29, 30, 37, 38, 41, 42, 45, 46, 47, 50, 51, 52, 59, 60, 63, 64, 66, 68, 74.

- Rsym_def: 43.
- Rsym_defs_phrase: 8.
- Rsym_def1: 48.
- Rsym_def1s: 43, 48.
- Rsym_def: 44, 45, 46, 47.
- Rsym_defs_phrase: 43.
- Rsym_def1: 49, 50, 51, 52.
- Rsym_def1s: 48.
- Rt_refs_code: 31, 33.
- Rt_refs_kw: 33.
- Rt_refs_kw_code: 31.
- Rt_refs_kw_must: 31.
- Rt_refs_phrase: 8.
- Rt_sufx_code: 53, 55.
- Rt_sufx_kw: 55.
- Rt_sufx_kw_code: 53.
- Rt_sufx_kw_must: 53.
- Rt_sufx_phrase: 8.
- Rt_refs_code: 39, 40, 41, 42.
- Rt_refs_kw: 34.
- Rt_refs_kw_code: 33.
- Rt_refs_kw_must: 35, 36, 37, 38.
- Rt_refs_phrase: 31, 32.
- Rt_sufx_code: 61, 62, 63, 64.
- Rt_sufx_kw: 56.
- Rt_sufx_kw_code: 55.
- Rt_sufx_kw_must: 57, 58, 59, 60.
- Rt_sufx_phrase: 53, 54.
- Rterminals_phrase: 8.
- rule_info_: 8, 10, 12, 16, 17, 19, 20, 21, 23, 25, 26, 28, 29, 30, 32, 37, 38, 40, 41, 42, 45, 46, 47, 50, 51, 52, 54, 59, 60, 62, 63, 64, 66, 68, 73, 74.
- set_auto_delete: 16, 20, 25, 29, 34, 36, 37, 41, 46, 56, 58, 59, 63.
- set_content: 73.
- set_rc: 5, 10, 12, 16, 17, 20, 21, 23, 25, 26, 29, 30, 37, 38, 41, 42, 46, 47, 52, 59, 60, 63, 64, 66, 68, 73.
- set_stop_parse: 10, 12, 16, 17, 20, 21, 23, 25, 26, 29, 30, 37, 38, 41, 42, 45, 46, 47, 50, 51, 52, 59, 60, 63, 64, 66, 68, 74.
- sf: 16, 19, 20, 25, 28, 29, 32, 34, 36, 37, 38, 40, 41, 45, 46, 50, 52, 54, 56, 58, 59, 60, 62, 63, 73, 74.
- start_ERR: 52.
- start_token: 64.
- start_token_: 5, 42.
- sufx: 2.
- sym: 10, 12, 16, 17, 20, 21, 23, 25, 26, 29, 30, 37, 38, 41, 42, 46, 47, 52, 59, 60, 63, 64, 66, 68.
- syntax-code: 39, 61.
- T_cweb_comment: 73.
- T_cweb_marker: 73.
- T_Enum: 52.
- T_terminal_def: 45, 50.
- T_terminals_phrase: 5, 6.
- term_def_ph: 2.
- terminal: 2.
- terminal-def: 44, 49.
- terminal_def_phrase: 2.
- terminals: 2.
- terminals_phrase_: 4, 5, 6, 8, 19, 28, 32, 40, 45, 50, 51, 54, 62.
- terminals_phrase.th: 2.
- terminals_refs_code: 32, 40.
- terminals_sufx_code: 54, 62.
- true: 10, 12, 16, 17, 20, 21, 23, 25, 26, 29, 30, 34, 36, 37, 38, 41, 42, 45, 46, 47, 50, 51, 52, 56, 58, 59, 60, 63, 64, 66, 68, 74.

< Cterminals_phrase.th constructor directive 4 >
< Cterminals_phrase.th op directive 5 >
< Cterminals_phrase.th user-declaration directive 6 >
< Cterminals_phrase.th user-prefix-declaration directive 7 >
< Rclose_brace subrule 1 op directive 68 >
< Rclose_par subrule 1 op directive 12 >
< Rweb_k constructor directive 71 >
< Rweb_k subrule 1 op directive 73 >
< Rweb_k subrule 2 op directive 74 >
< Rweb_k user-declaration directive 72 >
< Rfilename subrule 2 op directive 16 >
< Rfilename subrule 3 op directive 17 >
< Rfilename_id subrule 1 op directive 19 >
< Rfilename_id subrule 2 op directive 20 >
< Rfilename_id subrule 3 op directive 21 >
< Rnamespace subrule 2 op directive 25 >
< Rnamespace subrule 3 op directive 26 >
< Rnamespace_id subrule 1 op directive 28 >
< Rnamespace_id subrule 2 op directive 29 >
< Rnamespace_id subrule 3 op directive 30 >
< Rnamespace_phrase subrule 2 op directive 23 >
< Ropen_brace subrule 1 op directive 66 >
< Ropen_par subrule 1 op directive 10 >
< Rsym_def subrule 1 op directive 45 >
< Rsym_def subrule 2 op directive 46 >
< Rsym_def subrule 3 op directive 47 >
< Rsym_def1 subrule 1 op directive 50 >
< Rsym_def1 subrule 2 op directive 51 >
< Rsym_def1 subrule 3 op directive 52 >
< Rt_refs_code subrule 1 op directive 40 >
< Rt_refs_code subrule 2 op directive 41 >
< Rt_refs_code subrule 3 op directive 42 >
< Rt_refs_kw subrule 1 op directive 34 >
< Rt_refs_kw_must subrule 1 op directive 36 >
< Rt_refs_kw_must subrule 2 op directive 37 >
< Rt_refs_kw_must subrule 3 op directive 38 >
< Rt_refs_phrase subrule 1 op directive 32 >
< Rt_sufx_code subrule 1 op directive 62 >
< Rt_sufx_code subrule 2 op directive 63 >
< Rt_sufx_code subrule 3 op directive 64 >
< Rt_sufx_kw subrule 1 op directive 56 >
< Rt_sufx_kw_must subrule 1 op directive 58 >
< Rt_sufx_kw_must subrule 2 op directive 59 >
< Rt_sufx_kw_must subrule 3 op directive 60 >
< Rt_sufx_phrase subrule 1 op directive 54 >
< Rterminals_phrase subrule 1 op directive 8 >

terminals_phrase_th Grammar

Date: January 2, 2015 at 15:39

File: terminals_phrase_th.lex Ns: NS_terminals_phrase_th

Version: 1.0

Debug: false

Grammar Comments:

Type: Thread

Parse terminals vocabulary.

1 element(s) in Lookahead Expression below

eolr

<i>terminals_phrase_th</i> thread	2	2
Fsm Cterminals_phrase_th class	3	2
Cterminals_phrase_th constructor directive	4	2
Cterminals_phrase_th op directive	5	3
Cterminals_phrase_th user-declaration directive	6	3
Cterminals_phrase_th user-prefix-declaration directive	7	3
<i>Rterminals_phrase</i> rule	8	3
<i>Ropen_par</i> rule	9	3
<i>Ropen_par</i> 's subrule 1	10	4
<i>Rclose_par</i> rule	11	4
<i>Rclose_par</i> 's subrule 1	12	4
<i>Rparameters</i> rule	13	4
<i>Rfilename_phrase</i> rule	14	4
<i>Rfilename</i> rule	15	4
<i>Rfilename</i> 's subrule 2	16	5
<i>Rfilename</i> 's subrule 3	17	5
<i>Rfilename_id</i> rule	18	5
<i>Rfilename_id</i> 's subrule 1	19	5
<i>Rfilename_id</i> 's subrule 2	20	5
<i>Rfilename_id</i> 's subrule 3	21	6
<i>Rnamespace_phrase</i> rule	22	6
<i>Rnamespace_phrase</i> 's subrule 2	23	6
<i>Rnamespace</i> rule	24	6
<i>Rnamespace</i> 's subrule 2	25	6
<i>Rnamespace</i> 's subrule 3	26	7
<i>Rnamespace_id</i> rule	27	7
<i>Rnamespace_id</i> 's subrule 1	28	7
<i>Rnamespace_id</i> 's subrule 2	29	7
<i>Rnamespace_id</i> 's subrule 3	30	7
<i>Rt_refs_phrase</i> rule	31	8
<i>Rt_refs_phrase</i> 's subrule 1	32	8
<i>Rt_refs_kw_code</i> rule	33	8
<i>Rt_refs_kw</i> rule	34	8
<i>Rt_refs_kw_must</i> rule	35	8
<i>Rt_refs_kw_must</i> 's subrule 1	36	9
<i>Rt_refs_kw_must</i> 's subrule 2	37	9
<i>Rt_refs_kw_must</i> 's subrule 3	38	9
<i>Rt_refs_code</i> rule	39	9
<i>Rt_refs_code</i> 's subrule 1	40	9
<i>Rt_refs_code</i> 's subrule 2	41	10
<i>Rt_refs_code</i> 's subrule 3	42	10
<i>Rsym_defs_phrase</i> rule	43	10
<i>Rsym_def</i> rule	44	10
<i>Rsym_def</i> 's subrule 1	45	10
<i>Rsym_def</i> 's subrule 2	46	11
<i>Rsym_def</i> 's subrule 3	47	11
<i>Rsym_def1s</i> rule	48	11
<i>Rsym_def1</i> rule	49	11
<i>Rsym_def1</i> 's subrule 1	50	12
<i>Rsym_def1</i> 's subrule 2	51	12
<i>Rsym_def1</i> 's subrule 3	52	12
<i>Rt_sufx_phrase</i> rule	53	12

<i>Rt_sufx_phrase</i> 's subrule 1	54	13
<i>Rt_sufx_kw_code</i> rule	55	13
<i>Rt_sufx_kw</i> rule	56	13
<i>Rt_sufx_kw_must</i> rule	57	13
<i>Rt_sufx_kw_must</i> 's subrule 1	58	13
<i>Rt_sufx_kw_must</i> 's subrule 2	59	14
<i>Rt_sufx_kw_must</i> 's subrule 3	60	14
<i>Rt_sufx_code</i> rule	61	14
<i>Rt_sufx_code</i> 's subrule 1	62	14
<i>Rt_sufx_code</i> 's subrule 2	63	14
<i>Rt_sufx_code</i> 's subrule 3	64	15
<i>Ropen_brace</i> rule	65	15
<i>Ropen_brace</i> 's subrule 1	66	15
<i>Rclose_brace</i> rule	67	15
<i>Rclose_brace</i> 's subrule 1	68	15
<i>Rlint</i> rule	69	15
<i>Rcweb_k</i> rule	70	16
<i>Rcweb_k</i> constructor directive	71	16
<i>Rcweb_k</i> user-declaration directive	72	16
<i>Rcweb_k</i> 's subrule 1	73	16
<i>Rcweb_k</i> 's subrule 2	74	16
First Set Language for O_2^{linker}	75	17
Lr1 State Network	76	18
Index	77	29