

1. Copyright.

Copyright © Dave Bone 1998 - 2015

2. lr1_k_phrase grammar.

Dispatcher to parse the lr1-constant-symbols.

Note: lrk-suffix directive used to append specific grammar writer code to the outputted tables. In this case, it is external pointers to the lrk constant symbols to lower their manufacture. For example, "eog" is used throughout all the grammars — so make-once use-forever attitude.

3. Fsm Clr1_k_phrase class.**4. Clr1_k_phrase constructor directive.**

```
<Clr1_k_phrase constructor directive 4> ≡
  cweb_marker_ = 0;
```

5. Clr1_k_phrase op directive.

```
<Clr1_k_phrase op directive 5> ≡
  if (CWEB_MARKER ≠ 0) {
    cweb_marker_ = CWEB_MARKER;
    CWEB_MARKER = 0;
  }
```

6. Clr1_k_phrase user-declaration directive.

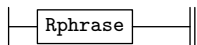
```
<Clr1_k_phrase user-declaration directive 6> ≡
public: yacco2::AST * cweb_marker_;
```

7. Clr1_k_phrase user-prefix-declaration directive.

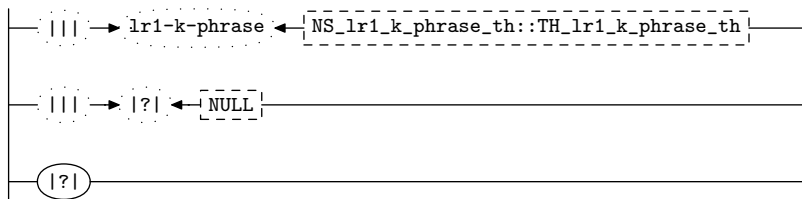
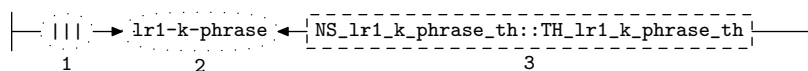
```
<Clr1_k_phrase user-prefix-declaration directive 7> ≡
#include "lr1_k_phrase_th.h"
#include "o2_externs.h"
```

8. Rlr1_k_phrase rule.

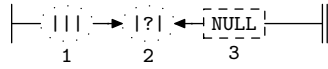
Rlr1_k_phrase

**9. Rphrase rule.**

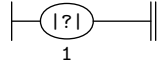
Rphrase

**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: lr1_k_phrase.fsc
  Date and Time: Fri Jan  2 15:33:43 2015
*/
transitive      y
grammar-name    "lr1_k_phrase"
name-space     "NS_lr1_k_phrase"
thread-name    "Clr1_k_phrase"
monolithic     y
file-name      "lr1_k_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_lr1_k_phrase_th::TH_lr1_k_phrase_th
end-list-of-transitive-threads
list-of-used-threads 1
  NS_lr1_k_phrase_th::TH_lr1_k_phrase_th
end-list-of-used-threads
fsm-comments
"Dispatcher to parse ‘‘lrk-symbols’’ construct."
```

14. Lr1 State Network.

\Rightarrow					State: 1 state type: s			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
c	Rphrase		2 3 1	?			1 2 2	
c	Rphrase		2 2 1	? NULL			1 3 4	
c	Rphrase		2 1 1	lr1-k_phrase NS_lr1_k_phrase_th::TH_lr1_k_phrase_th			1 3 5	
c	Rlr1.k_phrase		1 1 1	Rphrase			1 6 6	
\Rightarrow	?				State: 2 state type: r			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rphrase		2 3 2				1 0 2 1	
\Rightarrow	<i>arbitration-code: ϵ</i>				State: 3 state type: s			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rphrase		2 2 2	?			1 4 4	
t	Rphrase		2 1 2	lr1-k_phrase			1 5 5	
\Rightarrow	?				State: 4 state type: r			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rphrase		2 2 3				1 0 4 1	
\Rightarrow	<i>lr1-k_phrase</i>				State: 5 state type: r			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rphrase		2 1 3				1 0 5 1	
\Rightarrow	<i>Rphrase</i>				State: 6 state type: r			
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA	
t	Rlr1.k_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.
lr1-k-phrase: 9.
lr1_k_phrase: 2.
NS_lr1_k_phrase_th::TH_lr1_k_phrase_th: 9.
NULL: 9.
parser_: 12.
p2_: 10, 11.
Rlr1_k_phrase: 8.
Rphrase: 9, 10, 11, 12.
Rphrase: 8.
rule_info_: 12.
set_rc: 12.
sf: 10, 11.
sym: 12.
yacco2: 6.

- ⟨ Clr1.k_phrase constructor directive 4 ⟩
- ⟨ Clr1.k_phrase op directive 5 ⟩
- ⟨ Clr1.k_phrase user-declaration directive 6 ⟩
- ⟨ Clr1.k_phrase user-prefix-declaration directive 7 ⟩
- ⟨ Rphrase subrule 1 op directive 10 ⟩
- ⟨ Rphrase subrule 2 op directive 11 ⟩
- ⟨ Rphrase subrule 3 op directive 12 ⟩

lr1_k_phrase Grammar

Date: January 2, 2015 at 15:37

File: lr1_k_phrase.lex

Ns: NS_lr1_k_phrase

Version: 1.0

Debug: false

Grammar Comments:

Type: Monolithic

Dispatcher to parse “lrk-symbols” construct.

	Section	Page
Copyright	1	1
<i>lr1_k_phrase</i> grammar	2	2
Fsm Clr1_k_phrase class	3	2
Clr1_k_phrase constructor directive	4	2
Clr1_k_phrase op directive	5	2
Clr1_k_phrase user-declaration directive	6	2
Clr1_k_phrase user-prefix-declaration directive	7	2
<i>Rlr1_k_phrase</i> rule	8	2
<i>Rphrase</i> rule	9	2
<i>Rphrase</i> 's subrule 1	10	2
<i>Rphrase</i> 's subrule 2	11	3
<i>Rphrase</i> 's subrule 3	12	3
First Set Language for O_2^{linker}	13	4
Lr1 State Network	14	5
Index	15	6