

1. Copyright.

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2. Testdriver.

It tests out the lexical parts to O_2 . The *testdriver* is just a lexical caller to various threaded grammars that handle the lexical portion of O_2 . The test files that feed it are concocted test data to exercise strings and things... These data files reside in `/usr/local/yacco2/qa/*dat`. Examples of test data file flavours testing are `t0.bat` and `t1.bat`.

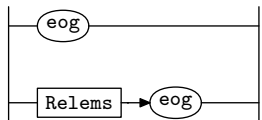
3. Fsm Ctest_components class.

4. Ctest_components user-prefix-declaration directive.

```
< Ctest_components user-prefix-declaration directive 4 > ≡
#include "angled_string.h"
#include "bad_char_set.h"
#include "c_comments.h"
#include "c_literal.h"
#include "c_string.h"
#include "dbl_colon.h"
#include "eol.h"
#include "esc_seq.h"
#include "identifier.h"
#include "int_no.h"
#include "linker_id.h"
#include "unq_str.h"
#include "ws.h"
#include "o2_externs.h"
#include "o2_code_end.h"
```

5. Rpass3 rule.

Rpass3

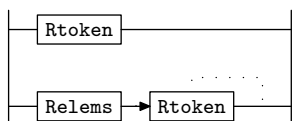


6. Rpass3 op directive.

```
< Rpass3 op directive 6 > ≡
using namespace NS_yacco2_k_symbols;
ADD_TOKEN_TO_PRODUCER_QUEUE(*yacco2 :: PTR_LR1_eog--);
ADD_TOKEN_TO_PRODUCER_QUEUE(*yacco2 :: PTR_LR1_eog--);
```

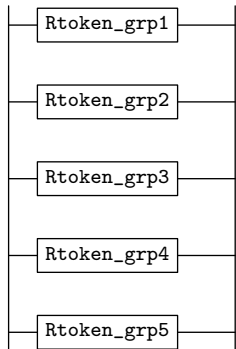
7. Relems rule.

Relems

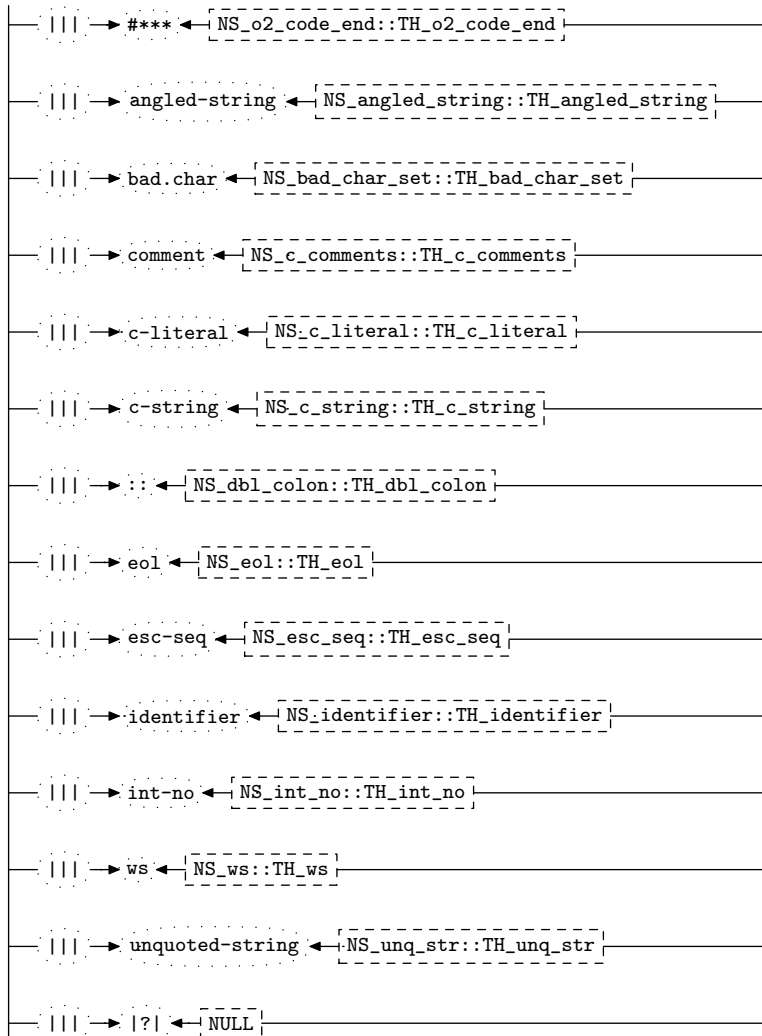


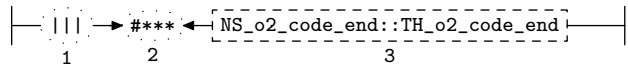
8. *Rtoken* rule.

Rtoken

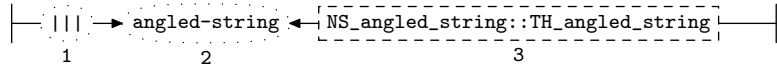
9. *Rtoken_grp1* rule.

Rtoken_grp1

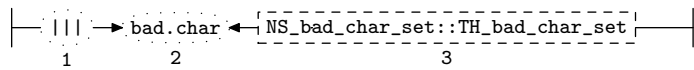


10. *Rtoken_grp1*'s subrule 1.

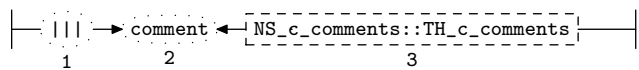
⟨*Rtoken_grp1* subrule 1 op directive 10⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(**sf*-*p2*-);

11. *Rtoken_grp1*'s subrule 2.

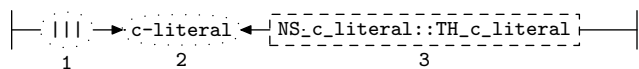
⟨*Rtoken_grp1* subrule 2 op directive 11⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(**sf*-*p2*-);

12. *Rtoken_grp1*'s subrule 3.

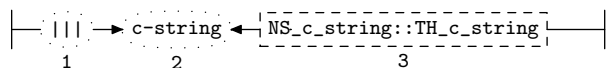
⟨*Rtoken_grp1* subrule 3 op directive 12⟩ ≡
 ADD_TOKEN_TO_ERROR_QUEUE(**sf*-*p2*-);

13. *Rtoken_grp1*'s subrule 4.

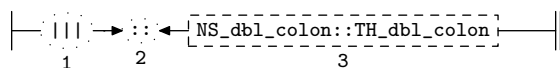
⟨*Rtoken_grp1* subrule 4 op directive 13⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(**sf*-*p2*-);

14. *Rtoken_grp1*'s subrule 5.

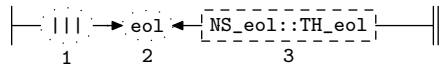
⟨*Rtoken_grp1* subrule 5 op directive 14⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(**sf*-*p2*-);

15. *Rtoken_grp1*'s subrule 6.

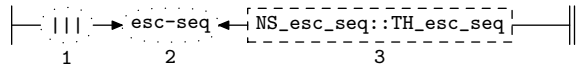
⟨*Rtoken_grp1* subrule 6 op directive 15⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(**sf*-*p2*-);

16. *Rtoken_grp1*'s subrule 7.

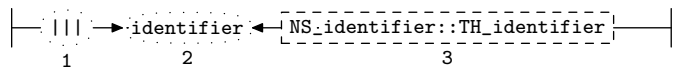
⟨*Rtoken_grp1* subrule 7 op directive 16⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(**sf*-*p2*-);

17. *Rtoken_grp1*'s subrule 8.

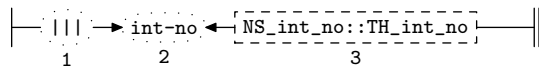
$\langle \text{Rtoken_grp1 subrule 8 op directive 17} \rangle \equiv$ /* token stream marker */
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

18. *Rtoken_grp1*'s subrule 9.

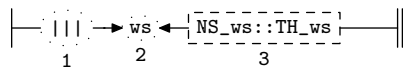
$\langle \text{Rtoken_grp1 subrule 9 op directive 18} \rangle \equiv$ /* token stream marker */
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

19. *Rtoken_grp1*'s subrule 10.

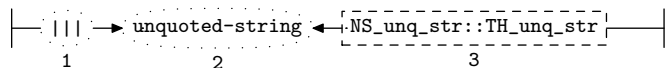
$\langle \text{Rtoken_grp1 subrule 10 op directive 19} \rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

20. *Rtoken_grp1*'s subrule 11.

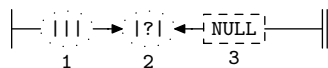
$\langle \text{Rtoken_grp1 subrule 11 op directive 20} \rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

21. *Rtoken_grp1*'s subrule 12.

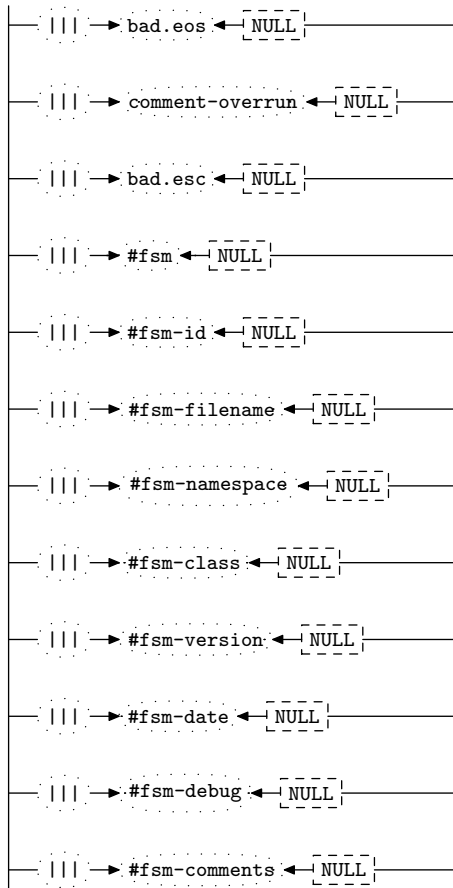
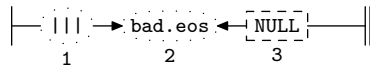
$\langle \text{Rtoken_grp1 subrule 12 op directive 21} \rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

22. *Rtoken_grp1*'s subrule 13.

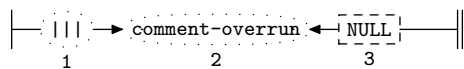
$\langle \text{Rtoken_grp1 subrule 13 op directive 22} \rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

23. *Rtoken_grp1*'s subrule 14.

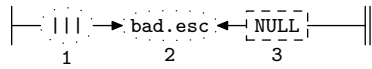
$\langle \text{Rtoken_grp1 subrule 14 op directive 23} \rangle \equiv$
 ADD_TOKEN_TO_ERROR_QUEUE(*sf-p2_);
 rule_info...parser--set_abort_parse(true);

24. *Rtoken_grp2* rule.*Rtoken_grp2***25. *Rtoken_grp2*'s subrule 1.**

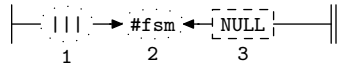
⟨ *Rtoken_grp2* subrule 1 op directive 25 ⟩ ≡
 ADD_TOKEN_TO_ERROR_QUEUE(*sf-p2_);
 rule_info_.parser--set_abort_parse(true);

26. *Rtoken_grp2*'s subrule 2.

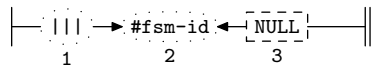
⟨ *Rtoken_grp2* subrule 2 op directive 26 ⟩ ≡
 ADD_TOKEN_TO_ERROR_QUEUE(*sf-p2_);
 rule_info_.parser--set_abort_parse(true);

27. Rtoken_grp2's subrule 3.

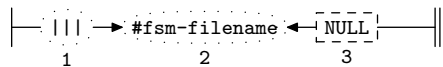
⟨Rtoken_grp2 subrule 3 op directive 27⟩ ≡
 ADD_TOKEN_TO_ERROR_QUEUE(*sf~p2~);
 rule_info__parser__set_abort_parse(true);

28. Rtoken_grp2's subrule 4.

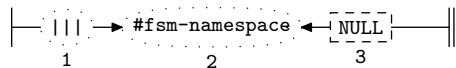
⟨Rtoken_grp2 subrule 4 op directive 28⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf~p2~);

29. Rtoken_grp2's subrule 5.

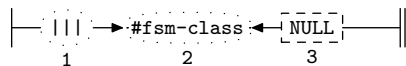
⟨Rtoken_grp2 subrule 5 op directive 29⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf~p2~);

30. Rtoken_grp2's subrule 6.

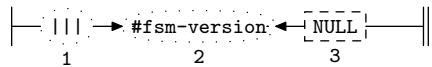
⟨Rtoken_grp2 subrule 6 op directive 30⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf~p2~);

31. Rtoken_grp2's subrule 7.

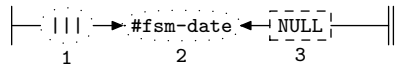
⟨Rtoken_grp2 subrule 7 op directive 31⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf~p2~);

32. Rtoken_grp2's subrule 8.

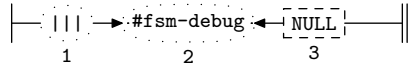
⟨Rtoken_grp2 subrule 8 op directive 32⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf~p2~);

33. Rtoken_grp2's subrule 9.

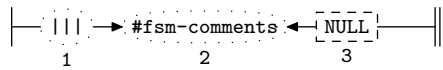
⟨Rtoken_grp2 subrule 9 op directive 33⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf~p2~);

34. *Rtoken_grp2*'s subrule 10.

⟨ *Rtoken_grp2* subrule 10 op directive 34 ⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

35. *Rtoken_grp2*'s subrule 11.

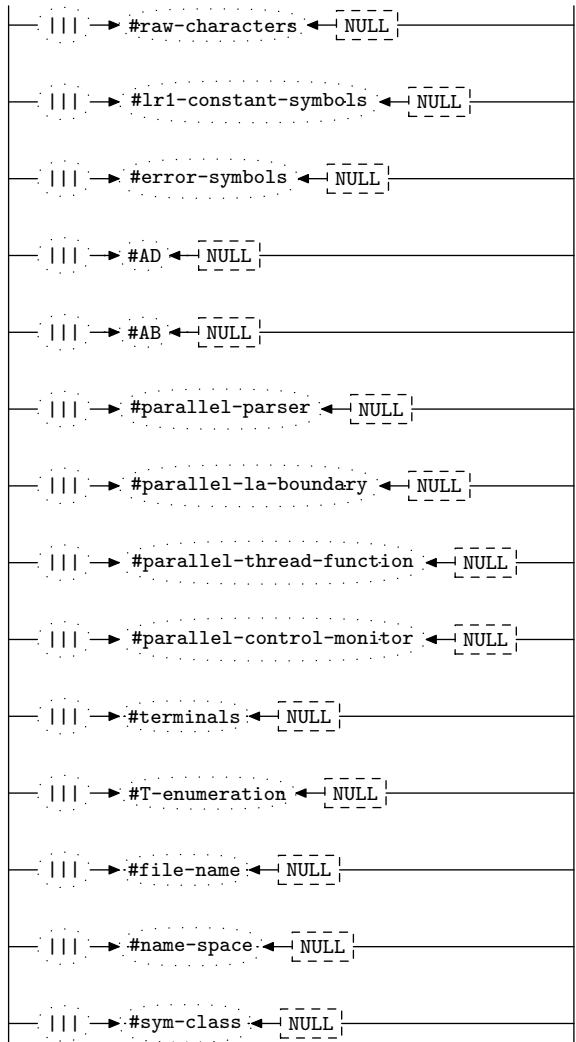
⟨ *Rtoken_grp2* subrule 11 op directive 35 ⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

36. *Rtoken_grp2*'s subrule 12.

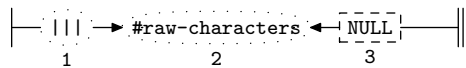
⟨ *Rtoken_grp2* subrule 12 op directive 36 ⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

37. Rtoken_grp3 rule.

Rtoken_grp3

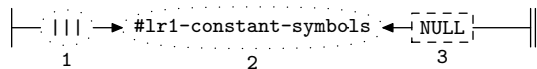


38. Rtoken_grp3's subrule 1.

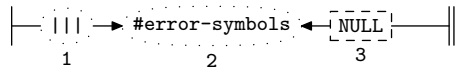


⟨Rtoken_grp3 subrule 1 op directive 38⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2..);

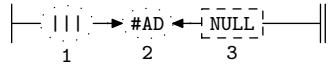
39. Rtoken_grp3's subrule 2.



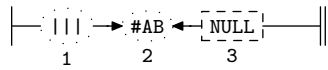
⟨Rtoken_grp3 subrule 2 op directive 39⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2..);

40. *Rtoken_grp3*'s subrule 3.

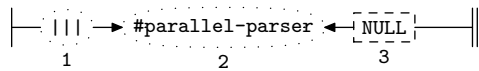
$\langle \text{Rtoken_grp3 subrule 3 op directive 40} \rangle \equiv$
`ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);`

41. *Rtoken_grp3*'s subrule 4.

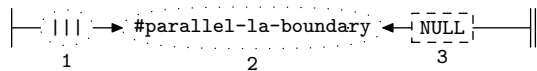
$\langle \text{Rtoken_grp3 subrule 4 op directive 41} \rangle \equiv$
`ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);`

42. *Rtoken_grp3*'s subrule 5.

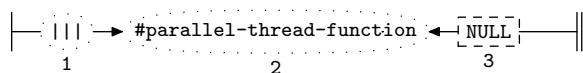
$\langle \text{Rtoken_grp3 subrule 5 op directive 42} \rangle \equiv$
`ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);`

43. *Rtoken_grp3*'s subrule 6.

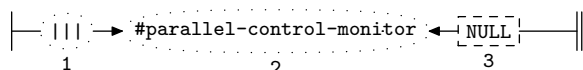
$\langle \text{Rtoken_grp3 subrule 6 op directive 43} \rangle \equiv$
`ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);`

44. *Rtoken_grp3*'s subrule 7.

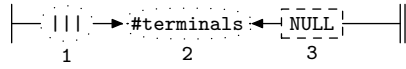
$\langle \text{Rtoken_grp3 subrule 7 op directive 44} \rangle \equiv$
`ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);`

45. *Rtoken_grp3*'s subrule 8.

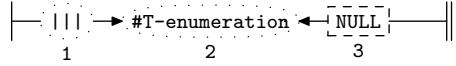
$\langle \text{Rtoken_grp3 subrule 8 op directive 45} \rangle \equiv$
`ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);`

46. *Rtoken_grp3*'s subrule 9.

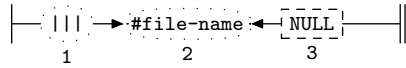
$\langle \text{Rtoken_grp3 subrule 9 op directive 46} \rangle \equiv$
`ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);`

47. *Rtoken_grp3*'s subrule 10.

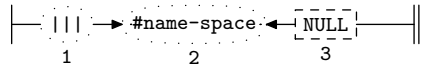
⟨Rtoken_grp3 subrule 10 op directive 47⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

48. *Rtoken_grp3*'s subrule 11.

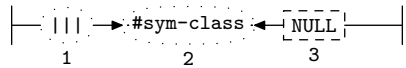
⟨Rtoken_grp3 subrule 11 op directive 48⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

49. *Rtoken_grp3*'s subrule 12.

⟨Rtoken_grp3 subrule 12 op directive 49⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

50. *Rtoken_grp3*'s subrule 13.

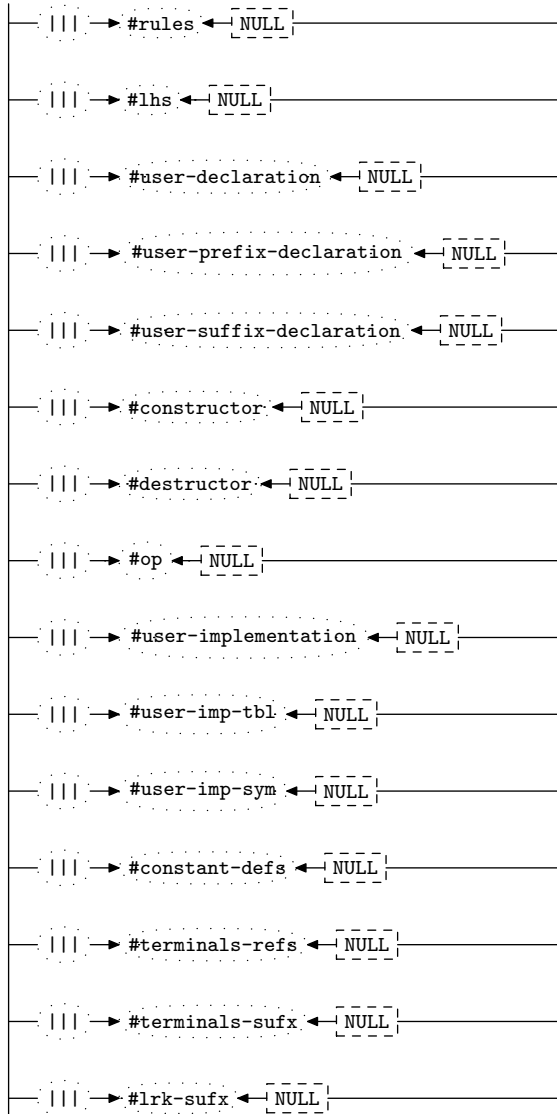
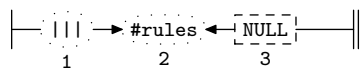
⟨Rtoken_grp3 subrule 13 op directive 50⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

51. *Rtoken_grp3*'s subrule 14.

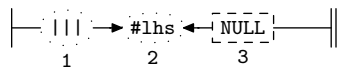
⟨Rtoken_grp3 subrule 14 op directive 51⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

52. *Rtoken_grp4* rule.

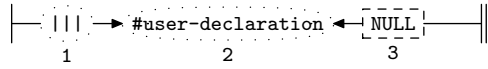
Rtoken_grp4

**53.** *Rtoken_grp4*'s subrule 1.

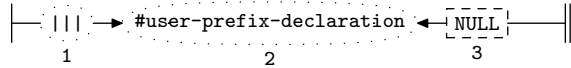
⟨Rtoken_grp4 subrule 1 op directive 53⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

54. *Rtoken_grp4*'s subrule 2.

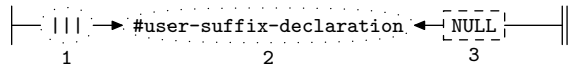
⟨Rtoken_grp4 subrule 2 op directive 54⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

55. Rtoken_grp4's subrule 3.

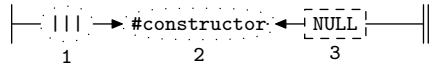
$\langle \text{Rtoken_grp4 subrule 3 op directive 55} \rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

56. Rtoken_grp4's subrule 4.

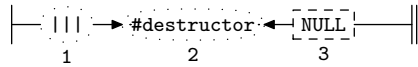
$\langle \text{Rtoken_grp4 subrule 4 op directive 56} \rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

57. Rtoken_grp4's subrule 5.

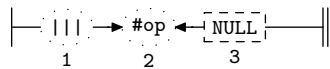
$\langle \text{Rtoken_grp4 subrule 5 op directive 57} \rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

58. Rtoken_grp4's subrule 6.

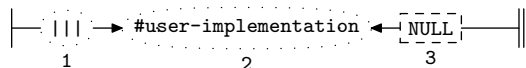
$\langle \text{Rtoken_grp4 subrule 6 op directive 58} \rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

59. Rtoken_grp4's subrule 7.

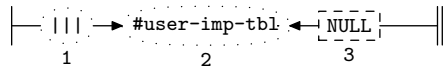
$\langle \text{Rtoken_grp4 subrule 7 op directive 59} \rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

60. Rtoken_grp4's subrule 8.

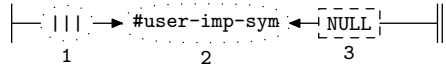
$\langle \text{Rtoken_grp4 subrule 8 op directive 60} \rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

61. Rtoken_grp4's subrule 9.

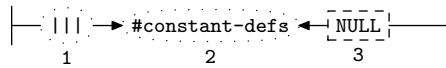
$\langle \text{Rtoken_grp4 subrule 9 op directive 61} \rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2_);

62. *Rtoken_grp4*'s subrule 10.

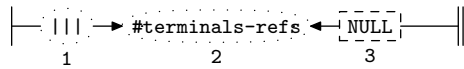
⟨Rtoken_grp4 subrule 10 op directive 62⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

63. *Rtoken_grp4*'s subrule 11.

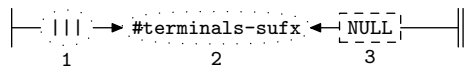
⟨Rtoken_grp4 subrule 11 op directive 63⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

64. *Rtoken_grp4*'s subrule 12.

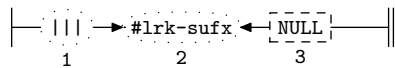
⟨Rtoken_grp4 subrule 12 op directive 64⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

65. *Rtoken_grp4*'s subrule 13.

⟨Rtoken_grp4 subrule 13 op directive 65⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

66. *Rtoken_grp4*'s subrule 14.

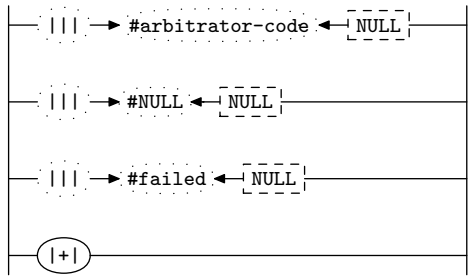
⟨Rtoken_grp4 subrule 14 op directive 66⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

67. *Rtoken_grp4*'s subrule 15.

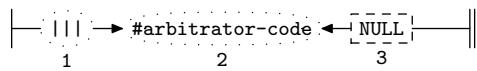
⟨Rtoken_grp4 subrule 15 op directive 67⟩ ≡
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

68. Rtoken_grp5 rule.

Rtoken_grp5

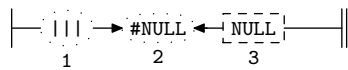


69. Rtoken_grp5's subrule 1.



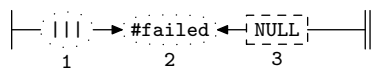
\langle Rtoken_grp5 subrule 1 op directive 69 $\rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

70. Rtoken_grp5's subrule 2.



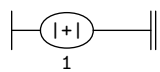
\langle Rtoken_grp5 subrule 2 op directive 70 $\rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

71. Rtoken_grp5's subrule 3.



\langle Rtoken_grp5 subrule 3 op directive 71 $\rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p2-);

72. Rtoken_grp5's subrule 4.



\langle Rtoken_grp5 subrule 4 op directive 72 $\rangle \equiv$
 ADD_TOKEN_TO_PRODUCER_QUEUE(*sf-p1-);

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

```

/*
  File: test_components.fsc
  Date and Time: Fri Jan  2 15:34:00 2015
*/
transitive      y
grammar-name    "test_components"
name-space      "NS_test_components"
thread-name     "Ctest_components"
monolithic      y
file-name       "test_components.fsc"
no-of-T         569
list-of-native-first-set-terminals 2
  LR1_eog
  LR1_all_shift_operator
end-list-of-native-first-set-terminals
list-of-transitive-threads 13
  NS_angled_string::TH_angled_string
  NS_bad_char_set::TH_bad_char_set
  NS_c_comments::TH_c_comments
  NS_c_string::TH_c_string
  NS_dbl_colon::TH_dbl_colon
  NS_esc_seq::TH_esc_seq
  NS_int_no::TH_int_no
  NS_ws::TH_ws
  NS_c_literal::TH_c_literal
  NS_eol::TH_eol
  NS_identifier::TH_identifier
  NS_unq_str::TH_unq_str
  NS_o2_code_end::TH_o2_code_end
end-list-of-transitive-threads
list-of-used-threads 13
  NS_angled_string::TH_angled_string
  NS_bad_char_set::TH_bad_char_set
  NS_c_comments::TH_c_comments
  NS_c_literal::TH_c_literal
  NS_c_string::TH_c_string
  NS_dbl_colon::TH_dbl_colon
  NS_eol::TH_eol
  NS_esc_seq::TH_esc_seq
  NS_identifier::TH_identifier
  NS_int_no::TH_int_no
  NS_o2_code_end::TH_o2_code_end
  NS_unq_str::TH_unq_str
  NS_ws::TH_ws
end-list-of-used-threads
fsm-comments
"Tester: lexical stage constructing tokens for syntax parser."

```


74. Lr1 State Network.

⇒

State: 1 state type: ^s

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Rpass3		1	1	1	eog			1	2	2	
c	Rtoken_grp1		4	1	1		# *** NS_o2_code_end::TH_o2_code_end		1	3	18	
c	Rtoken_grp1		4	3	1		bad char NS_bad_char_set::TH_bad_char_set		1	3	61	
c	Rtoken_grp1		4	5	1		c-literal NS_c_literal::TH_c_literal		1	3	10	
c	Rtoken_grp1		4	7	1		:: NS_dbl_colon::TH_dbl_colon		1	3	57	
c	Rtoken_grp1		4	9	1		esc-seq NS_esc_seq::TH_esc_seq		1	3	5	
c	Rtoken_grp1		4	11	1		int-no NS_int_no::TH_int_no		1	3	14	
c	Rtoken_grp1		4	12	1		ws NS_ws::TH_ws		1	3	8	
c	Rtoken_grp1		4	13	1		unquoted-string NS_unq_str::TH_unq_str		1	3	12	
c	Rtoken_grp2		5	2	1		comment-overflow NULL		1	3	60	
c	Rtoken_grp2		5	7	1		# fsm-namespace NULL		1	3	29	
c	Rtoken_grp2		5	9	1		# fsm-version NULL		1	3	31	
c	Rtoken_grp2		5	10	1		# fsm-date NULL		1	3	32	
c	Rtoken_grp2		5	12	1		# fsm-comments NULL		1	3	34	
c	Rtoken_grp3		6	2	1		# lr1-constant-symbols NULL		1	3	16	
c	Rtoken_grp3		6	5	1		# AB NULL		1	3	20	
c	Rtoken_grp3		6	7	1		# parallel-la-boundary NULL		1	3	21	
c	Rtoken_grp3		6	9	1		# parallel-control-monitor NULL		1	3	25	
c	Rtoken_grp3		6	11	1		# T-enumeration NULL		1	3	36	
c	Rtoken_grp4		7	1	1		# rules NULL		1	3	40	
c	Rtoken_grp4		7	2	1		# lhs NULL		1	3	41	
c	Rtoken_grp4		7	4	1		# user-prefix-declaration NULL		1	3	43	
c	Rtoken_grp4		7	5	1		# user-suffix-declaration NULL		1	3	44	
c	Rtoken_grp4		7	7	1		# destructor NULL		1	3	46	
c	Rtoken_grp4		7	10	1		# user-imp-tbl NULL		1	3	50	
c	Rtoken_grp4		7	12	1		# constant-defs NULL		1	3	52	
c	Rtoken_grp4		7	13	1		# terminals-refs NULL		1	3	53	
c	Rtoken_grp5		8	3	1		# failed NULL		1	3	48	
c	Rtoken_grp1		4	2	1		angled-string NS_angled_string::TH_angled_string		1	3	9	
c	Rtoken_grp1		4	4	1		comment NS_c_comments::TH_c_comments		1	3	7	
c	Rtoken_grp1		4	6	1		c-string NS_c_string::TH_c_string		1	3	11	
c	Rtoken_grp1		4	8	1		eol NS_eol::TH_eol		1	3	6	
c	Rtoken_grp1		4	10	1		identifier NS_identifier::TH_identifier		1	3	13	
c	Rtoken_grp1		4	14	1		? NULL		1	3	4	
c	Rtoken_grp2		5	1	1		bad eos NULL		1	3	58	
c	Rtoken_grp2		5	3	1		bad esc NULL		1	3	59	
c	Rtoken_grp2		5	4	1		# fsm NULL		1	3	26	
c	Rtoken_grp2		5	5	1		# fsm-id NULL		1	3	27	
c	Rtoken_grp2		5	6	1		# fsm-filename NULL		1	3	28	
c	Rtoken_grp2		5	8	1		# fsm-class NULL		1	3	30	
c	Rtoken_grp2		5	11	1		# fsm-debug NULL		1	3	33	
c	Rtoken_grp3		6	1	1		# raw-characters NULL		1	3	15	
c	Rtoken_grp3		6	3	1		# error-symbols NULL		1	3	17	
c	Rtoken_grp3		6	4	1		# AD NULL		1	3	19	
c	Rtoken_grp3		6	6	1		# parallel-parser NULL		1	3	23	
c	Rtoken_grp3		6	8	1		# parallel-thread-function NULL		1	3	24	
c	Rtoken_grp3		6	10	1		# terminals NULL		1	3	35	
c	Rtoken_grp3		6	12	1		# file-name NULL		1	3	37	

c Rtoken_grp3	6	13	1		# name-space NULL	1	3	38
c Rtoken_grp3	6	14	1		# sym-class NULL	1	3	39
c Rtoken_grp4	7	3	1		# user-declaration NULL	1	3	42
c Rtoken_grp4	7	6	1		# constructor NULL	1	3	45
c Rtoken_grp4	7	8	1		# op NULL	1	3	47
c Rtoken_grp4	7	9	1		# user-implementation NULL	1	3	49
c Rtoken_grp4	7	11	1		# user-imp-sym NULL	1	3	51
c Rtoken_grp4	7	14	1		# terminals-sufx NULL	1	3	54
c Rtoken_grp4	7	15	1		# lrk-sufx NULL	1	3	55
c Rtoken_grp5	8	1	1		# arbitrator-code NULL	1	3	22
c Rtoken_grp5	8	2	1		# NULL NULL	1	3	56
c Rtoken_grp5	8	4	1	+		1	62	62
c Rpass3	1	2	1	Relems	<i>eog</i>	1	63	64
c Relems	2	2	1	Relems	<i>Rtoken</i>	1	63	65
c Relems	2	1	1	Rtoken		1	71	71
c Rtoken	3	1	1	Rtoken_grp1		1	66	66
c Rtoken	3	2	1	Rtoken_grp2		1	67	67
c Rtoken	3	3	1	Rtoken_grp3		1	68	68
c Rtoken	3	4	1	Rtoken_grp4		1	69	69
c Rtoken	3	5	1	Rtoken_grp5		1	70	70

⇒ *eog*State: 2 state type: *r*

← rule	→ R# sr# Po	← subrule element	→ Brn Gto Red LA
t Rpass3	1 1 2		1 0 2 1

⇒ ||| *arbitration-code: AR_Rtoken_grp1*State: 3 state type: *s*

← rule	→ R# sr# Po	← subrule element	→ Brn Gto Red LA
t Rtoken_grp1	4 14 2	?	1 4 4
t Rtoken_grp1	4 9 2	esc-seq	1 5 5
t Rtoken_grp1	4 8 2	eol	1 6 6
t Rtoken_grp1	4 4 2	comment	1 7 7
t Rtoken_grp1	4 12 2	ws	1 8 8
t Rtoken_grp1	4 2 2	angled-string	1 9 9
t Rtoken_grp1	4 5 2	c-literal	1 10 10
t Rtoken_grp1	4 6 2	c-string	1 11 11
t Rtoken_grp1	4 13 2	unquoted-string	1 12 12
t Rtoken_grp1	4 10 2	identifier	1 13 13
t Rtoken_grp1	4 11 2	int-no	1 14 14
t Rtoken_grp3	6 1 2	# raw-characters	1 15 15
t Rtoken_grp3	6 2 2	# lr1-constant-symbols	1 16 16
t Rtoken_grp3	6 3 2	# error-symbols	1 17 17
t Rtoken_grp1	4 1 2	# ***	1 18 18
t Rtoken_grp3	6 4 2	# AD	1 19 19
t Rtoken_grp3	6 5 2	# AB	1 20 20
t Rtoken_grp3	6 7 2	# parallel-la-boundary	1 21 21
t Rtoken_grp5	8 1 2	# arbitrator-code	1 22 22
t Rtoken_grp3	6 6 2	# parallel-parser	1 23 23
t Rtoken_grp3	6 8 2	# parallel-thread-function	1 24 24
t Rtoken_grp3	6 9 2	# parallel-control-monitor	1 25 25
t Rtoken_grp2	5 4 2	# fsm	1 26 26
t Rtoken_grp2	5 5 2	# fsm-id	1 27 27
t Rtoken_grp2	5 6 2	# fsm-filename	1 28 28

t Rtoken_grp2	5	7	2	# fsm-namespace	1	29	29
t Rtoken_grp2	5	8	2	# fsm-class	1	30	30
t Rtoken_grp2	5	9	2	# fsm-version	1	31	31
t Rtoken_grp2	5	10	2	# fsm-date	1	32	32
t Rtoken_grp2	5	11	2	# fsm-debug	1	33	33
t Rtoken_grp2	5	12	2	# fsm-comments	1	34	34
t Rtoken_grp3	6	10	2	# terminals	1	35	35
t Rtoken_grp3	6	11	2	# T-enumeration	1	36	36
t Rtoken_grp3	6	12	2	# file-name	1	37	37
t Rtoken_grp3	6	13	2	# name-space	1	38	38
t Rtoken_grp3	6	14	2	# sym-class	1	39	39
t Rtoken_grp4	7	1	2	# rules	1	40	40
t Rtoken_grp4	7	2	2	# lhs	1	41	41
t Rtoken_grp4	7	3	2	# user-declaration	1	42	42
t Rtoken_grp4	7	4	2	# user-prefix-declaration	1	43	43
t Rtoken_grp4	7	5	2	# user-suffix-declaration	1	44	44
t Rtoken_grp4	7	6	2	# constructor	1	45	45
t Rtoken_grp4	7	7	2	# destructor	1	46	46
t Rtoken_grp4	7	8	2	# op	1	47	47
t Rtoken_grp5	8	3	2	# failed	1	48	48
t Rtoken_grp4	7	9	2	# user-implementation	1	49	49
t Rtoken_grp4	7	10	2	# user-imp-tbl	1	50	50
t Rtoken_grp4	7	11	2	# user-imp-sym	1	51	51
t Rtoken_grp4	7	12	2	# constant-defs	1	52	52
t Rtoken_grp4	7	13	2	# terminals-refs	1	53	53
t Rtoken_grp4	7	14	2	# terminals-sufx	1	54	54
t Rtoken_grp4	7	15	2	# lrk-sufx	1	55	55
t Rtoken_grp5	8	2	2	# NULL	1	56	56
t Rtoken_grp1	4	7	2	::	1	57	57
t Rtoken_grp2	5	1	2	bad eos	1	58	58
t Rtoken_grp2	5	3	2	bad esc	1	59	59
t Rtoken_grp2	5	2	2	comment-overrun	1	60	60
t Rtoken_grp1	4	3	2	bad char	1	61	61

⇒|?| State: 4 state type: *r*
 ← rule → R# sr# Po ← subrule element → Brn Gto Red LA
 t Rtoken_grp1 4 14 3 1 0 4 2

⇒*esc-seq* State: 5 state type: *r*
 ← rule → R# sr# Po ← subrule element → Brn Gto Red LA
 t Rtoken_grp1 4 9 3 1 0 5 2

⇒*eol* State: 6 state type: *r*
 ← rule → R# sr# Po ← subrule element → Brn Gto Red LA
 t Rtoken_grp1 4 8 3 1 0 6 2

⇒*comment* State: 7 state type: *r*
 ← rule → R# sr# Po ← subrule element → Brn Gto Red LA
 t Rtoken_grp1 4 4 3 1 0 7 2

⇒*ws* State: 8 state type: *r*
 ← rule → R# sr# Po ← subrule element → Brn Gto Red LA

t Rtoken_grp1	4	12	3			1	0	8	2
\Rightarrow <i>angled-string</i>					State: 9 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp1	4	2	3			1	0	9	2
\Rightarrow <i>c-literal</i>					State: 10 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp1	4	5	3			1	0	10	2
\Rightarrow <i>c-string</i>					State: 11 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp1	4	6	3			1	0	11	2
\Rightarrow <i>unquoted-string</i>					State: 12 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp1	4	13	3			1	0	12	2
\Rightarrow <i>identifier</i>					State: 13 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp1	4	10	3			1	0	13	2
\Rightarrow <i>int-no</i>					State: 14 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp1	4	11	3			1	0	14	2
\Rightarrow <i>#raw-characters</i>					State: 15 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp3	6	1	3			1	0	15	2
\Rightarrow <i>#lr1-constant-symbols</i>					State: 16 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp3	6	2	3			1	0	16	2
\Rightarrow <i>#error-symbols</i>					State: 17 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp3	6	3	3			1	0	17	2
\Rightarrow <i>#***</i>					State: 18 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp1	4	1	3			1	0	18	2
\Rightarrow <i>#AD</i>					State: 19 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp3	6	4	3			1	0	19	2
\Rightarrow <i>#AB</i>					State: 20 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp3	6	5	3			1	0	20	2
\Rightarrow <i>#parallel-la-boundary</i>					State: 21 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA

t Rtoken_grp3	6	7	3		1	0	21	2		
\Rightarrow #arbitrator-code				State: 22 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp5	8	1	3				1	0	22	2
\Rightarrow #parallel-parser				State: 23 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp3	6	6	3				1	0	23	2
\Rightarrow #parallel-thread-function				State: 24 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp3	6	8	3				1	0	24	2
\Rightarrow #parallel-control-monitor				State: 25 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp3	6	9	3				1	0	25	2
\Rightarrow #fsm				State: 26 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp2	5	4	3				1	0	26	2
\Rightarrow #fsm-id				State: 27 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp2	5	5	3				1	0	27	2
\Rightarrow #fsm-filename				State: 28 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp2	5	6	3				1	0	28	2
\Rightarrow #fsm-namespace				State: 29 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp2	5	7	3				1	0	29	2
\Rightarrow #fsm-class				State: 30 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp2	5	8	3				1	0	30	2
\Rightarrow #fsm-version				State: 31 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp2	5	9	3				1	0	31	2
\Rightarrow #fsm-date				State: 32 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp2	5	10	3				1	0	32	2
\Rightarrow #fsm-debug				State: 33 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp2	5	11	3				1	0	33	2
\Rightarrow #fsm-comments				State: 34 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA

t Rtoken_grp2	5	12	3			1	0	34	2
\Rightarrow <i>#terminals</i>					State: 35 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp3	6	10	3			1	0	35	2
\Rightarrow <i>#T-enumeration</i>					State: 36 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp3	6	11	3			1	0	36	2
\Rightarrow <i>#file-name</i>					State: 37 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp3	6	12	3			1	0	37	2
\Rightarrow <i>#name-space</i>					State: 38 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp3	6	13	3			1	0	38	2
\Rightarrow <i>#sym-class</i>					State: 39 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp3	6	14	3			1	0	39	2
\Rightarrow <i>#rules</i>					State: 40 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp4	7	1	3			1	0	40	2
\Rightarrow <i>#lhs</i>					State: 41 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp4	7	2	3			1	0	41	2
\Rightarrow <i>#user-declaration</i>					State: 42 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp4	7	3	3			1	0	42	2
\Rightarrow <i>#user-prefix-declaration</i>					State: 43 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp4	7	4	3			1	0	43	2
\Rightarrow <i>#user-suffix-declaration</i>					State: 44 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp4	7	5	3			1	0	44	2
\Rightarrow <i>#constructor</i>					State: 45 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp4	7	6	3			1	0	45	2
\Rightarrow <i>#destructor</i>					State: 46 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA
t Rtoken_grp4	7	7	3			1	0	46	2
\Rightarrow <i>#op</i>					State: 47 state type: <i>r</i>				
← rule	→ R#	sr#	Po	←	subrule element	→ Brn	Gto	Red	LA

t Rtoken_grp4	7	8	3		1	0	47	2		
\Rightarrow <i>#failed</i>				State: 48 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp5	8	3	3				1	0	48	2
\Rightarrow <i>#user-implementation</i>				State: 49 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp4	7	9	3				1	0	49	2
\Rightarrow <i>#user-imp-tbl</i>				State: 50 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp4	7	10	3				1	0	50	2
\Rightarrow <i>#user-imp-sym</i>				State: 51 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp4	7	11	3				1	0	51	2
\Rightarrow <i>#constant-defs</i>				State: 52 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp4	7	12	3				1	0	52	2
\Rightarrow <i>#terminals-refs</i>				State: 53 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp4	7	13	3				1	0	53	2
\Rightarrow <i>#terminals-suffix</i>				State: 54 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp4	7	14	3				1	0	54	2
\Rightarrow <i>#lrk-suffix</i>				State: 55 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp4	7	15	3				1	0	55	2
\Rightarrow <i>#NULL</i>				State: 56 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp5	8	2	3				1	0	56	2
\Rightarrow <i>::</i>				State: 57 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp1	4	7	3				1	0	57	2
\Rightarrow <i>badeos</i>				State: 58 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp2	5	1	3				1	0	58	2
\Rightarrow <i>badesc</i>				State: 59 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rtoken_grp2	5	3	3				1	0	59	2
\Rightarrow <i>comment-override</i>				State: 60 state type: <i>r</i>						
← rule	→ R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA

t Rtoken_grp2		5	2	3					1	0	60	2
\Rightarrow <i>badchar</i>												
← rule	→ R#	sr#	Po	←	State: 61 state type: <i>r</i>	subrule	element	→	Brn	Gto	Red	LA
t Rtoken_grp1		4	3	3					1	0	61	2
\Rightarrow <i> + </i>												
← rule	→ R#	sr#	Po	←	State: 62 state type: <i>r</i>	subrule	element	→	Brn	Gto	Red	LA
t Rtoken_grp5		8	4	2					1	0	62	2
\Rightarrow <i>Relems</i>												
← rule	→ R#	sr#	Po	←	State: 63 state type: <i>s</i>	subrule	element	→	Brn	Gto	Red	LA
t Rpass3		1	2	2	eog				1	64	64	
c Rtoken_grp1		4	1	1		***	NS_o2_code_end::TH_o2_code_end		63	3	18	
c Rtoken_grp1		4	3	1		bad char	NS_bad_char_set::TH_bad_char_set		63	3	61	
c Rtoken_grp1		4	5	1		c-literal	NS_c_literal::TH_c_literal		63	3	10	
c Rtoken_grp1		4	7	1		::	NS_dbl_colon::TH_dbl_colon		63	3	57	
c Rtoken_grp1		4	9	1		esc-seq	NS_esc_seq::TH_esc_seq		63	3	5	
c Rtoken_grp1		4	11	1		int-no	NS_int_no::TH_int_no		63	3	14	
c Rtoken_grp1		4	12	1		ws	NS_ws::TH_ws		63	3	8	
c Rtoken_grp1		4	13	1		unquoted-string	NS_unq_str::TH_unq_str		63	3	12	
c Rtoken_grp2		5	2	1		comment-overflow	NULL		63	3	60	
c Rtoken_grp2		5	7	1		# fsm-namespace	NULL		63	3	29	
c Rtoken_grp2		5	9	1		# fsm-version	NULL		63	3	31	
c Rtoken_grp2		5	10	1		# fsm-date	NULL		63	3	32	
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c Rtoken_grp3		6	11	1		# T-enumeration	NULL		63	3	36	
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c Rtoken_grp1		4	2	1		angled-string	NS_angled_string::TH_angled_string		63	3	9	
c Rtoken_grp1		4	4	1		comment	NS_c_comments::TH_c_comments		63	3	7	
c Rtoken_grp1		4	6	1		c-string	NS_c_string::TH_c_string		63	3	11	
c Rtoken_grp1		4	8	1		eol	NS_eol::TH_eol		63	3	6	
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c Rtoken_grp2		5	8	1		# fsm-class	NULL		63	3	30	

c Rtoken_grp2	5	11	1		# fsm-debug NULL	63	3	33
c Rtoken_grp3	6	1	1		# raw-characters NULL	63	3	15
c Rtoken_grp3	6	3	1		# error-symbols NULL	63	3	17
c Rtoken_grp3	6	4	1		# AD NULL	63	3	19
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c Rtoken_grp4	7	11	1		# user-imp-sym NULL	63	3	51
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⇒ *eog* State: 64 state type: *r*
 ← rule → R# sr# Po ← subrule element → Brn Gto Red LA
 t Rpass3 1 2 3 1 0 64 1

⇒ *Rtoken* State: 65 state type: *r*
 ← rule → R# sr# Po ← subrule element → Brn Gto Red LA
 t Relems 2 2 3 1 0 65 2

⇒ *Rtoken_grp1* State: 66 state type: *r*
 ← rule → R# sr# Po ← subrule element → Brn Gto Red LA
 t Rtoken 3 1 2 63 0 66 2

⇒ *Rtoken_grp2* State: 67 state type: *r*
 ← rule → R# sr# Po ← subrule element → Brn Gto Red LA
 t Rtoken 3 2 2 63 0 67 2

⇒ *Rtoken_grp3* State: 68 state type: *r*
 ← rule → R# sr# Po ← subrule element → Brn Gto Red LA
 t Rtoken 3 3 2 63 0 68 2

⇒ *Rtoken_grp4* State: 69 state type: *r*
 ← rule → R# sr# Po ← subrule element → Brn Gto Red LA
 t Rtoken 3 4 2 63 0 69 2

⇒ *Rtoken_grp5* State: 70 state type: *r*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rtoken		3	5	2				63	0	70	2
⇒ <i>Rtoken</i>												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Relems		2	1	2				1	0	71	2

State: 71 state type: *r*

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test_components Grammar

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Version: 1.0

Debug: true

Grammar Comments:

Type: Monolithic

Tester: lexical stage constructing tokens for syntax parser.

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