

1. Copyright.

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2. ws Thread.

White space globber of:

- 1) `\` — space
- 2) horizontal tab
- 3) vertical tab
- 4) form feed

Use a global pointer to it as it is just an indicator. The new / delete cycle is too expensive.

As the data accepted is not needed, i skip building up its characters in a local string.

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

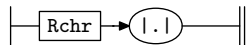
`<Cws user-declaration directive 4> ≡`
public: void *read_white_stuff*();

5. Cws user-implementation directive.

`<Cws user-implementation directive 5> ≡`
void *Cws::read_white_stuff*()
 {
loop:
 switch (*parser--current_token()*→*enumerated_id_*) {
 case *T_Enum::T_raw_sp_*: **goto** *other*;
 case *T_Enum::T_raw_ht_*: **goto** *other*;
 case *T_Enum::T_raw_vt_*: **goto** *other*;
 case *T_Enum::T_raw_ff_*: **goto** *other*;
 default: **return**;
 }
other:
 {
 parser--get_next_token();
 goto *loop*;
 }
 }

6. Rws rule.

Rws



`<Rws subrule 1 op directive 6> ≡`

```
Cws *  fsm = ( Cws * ) rule_info_→parser_→fsm_tbl_;  

CAbs_lr1_sym *  sym = NS_yacco2_terminals::PTR_ws_;  

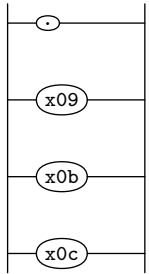
sym→set_rc(*rule_info_→parser_→start_token_, __FILE__, __LINE__);  

sym→set_line_no_and_pos_in_line(*rule_info_→parser_→start_token_);  

RSVP(sym);
```

7. Rchr rule.

Rchr



8. Rchr op directive.

Why the previous stack frame? Cuz the finite state implementation has the vectoring symbol associated with its state and the current stack frame is its goto state with no associated symbol.

Why the delayed grabbing of the character here instead of at its subrule? To prevent code bloat and to improvize.

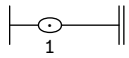
```

< Rchr op directive 8 > ≡
  Cws * fsm = ( Cws * ) rule_info_.parser_--fsm.tbl_;
  fsm-read_white_stuff (); /* current token is the next character to assess */

```

9. Rchr's subrule 1.

The white space is dotted in the diagram due to *convertMPtoPDF* limitations.



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

```
/*
  File: ws.fsc
  Date and Time: Fri Jan  2 15:34:00 2015
*/
transitive      n
grammar-name    "ws"
name-space      "NS_ws"
thread-name     "TH_ws"
monolithic      n
file-name       "ws.fsc"
no-of-T         569
list-of-native-first-set-terminals 4
  raw_ht
  raw_vt
  raw_ff
  raw_sp
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
"White space globber."
```

11. Lr1 State Network.

⇒					State: 1 state type: ^s							
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rchr		2	2	1	x09			1	2	2	
c	Rchr		2	3	1	x0b			1	3	3	
c	Rchr		2	4	1	x0c			1	4	4	
c	Rchr		2	1	1				1	5	5	
c	Rws		1	1	1	Rchr .			1	6	7	
⇒ ^{x09}							State: 2 state type: ^r					
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rchr		2	2	2				1	0	2	1
⇒ ^{x0b}							State: 3 state type: ^r					
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rchr		2	3	2				1	0	3	1
⇒ ^{x0c}							State: 4 state type: ^r					
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rchr		2	4	2				1	0	4	1
⇒							State: 5 state type: ^r					
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rchr		2	1	2				1	0	5	1
⇒ ^{Rchr}							State: 6 state type: ^s					
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rws		1	1	2	.			1	7	7	
⇒ [.]							State: 7 state type: ^r					
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rws		1	1	3				1	0	7	2

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⟨ Cws user-declaration directive 4 ⟩

⟨ Cws user-implementation directive 5 ⟩

⟨ Rchr op directive 8 ⟩

⟨ Rws subrule 1 op directive 6 ⟩

ws Grammar

Date: January 2, 2015 at 15:40

File: ws.lex

Ns: NS_ws

Version: 1.0

Debug: false

Grammar Comments:

Type: Thread

White space globber.

1 element(s) in Lookahead Expression below

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