

1. Copyright.

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2. *cweave_fsm_sdc* grammar.

Write out cweave fsm directives sentences.

3. Fsm Ccweave_fsm_sdc class.**4. Ccweave_fsm_sdc user-declaration directive.**

⟨Ccweave_fsm_sdc user-declaration directive 4⟩ ≡

```
public: std::ofstream * cweave_file_;
         T_fsm_phrase * fsm_phrase_;
void initialize(std::ofstream * Cweave_file, T_fsm_phrase * Fsm_phrase);
void output_sr_sdc(const char *Directive);
void output_sr_sdc_title(const char *Directive);
void wrt_directive(const char *Directive, T_syntax_code * Sdc);
```

5. Ccweave_fsm_sdc user-implementation directive.

⟨Ccweave_fsm_sdc user-implementation directive 5⟩ ≡

```
void Ccweave_fsm_sdc::initialize(std::ofstream * Cweave_file, T_fsm_phrase * Fsm_phrase)
{
    cweave_file_ = Cweave_file;
    fsm_phrase_ = Fsm_phrase;
}
```

6. *wrt_directive*.

⟨More code 6⟩ ≡

```

void Ccweave_fsm_sdc::wrt_directive(const char *Directive, T_syntax_code *Sdc)
{
    output_sr_sdc_title(Directive);
    if (Sdc ≡ 0) {
        output_sr_sdc(Directive);
        (*cweave_file_) << "/";
        (*cweave_file_) << "/_no_sdc" << endl;
        return;
    }
    if (Sdc->cweb_marker() ≠ 0) {
        WRT_CWEB_MARKER(cweave_file_, Sdc->cweb_marker());
    }
    output_sr_sdc(Directive);
    string xlate;
    int len = Sdc->syntax_code()-length();
    string & sdc = *Sdc->syntax_code();    /* prescan @ due to cweave reqmts */
    for (int x = 0; x < len; ++x) {
        char nc = sdc[x];
        if (nc ≡ '␣') {    /* check next char for cweave type directives */
            char nnc = sdc[x + 1];
            if ((nnc ≡ '*'') ∨ (nnc ≡ '<') ∨ (nnc ≡ '>')) {
                xlate += nc;
                continue;
            }
            else {
                xlate += "@@";
                continue;
            }
        }
        else {
            xlate += nc;
            continue;
        }
    }
    (*cweave_file_) << xlate.c_str() << endl;
}

```

See also sections 7 and 8.

7. *output_sr_sdc*.

⟨More code 6⟩ +=

```
void Ccweave_fsm_sdc::output_sr_sdc(const char *Directive)
{
    char big_buf_[BIG_BUFFER_32K];
    char xa[Max_cweb_item_size];
    XLATE_SYMBOLS_FOR_cweave(fsm_phrase_→fsm_class_phrase()→identifier()→c_str(), xa);
    KCHARP cweave_sentence = "@<%s_ %s_directive@>=\\n";
    sprintf(big_buf_, cweave_sentence, xa, Directive);
    (*cweave_file_) << big_buf_;
}
```

8. *output_sr_sdc*.title.

⟨More code 6⟩ +=

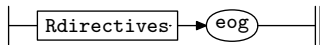
```
void Ccweave_fsm_sdc::output_sr_sdc_title(const char *Directive)
{
    char big_buf_[BIG_BUFFER_32K];
    char xa[Max_cweb_item_size];
    XLATE_SYMBOLS_FOR_cweave(fsm_phrase_→fsm_class_phrase()→identifier()→c_str(), xa);
    KCHARP cweave_sentence = "@*3_ %s_ %s_directive.\\n";
    sprintf(big_buf_, cweave_sentence, xa, Directive);
    (*cweave_file_) << big_buf_;
}
```

9. Ccweave_fsm_sdc user-prefix-declaration directive.

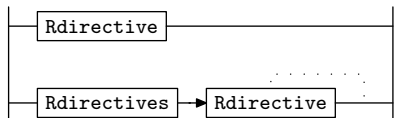
⟨Ccweave_fsm_sdc user-prefix-declaration directive 9⟩ ≡
#include "o2_extrns.h"

10. *Rweave_fsm_sdc* rule.

Rweave_fsm_sdc

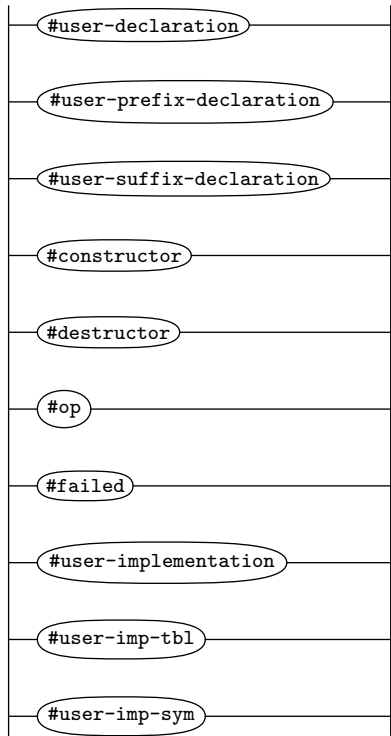
11. *Rdirectives* rule.

Rdirectives

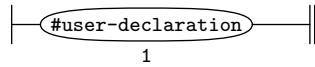


12. Rdirective rule.

Rdirective

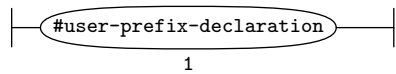


13. Rdirective's subrule 1.



⟨ Rdirective subrule 1 op directive 13 ⟩ ≡
`Ccweave_fsm_sdc * fsm = (Ccweave_fsm_sdc *) rule_info...parser--fsm_tbl...;`
`KCHARP_sdc = "user-declaration";`
`fsm-wrt_directive(sdc, sf-p1--syntax_code());`

14. Rdirective's subrule 2.



⟨ Rdirective subrule 2 op directive 14 ⟩ ≡
`Ccweave_fsm_sdc * fsm = (Ccweave_fsm_sdc *) rule_info...parser--fsm_tbl...;`
`KCHARP_sdc = "user-prefix-declaration";`
`fsm-wrt_directive(sdc, sf-p1--syntax_code());`

15. *Rdirective's subrule 3.*

|—#user-suffix-declaration—||
1

⟨Rdirective subrule 3 op directive 15⟩ ≡
Ccweave_fsm_sdc * *fsm* = (*Ccweave_fsm_sdc* *) *rule_info...parser--fsm_tbl...*;
 KCHARP*sdc* = "user-suffix-declaration";
fsm-wrt_directive(*sdc*, *sf-p1--syntax_code*());

16. *Rdirective's subrule 4.*

|—#constructor—||
1

⟨Rdirective subrule 4 op directive 16⟩ ≡
Ccweave_fsm_sdc * *fsm* = (*Ccweave_fsm_sdc* *) *rule_info...parser--fsm_tbl...*;
 KCHARP*sdc* = "constructor";
fsm-wrt_directive(*sdc*, *sf-p1--syntax_code*());

17. *Rdirective's subrule 5.*

|—#destructor—||
1

⟨Rdirective subrule 5 op directive 17⟩ ≡
Ccweave_fsm_sdc * *fsm* = (*Ccweave_fsm_sdc* *) *rule_info...parser--fsm_tbl...*;
const char **sdc* = "destructor";
fsm-wrt_directive(*sdc*, *sf-p1--syntax_code*());

18. *Rdirective's subrule 6.*

|—#op—||
1

⟨Rdirective subrule 6 op directive 18⟩ ≡
Ccweave_fsm_sdc * *fsm* = (*Ccweave_fsm_sdc* *) *rule_info...parser--fsm_tbl...*;
 KCHARP*sdc* = "op";
fsm-wrt_directive(*sdc*, *sf-p1--syntax_code*());

19. *Rdirective's subrule 7.*

|—#failed—||
1

⟨Rdirective subrule 7 op directive 19⟩ ≡
Ccweave_fsm_sdc * *fsm* = (*Ccweave_fsm_sdc* *) *rule_info...parser--fsm_tbl...*;
const char **sdc* = "failed";
fsm-wrt_directive(*sdc*, *sf-p1--syntax_code*());

20. Rdirective's subrule 8.

| #user-implementation ||
1

⟨ Rdirective subrule 8 op directive 20 ⟩ ≡
Ccweave_fsm_sdc * *fsm* = (*Ccweave_fsm_sdc* *) *rule_info...parser--fsm_tbl...*;
const char **sdc* = "user-implementation";
fsm-wrt_directive(*sdc*, *sf-p1--syntax_code*());

21. Rdirective's subrule 9.

| #user-imp-tbl ||
1

⟨ Rdirective subrule 9 op directive 21 ⟩ ≡
Ccweave_fsm_sdc * *fsm* = (*Ccweave_fsm_sdc* *) *rule_info...parser--fsm_tbl...*;
KCHARP*sdc* = "user-imp-tbl";
fsm-wrt_directive(*sdc*, *sf-p1--syntax_code*());

22. Rdirective's subrule 10.

| #user-imp-sym ||
1

⟨ Rdirective subrule 10 op directive 22 ⟩ ≡
Ccweave_fsm_sdc * *fsm* = (*Ccweave_fsm_sdc* *) *rule_info...parser--fsm_tbl...*;
KCHARP*sdc* = "user-imp-sym";
fsm-wrt_directive(*sdc*, *sf-p1--syntax_code*());

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

```
/*
  File: cweave_fsm_sdc.fsc
  Date and Time: Fri Jan  2 15:33:29 2015
*/
transitive      n
grammar-name    "cweave_fsm_sdc"
name-space      "NS_cweave_fsm_sdc"
thread-name     "Ccweave_fsm_sdc"
monolithic      y
file-name       "cweave_fsm_sdc.fsc"
no-of-T         569
list-of-native-first-set-terminals 10
  T_user_declaration
  T_user_prefix_declaration
  T_user_suffix_declaration
  T_constructor
  T_destructor
  T_op
  T_failed
  T_user_implementation
  T_user_imp_tbl
  T_user_imp_sym
end-list-of-native-first-set-terminals
list-of-transitive-threads 0
end-list-of-transitive-threads
list-of-used-threads 0
end-list-of-used-threads
fsm-comments
"Write out cweave fsm directives sentences."
```


24. Lr1 State Network.

		State: 1 state type: ^s										
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rdirective		3	1	1	←	# user-declaration		1	2	2	
c	Rdirective		3	2	1	←	# user-prefix-declaration		1	3	3	
c	Rdirective		3	3	1	←	# user-suffix-declaration		1	4	4	
c	Rdirective		3	4	1	←	# constructor		1	5	5	
c	Rdirective		3	5	1	←	# destructor		1	6	6	
c	Rdirective		3	6	1	←	# op		1	7	7	
c	Rdirective		3	7	1	←	# failed		1	8	8	
c	Rdirective		3	8	1	←	# user-implementation		1	9	9	
c	Rdirective		3	9	1	←	# user-imp-tbl		1	10	10	
c	Rdirective		3	10	1	←	# user-imp-sym		1	11	11	
c	Rweave_fsm_sdc		1	1	1	←	Rdirectives <u>eog</u>		1	12	13	
c	Rdirectives		2	2	1	←	Rdirectives <u>Rdirective</u>		1	12	14	
c	Rdirectives		2	1	1	←	Rdirective		1	15	15	

		State: 2 state type: ^r										
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rdirective		3	1	2	←			1	0	2	1

		State: 3 state type: ^r										
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rdirective		3	2	2	←			1	0	3	1

		State: 4 state type: ^r										
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rdirective		3	3	2	←			1	0	4	1

		State: 5 state type: ^r										
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rdirective		3	4	2	←			1	0	5	1

		State: 6 state type: ^r										
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rdirective		3	5	2	←			1	0	6	1

		State: 7 state type: ^r										
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rdirective		3	6	2	←			1	0	7	1

		State: 8 state type: ^r										
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rdirective		3	7	2	←			1	0	8	1

		State: 9 state type: ^r										
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rdirective		3	8	2	←			1	0	9	1

		State: 10 state type: ^r										
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
						←						

t Rdirective	3	9	2			1	0	10	1
\Rightarrow <i>#user-imp-sym</i>									
← rule	→ R#	sr#	Po	←	State: 11 state type: <i>r</i>				
					subrule element	→	Brn	Gto	Red LA
t Rdirective	3	10	2			1	0	11	1
\Rightarrow <i>Rdirectives</i>									
← rule	→ R#	sr#	Po	←	State: 12 state type: <i>s</i>				
					subrule element	→	Brn	Gto	Red LA
t Rweave_fsm_sdc	1	1	2	eog		1	13	13	
c Rdirective	3	1	1	# user-declaration		12	2	2	
c Rdirective	3	2	1	# user-prefix-declaration		12	3	3	
c Rdirective	3	3	1	# user-suffix-declaration		12	4	4	
c Rdirective	3	4	1	# constructor		12	5	5	
c Rdirective	3	5	1	# destructor		12	6	6	
c Rdirective	3	6	1	# op		12	7	7	
c Rdirective	3	7	1	# failed		12	8	8	
c Rdirective	3	8	1	# user-implementation		12	9	9	
c Rdirective	3	9	1	# user-imp-tbl		12	10	10	
c Rdirective	3	10	1	# user-imp-sym		12	11	11	
t Rdirectives	2	2	2	Rdirective		1	14	14	
\Rightarrow <i>eog</i>									
← rule	→ R#	sr#	Po	←	State: 13 state type: <i>r</i>				
					subrule element	→	Brn	Gto	Red LA
t Rweave_fsm_sdc	1	1	3			1	0	13	2
\Rightarrow <i>Rdirective</i>									
← rule	→ R#	sr#	Po	←	State: 14 state type: <i>r</i>				
					subrule element	→	Brn	Gto	Red LA
t Rdirectives	2	2	3			1	0	14	1
\Rightarrow <i>Rdirective</i>									
← rule	→ R#	sr#	Po	←	State: 15 state type: <i>r</i>				
					subrule element	→	Brn	Gto	Red LA
t Rdirectives	2	1	2			1	0	15	1

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cweave_fsm_sdc Grammar

Date: January 2, 2015 at 15:34

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Ns: NS_cweave_fsm_sdc

Version: 1.0

Debug: false

Grammar Comments:

Type: Monolithic

Write out cweave fsm directives sentences.

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