

1. Copyright.

Copyright © Dave Bone 1998 - 2015

2. *rhs_bnd* thread.

Finds the end-of-a-subrule's expression. The stoppers are:

- { — start of a syntax directed code block
- } — end of the rule's subrules
- > — start of a new subrule expression

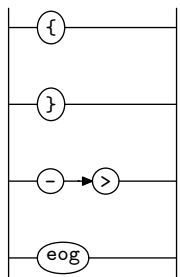
Note:

Lookahead pair $\langle \text{token}, \text{pos} \rangle$ is the same start token of this thread cuz an end-of-subrule is invisible caused by either the start of another subrule definition or the end of a rule definition.

To properly parse these other junction points, the token stream must stay aligned at the point of invocation.

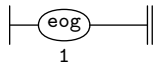
3. Fsm Crhs_bnd class.**4. *Rrhs_bnd* rule.**

Rrhs_bnd

**5. *Rrhs_bnd* op directive.**

$\langle \text{Rrhs_bnd op directive 5} \rangle \equiv$

```
CAbs_lr1_sym * sym = new T_eosubrule;
sym->set_rc(*rule_info_.parser->start_token_, __FILE__, __LINE__);
/* pass back lookahead as start of thread */
RSVP_WLA(sym, rule_info_.parser->start_token_, sym->tok_co_ords_.rc_pos_);
```

6. *Rrhs_bnd*'s subrule 4.

$\langle \text{Rrhs_bnd subrule 4 op directive 6} \rangle \equiv$

```
CAbs_lr1_sym * sym = new Err_subrule_overrun;
sym->set_rc(*rule_info_.parser->start_token_, __FILE__, __LINE__);
RSVP(sym);
rule_info_.parser->set_stop_parse(true);
```

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

```
/*
  File: rhs_bnd.fsc
  Date and Time: Fri Jan  2 15:33:52 2015
*/
transitive      n
grammar-name    "rhs_bnd"
name-space      "NS_rhs_bnd"
thread-name     "TH_rhs_bnd"
monolithic      n
file-name       "rhs_bnd.fsc"
no-of-T         569
list-of-native-first-set-terminals 4
  LR1_eog
  raw_minus
  raw_open_brace
  raw_close_brace
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
"Determine end-of-subrule expression within a rule."
```

8. Lr1 State Network.

\Rightarrow	← rule → R# sr# Po ←	State: 1 state type: s	
	c Rrhs_bnd 1 4 1 eog	subrule element	→ Brn Gto Red LA
	c Rrhs_bnd 1 3 1 -		1 2 2
	c Rrhs_bnd 1 1 1 {		1 3 4
	c Rrhs_bnd 1 2 1 }		1 5 5
			1 6 6
\Rightarrow^{eog}	← rule → R# sr# Po ←	State: 2 state type: r	
	t Rrhs_bnd 1 4 2	subrule element	→ Brn Gto Red LA
			1 0 2 1
\Rightarrow^{-}	← rule → R# sr# Po ←	State: 3 state type: s	
	t Rrhs_bnd 1 3 2 >	subrule element	→ Brn Gto Red LA
			1 4 4
$\Rightarrow^{>}$	← rule → R# sr# Po ←	State: 4 state type: r	
	t Rrhs_bnd 1 3 3	subrule element	→ Brn Gto Red LA
			1 0 4 1
$\Rightarrow\{$	← rule → R# sr# Po ←	State: 5 state type: r	
	t Rrhs_bnd 1 1 2	subrule element	→ Brn Gto Red LA
			1 0 5 1
$\Rightarrow\}$	← rule → R# sr# Po ←	State: 6 state type: r	
	t Rrhs_bnd 1 2 2	subrule element	→ Brn Gto Red LA
			1 0 6 1

9. Index.

__FILE__: 5, 6.

__LINE__: 5, 6.

CAbs_lr1_sym: 5, 6.

eog: 4.

Err_subrule_ouerrun: 6.

parser__: 5, 6.

rc_pos__: 5.

rhs_bnd: 2.

Rrhs_bnd: 4, 6.

RSVP: 6.

RSVP_WLA: 5.

rule_info__: 5, 6.

set_rc: 5, 6.

set_stop_parse: 6.

start_token__: 5, 6.

sym: 5, 6.

T_eosubrule: 5.

tok_co_ords__: 5.

true: 6.

⟨ Rrhs_bnd op directive 5 ⟩

⟨ Rrhs_bnd subrule 4 op directive 6 ⟩

rhs_bnd Grammar

Date: January 2, 2015 at 15:38

File: rhs_bnd.lex Ns: NS_rhs_bnd

Version: 1.0 Debug: false

Grammar Comments: Type: Thread

Determine end-of-subrule expression within a rule.

1 element(s) in Lookahead Expression below

eolr

	Section	Page
Copyright	1	1
<i>rhs_bnd</i> thread	2	2
Fsm Crhs_bnd class	3	2
<i>Rrhs_bnd</i> rule	4	2
Rrhs_bnd op directive	5	2
<i>Rrhs_bnd</i> 's subrule 4	6	2
First Set Language for O_2^{linker}	7	3
Lr1 State Network	8	4
Index	9	5