

**1. Copyright.**

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**2. *fsm\_class\_phrase.th* Thread.**

Parse fsm-class phrase along with its directives.

*cweave* coughs so forgive it until i correct *cweave*.

Example of a fsm's class to parse:

```

/*
file: fsmclass.txt
Why: example of text to parse by fsm's class construct.
*/
fsm-class Crule_lhs_phrase{
  user-prefix-declaration
    using namespace NS_yacco2_terminals;
#include "lint_balls.h"
  ***
  user-declaration
    public:
    void add_sdc_to_directive(yacco2::CAbs_lr1_sym* Dir,T_syntax_code* Sdc);
    T_rule_lhs_phrase* rule_lhs_phrase_;
  ***
  user-implementation
    void Crule_lhs_phrase::
    add_sdc_to_directive(yacco2::CAbs_lr1_sym* Dir,T_syntax_code* Sdc){
      using namespace NS_yacco2_T_enum;
      using namespace NS_yacco2_terminals;
      yacco2::INT eid = Dir->enumerated_id();
      switch (eid){
        case T_Enum::T_T_user_implementation_: {
          T_user_implementation* k = (T_user_implementation*)Dir;
          k->syntax_code(Sdc);
          break;
        }
        default: {
          CAbs_lr1_sym* sym = new LR1_err_improper_directive;
          sym->set_rc(*Dir,*parser());
          RSVP_FSM(sym);
          parser()->set_stop_parse(true);
        }
      }
    }
  }
  ***
  op
    rule_lhs_phrase_ = new T_rule_lhs_phrase;
    rule_lhs_phrase_->set_rc(*parser()->start_token(),*parser());
    AST* t = new AST(*rule_lhs_phrase_);
    rule_lhs_phrase_->phrase_tree(t);
  ***
  constructor
    rule_lhs_phrase_ = 0;
  ***
}

```

**3. Fsm Cfm\_class\_phrase.th class.****4. Cfm\_class\_phrase.th constructor directive.**

⟨ Cfm\_class\_phrase.th constructor directive 4 ⟩ ≡

```
fsm_class_phrase_ = 0;
```

**5. Cfm\_class\_phrase.th op directive.**

⟨ Cfm\_class\_phrase.th op directive 5 ⟩ ≡

```
if (fsm_class_phrase_ ≠ 0) {
  delete fsm_class_phrase_;
  fsm_class_phrase_ = 0;
}
fsm_class_phrase_ = new T_fsm_class_phrase;
fsm_class_phrase_→set.rc(*parser_→start_token_, __FILE__, __LINE__);
AST *t = new AST(*fsm_class_phrase_);
fsm_class_phrase_→phrase_tree(t);
```

**6. Cfm\_class\_phrase.th user-declaration directive.**

⟨ Cfm\_class\_phrase.th user-declaration directive 6 ⟩ ≡

```
public: T_fsm_class_phrase * fsm_class_phrase_;
std::map < std::string, yacco2::CAbs_lr1_sym *> directives_map_;
void remove_directives_from_map();
yacco2::CAbs_lr1_sym * add_directive_to_map(yacco2::CAbs_lr1_sym * Directive);
void add_sdc_to_directive(yacco2::CAbs_lr1_sym * Dir, T_syntax_code * Sdc);
```

**7. Cfm\_class\_phrase.th user-implementation directive.**

⟨ Cfm\_class\_phrase.th user-implementation directive 7 ⟩ ≡

```
void Cfm_class_phrase.th::remove_directives_from_map()
{
  delete fsm_class_phrase_;
  fsm_class_phrase_ = 0;
}
```

**8. add\_directive\_to\_map.**

⟨ More code 8 ⟩ ≡

```
yacco2::CAbs_lr1_sym * /* 0 - ok, or error */
Cfm_class_phrase.th::add_directive_to_map(yacco2::CAbs_lr1_sym * Directive)
{
  CAbs_lr1_sym * sym = fsm_class_phrase_→add_directive_to_map(Directive, parser_);
  return sym;
}
```

See also section 9.

9. *add\_sdc\_to\_directive*.

⟨More code 8⟩ +≡

```

void Cfsm_class_phrase_th::add_sdc_to_directive(yacco2::CAbs_lr1_sym * Dr, T_syntax_code * Sdc){
    using namespace NS_yacco2_T_enum;
    int eid = Dr->enumerated_id_; switch (eid) { case T_Enum::T_T_user_declaration_: {
        T_user_declaration * k = ( T_user_declaration * ) Dr;
        k->syntax_code(Sdc);
        break; } case T_Enum::T_T_user_prefix_declaration_: { T_user_prefix_declaration * k = (
        T_user_prefix_declaration * ) Dr;
        k->syntax_code(Sdc);
        break; } case T_Enum::T_T_user_suffix_declaration_: { T_user_suffix_declaration * k = (
        T_user_suffix_declaration * ) Dr;
        k->syntax_code(Sdc);
        break; } case T_Enum::T_T_constructor_: { T_constructor * k = ( T_constructor * ) Dr;
        k->syntax_code(Sdc);
        break; } case T_Enum::T_T_destructor_: { T_destructor * k = ( T_destructor * ) Dr;
        k->syntax_code(Sdc);
        break; } case T_Enum::T_T_op_: { T_op * k = ( T_op * ) Dr;
        k->syntax_code(Sdc);
        break; } case T_Enum::T_T_failed_: { T_failed * k = ( T_failed * ) Dr;
        k->syntax_code(Sdc);
        break; } case T_Enum::T_T_user_implementation_: { T_user_implementation * k = (
        T_user_implementation * ) Dr;
        k->syntax_code(Sdc);
        break; } case T_Enum::T_T_user_imp_tbl_: { T_user_imp_tbl * k = ( T_user_imp_tbl * ) Dr;
        k->syntax_code(Sdc);
        break; } case T_Enum::T_T_user_imp_sym_: { T_user_imp_sym * k = ( T_user_imp_sym * ) Dr;
        k->syntax_code(Sdc);
        break; }
    default:
    {
        CAbs_lr1_sym * sym = new Err_improper_directive;
        sym->set_rc(*Dr, __FILE__, __LINE__);
        RSVP_FSM(sym);
        parser->set_stop_parse(true);
    }
}

```

10. *Cfsm\_class\_phrase\_th* user-prefix-declaration directive.

⟨Cfsm\_class\_phrase\_th user-prefix-declaration directive 10⟩ ≡

```

using namespace NS_yacco2_terminals;
#include "lint_balls.h"
#include "cweb_or_c_k.h"
#include "identifier.h"
#include "o2_sdc.h"

```

11. *Rfsm\_class\_phrase\_th* rule.

Rfsm\_class\_phrase\_th

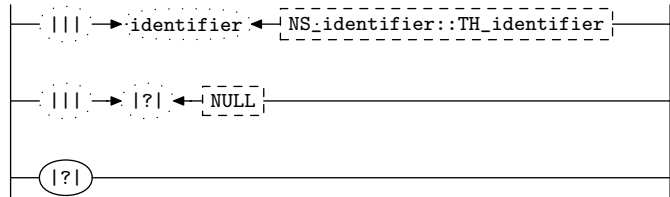
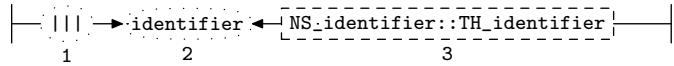


⟨Rfsm\_class\_phrase\_th subrule 1 op directive 11⟩ ≡

```
Cfsm_class_phrase_th * fsm = ( Cfsm_class_phrase_th * ) rule_info_.parser_--fsm_tbl_;
RSVP(fsm->fsm_class_phrase_);
fsm->fsm_class_phrase_ = 0;
```

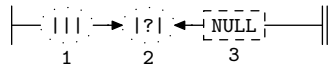
12. *Rid* rule.

Rid

13. *Rid*'s subrule 1.

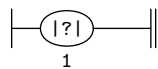
⟨Rid subrule 1 op directive 13⟩ ≡

```
Cfsm_class_phrase_th * fsm = ( Cfsm_class_phrase_th * ) rule_info_.parser_--fsm_tbl_;
fsm->fsm_class_phrase_--identifier(sf->p2_--);
```

14. *Rid*'s subrule 2.

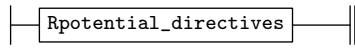
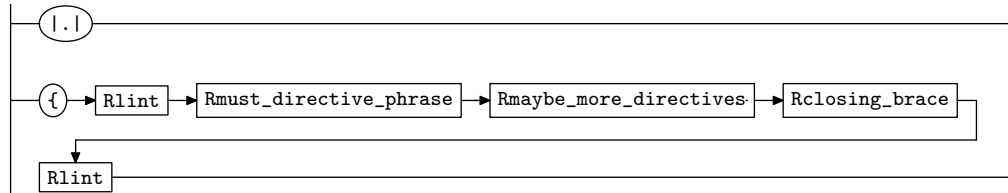
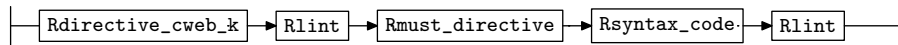
⟨Rid subrule 2 op directive 14⟩ ≡

```
sf->p2_--set_auto_delete(true);
CAbs_lr1_sym * sym = new Err_no_identifier_present;
sym->set_rc(*sf->p2_--, __FILE__, __LINE__);
RSVP(sym);
rule_info_.parser_--set_stop_parse(true);
```

15. *Rid*'s subrule 3.

⟨Rid subrule 3 op directive 15⟩ ≡

```
CAbs_lr1_sym * sym = new Err_no_identifier_present;
sym->set_rc(*rule_info_.parser_--current_token(), __FILE__, __LINE__);
RSVP(sym);
rule_info_.parser_--set_stop_parse(true);
```

16. *Rpotential\_code\_blk* rule.*Rpotential\_code\_blk*17. *Rpotential\_directives* rule.*Rpotential\_directives*18. *Rmust\_directive\_phrase* rule.*Rmust\_directive\_phrase*

⟨ *Rmust\_directive\_phrase* subrule 1 op directive 18 ⟩ ≡

*AST* \* *cwebt* = *sf*→*p1*→*cweb\_t*;

*Rmust\_directive* \* *dir* = *sf*→*p3*→;

*Rsyntax\_code* \* *sd* = *sf*→*p4*→;

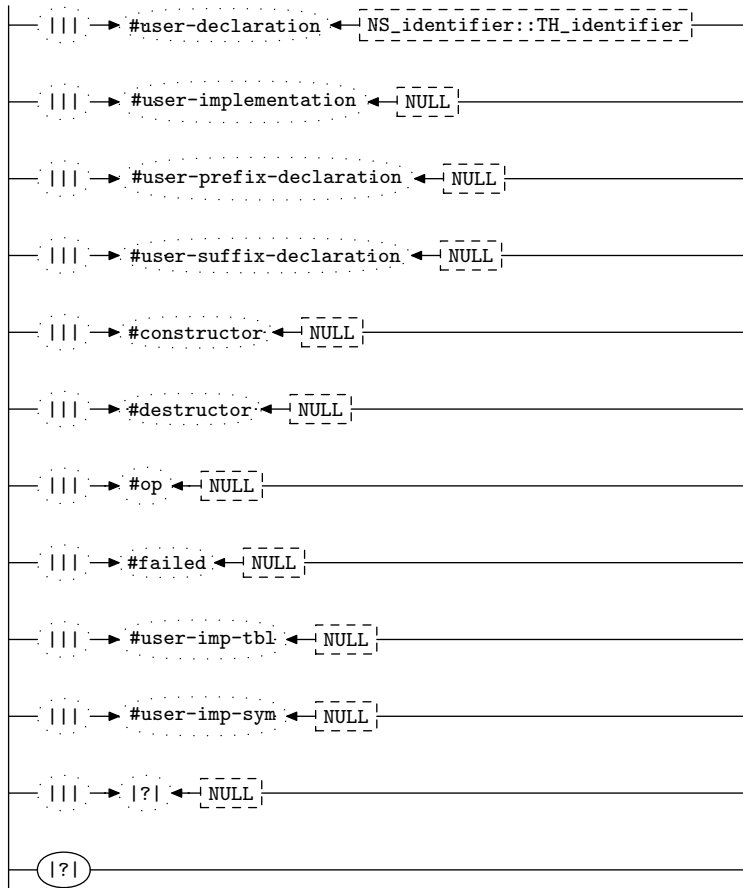
**if** (*cwebt* ≠ 0) *sd*→*syntax\_code*→*add\_cweb\_marker*(*cwebt*);

*Cfsm\_class\_phrase.th* \* *fsm* = ( *Cfsm\_class\_phrase.th* \* ) *rule\_info*→*parser*→*fsm.tbl*→;

*fsm*→*add\_sdc\_to\_directive*(*dir*→*directive*→, *sd*→*syntax\_code*→);

19. *Rmust\_directive* rule.

Rmust\_directive

20. *Rmust\_directive op directive*.

⟨Rmust\_directive op directive 20⟩ ≡

**if** (*directive\_* ≡ 0) **return**;

*Cfsm\_class\_phrase\_th* \* *fsm* = ( *Cfsm\_class\_phrase\_th* \* ) *rule\_info\_.parser\_*→*fsm.tbl\_*;

*CAbs\_lr1\_sym* \* *result* = *fsm*→*add\_directive\_to\_map*(*directive\_*);

**if** (*result* ≡ 0) **return**; /\* ok added \*/

*directive\_*→*set\_auto\_delete*(*true*); /\* dup: delete when popped from stack \*/

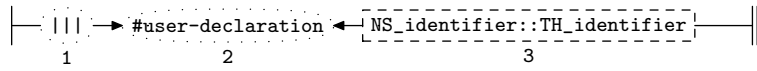
RSVP(*result*);

*rule\_info\_.parser\_*→*set\_stop\_parse*(*true*);

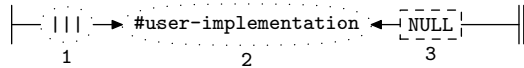
21. *Rmust\_directive user-declaration directive*.

⟨Rmust\_directive user-declaration directive 21⟩ ≡

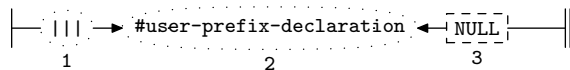
*CAbs\_lr1\_sym* \* *directive\_*;

**22.** *Rmust\_directive*'s subrule 1.

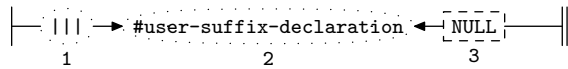
$\langle \text{Rmust\_directive subrule 1 op directive 22} \rangle \equiv$   
*directive\_ = sf-p2\_;*

**23.** *Rmust\_directive*'s subrule 2.

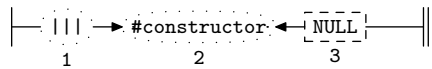
$\langle \text{Rmust\_directive subrule 2 op directive 23} \rangle \equiv$   
*directive\_ = sf-p2\_;*

**24.** *Rmust\_directive*'s subrule 3.

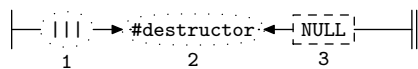
$\langle \text{Rmust\_directive subrule 3 op directive 24} \rangle \equiv$   
*directive\_ = sf-p2\_;*

**25.** *Rmust\_directive*'s subrule 4.

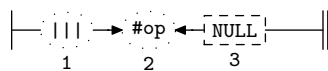
$\langle \text{Rmust\_directive subrule 4 op directive 25} \rangle \equiv$   
*directive\_ = sf-p2\_;*

**26.** *Rmust\_directive*'s subrule 5.

$\langle \text{Rmust\_directive subrule 5 op directive 26} \rangle \equiv$   
*directive\_ = sf-p2\_;*

**27.** *Rmust\_directive*'s subrule 6.

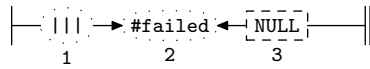
$\langle \text{Rmust\_directive subrule 6 op directive 27} \rangle \equiv$   
*directive\_ = sf-p2\_;*

**28.** *Rmust\_directive*'s subrule 7.

$\langle \text{Rmust\_directive subrule 7 op directive 28} \rangle \equiv$   
*directive\_ = sf-p2\_;*

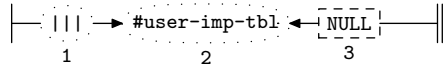


**29. *Rmust\_directive*'s subrule 8.**



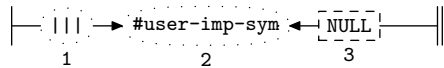
⟨Rmust\_directive subrule 8 op directive 29⟩ ≡  
*directive\_ = sf-p2\_;*

**30. *Rmust\_directive*'s subrule 9.**



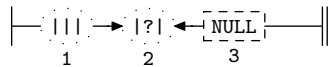
⟨Rmust\_directive subrule 9 op directive 30⟩ ≡  
*directive\_ = sf-p2\_;*

**31. *Rmust\_directive*'s subrule 10.**



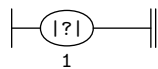
⟨Rmust\_directive subrule 10 op directive 31⟩ ≡  
*directive\_ = sf-p2\_;*

**32. *Rmust\_directive*'s subrule 11.**



⟨Rmust\_directive subrule 11 op directive 32⟩ ≡  
*directive\_ = 0;*  
*sf-p2\_>set\_auto\_delete(true);*  
*CAbs\_lr1\_sym \* sym = new Err\_improper\_directive;*  
*sym->set\_rc(\*sf-p2\_, \_\_FILE\_\_, \_\_LINE\_\_);*  
*RSVP(sym);*  
*rule\_info\_.parser->set\_stop\_parse(true);*

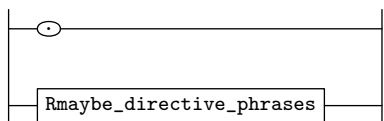
**33. *Rmust\_directive*'s subrule 12.**

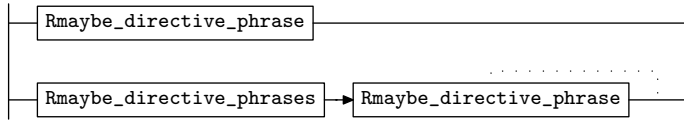
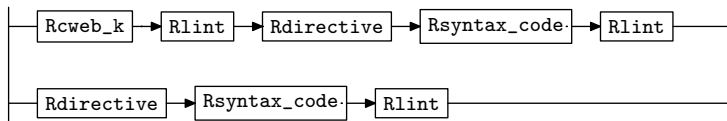
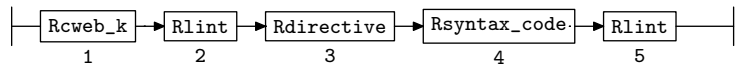


⟨Rmust\_directive subrule 12 op directive 33⟩ ≡  
*directive\_ = 0;*  
*CAbs\_lr1\_sym \* sym = new Err\_no\_directive\_present;*  
*sym->set\_rc(\*sf-p1\_, \_\_FILE\_\_, \_\_LINE\_\_);*  
*RSVP(sym);*  
*rule\_info\_.parser->set\_stop\_parse(true);*

**34. *Rmaybe\_more\_directives* rule.**

*Rmaybe\_more\_directives*



**35.** *Rmaybe\_directive\_phrases* rule.*Rmaybe\_directive\_phrases***36.** *Rmaybe\_directive\_phrase* rule.*Rmaybe\_directive\_phrase***37.** *Rmaybe\_directive\_phrase*'s subrule 1.

⟨ *Rmaybe\_directive\_phrase* subrule 1 op directive 37 ⟩ ≡

*AST* \* *cwebt* = *sf-p1--cweb.t*;

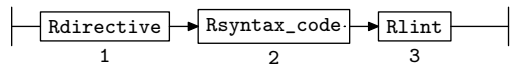
*Rdirective* \* *dir* = *sf-p3--*;

*Rsyntax\_code* \* *sdc* = *sf-p4--*;

**if** (*cwebt* ≠ 0) *sdc-syntax\_code*→*add\_cweb\_marker*(*cwebt*);

*Cfsm\_class\_phrase.th* \* *fsm* = ( *Cfsm\_class\_phrase.th* \* ) *rule\_info--parser--fsm.tbl*;

*fsm-add\_sdc\_to\_directive*(*dir*→*directive*., *sdc*→*syntax\_code*.);

**38.** *Rmaybe\_directive\_phrase*'s subrule 2.

⟨ *Rmaybe\_directive\_phrase* subrule 2 op directive 38 ⟩ ≡

*Rdirective* \* *dir* = *sf-p1--*;

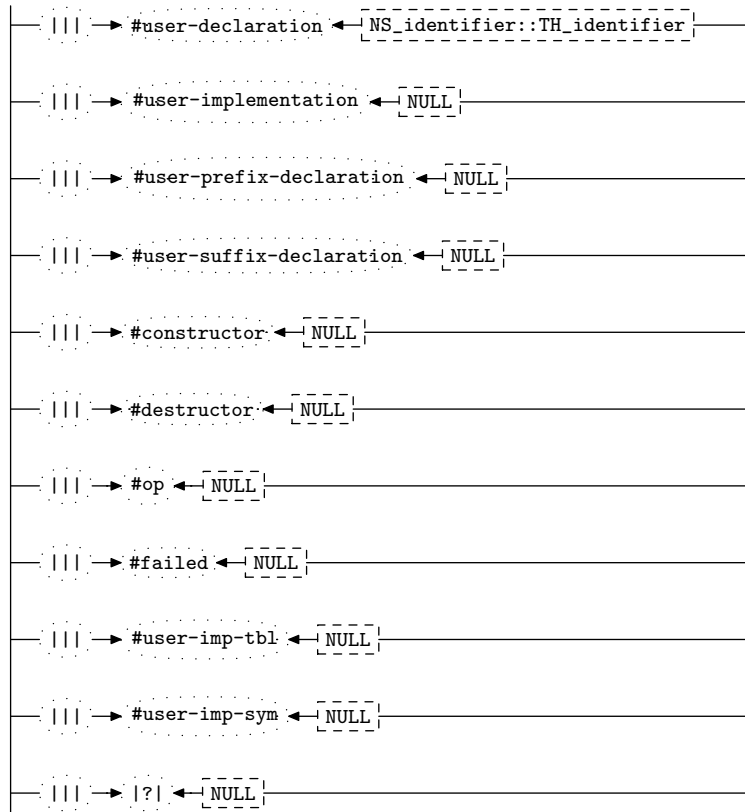
*Rsyntax\_code* \* *sdc* = *sf-p2--*; *Cfsm\_class\_phrase.th* \* *fsm* = ( *Cfsm\_class\_phrase.th* \* )

*rule\_info--parser--fsm.tbl*;

*fsm-add\_sdc\_to\_directive*(*dir*→*directive*., *sdc*→*syntax\_code*.);

**39. Rdirective rule.**

Rdirective

**40. Rdirective op directive.**

⟨Rdirective op directive 40⟩ ≡

```

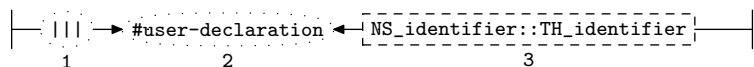
if (directive_ ≡ 0) return;
Cfsm_class_phrase.th * fsm = ( Cfsm_class_phrase.th * ) rule_info_.parser_--fsm.tbl_;
CAbs_lr1_sym * result = fsm-add_directive_to_map(directive_);
if (result ≡ 0) return; /* ok added */
directive_→set_auto_delete(true); /* dup: delete when popped from stack */
RSVP(result);
rule_info_.parser_→set_stop_parse(true);

```

**41. Rdirective user-declaration directive.**

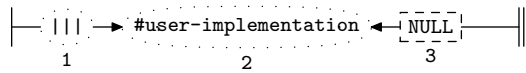
⟨Rdirective user-declaration directive 41⟩ ≡

```
CAbs_lr1_sym * directive_;
```

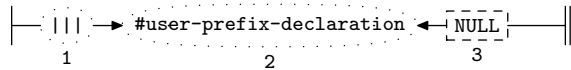
**42. Rdirective's subrule 1.**

⟨Rdirective subrule 1 op directive 42⟩ ≡

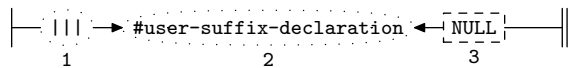
```
directive_ = sf-p2_;
```

**43. *Rdirective's* subrule 2.**

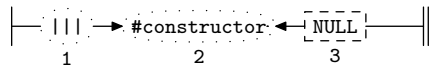
$\langle \text{Rdirective subrule 2 op directive 43} \rangle \equiv$   
 $\text{directive}_- = \text{sf-p2}_-;$

**44. *Rdirective's* subrule 3.**

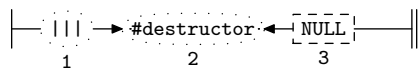
$\langle \text{Rdirective subrule 3 op directive 44} \rangle \equiv$   
 $\text{directive}_- = \text{sf-p2}_-;$

**45. *Rdirective's* subrule 4.**

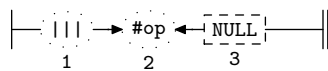
$\langle \text{Rdirective subrule 4 op directive 45} \rangle \equiv$   
 $\text{directive}_- = \text{sf-p2}_-;$

**46. *Rdirective's* subrule 5.**

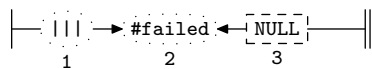
$\langle \text{Rdirective subrule 5 op directive 46} \rangle \equiv$   
 $\text{directive}_- = \text{sf-p2}_-;$

**47. *Rdirective's* subrule 6.**

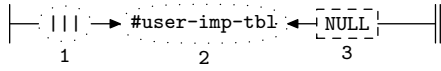
$\langle \text{Rdirective subrule 6 op directive 47} \rangle \equiv$   
 $\text{directive}_- = \text{sf-p2}_-;$

**48. *Rdirective's* subrule 7.**

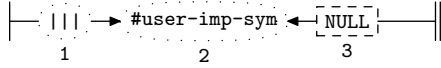
$\langle \text{Rdirective subrule 7 op directive 48} \rangle \equiv$   
 $\text{directive}_- = \text{sf-p2}_-;$

**49. *Rdirective's* subrule 8.**

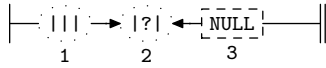
$\langle \text{Rdirective subrule 8 op directive 49} \rangle \equiv$   
 $\text{directive}_- = \text{sf-p2}_-;$

**50. Rdirective's subrule 9.**

⟨Rdirective subrule 9 op directive 50⟩ ≡  
*directive\_ = sf-p2\_;*

**51. Rdirective's subrule 10.**

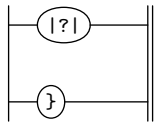
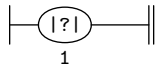
⟨Rdirective subrule 10 op directive 51⟩ ≡  
*directive\_ = sf-p2\_;*

**52. Rdirective's subrule 11.**

⟨Rdirective subrule 11 op directive 52⟩ ≡  
*directive\_ = 0;*  
*sf-p2\_→set\_auto\_delete(true);*  
*CAbs\_lr1\_sym \* sym = new Err\_improper\_directive;*  
*sym→set\_rc(\*sf-p2\_, \_\_FILE\_\_, \_\_LINE\_\_);*  
*RSVP(sym);*  
*rule\_info\_→parser\_→set\_stop\_parse(true);*

**53. Rclosing\_brace rule.**

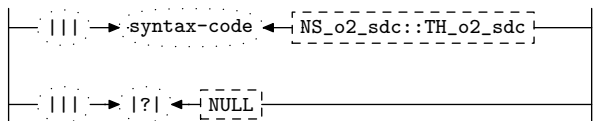
Rclosing\_brace

**54. Rclosing\_brace's subrule 1.**

⟨Rclosing\_brace subrule 1 op directive 54⟩ ≡  
*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);*

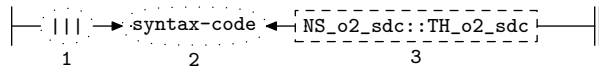
**55. Rsyntax\_code rule.**

Rsyntax\_code

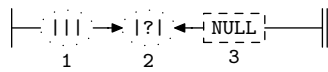


**56. Rsyntax\_code user-declaration directive.**

⟨Rsyntax\_code user-declaration directive 56⟩ ≡  
*T\_syntax\_code* \* *syntax\_code\_*;

**57. Rsyntax\_code's subrule 1.**

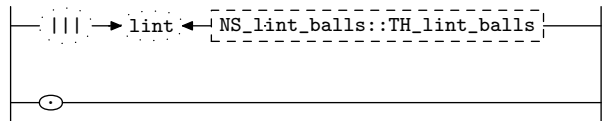
⟨Rsyntax\_code subrule 1 op directive 57⟩ ≡  
*syntax\_code\_* = *sf-p2\_*;

**58. Rsyntax\_code's subrule 2.**

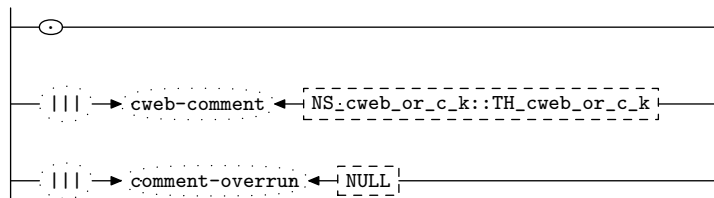
⟨Rsyntax\_code subrule 2 op directive 58⟩ ≡  
*syntax\_code\_* = 0;  
 RSVP(*sf-p2\_*);  
*rule\_info\_.parser\_*→*set\_stop\_parse*(*true*);

**59. Rlint rule.**

Rlint

**60. Rdirective\_cweb\_k rule.**

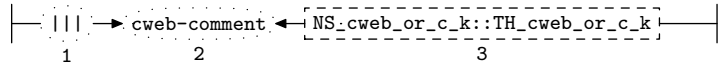
Rdirective\_cweb\_k

**61. Rdirective\_cweb\_k constructor directive.**

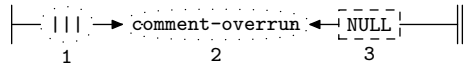
⟨Rdirective\_cweb\_k constructor directive 61⟩ ≡  
*cweb\_t\_* = 0;

**62. Rdirective\_cweb\_k user-declaration directive.**

⟨Rdirective\_cweb\_k user-declaration directive 62⟩ ≡  
 AST \* *cweb\_t\_*;

**63. Rdirective\_cweb\_k's subrule 2.**

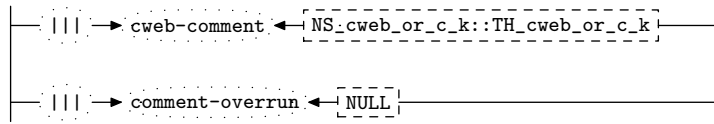
⟨Rdirective\_cweb\_k subrule 2 op directive 63⟩ ≡  
*T\_cweb\_comment* \* *k* = *sf-p2\_*;  
 AST \* *cwebk\_t\_* = new AST(\**k*);  
*cweb\_t\_* = new AST();  
*T\_cweb\_marker* \* *cw* = new *T\_cweb\_marker*(*cweb\_t\_*);  
 AST::*set\_content*(\**cweb\_t\_*, \**cw*);  
*cw*→*set\_rc*(\**k*, \_\_FILE\_\_, \_\_LINE\_\_);  
 AST::*join\_pts*(\**cweb\_t\_*, \**cwebk\_t\_*);

**64. Rdirective\_cweb\_k's subrule 3.**

⟨Rdirective\_cweb\_k subrule 3 op directive 64⟩ ≡  
 RSVP(*sf-p2\_*);  
*rule\_info\_*→*parser\_*→*set\_stop\_parse*(*true*);

**65. Rcweb\_k rule.**

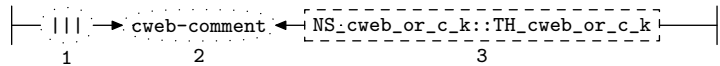
Rcweb\_k

**66. Rcweb\_k constructor directive.**

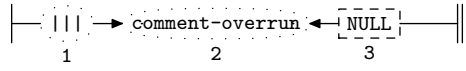
⟨Rcweb\_k constructor directive 66⟩ ≡  
*cweb\_t\_* = 0;

**67. Rcweb\_k user-declaration directive.**

⟨Rcweb\_k user-declaration directive 67⟩ ≡  
 AST \* *cweb\_t\_*;

**68. Rcweb\_k's subrule 1.**

⟨Rcweb\_k subrule 1 op directive 68⟩ ≡  
*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\_*);  
 AST::*set\_content*(\**cweb\_t\_*, \**cw*);  
*cw*→*set\_rc*(\**k*, \_\_FILE\_\_, \_\_LINE\_\_);  
 AST::*join\_pts*(\**cweb\_t\_*, \**cwebk\_t\_*);

**69.** *Rcweb\_k's subrule 2.*

⟨ Rcweb\_k subrule 2 op directive 69 ⟩ ≡  
 RSVP(*sf-p2*);  
*rule\_info\_parser--set\_stop\_parse(true)*;



**70. First Set Language for  $O_2^{linker}$ .**

```
/*
  File: fsm_class_phrase_th.fsc
  Date and Time: Fri Jan  2 15:33:37 2015
*/
transitive      y
grammar-name    "fsm_class_phrase_th"
name-space     "NS_fsm_class_phrase_th"
thread-name    "TH_fsm_class_phrase_th"
monolithic     n
file-name      "fsm_class_phrase_th.fsc"
no-of-T        569
list-of-native-first-set-terminals 1
  LR1_questionable_shift_operator
end-list-of-native-first-set-terminals
list-of-transitive-threads 1
  NS_identifier::TH_identifier
end-list-of-transitive-threads
list-of-used-threads 4
  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
end-list-of-used-threads
fsm-comments
"Parse the fsm-class grammar construct."
```

## 71. Lr1 State Network.

$\Rightarrow$					State: 1 state type: $s$			
$\leftarrow$	rule	$\rightarrow$	R# sr# Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA	
c	Rid		2 3 1	?			1 2 2	
c	Rid		2 1 1	identifier NS.identifier::TH.identifier			1 3 5	
c	Rid		2 2 1	?  NULL			1 3 4	
c	Rfsm_class_phrase_th		1 1 1	Rid <u>Rlint<math>^{\epsilon}</math></u> <u>Rpotential_code_blk</u>			1 6 19	
$\Rightarrow$	?				State: 2 state type: $r$			
$\leftarrow$	rule	$\rightarrow$	R# sr# Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA	
t	Rid		2 3 2				1 0 2 1	
$\Rightarrow$	arbitration_code: $\epsilon$				State: 3 state type: $s$			
$\leftarrow$	rule	$\rightarrow$	R# sr# Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA	
t	Rid		2 2 2	?			1 4 4	
t	Rid		2 1 2	identifier			1 5 5	
$\Rightarrow$	?				State: 4 state type: $r$			
$\leftarrow$	rule	$\rightarrow$	R# sr# Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA	
t	Rid		2 2 3				1 0 4 1	
$\Rightarrow$	identifier				State: 5 state type: $r$			
$\leftarrow$	rule	$\rightarrow$	R# sr# Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA	
t	Rid		2 1 3				1 0 5 1	
$\Rightarrow$	Rid				State: 6 state type: $s/r$			
$\leftarrow$	rule	$\rightarrow$	R# sr# Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA	
c	Rlint		13 2 1	$\epsilon$			6 0 6 2	
c	Rlint		13 1 1	lint NS.lint_balls::TH.lint_balls			6 16 17	
t	Rfsm_class_phrase_th		1 1 2	Rlint <u>Rpotential_code_blk</u>			1 7 19	
$\Rightarrow$	Rlint				State: 7 state type: $s$			
$\leftarrow$	rule	$\rightarrow$	R# sr# Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA	
c	Rpotential_directives		4 1 1	.			7 8 8	
c	Rpotential_directives		4 2 1	{			7 9 18	
t	Rfsm_class_phrase_th		1 1 3	Rpotential_code_blk			1 19 19	
c	Rpotential_code_blk		3 1 1	Rpotential_directives			7 20 20	
$\Rightarrow$	.				State: 8 state type: $r$			
$\leftarrow$	rule	$\rightarrow$	R# sr# Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA	
t	Rpotential_directives		4 1 2				7 0 8 3	
$\Rightarrow$	{				State: 9 state type: $s/r$			
$\leftarrow$	rule	$\rightarrow$	R# sr# Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA	
c	Rlint		13 2 1	$\epsilon$			9 0 9 4	
c	Rlint		13 1 1	lint NS.lint_balls::TH.lint_balls			9 16 17	
t	Rpotential_directives		4 2 2	Rlint <u>Rmust_directive_phrase</u>			7 10 18	
$\Rightarrow$	Rlint				State: 10 state type: $s/r$			
$\leftarrow$	rule	$\rightarrow$	R# sr# Po	$\leftarrow$	subrule element	$\rightarrow$	Brn Gto Red LA	
c	Rdirective_cweb_k		14 1 1	$\epsilon$			10 0 10 4	

c	Rdirective_cweb_k	14	3	1	comment-overflow NULL					10	21	23
c	Rdirective_cweb_k	14	2	1	cweb-comment NS_cweb_or_c.k::TH_cweb_or_c.k					10	21	22
t	Rpotential_directives	4	2	3	Rmust_directive_phrase <u>Rmaybe_more_directives<sup>ε</sup></u> <u>Rclosing_brace</u>					7	11	18
c	Rmust_directive_phrase	5	1	1	Rdirective_cweb_k <u>Rlint<sup>ε</sup></u> <u>Rmust_directive</u>					10	24	31

⇒ *Rmust\_directive\_phrase*

State: 11 state type: *s/r*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rmaybe_more_directives		7	1	1	ε			11	0	11	5
c	Rdirective		10	1	1	# user-declaration NS_identifier::TH_identifier			11	32	34	
c	Rdirective		10	3	1	# user-prefix-declaration NULL			11	32	35	
c	Rdirective		10	5	1	# constructor NULL			11	32	37	
c	Rdirective		10	8	1	# failed NULL			11	32	40	
c	Rdirective		10	10	1	# user-imp-sym NULL			11	32	43	
c	Rcweb_k		15	1	1	cweb-comment NS_cweb_or_c.k::TH_cweb_or_c.k			11	32	44	
c	Rdirective		10	2	1	# user-implementation NULL			11	32	41	
c	Rdirective		10	4	1	# user-suffix-declaration NULL			11	32	36	
c	Rdirective		10	6	1	# destructor NULL			11	32	38	
c	Rdirective		10	7	1	# op NULL			11	32	39	
c	Rdirective		10	9	1	# user-imp-tbl NULL			11	32	42	
c	Rdirective		10	11	1	?  NULL			11	32	33	
c	Rcweb_k		15	2	1	comment-overflow NULL			11	32	45	
t	Rpotential_directives		4	2	4	Rmaybe_more_directives <u>Rclosing_brace</u>			7	12	18	
c	Rmaybe_more_directives		7	2	1	Rmaybe_directive_phrases			11	46	46	
c	Rmaybe_directive_phrases		8	2	1	Rmaybe_directive_phrases <u>Rmaybe_directive_phrase</u>			11	46	47	
c	Rmaybe_directive_phrases		8	1	1	Rmaybe_directive_phrase			11	56	56	
c	Rmaybe_directive_phrase		9	2	1	Rdirective <u>Rsyntax_code</u>			11	48	50	
c	Rmaybe_directive_phrase		9	1	1	Rcweb_k <u>Rlint<sup>ε</sup></u> <u>Rdirective</u>			11	51	55	

⇒ *Rmaybe\_more\_directives*

State: 12 state type: *s*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rclosing_brace		11	1	1	?			12	13	13	
c	Rclosing_brace		11	2	1	}			12	14	14	
t	Rpotential_directives		4	2	5	Rclosing_brace <u>Rlint<sup>ε</sup></u>			7	15	18	

⇒ *|?|*

State: 13 state type: *r*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rclosing_brace		11	1	2				12	0	13	3

⇒ *}*

State: 14 state type: *r*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rclosing_brace		11	2	2				12	0	14	3

⇒ *Rclosing\_brace*

State: 15 state type: *s/r*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rlint		13	2	1	ε			15	0	15	3
c	Rlint		13	1	1	lint NS_lint_balls::TH_lint_balls			15	16	17	
t	Rpotential_directives		4	2	6	Rlint			7	18	18	

⇒ *||| arbitration-code: ε*

State: 16 state type: *s*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlint		13	1	2	lint			15	17	17	

$\Rightarrow$ <i>lint</i>					State: 17 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rlint	13	1	3				15	0	17	3
$\Rightarrow$ <i>Rlint</i>					State: 18 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rpotential.directives	4	2	7				7	0	18	3
$\Rightarrow$ <i>Rpotential_code_blk</i>					State: 19 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rfsm_class_phrase_th	1	1	4				1	0	19	3
$\Rightarrow$ <i>Rpotential_directives</i>					State: 20 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rpotential.code_blk	3	1	2				7	0	20	3
$\Rightarrow$ <i>    arbitration-code: <math>\epsilon</math></i>					State: 21 state type: <i>s</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rdirective_cweb.k	14	2	2	cweb-comment			10	22	22	
t Rdirective_cweb.k	14	3	2	comment-overrun			10	23	23	
$\Rightarrow$ <i>cweb-comment</i>					State: 22 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rdirective_cweb.k	14	2	3				10	0	22	4
$\Rightarrow$ <i>comment-overrun</i>					State: 23 state type: <i>r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rdirective_cweb.k	14	3	3				10	0	23	4
$\Rightarrow$ <i>Rdirective_cweb_k</i>					State: 24 state type: <i>s/r</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c Rlint	13	2	1	$\epsilon$			24	0	24	4
c Rlint	13	1	1	lint NS_lint_balls::TH_lint_balls			24	16	17	
t Rmust_directive_phrase	5	1	2	Rlint <u>Rmust_directive</u>			10	25	31	
$\Rightarrow$ <i>Rlint</i>					State: 25 state type: <i>s</i>					
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c Rmust_directive	6	12	1	?			25	57	57	
c Rmust_directive	6	1	1	# user-declaration NS_identifier::TH_identifier			25	58	60	
c Rmust_directive	6	3	1	# user-prefix-declaration NULL			25	58	61	
c Rmust_directive	6	5	1	# constructor NULL			25	58	63	
c Rmust_directive	6	7	1	# op NULL			25	58	65	
c Rmust_directive	6	9	1	# user-imp-tbl NULL			25	58	68	
c Rmust_directive	6	11	1	?  NULL			25	58	59	
c Rmust_directive	6	2	1	# user-implementation NULL			25	58	67	
c Rmust_directive	6	4	1	# user-suffix-declaration NULL			25	58	62	
c Rmust_directive	6	6	1	# destructor NULL			25	58	64	
c Rmust_directive	6	8	1	# failed NULL			25	58	66	
c Rmust_directive	6	10	1	# user-imp-sym NULL			25	58	69	
t Rmust_directive_phrase	5	1	3	Rmust_directive <u>Rsyntax_code</u>			10	26	31	

$\Rightarrow$ <i>Rmust_directive</i>				State: 26 state type: <sup>s</sup>			
←	<b>rule</b>	→	<b>R# sr# Po</b>	←	<b>subrule element</b>	→	<b>Brn Gto Red LA</b>
c	Rsyntax_code		12 1 1		syntax-code NS_o2_sdc::TH_o2_sdc		26 27 29
c	Rsyntax_code		12 2 1		?  NULL		26 27 28
t	Rmust_directive_phrase		5 1 4	Rsyntax_code	<u>Rlint</u> <sup>ε</sup>		10 30 31
$\Rightarrow$ <i>    arbitration-code: ε</i>				State: 27 state type: <sup>s</sup>			
←	<b>rule</b>	→	<b>R# sr# Po</b>	←	<b>subrule element</b>	→	<b>Brn Gto Red LA</b>
t	Rsyntax_code		12 2 2	?			26 28 28
t	Rsyntax_code		12 1 2	syntax-code			26 29 29
$\Rightarrow$ <i> ? </i>				State: 28 state type: <sup>r</sup>			
←	<b>rule</b>	→	<b>R# sr# Po</b>	←	<b>subrule element</b>	→	<b>Brn Gto Red LA</b>
t	Rsyntax_code		12 2 3				26 0 28 6
$\Rightarrow$ <i>syntax-code</i>				State: 29 state type: <sup>r</sup>			
←	<b>rule</b>	→	<b>R# sr# Po</b>	←	<b>subrule element</b>	→	<b>Brn Gto Red LA</b>
t	Rsyntax_code		12 1 3				26 0 29 6
$\Rightarrow$ <i>Rsyntax_code</i>				State: 30 state type: <sup>s/r</sup>			
←	<b>rule</b>	→	<b>R# sr# Po</b>	←	<b>subrule element</b>	→	<b>Brn Gto Red LA</b>
c	Rlint		13 2 1	ε			30 0 30 6
c	Rlint		13 1 1		lint NS_lint_balls::TH_lint_balls		30 16 17
t	Rmust_directive_phrase		5 1 5	Rlint			10 31 31
$\Rightarrow$ <i>Rlint</i>				State: 31 state type: <sup>r</sup>			
←	<b>rule</b>	→	<b>R# sr# Po</b>	←	<b>subrule element</b>	→	<b>Brn Gto Red LA</b>
t	Rmust_directive_phrase		5 1 6				10 0 31 6
$\Rightarrow$ <i>    arbitration-code: ε</i>				State: 32 state type: <sup>s</sup>			
←	<b>rule</b>	→	<b>R# sr# Po</b>	←	<b>subrule element</b>	→	<b>Brn Gto Red LA</b>
t	Rdirective		10 11 2	?			11 33 33
t	Rdirective		10 1 2	#	user-declaration		11 34 34
t	Rdirective		10 3 2	#	user-prefix-declaration		11 35 35
t	Rdirective		10 4 2	#	user-suffix-declaration		11 36 36
t	Rdirective		10 5 2	#	constructor		11 37 37
t	Rdirective		10 6 2	#	destructor		11 38 38
t	Rdirective		10 7 2	#	op		11 39 39
t	Rdirective		10 8 2	#	failed		11 40 40
t	Rdirective		10 2 2	#	user-implementation		11 41 41
t	Rdirective		10 9 2	#	user-imp-tbl		11 42 42
t	Rdirective		10 10 2	#	user-imp-sym		11 43 43
t	Rcweb_k		15 1 2	cweb-comment			11 44 44
t	Rcweb_k		15 2 2	comment-overrun			11 45 45
$\Rightarrow$ <i> ? </i>				State: 33 state type: <sup>r</sup>			
←	<b>rule</b>	→	<b>R# sr# Po</b>	←	<b>subrule element</b>	→	<b>Brn Gto Red LA</b>
t	Rdirective		10 11 3				11 0 33 7
$\Rightarrow$ <i>#user-declaration</i>				State: 34 state type: <sup>r</sup>			
←	<b>rule</b>	→	<b>R# sr# Po</b>	←	<b>subrule element</b>	→	<b>Brn Gto Red LA</b>

t Rdirective	10	1	3					11	0	34	7
$\Rightarrow$ <i>#user-prefix-declaration</i>								State: 35 state type: <i>r</i>			
← rule	→ R#	sr#	Po	←	subrule element			→ Brn	Gto	Red	LA
t Rdirective	10	3	3					11	0	35	7
$\Rightarrow$ <i>#user-suffix-declaration</i>								State: 36 state type: <i>r</i>			
← rule	→ R#	sr#	Po	←	subrule element			→ Brn	Gto	Red	LA
t Rdirective	10	4	3					11	0	36	7
$\Rightarrow$ <i>#constructor</i>								State: 37 state type: <i>r</i>			
← rule	→ R#	sr#	Po	←	subrule element			→ Brn	Gto	Red	LA
t Rdirective	10	5	3					11	0	37	7
$\Rightarrow$ <i>#destructor</i>								State: 38 state type: <i>r</i>			
← rule	→ R#	sr#	Po	←	subrule element			→ Brn	Gto	Red	LA
t Rdirective	10	6	3					11	0	38	7
$\Rightarrow$ <i>#op</i>								State: 39 state type: <i>r</i>			
← rule	→ R#	sr#	Po	←	subrule element			→ Brn	Gto	Red	LA
t Rdirective	10	7	3					11	0	39	7
$\Rightarrow$ <i>#failed</i>								State: 40 state type: <i>r</i>			
← rule	→ R#	sr#	Po	←	subrule element			→ Brn	Gto	Red	LA
t Rdirective	10	8	3					11	0	40	7
$\Rightarrow$ <i>#user-implementation</i>								State: 41 state type: <i>r</i>			
← rule	→ R#	sr#	Po	←	subrule element			→ Brn	Gto	Red	LA
t Rdirective	10	2	3					11	0	41	7
$\Rightarrow$ <i>#user-imp-tbl</i>								State: 42 state type: <i>r</i>			
← rule	→ R#	sr#	Po	←	subrule element			→ Brn	Gto	Red	LA
t Rdirective	10	9	3					11	0	42	7
$\Rightarrow$ <i>#user-imp-sym</i>								State: 43 state type: <i>r</i>			
← rule	→ R#	sr#	Po	←	subrule element			→ Brn	Gto	Red	LA
t Rdirective	10	10	3					11	0	43	7
$\Rightarrow$ <i>cweb-comment</i>								State: 44 state type: <i>r</i>			
← rule	→ R#	sr#	Po	←	subrule element			→ Brn	Gto	Red	LA
t Rcweb_k	15	1	3					11	0	44	7
$\Rightarrow$ <i>comment-overrun</i>								State: 45 state type: <i>r</i>			
← rule	→ R#	sr#	Po	←	subrule element			→ Brn	Gto	Red	LA
t Rcweb_k	15	2	3					11	0	45	7
$\Rightarrow$ <i>Rmaybe_directive_phrases</i>								State: 46 state type: <i>s/r</i>			
← rule	→ R#	sr#	Po	←	subrule element			→ Brn	Gto	Red	LA
t Rmaybe_more_directives	7	2	2					11	0	46	5
c Rdirective	10	1	1		# user-declaration NS_identifier::TH_identifier			46	32	34	
c Rdirective	10	3	1		# user-prefix-declaration NULL			46	32	35	
c Rdirective	10	5	1		# constructor NULL			46	32	37	

c Rdirective	10	8	1		# failed NULL	46	32	40					
c Rdirective	10	10	1		# user-imp-sym NULL	46	32	43					
c Rcweb_k	15	1	1		cweb-comment NS_cweb_or_c.k::TH_cweb_or_c.k	46	32	44					
c Rdirective	10	2	1		# user-implementation NULL	46	32	41					
c Rdirective	10	4	1		# user-suffix-declaration NULL	46	32	36					
c Rdirective	10	6	1		# destructor NULL	46	32	38					
c Rdirective	10	7	1		# op NULL	46	32	39					
c Rdirective	10	9	1		# user-imp-tbl NULL	46	32	42					
c Rdirective	10	11	1		?  NULL	46	32	33					
c Rcweb_k	15	2	1		comment-overrun NULL	46	32	45					
t Rmaybe_directive_phrases	8	2	2		Rmaybe_directive_phrase	11	47	47					
c Rmaybe_directive_phrase	9	2	1		Rdirective <u>Rsyntax_code</u>	46	48	50					
c Rmaybe_directive_phrase	9	1	1		Rcweb.k <u>Rlint<sup>ε</sup> Rdirective</u>	46	51	55					
⇒ <i>Rmaybe_directive_phrase</i>						State: 47 state type: <i>r</i>							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t	Rmaybe_directive_phrases		8	2	3					11	0	47	6
⇒ <i>Rdirective</i>						State: 48 state type: <i>s</i>							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
c	Rsyntax_code		12	1	1		syntax-code NS_o2_sdc::TH_o2_sdc			48	27	29	
c	Rsyntax_code		12	2	1		?  NULL			48	27	28	
t	Rmaybe_directive_phrase		9	2	2		Rsyntax_code <u>Rlint<sup>ε</sup></u>			46	49	50	
⇒ <i>Rsyntax_code</i>						State: 49 state type: <i>s/r</i>							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
c	Rlint		13	2	1	ε				49	0	49	6
c	Rlint		13	1	1		lint NS_lint_balls::TH_lint_balls			49	16	17	
t	Rmaybe_directive_phrase		9	2	3		Rlint			46	50	50	
⇒ <i>Rlint</i>						State: 50 state type: <i>r</i>							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t	Rmaybe_directive_phrase		9	2	4					46	0	50	6
⇒ <i>Rcweb_k</i>						State: 51 state type: <i>s/r</i>							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
c	Rlint		13	2	1	ε				51	0	51	7
c	Rlint		13	1	1		lint NS_lint_balls::TH_lint_balls			51	16	17	
t	Rmaybe_directive_phrase		9	1	2		Rlint <u>Rdirective</u>			46	52	55	
⇒ <i>Rlint</i>						State: 52 state type: <i>s</i>							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
c	Rdirective		10	1	1		# user-declaration NS_identifier::TH_identifier			52	70	34	
c	Rdirective		10	3	1		# user-prefix-declaration NULL			52	70	35	
c	Rdirective		10	5	1		# constructor NULL			52	70	37	
c	Rdirective		10	8	1		# failed NULL			52	70	40	
c	Rdirective		10	10	1		# user-imp-sym NULL			52	70	43	
c	Rdirective		10	2	1		# user-implementation NULL			52	70	41	
c	Rdirective		10	4	1		# user-suffix-declaration NULL			52	70	36	
c	Rdirective		10	6	1		# destructor NULL			52	70	38	
c	Rdirective		10	7	1		# op NULL			52	70	39	
c	Rdirective		10	9	1		# user-imp-tbl NULL			52	70	42	

c	Rdirective	10	11	1	?  NULL				52	70	33
t	Rmaybe_directive_phrase	9	1	3	Rdirective <u>Rsyntax_code</u>				46	53	55
⇒ <i>Rdirective</i> State: 53 state type: <i>s</i>											
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
c	Rsyntax_code		12	1	1		syntax-code NS_o2_sdc::TH_o2_sdc		53	27	29
c	Rsyntax_code		12	2	1	?	NULL		53	27	28
t	Rmaybe_directive_phrase		9	1	4	Rsyntax_code	<u>Rlint</u> <sup>ε</sup>		46	54	55
⇒ <i>Rsyntax_code</i> State: 54 state type: <i>s/r</i>											
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
c	Rlint		13	2	1	ε			54	0	54 6
c	Rlint		13	1	1		lint NS_lint_balls::TH_lint_balls		54	16	17
t	Rmaybe_directive_phrase		9	1	5	Rlint			46	55	55
⇒ <i>Rlint</i> State: 55 state type: <i>r</i>											
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
t	Rmaybe_directive_phrase		9	1	6				46	0	55 6
⇒ <i>Rmaybe_directive_phrase</i> State: 56 state type: <i>r</i>											
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
t	Rmaybe_directive_phrases		8	1	2				11	0	56 6
⇒ <i> ? </i> State: 57 state type: <i>r</i>											
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
t	Rmust_directive		6	12	2				25	0	57 7
⇒ <i>    arbitration-code: ε</i> State: 58 state type: <i>s</i>											
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
t	Rmust_directive		6	11	2	?			25	59	59
t	Rmust_directive		6	1	2	#	user-declaration		25	60	60
t	Rmust_directive		6	3	2	#	user-prefix-declaration		25	61	61
t	Rmust_directive		6	4	2	#	user-suffix-declaration		25	62	62
t	Rmust_directive		6	5	2	#	constructor		25	63	63
t	Rmust_directive		6	6	2	#	destructor		25	64	64
t	Rmust_directive		6	7	2	#	op		25	65	65
t	Rmust_directive		6	8	2	#	failed		25	66	66
t	Rmust_directive		6	2	2	#	user-implementation		25	67	67
t	Rmust_directive		6	9	2	#	user-imp-tbl		25	68	68
t	Rmust_directive		6	10	2	#	user-imp-sym		25	69	69
⇒ <i> ? </i> State: 59 state type: <i>r</i>											
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
t	Rmust_directive		6	11	3				25	0	59 7
⇒ <i>#user-declaration</i> State: 60 state type: <i>r</i>											
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
t	Rmust_directive		6	1	3				25	0	60 7
⇒ <i>#user-prefix-declaration</i> State: 61 state type: <i>r</i>											
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
t	Rmust_directive		6	3	3				25	0	61 7



$\Rightarrow$ <i>#user-suffix-declaration</i>		State: 62 state type: <i>r</i>	
← rule → R# sr# Po ←	subrule element	→ Brn Gto Red LA	
t Rmust_directive 6 4 3		25 0 62 7	
$\Rightarrow$ <i>#constructor</i>		State: 63 state type: <i>r</i>	
← rule → R# sr# Po ←	subrule element	→ Brn Gto Red LA	
t Rmust_directive 6 5 3		25 0 63 7	
$\Rightarrow$ <i>#destructor</i>		State: 64 state type: <i>r</i>	
← rule → R# sr# Po ←	subrule element	→ Brn Gto Red LA	
t Rmust_directive 6 6 3		25 0 64 7	
$\Rightarrow$ <i>#op</i>		State: 65 state type: <i>r</i>	
← rule → R# sr# Po ←	subrule element	→ Brn Gto Red LA	
t Rmust_directive 6 7 3		25 0 65 7	
$\Rightarrow$ <i>#failed</i>		State: 66 state type: <i>r</i>	
← rule → R# sr# Po ←	subrule element	→ Brn Gto Red LA	
t Rmust_directive 6 8 3		25 0 66 7	
$\Rightarrow$ <i>#user-implementation</i>		State: 67 state type: <i>r</i>	
← rule → R# sr# Po ←	subrule element	→ Brn Gto Red LA	
t Rmust_directive 6 2 3		25 0 67 7	
$\Rightarrow$ <i>#user-imp-tbl</i>		State: 68 state type: <i>r</i>	
← rule → R# sr# Po ←	subrule element	→ Brn Gto Red LA	
t Rmust_directive 6 9 3		25 0 68 7	
$\Rightarrow$ <i>#user-imp-sym</i>		State: 69 state type: <i>r</i>	
← rule → R# sr# Po ←	subrule element	→ Brn Gto Red LA	
t Rmust_directive 6 10 3		25 0 69 7	
$\Rightarrow$     <i>arbitration-code: <math>\epsilon</math></i>		State: 70 state type: <i>s</i>	
← rule → R# sr# Po ←	subrule element	→ Brn Gto Red LA	
t Rdirective 10 11 2  ?		52 33 33	
t Rdirective 10 1 2 # user-declaration		52 34 34	
t Rdirective 10 3 2 # user-prefix-declaration		52 35 35	
t Rdirective 10 4 2 # user-suffix-declaration		52 36 36	
t Rdirective 10 5 2 # constructor		52 37 37	
t Rdirective 10 6 2 # destructor		52 38 38	
t Rdirective 10 7 2 # op		52 39 39	
t Rdirective 10 8 2 # failed		52 40 40	
t Rdirective 10 2 2 # user-implementation		52 41 41	
t Rdirective 10 9 2 # user-imp-tbl		52 42 42	
t Rdirective 10 10 2 # user-imp-sym		52 43 43	

**72. Index.**

$\epsilon$  : 34, 59, 60.  
|. |: 17.  
# constructor: 19, 39.  
# destructor: 19, 39.  
# failed: 19, 39.  
# op: 19, 39.  
# user-declaration: 19, 39.  
# user-imp-sym: 19, 39.  
# user-imp-tbl: 19, 39.  
# user-implementation: 19, 39.  
# user-prefix-declaration: 19, 39.  
# user-suffix-declaration: 19, 39.  
| |: 12, 19, 39, 55, 59, 60, 65.  
|? |: 12, 19, 39, 53, 55.  
\_\_FILE\_\_: 5, 9, 14, 15, 32, 33, 52, 54, 63, 68.  
\_\_LINE\_\_: 5, 9, 14, 15, 32, 33, 52, 54, 63, 68.  
add\_cweb\_marker: 18, 37.  
add\_directive\_to\_map: 6, 8, 20, 40.  
add\_sdc\_to\_directive: 6, 9, 18, 37, 38.  
AST: 5, 18, 37, 62, 63, 67, 68.  
CAbs\_lr1\_sym: 6, 8, 9, 14, 15, 20, 21, 32, 33, 40, 41, 52, 54.  
Cfsm\_class\_phrase\_th: 7, 8, 9, 11, 13, 18, 20, 37, 38, 40.  
comment-overrun: 60, 65.  
current\_token: 15, 54.  
cw: 63, 68.  
cweave: 2.  
cweb-comment: 60, 65.  
cweb\_t.: 18, 37, 61, 62, 63, 66, 67, 68.  
cwebk\_t.: 63, 68.  
cwebt: 18, 37.  
Dir: 6.  
dir: 18, 37, 38.  
Directive: 6, 8.  
directive.: 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 37, 38, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52.  
directives\_map.: 6.  
Dr: 9.  
eid: 9.  
enumerated\_id.: 9.  
Err\_improper\_directive: 9, 32, 52.  
Err\_no\_close\_brace: 54.  
Err\_no\_directive\_present: 33.  
Err\_no\_identifier\_present: 14, 15.  
fsm: 11, 13, 18, 20, 37, 38, 40.  
fsm\_class\_phrase.: 4, 5, 6, 7, 8, 11, 13.  
fsm\_class\_phrase\_th: 2.  
fsm\_tbl.: 11, 13, 18, 20, 37, 38, 40.  
identifier: 12.  
identifier: 13.  
join\_pts: 63, 68.  
lint: 59.  
map: 6.  
NS\_cweb\_or\_c\_k::TH\_cweb\_or\_c\_k: 60, 65.  
NS\_identifier::TH\_identifier: 12, 19, 39.  
NS\_lint\_balls::TH\_lint\_balls: 59.  
NS\_o2\_sdc::TH\_o2\_sdc: 55.  
NS\_yacco2\_T\_enum: 9.  
NS\_yacco2\_terminals: 10.  
NULL: 12, 19, 39, 55, 60, 65.  
parser.: 5, 8, 9, 11, 13, 14, 15, 18, 20, 32, 33, 37, 38, 40, 52, 54, 58, 64, 69.  
phrase\_tree: 5.  
p1.: 18, 33, 37, 38.  
p2.: 13, 14, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 38, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 57, 58, 63, 64, 68, 69.  
p3.: 18, 37.  
p4.: 18, 37.  
Rclosing\_brace: 17.  
Rclosing\_brace: 53, 54.  
Rcweb\_k: 36.  
Rcweb\_k: 65, 68, 69.  
Rdirective: 36.  
Rdirective: 37, 38, 39, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52.  
Rdirective\_cweb\_k: 18.  
Rdirective\_cweb\_k: 60, 63, 64.  
remove\_directives\_from\_map: 6, 7.  
result: 20, 40.  
Rfsm\_class\_phrase\_th: 11.  
Rid: 12, 13, 14, 15.  
Rid: 11.  
Rlint: 59.  
Rlint: 11, 17, 18, 36.  
Rmaybe\_directive\_phrase: 35.  
Rmaybe\_directive\_phrases: 34, 35.  
Rmaybe\_more\_directives: 17.  
Rmaybe\_directive\_phrase: 36, 37, 38.  
Rmaybe\_directive\_phrases: 35.  
Rmaybe\_more\_directives: 34.  
Rmust\_directive: 18.  
Rmust\_directive\_phrase: 17.  
Rmust\_directive: 18, 19, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33.  
Rmust\_directive\_phrase: 18.  
Rpotential\_code\_blk: 11.  
Rpotential\_directives: 16.  
Rpotential\_code\_blk: 16.  
Rpotential\_directives: 17.

**RSVP:** 11, 14, 15, 20, 32, 33, 40, 52, 54, 58, 64, 69.  
**RSVP\_FSM:** 9.  
**Rsyntax\_code:** 18, 36.  
*Rsyntax\_code:* 18, 37, 38, 55, 57, 58.  
*rule\_info\_:* 11, 13, 14, 15, 18, 20, 32, 33, 37, 38, 40, 52, 54, 58, 64, 69.  
*Sdc:* 6, 9.  
*sdc:* 18, 37, 38.  
*set\_auto\_delete:* 14, 20, 32, 40, 52.  
*set\_content:* 63, 68.  
*set\_rc:* 5, 9, 14, 15, 32, 33, 52, 54, 63, 68.  
*set\_stop\_parse:* 9, 14, 15, 20, 32, 33, 40, 52, 54, 58, 64, 69.  
*sf:* 13, 14, 18, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 37, 38, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 57, 58, 63, 64, 68, 69.  
*start\_token\_:* 5.  
*std:* 6.  
*string:* 6.  
*sym:* 8, 9, 14, 15, 32, 33, 52, 54.  
**syntax-code:** 55.  
*syntax\_code:* 9.  
*syntax\_code\_:* 18, 37, 38, 56, 57, 58.  
*T\_constructor:* 9.  
*T\_cweb\_comment:* 63, 68.  
*T\_cweb\_marker:* 63, 68.  
*T\_destructor:* 9.  
*T\_Enum:* 9.  
*T\_failed:* 9.  
*T\_fsm\_class\_phrase:* 5, 6.  
*T\_op:* 9.  
*T\_syntax\_code:* 6, 9, 56.  
*T\_T\_constructor\_:* 9.  
*T\_T\_destructor\_:* 9.  
*T\_T\_failed\_:* 9.  
*T\_T\_op\_:* 9.  
*T\_T\_user\_declaration\_:* 9.  
*T\_T\_user\_imp\_sym\_:* 9.  
*T\_T\_user\_imp\_tbl\_:* 9.  
*T\_T\_user\_implementation\_:* 9.  
*T\_T\_user\_prefix\_declaration\_:* 9.  
*T\_T\_user\_suffix\_declaration\_:* 9.  
*T\_user\_declaration:* 9.  
*T\_user\_imp\_sym:* 9.  
*T\_user\_imp\_tbl:* 9.  
*T\_user\_implementation:* 9.  
*T\_user\_prefix\_declaration:* 9.  
*T\_user\_suffix\_declaration:* 9.  
*true:* 9, 14, 15, 20, 32, 33, 40, 52, 54, 58, 64, 69.  
*yacco2:* 6, 8, 9.

< C fsm\_class\_phrase.th constructor directive 4 >  
 < C fsm\_class\_phrase.th op directive 5 >  
 < C fsm\_class\_phrase.th user-declaration directive 6 >  
 < C fsm\_class\_phrase.th user-implementation directive 7 >  
 < C fsm\_class\_phrase.th user-prefix-declaration directive 10 >  
 < More code 8, 9 >  
 < Rclosing\_brace subrule 1 op directive 54 >  
 < Rcweb\_k constructor directive 66 >  
 < Rcweb\_k subrule 1 op directive 68 >  
 < Rcweb\_k subrule 2 op directive 69 >  
 < Rcweb\_k user-declaration directive 67 >  
 < Rdirective op directive 40 >  
 < Rdirective subrule 1 op directive 42 >  
 < Rdirective subrule 10 op directive 51 >  
 < Rdirective subrule 11 op directive 52 >  
 < Rdirective subrule 2 op directive 43 >  
 < Rdirective subrule 3 op directive 44 >  
 < Rdirective subrule 4 op directive 45 >  
 < Rdirective subrule 5 op directive 46 >  
 < Rdirective subrule 6 op directive 47 >  
 < Rdirective subrule 7 op directive 48 >  
 < Rdirective subrule 8 op directive 49 >  
 < Rdirective subrule 9 op directive 50 >  
 < Rdirective user-declaration directive 41 >  
 < Rdirective\_cweb\_k constructor directive 61 >  
 < Rdirective\_cweb\_k subrule 2 op directive 63 >  
 < Rdirective\_cweb\_k subrule 3 op directive 64 >  
 < Rdirective\_cweb\_k user-declaration directive 62 >  
 < Rfsm\_class\_phrase.th subrule 1 op directive 11 >  
 < Rid subrule 1 op directive 13 >  
 < Rid subrule 2 op directive 14 >  
 < Rid subrule 3 op directive 15 >  
 < Rmaybe\_directive\_phrase subrule 1 op directive 37 >  
 < Rmaybe\_directive\_phrase subrule 2 op directive 38 >  
 < Rmust\_directive op directive 20 >  
 < Rmust\_directive subrule 1 op directive 22 >  
 < Rmust\_directive subrule 10 op directive 31 >  
 < Rmust\_directive subrule 11 op directive 32 >  
 < Rmust\_directive subrule 12 op directive 33 >  
 < Rmust\_directive subrule 2 op directive 23 >  
 < Rmust\_directive subrule 3 op directive 24 >  
 < Rmust\_directive subrule 4 op directive 25 >  
 < Rmust\_directive subrule 5 op directive 26 >  
 < Rmust\_directive subrule 6 op directive 27 >  
 < Rmust\_directive subrule 7 op directive 28 >  
 < Rmust\_directive subrule 8 op directive 29 >  
 < Rmust\_directive subrule 9 op directive 30 >  
 < Rmust\_directive user-declaration directive 21 >  
 < Rmust\_directive\_phrase subrule 1 op directive 18 >  
 < Rsyntax\_code subrule 1 op directive 57 >  
 < Rsyntax\_code subrule 2 op directive 58 >  
 < Rsyntax\_code user-declaration directive 56 >

fsm\_class\_phrase\_th Grammar

Date: January 2, 2015 at 15:35

File: fsm\_class\_phrase\_th.lex   Ns: NS\_fsm\_class\_phrase\_th

Version: 1.0

Debug: false

Grammar Comments:

Type: Thread

Parse the fsm-class grammar construct.

1 element(s) in Lookahead Expression below

eolr

<i>fsm_class_phrase.th</i> <b>Thread</b> .....	2	2
Fsm C fsm_class_phrase.th class .....	3	3
C fsm_class_phrase.th constructor directive .....	4	3
C fsm_class_phrase.th op directive .....	5	3
C fsm_class_phrase.th user-declaration directive .....	6	3
C fsm_class_phrase.th user-implementation directive .....	7	3
<i>add_directive_to_map</i> .....	8	3
<i>add_sdc_to_directive</i> .....	9	4
C fsm_class_phrase.th user-prefix-declaration directive .....	10	4
<i>R fsm_class_phrase.th</i> rule .....	11	5
<i>Rid</i> rule .....	12	5
<i>Rid</i> 's subrule 1 .....	13	5
<i>Rid</i> 's subrule 2 .....	14	5
<i>Rid</i> 's subrule 3 .....	15	5
<i>Rpotential_code_blk</i> rule .....	16	6
<i>Rpotential_directives</i> rule .....	17	6
<i>Rmust_directive_phrase</i> rule .....	18	6
<i>Rmust_directive</i> rule .....	19	7
<i>Rmust_directive</i> op directive .....	20	7
<i>Rmust_directive</i> user-declaration directive .....	21	7
<i>Rmust_directive</i> 's subrule 1 .....	22	8
<i>Rmust_directive</i> 's subrule 2 .....	23	8
<i>Rmust_directive</i> 's subrule 3 .....	24	8
<i>Rmust_directive</i> 's subrule 4 .....	25	8
<i>Rmust_directive</i> 's subrule 5 .....	26	8
<i>Rmust_directive</i> 's subrule 6 .....	27	8
<i>Rmust_directive</i> 's subrule 7 .....	28	8
<i>Rmust_directive</i> 's subrule 8 .....	29	9
<i>Rmust_directive</i> 's subrule 9 .....	30	9
<i>Rmust_directive</i> 's subrule 10 .....	31	9
<i>Rmust_directive</i> 's subrule 11 .....	32	9
<i>Rmust_directive</i> 's subrule 12 .....	33	9
<i>Rmaybe_more_directives</i> rule .....	34	9
<i>Rmaybe_directive_phrases</i> rule .....	35	10
<i>Rmaybe_directive_phrase</i> rule .....	36	10
<i>Rmaybe_directive_phrase</i> 's subrule 1 .....	37	10
<i>Rmaybe_directive_phrase</i> 's subrule 2 .....	38	10
<i>Rdirective</i> rule .....	39	11
<i>Rdirective</i> op directive .....	40	11
<i>Rdirective</i> user-declaration directive .....	41	11
<i>Rdirective</i> 's subrule 1 .....	42	11
<i>Rdirective</i> 's subrule 2 .....	43	12
<i>Rdirective</i> 's subrule 3 .....	44	12
<i>Rdirective</i> 's subrule 4 .....	45	12
<i>Rdirective</i> 's subrule 5 .....	46	12
<i>Rdirective</i> 's subrule 6 .....	47	12
<i>Rdirective</i> 's subrule 7 .....	48	12
<i>Rdirective</i> 's subrule 8 .....	49	12
<i>Rdirective</i> 's subrule 9 .....	50	13
<i>Rdirective</i> 's subrule 10 .....	51	13
<i>Rdirective</i> 's subrule 11 .....	52	13
<i>Rclosing_brace</i> rule .....	53	13

<i>Rclosing_brace</i> 's subrule 1 .....	54	13
<i>Rsyntax_code</i> rule .....	55	13
<i>Rsyntax_code</i> user-declaration directive .....	56	14
<i>Rsyntax_code</i> 's subrule 1 .....	57	14
<i>Rsyntax_code</i> 's subrule 2 .....	58	14
<i>Rlint</i> rule .....	59	14
<i>Rdirective_cweb_k</i> rule .....	60	14
<i>Rdirective_cweb_k</i> constructor directive .....	61	14
<i>Rdirective_cweb_k</i> user-declaration directive .....	62	14
<i>Rdirective_cweb_k</i> 's subrule 2 .....	63	15
<i>Rdirective_cweb_k</i> 's subrule 3 .....	64	15
<i>Rcweb_k</i> rule .....	65	15
<i>Rcweb_k</i> constructor directive .....	66	15
<i>Rcweb_k</i> user-declaration directive .....	67	15
<i>Rcweb_k</i> 's subrule 1 .....	68	15
<i>Rcweb_k</i> 's subrule 2 .....	69	16
<b>First Set Language for <math>O_2^{linker}</math></b> .....	70	17
<b>Lr1 State Network</b> .....	71	18
<b>Index</b> .....	72	26