

1. Copyright.

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2. *cweave_T_sdc* grammar.

Write out *cweave* Terminals' syntax directed directives sentences.

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

⟨*Ccweave_T_sdc* user-declaration directive 4⟩ ≡

```
public: std::ofstream * cweave_file_;
```

```
    KCHARP T_name_;
```

```
    void initialize(std::ofstream * Cweave_file, yacco2::KCHARP T_name);
```

```
    void output_sr_scode(yacco2::KCHARP Directive);
```

```
    void output_sr_scode_title(yacco2::KCHARP Directive);
```

```
    void wrt_directive(yacco2::KCHARP Directive, T_syntax_code * Sdc);
```

5. *Ccweave_T_sdc* user-implementation directive.

⟨*Ccweave_T_sdc* user-implementation directive 5⟩ ≡

```
void Ccweave_T_sdc::initialize(std::ofstream * Cweave_file, yacco2::KCHARP T_name)
```

```
{
```

```
    cweave_file_ = Cweave_file;
```

```
    T_name_ = T_name;
```

```
}
```

6. *wrt_directive*.

⟨More code 6⟩ ≡

```

void Ccweave_T_sdc::wrt_directive(yacco2::KCHARP 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_T_sdc::output_sr_sdc(yacco2::KCHARP Directive)
{
  char big_buf_[BIG_BUFFER_32K];
  char xa[Max_cweb_item_size];
  XLATE_SYMBOLS_FOR_cweave(T_name_, 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⟩ +≡

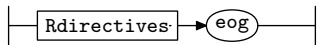
```
void Ccweave_T_sdc::output_sr_sdc_title(yacco2::KCHARP Directive)
{
  char big_buf_[BIG_BUFFER_32K];
  char xa[Max_cweb_item_size];
  XLATE_SYMBOLS_FOR_cweave(T_name_, xa);
  KCHARP cweave_sentence = "@*3_ %s_ %s_directive.\\n";
  sprintf(big_buf_, cweave_sentence, xa, Directive);
  (*cweave_file_) << big_buf_;
}
```

9. *Ccweave_T_sdc* user-prefix-declaration directive.

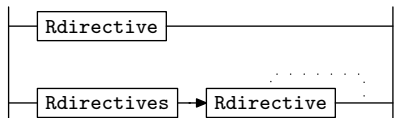
⟨Ccweave_T_sdc user-prefix-declaration directive 9⟩ ≡
#include "o2_externs.h"

10. *Rweave_sdc* rule.

Rweave_sdc

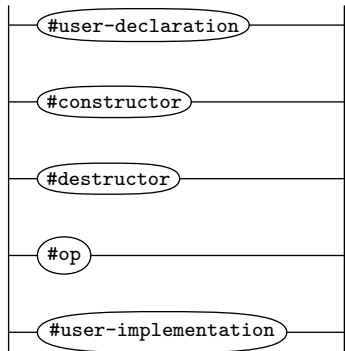
11. *Rdirectives* rule.

Rdirectives

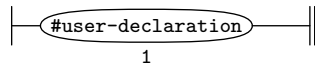


12. Rdirective rule.

Rdirective

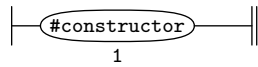


13. Rdirective's subrule 1.



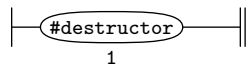
\langle Rdirective subrule 1 op directive 13 $\rangle \equiv$
 $Ccweave_T_sdc * fsm = (Ccweave_T_sdc *) rule_info_parser_fsm_tbl_;$
 $KCHARP_sdc = "user-declaration";$
 $fsm_wrt_directive(sdc, sf-p1_syntax_code());$

14. Rdirective's subrule 2.



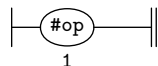
\langle Rdirective subrule 2 op directive 14 $\rangle \equiv$
 $Ccweave_T_sdc * fsm = (Ccweave_T_sdc *) rule_info_parser_fsm_tbl_;$
 $KCHARP_sdc = "constructor";$
 $fsm_wrt_directive(sdc, sf-p1_syntax_code());$

15. Rdirective's subrule 3.



\langle Rdirective subrule 3 op directive 15 $\rangle \equiv$
 $Ccweave_T_sdc * fsm = (Ccweave_T_sdc *) rule_info_parser_fsm_tbl_;$
 $KCHARP_sdc = "destructor";$
 $fsm_wrt_directive(sdc, sf-p1_syntax_code());$

16. Rdirective's subrule 4.



\langle Rdirective subrule 4 op directive 16 $\rangle \equiv$
 $Ccweave_T_sdc * fsm = (Ccweave_T_sdc *) rule_info_parser_fsm_tbl_;$
 $KCHARP_sdc = "op";$
 $fsm_wrt_directive(sdc, sf-p1_syntax_code());$

17. *Rdirective's* subrule 5.

|—#user-implementation—||
 1

⟨Rdirective subrule 5 op directive 17⟩ ≡
Ccweave_T_sdc * *fsm* = (*Ccweave_T_sdc* *) *rule_info...**parser...**fsm_tbl...*;
 KCHARP*sdc* = "user-implementation";
fsm-wrt_directive(*sdc*, *sf-p1...**syntax_code*());

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

```
/*
  File: cweave_T_sdc.fsc
  Date and Time: Fri Jan  2 15:33:30 2015
*/
transitive    n
grammar-name  "cweave_T_sdc"
name-space    "NS_cweave_T_sdc"
thread-name   "Ccweave_T_sdc"
monolithic    y
file-name     "cweave_T_sdc.fsc"
no-of-T       569
list-of-native-first-set-terminals 5
  T_user_declaration
  T_constructor
  T_destructor
  T_op
  T_user_implementation
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 Terminals' sdc directives."
```

19. Lr1 State Network.

⇒					State: 1 state type: <i>s</i>			
←	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		# constructor		1 3 3	
c	Rdirective		3 3 1		# destructor		1 4 4	
c	Rdirective		3 4 1		# op		1 5 5	
c	Rdirective		3 5 1		# user-implementation		1 6 6	
c	Rdirectives		2 2 1		Rdirectives <u>Rdirective</u>		1 7 9	
c	Rweave_sdc		1 1 1		Rdirectives <u>eog</u>		1 7 8	
c	Rdirectives		2 1 1		Rdirective		1 10 10	
⇒	<i>#user-declaration</i>				State: 2 state type: <i>r</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
t	Rdirective		3 1 2				1 0 2 1	
⇒	<i>#constructor</i>				State: 3 state type: <i>r</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
t	Rdirective		3 2 2				1 0 3 1	
⇒	<i>#destructor</i>				State: 4 state type: <i>r</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
t	Rdirective		3 3 2				1 0 4 1	
⇒	<i>#op</i>				State: 5 state type: <i>r</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
t	Rdirective		3 4 2				1 0 5 1	
⇒	<i>#user-implementation</i>				State: 6 state type: <i>r</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
t	Rdirective		3 5 2				1 0 6 1	
⇒	<i>Rdirectives</i>				State: 7 state type: <i>s</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
t	Rweave_sdc		1 1 2		eog		1 8 8	
c	Rdirective		3 1 1		# user-declaration		7 2 2	
c	Rdirective		3 2 1		# constructor		7 3 3	
c	Rdirective		3 3 1		# destructor		7 4 4	
c	Rdirective		3 4 1		# op		7 5 5	
c	Rdirective		3 5 1		# user-implementation		7 6 6	
t	Rdirectives		2 2 2		Rdirective		1 9 9	
⇒	<i>eog</i>				State: 8 state type: <i>r</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
t	Rweave_sdc		1 1 3				1 0 8 2	
⇒	<i>Rdirective</i>				State: 9 state type: <i>r</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
t	Rdirectives		2 2 3				1 0 9 1	
⇒	<i>Rdirective</i>				State: 10 state type: <i>r</i>			

←	rule	→	R#	sr#	Po	←
t	Rdirectives		2	1	2	

subrule element

→	Brn	Gto	Red	LA
	1	0	10	1

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cweave_T_sdc Grammar

Date: January 2, 2015 at 15:34

File: cweave_T_sdc.lex

Ns: NS_cweave_T_sdc

Version: 1.0

Debug: false

Grammar Comments:

Type: Monolithic

Write out cweave Terminals' sdc directives.

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