

1. Copyright.

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2. *rules_phrase* grammar.
Dispatcher to parse rules alphabet.

3. Fsm Crules_phrase class.

4. Crules_phrase constructor directive.

```
<Crules_phrase constructor directive 4> ≡
  cweb_marker_ = 0;
```

5. Crules_phrase op directive.

```
<Crules_phrase op directive 5> ≡
  if (CWEB_MARKER ≠ 0) {
    cweb_marker_ = CWEB_MARKER;
    CWEB_MARKER = 0;
  }
```

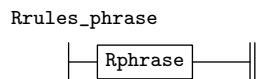
6. Crules_phrase user-declaration directive.

```
<Crules_phrase user-declaration directive 6> ≡
public: yacco2::AST * cweb_marker_;
```

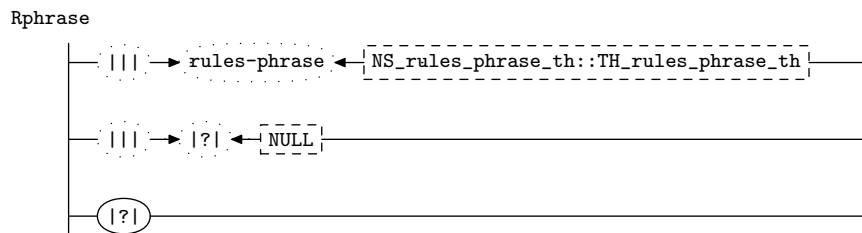
7. Crules_phrase user-prefix-declaration directive.

```
<Crules_phrase user-prefix-declaration directive 7> ≡
#include "rules_phrase_th.h"
#include "o2_externs.h"
```

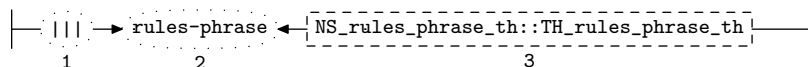
8. Rrules_phrase rule.



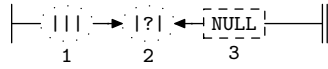
9. Rphrase rule.



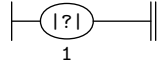
10. Rphrase's subrule 1.



```
<Rphrase subrule 1 op directive 10> ≡
  ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);
```

11. Rphrase's subrule 2.

⟨ Rphrase subrule 2 op directive 11 ⟩ ≡
 ADD_TOKEN_TO_ERROR_QUEUE(*sf→p2_);

12. Rphrase's subrule 3.

⟨ Rphrase subrule 3 op directive 12 ⟩ ≡
 CAbs_lr1_sym * sym = new Err_no_open_parenthesis;
 sym→set_rc(*rule_info→parser→current_token(), __FILE__, __LINE__);
 ADD_TOKEN_TO_ERROR_QUEUE(*sym);

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

```
/*
  File: rules_phrase.fsc
  Date and Time: Fri Jan  2 15:33:54 2015
*/
transitive      y
grammar-name    "rules_phrase"
name-space      "NS_rules_phrase"
thread-name     "Crules_phrase"
monolithic      y
file-name       "rules_phrase.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_rules_phrase_th::TH_rules_phrase_th
end-list-of-transitive-threads
list-of-used-threads 1
  NS_rules_phrase_th::TH_rules_phrase_th
end-list-of-used-threads
fsm-comments
"Dispatcher to parse the grammar's rules."
```

14. Lr1 State Network.

⇒					State: 1 state type: <i>s</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
c	Rphrase		2 3 1	?			1 2 2	
c	Rphrase		2 1 1		rules_phrase NS_rules_phrase.th::TH_rules_phrase.th		1 3 5	
c	Rphrase		2 2 1		? NULL		1 3 4	
c	Rrules_phrase		1 1 1	Rphrase			1 6 6	
⇒	?				State: 2 state type: <i>r</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
t	Rphrase		2 3 2				1 0 2 1	
⇒		arbitration-code: ϵ			State: 3 state type: <i>s</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
t	Rphrase		2 2 2	?			1 4 4	
t	Rphrase		2 1 2	rules_phrase			1 5 5	
⇒	?				State: 4 state type: <i>r</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
t	Rphrase		2 2 3				1 0 4 1	
⇒	rules_phrase				State: 5 state type: <i>r</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
t	Rphrase		2 1 3				1 0 5 1	
⇒	Rphrase				State: 6 state type: <i>r</i>			
←	rule	→	R# sr# Po	←	subrule element	→	Brn Gto Red LA	
t	Rrules_phrase		1 1 2				1 0 6 1	

15. Index.

|||: 9.
|?|: 9.
__FILE__: 12.
__LINE__: 12.
ADD_TOKEN_TO_ERROR_QUEUE: 11, 12.
ADD_TOKEN_TO_PRODUCER_QUEUE: 10.
AST: 6.
CAbs_lr1_sym: 12.
current_token: 12.
CWEB_MARKER: 5.
cweb_marker_: 4, 5, 6.
Err_no_open_parenthesis: 12.
NS_rules_phrase_th::TH_rules_phrase_th: 9.
NULL: 9.
parser_: 12.
p2_: 10, 11.
Rphrase: 9, 10, 11, 12.
Rphrase: 8.
Rrules_phrase: 8.
rule_info_: 12.
rules_phrase: 9.
rules_phrase: 2.
set_rc: 12.
sf: 10, 11.
sym: 12.
yacco2: 6.

- ⟨ Crules_phrase constructor directive 4 ⟩
- ⟨ Crules_phrase op directive 5 ⟩
- ⟨ Crules_phrase user-declaration directive 6 ⟩
- ⟨ Crules_phrase user-prefix-declaration directive 7 ⟩
- ⟨ Rphrase subrule 1 op directive 10 ⟩
- ⟨ Rphrase subrule 2 op directive 11 ⟩
- ⟨ Rphrase subrule 3 op directive 12 ⟩

rules_phrase Grammar

Date: January 2, 2015 at 15:39

File: rules_phrase.lex

Ns: NS_rules_phrase

Version: 1.0

Debug: false

Grammar Comments:

Type: Monolithic

Dispatcher to parse the grammar's rules.

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