1. Copyright.

2. *linker_id* **thread.**
Recognize Linker's identifiers.

3. Fsm Clinker_id class.

4. Clinker_id constructor directive.

⟨ Clinker_id constructor directive 4 ⟩ ≡
data_.erase( );

5. Clinker_id op directive.

⟨ Clinker_id op directive 5 ⟩ ≡
data_.erase( );

6. Clinker_id user-declaration directive.

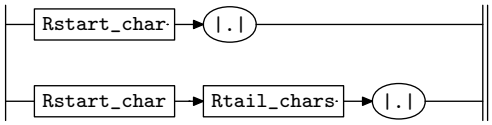
⟨ Clinker_id user-declaration directive 6 ⟩ ≡
public: *std* :: *string data_*;

7. Clinker_id user-prefix-declaration directive.

⟨ Clinker_id user-prefix-declaration directive 7 ⟩ ≡
#include `"yacco2_stbl.h"`

8. *Rlinker_id* **rule.**

`Rlinker_id`



9. Rlinker_id op directive.

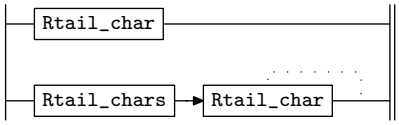
```
⟨ Rlinker_id op directive 9 ⟩ ≡
  Clinker_id * fsm = ( Clinker_id * ) rule_info__.parser__→fsm_tbl__;
  T_sym_tbl_report_card report_card;
  kw_in_stbl * kw_in;
  using namespace yacco2_stbl;
  find_sym_in_stbl(report_card, *fsm→data_.c_str( )); if (report_card.action_ ≡ T_sym_tbl_report_card::fnd)
      { if (report_card.tbl_entry_→type_ ≡ table_entry::keyword) { kw_in = ( kw_in_stbl * )
      report_card.tbl_entry_→symbol_;
  CAbs_lr1_sym * kw = kw_in→keyword_in_stbl( );
  CAbs_lr1_sym * nkw;
  switch (kw→enumerated_id__) {
  case T_Enum::T_T_transitive_:
    {
      nkw = new T_transitive;
      break;
    }
  case T_Enum::T_T_grammar_name_:
    {
      nkw = new T_grammar_name;
      break;
    }
  case T_Enum::T_T_error_symbols_:
    {
      nkw = new T_error_symbols;
      break;
    }
  case T_Enum::T_T_name_space_:
    {
      nkw = new T_name_space;
      break;
    }
  case T_Enum::T_T_thread_name_:
    {
      nkw = new T_thread_name;
      break;
    }
  case T_Enum::T_T_monolithic_:
    {
      nkw = new T_monolithic;
      break;
    }
  case T_Enum::T_T_file_name_:
    {
      nkw = new T_file_name;
      break;
    }
  case T_Enum::T_T_no_of_T_:
    {
      nkw = new T_no_of_T;
      break;
```

```
    }
  case T_Enum :: T_T_list_of_native_first_set_terminals_:
    {
      nkw = new T_list_of_native_first_set_terminals;
      break;
    }
  case T_Enum :: T_T_end_list_of_native_first_set_terminals_:
    {
      nkw = new T_end_list_of_native_first_set_terminals;
      break;
    }
  case T_Enum :: T_T_list_of_transitive_threads_:
    {
      nkw = new T_list_of_transitive_threads;
      break;
    }
  case T_Enum :: T_T_end_list_of_transitive_threads_:
    {
      nkw = new T_end_list_of_transitive_threads;
      break;
    }
  case T_Enum :: T_T_list_of_used_threads_:
    {
      nkw = new T_list_of_used_threads;
      break;
    }
  case T_Enum :: T_T_end_list_of_used_threads_:
    {
      nkw = new T_end_list_of_used_threads;
      break;
    }
  case T_Enum :: T_T_T_alphabet_:
    {
      nkw = new T_T_alphabet;
      break;
    }
  case T_Enum :: T_T_end_T_alphabet_:
    {
      nkw = new T_end_T_alphabet;
      break;
    }
  case T_Enum :: T_T_file_of_T_alphabet_:
    {
      nkw = new T_file_of_T_alphabet;
      break;
    }
  case T_Enum :: T_T_emitfile_:
    {
      nkw = new T_emitfile;
      break;
    }
  case T_Enum :: T_T_preamble_:
```

```
    {
      nkw = new T_preamble;
      break;
    }
  case T_Enum :: T_T_fsm_comments_:
    {
      nkw = new T_fsm_comments;
      break;
    }
  case T_Enum :: T_T_end_preamble_:
    {
      nkw = new T_end_preamble;
      break;
    }
  }
  nkw→set_rc(∗rule_info__.parser__→start_token__, __FILE__, __LINE__);
  RSVP(nkw);
  return; }
  else {
    RSVP(report_card.tbl_entry_→symbol_);
    return;
  }
  } T_identifier ∗ id = new T_identifier(fsm→data_.c_str( ));
  id→set_rc(∗rule_info__.parser__→start_token__, __FILE__, __LINE__);
  RSVP(id);
```

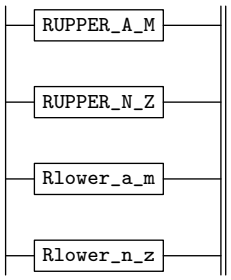
10. *Rtail_chars* **rule.**

Rtail_chars

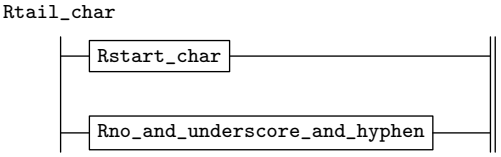


11. *Rstart_char* **rule.**

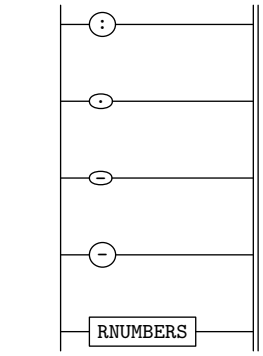
Rstart_char



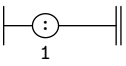
12. *Rtail_char* **rule.**



13. *Rno_and_underscore_and_hyphen* **rule.**



14. *Rno_and_underscore_and_hyphen*'**s subrule 1.**

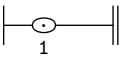


Extend to pull in the threads.

⟨ Rno_and_underscore_and_hyphen subrule 1 op directive 14 ⟩ ≡

```
Clinker_id * fsm = ( Clinker_id * ) rule_info__.parser__->fsm_tbl__;
fsm->data_ += sf->p1__->id__;
```

15. *Rno_and_underscore_and_hyphen*'**s subrule 2.**

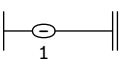


Extend to pull in non-quoted file names with extension. Normally this is generated by the frontend Yac_2o_2 as a quoted string but this extension allows the possible tampering by the compiler writer to play with things when things aren't going well by the front-end. It's a minor relief to help out the compiler writer.

⟨ Rno_and_underscore_and_hyphen subrule 2 op directive 15 ⟩ ≡

```
Clinker_id * fsm = ( Clinker_id * ) rule_info__.parser__->fsm_tbl__;
fsm->data_ += sf->p1__->id__;
```

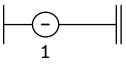
16. *Rno_and_underscore_and_hyphen*'**s subrule 3.**



⟨ Rno_and_underscore_and_hyphen subrule 3 op directive 16 ⟩ ≡

```
Clinker_id * fsm = ( Clinker_id * ) rule_info__.parser__->fsm_tbl__;
fsm->data_ += sf->p1__->id__;
```

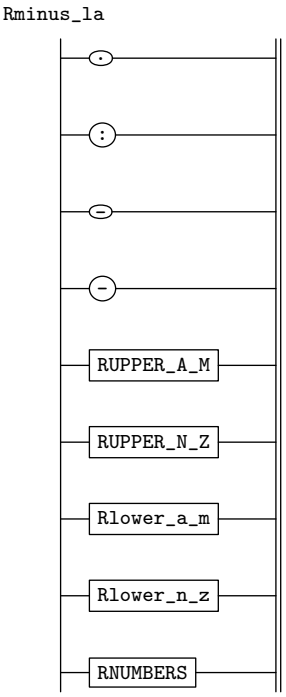
17. *Rno_and_underscore_and_hyphen*'**s subrule 4.**



⟨ Rno_and_underscore_and_hyphen subrule 4 op directive 17 ⟩ ≡

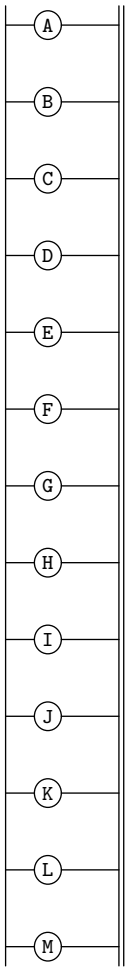
```
Clinker_id * fsm = ( Clinker_id * ) rule_info__.parser__→fsm_tbl__;
fsm→data_ += sf→p1__→id__;
```

18. *Rminus_la* **rule.**



19. RUPPER_A_M rule.

RUPPER_A_M



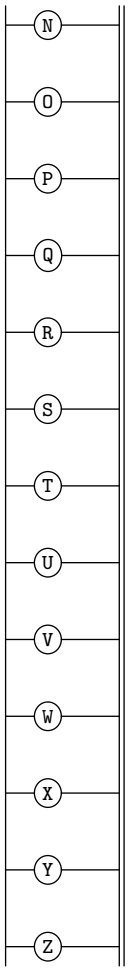
20. RUPPER_A_M op directive.

⟨ RUPPER_A_M op directive 20 ⟩ ≡

```
Clinker_id * fsm = ( Clinker_id * ) rule_info__.parser__→fsm_tbl__;
size_t pos = rule_info__.parser__→parse_stack__.top_sub__ − 1;
CAbs_lr1_sym * sym = rule_info__.parser__→get_spec_stack_token(pos);
fsm→data_ += sym→id__;
```

21. `RUPPER_N_Z` **rule.**

RUPPER_N_Z

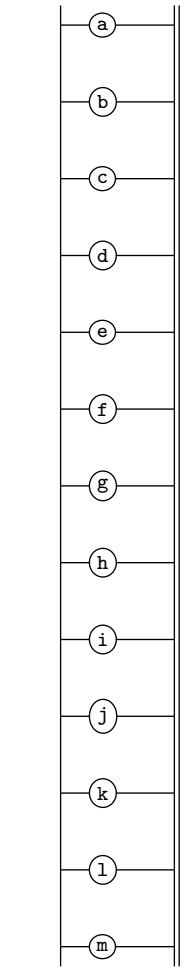


22. RUPPER_N_Z op directive.

⟨ RUPPER_N_Z op directive 22 ⟩ ≡

```
Clinker_id * fsm = ( Clinker_id * ) rule_info__.parser__→fsm_tbl__;
size_t pos = rule_info__.parser__→parse_stack__.top_sub__ − 1;
CAbs_lr1_sym * sym = rule_info__.parser__→get_spec_stack_token(pos);
fsm→data_ += sym→id__;
```

23. *Rlower_a_m* **rule.**



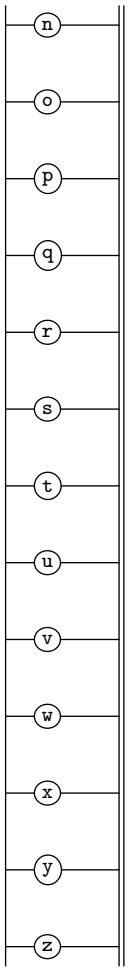
24. Rlower_a_m op directive.

⟨ Rlower_a_m op directive 24 ⟩ ≡

```
Clinker_id * fsm = ( Clinker_id * ) rule_info__.parser__→fsm_tbl__;
size_t pos = rule_info__.parser__→parse_stack__.top_sub__ − 1;
CAbs_lr1_sym * sym = rule_info__.parser__→get_spec_stack_token(pos);
fsm→data_ += sym→id__;
```

25. *Rlower_n_z* **rule.**

Rlower_n_z



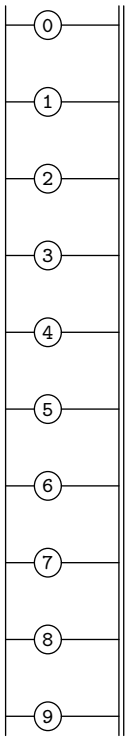
26. Rlower_n_z op directive.

⟨ Rlower_n_z op directive 26 ⟩ ≡

```
Clinker_id * fsm = ( Clinker_id * ) rule_info__.parser__->fsm_tbl__;
size_t pos = rule_info__.parser__->parse_stack__.top_sub__ - 1;
CAbs_lr1_sym * sym = rule_info__.parser__->get_spec_stack_token(pos);
fsm->data_ += sym->id__;
```

27. RNUMBERS **rule.**

RNUMBERS



28. RNUMBERS op directive.

⟨ RNUMBERS op directive 28 ⟩ ≡

```
Clinker_id * fsm = ( Clinker_id * ) rule_info__.parser__→fsm_tbl__;
size_t pos = rule_info__.parser__→parse_stack__.top_sub__ − 1;
CAbs_lr1_sym * sym = rule_info__.parser__→get_spec_stack_token(pos);
fsm→data_ += sym→id__;
```

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

```
/*
 File: linker_id.fsc
 Date and Time: Fri Jan  2 15:33:41 2015
*/
transitive   n
grammar-name "linker_id"
name-space   "NS_linker_id"
thread-name  "TH_linker_id"
monolithic   n
file-name    "linker_id.fsc"
no-of-T      569
list-of-native-first-set-terminals 52
   raw_A
   raw_B
   raw_C
   raw_D
   raw_E
   raw_F
   raw_G
   raw_H
   raw_I
   raw_J
   raw_K
   raw_L
   raw_M
   raw_N
   raw_O
   raw_P
   raw_Q
   raw_R
   raw_S
   raw_T
   raw_U
   raw_V
   raw_W
   raw_X
   raw_Y
   raw_Z
   raw_a
   raw_b
   raw_c
   raw_d
   raw_e
   raw_f
   raw_g
   raw_h
   raw_i
   raw_j
   raw_k
   raw_l
```

```
    raw_m
    raw_n
    raw_o
    raw_p
    raw_q
    raw_r
    raw_s
    raw_t
    raw_u
    raw_v
    raw_w
    raw_x
    raw_y
    raw_z
  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
  "\\olinker identifiers recognizer: uses symbol table."
```

30. Lr1 State Network.

⇒ State: 1 state type: ^{s}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
c	RUPPER_A_M		7	1	1	A		1	2	2	
c	RUPPER_A_M		7	2	1	B		1	3	3	
c	RUPPER_A_M		7	3	1	C		1	4	4	
c	RUPPER_A_M		7	4	1	D		1	5	5	
c	RUPPER_A_M		7	5	1	E		1	6	6	
c	RUPPER_A_M		7	6	1	F		1	7	7	
c	RUPPER_A_M		7	7	1	G		1	8	8	
c	RUPPER_A_M		7	8	1	H		1	9	9	
c	RUPPER_A_M		7	9	1	I		1	10	10	
c	RUPPER_A_M		7	10	1	J		1	11	11	
c	RUPPER_A_M		7	11	1	K		1	12	12	
c	RUPPER_A_M		7	12	1	L		1	13	13	
c	RUPPER_A_M		7	13	1	M		1	14	14	
c	RUPPER_N_Z		8	1	1	N		1	15	15	
c	RUPPER_N_Z		8	2	1	O		1	16	16	
c	RUPPER_N_Z		8	3	1	P		1	17	17	
c	RUPPER_N_Z		8	4	1	Q		1	18	18	
c	RUPPER_N_Z		8	5	1	R		1	19	19	
c	RUPPER_N_Z		8	6	1	S		1	20	20	
c	RUPPER_N_Z		8	7	1	T		1	21	21	
c	RUPPER_N_Z		8	8	1	U		1	22	22	
c	RUPPER_N_Z		8	9	1	V		1	23	23	
c	RUPPER_N_Z		8	10	1	W		1	24	24	
c	RUPPER_N_Z		8	11	1	X		1	25	25	
c	RUPPER_N_Z		8	12	1	Y		1	26	26	
c	RUPPER_N_Z		8	13	1	Z		1	27	27	
c	Rlower_a_m		9	1	1	a		1	28	28	
c	Rlower_a_m		9	2	1	b		1	29	29	
c	Rlower_a_m		9	3	1	c		1	30	30	
c	Rlower_a_m		9	4	1	d		1	31	31	
c	Rlower_a_m		9	5	1	e		1	32	32	
c	Rlower_a_m		9	6	1	f		1	33	33	
c	Rlower_a_m		9	7	1	g		1	34	34	
c	Rlower_a_m		9	8	1	h		1	35	35	
c	Rlower_a_m		9	9	1	i		1	36	36	
c	Rlower_a_m		9	10	1	j		1	37	37	
c	Rlower_a_m		9	11	1	k		1	38	38	
c	Rlower_a_m		9	12	1	l		1	39	39	
c	Rlower_a_m		9	13	1	m		1	40	40	
c	Rlower_n_z		10	1	1	n		1	41	41	
c	Rlower_n_z		10	2	1	o		1	42	42	
c	Rlower_n_z		10	3	1	p		1	43	43	
c	Rlower_n_z		10	4	1	q		1	44	44	
c	Rlower_n_z		10	5	1	r		1	45	45	
c	Rlower_n_z		10	6	1	s		1	46	46	
c	Rlower_n_z		10	7	1	t		1	47	47	
c	Rlower_n_z		10	8	1	u		1	48	48	
c	Rlower_n_z		10	9	1	v		1	49	49	

c	Rlower_n_z	10	10	1	w	1	50	50	
c	Rlower_n_z	10	11	1	x	1	51	51	
c	Rlower_n_z	10	12	1	y	1	52	52	
c	Rlower_n_z	10	13	1	z	1	53	53	
c	Rlinker_id	1	1	1	Rstart_char | . |	1	54	55	
c	Rlinker_id	1	2	1	Rstart_char *Rtail_chars*	1	54	71	
c	Rstart_char	3	1	1	RUPPER_A_M	1	75	75	
c	Rstart_char	3	2	1	RUPPER_N_Z	1	76	76	
c	Rstart_char	3	3	1	Rlower_a_m	1	77	77	
c	Rstart_char	3	4	1	Rlower_n_z	1	78	78	

$\Rightarrow^{A}$ State: 2 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	RUPPER_A_M		7	1	2			1	0	2	1

$\Rightarrow^{B}$ State: 3 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	RUPPER_A_M		7	2	2			1	0	3	1

$\Rightarrow^{C}$ State: 4 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	RUPPER_A_M		7	3	2			1	0	4	1

$\Rightarrow^{D}$ State: 5 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	RUPPER_A_M		7	4	2			1	0	5	1

$\Rightarrow^{E}$ State: 6 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	RUPPER_A_M		7	5	2			1	0	6	1

$\Rightarrow^{F}$ State: 7 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	RUPPER_A_M		7	6	2			1	0	7	1

$\Rightarrow^{G}$ State: 8 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	RUPPER_A_M		7	7	2			1	0	8	1

$\Rightarrow^{H}$ State: 9 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	RUPPER_A_M		7	8	2			1	0	9	1

$\Rightarrow^{I}$ State: 10 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	RUPPER_A_M		7	9	2			1	0	10	1

$\Rightarrow^{J}$ State: 11 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	RUPPER_A_M		7	10	2			1	0	11	1

$\Rightarrow^{K}$ State: 12 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_A_M		7	11	2				1	0	12	1

$\Rightarrow^{L}$ State: 13 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_A_M		7	12	2				1	0	13	1

$\Rightarrow^{M}$ State: 14 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_A_M		7	13	2				1	0	14	1

$\Rightarrow^{N}$ State: 15 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_N_Z		8	1	2				1	0	15	1

$\Rightarrow^{O}$ State: 16 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_N_Z		8	2	2				1	0	16	1

$\Rightarrow^{P}$ State: 17 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_N_Z		8	3	2				1	0	17	1

$\Rightarrow^{Q}$ State: 18 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_N_Z		8	4	2				1	0	18	1

$\Rightarrow^{R}$ State: 19 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_N_Z		8	5	2				1	0	19	1

$\Rightarrow^{S}$ State: 20 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_N_Z		8	6	2				1	0	20	1

$\Rightarrow^{T}$ State: 21 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_N_Z		8	7	2				1	0	21	1

$\Rightarrow^{U}$ State: 22 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_N_Z		8	8	2				1	0	22	1

$\Rightarrow^{V}$ State: 23 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_N_Z		8	9	2				1	0	23	1

$\Rightarrow^{W}$ State: 24 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_N_Z		8	10	2				1	0	24	1

$\Rightarrow^{X}$ State: 25 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_N_Z		8	11	2				1	0	25	1

⇒^{Y} State: 26 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_N_Z		8	12	2				1	0	26	1

⇒^{Z} State: 27 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	RUPPER_N_Z		8	13	2				1	0	27	1

⇒^{a} State: 28 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_a_m		9	1	2				1	0	28	1

⇒^{b} State: 29 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_a_m		9	2	2				1	0	29	1

⇒^{c} State: 30 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_a_m		9	3	2				1	0	30	1

⇒^{d} State: 31 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_a_m		9	4	2				1	0	31	1

⇒^{e} State: 32 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_a_m		9	5	2				1	0	32	1

⇒^{f} State: 33 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_a_m		9	6	2				1	0	33	1

⇒^{g} State: 34 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_a_m		9	7	2				1	0	34	1

⇒^{h} State: 35 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_a_m		9	8	2				1	0	35	1

⇒^{i} State: 36 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_a_m		9	9	2				1	0	36	1

⇒^{j} State: 37 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_a_m		9	10	2				1	0	37	1

⇒^{k} State: 38 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_a_m		9	11	2				1	0	38	1

$\Rightarrow^{l}$ State: 39 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_a_m		9	12	2				1	0	39	1

$\Rightarrow^{m}$ State: 40 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_a_m		9	13	2				1	0	40	1

$\Rightarrow^{n}$ State: 41 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_n_z		10	1	2				1	0	41	1

$\Rightarrow^{o}$ State: 42 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_n_z		10	2	2				1	0	42	1

$\Rightarrow^{p}$ State: 43 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_n_z		10	3	2				1	0	43	1

$\Rightarrow^{q}$ State: 44 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_n_z		10	4	2				1	0	44	1

$\Rightarrow^{r}$ State: 45 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_n_z		10	5	2				1	0	45	1

$\Rightarrow^{s}$ State: 46 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_n_z		10	6	2				1	0	46	1

$\Rightarrow^{t}$ State: 47 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_n_z		10	7	2				1	0	47	1

$\Rightarrow^{u}$ State: 48 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_n_z		10	8	2				1	0	48	1

$\Rightarrow^{v}$ State: 49 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_n_z		10	9	2				1	0	49	1

$\Rightarrow^{w}$ State: 50 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_n_z		10	10	2				1	0	50	1

$\Rightarrow^{x}$ State: 51 state type: ^{r}

	←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_n_z			10	11	2				1	0	51	1

$\Rightarrow^{y}$ State: 52 state type: ^{r}

	←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_n_z			10	12	2				1	0	52	1

$\Rightarrow^{z}$ State: 53 state type: ^{r}

	←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlower_n_z			10	13	2				1	0	53	1

$\Rightarrow^{Rstart\_char}$ State: 54 state type: ^{s}

	←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlinker_id			1	1	2	|.|			1	55	55	
c	Rno_and_underscore_and_hyphen			5	4	1	-			54	56	56	
c	Rno_and_underscore_and_hyphen			5	2	1	.			54	57	57	
c	RNUMBERS			11	1	1	0			54	58	58	
c	RNUMBERS			11	2	1	1			54	59	59	
c	RNUMBERS			11	3	1	2			54	60	60	
c	RNUMBERS			11	4	1	3			54	61	61	
c	RNUMBERS			11	5	1	4			54	62	62	
c	RNUMBERS			11	6	1	5			54	63	63	
c	RNUMBERS			11	7	1	6			54	64	64	
c	RNUMBERS			11	8	1	7			54	65	65	
c	RNUMBERS			11	9	1	8			54	66	66	
c	RNUMBERS			11	10	1	9			54	67	67	
c	Rno_and_underscore_and_hyphen			5	1	1	:			54	68	68	
c	RUPPER_A_M			7	1	1	A			54	2	2	
c	RUPPER_A_M			7	2	1	B			54	3	3	
c	RUPPER_A_M			7	3	1	C			54	4	4	
c	RUPPER_A_M			7	4	1	D			54	5	5	
c	RUPPER_A_M			7	5	1	E			54	6	6	
c	RUPPER_A_M			7	6	1	F			54	7	7	
c	RUPPER_A_M			7	7	1	G			54	8	8	
c	RUPPER_A_M			7	8	1	H			54	9	9	
c	RUPPER_A_M			7	9	1	I			54	10	10	
c	RUPPER_A_M			7	10	1	J			54	11	11	
c	RUPPER_A_M			7	11	1	K			54	12	12	
c	RUPPER_A_M			7	12	1	L			54	13	13	
c	RUPPER_A_M			7	13	1	M			54	14	14	
c	RUPPER_N_Z			8	1	1	N			54	15	15	
c	RUPPER_N_Z			8	2	1	O			54	16	16	
c	RUPPER_N_Z			8	3	1	P			54	17	17	
c	RUPPER_N_Z			8	4	1	Q			54	18	18	
c	RUPPER_N_Z			8	5	1	R			54	19	19	
c	RUPPER_N_Z			8	6	1	S			54	20	20	
c	RUPPER_N_Z			8	7	1	T			54	21	21	
c	RUPPER_N_Z			8	8	1	U			54	22	22	
c	RUPPER_N_Z			8	9	1	V			54	23	23	
c	RUPPER_N_Z			8	10	1	W			54	24	24	
c	RUPPER_N_Z			8	11	1	X			54	25	25	
c	RUPPER_N_Z			8	12	1	Y			54	26	26	

c	RUPPER_N_Z	8	13	1	Z	54	27	27
c	Rno_and_underscore_and_hyphen	5	3	1	_	54	69	69
c	Rlower_a_m	9	1	1	a	54	28	28
c	Rlower_a_m	9	2	1	b	54	29	29
c	Rlower_a_m	9	3	1	c	54	30	30
c	Rlower_a_m	9	4	1	d	54	31	31
c	Rlower_a_m	9	5	1	e	54	32	32
c	Rlower_a_m	9	6	1	f	54	33	33
c	Rlower_a_m	9	7	1	g	54	34	34
c	Rlower_a_m	9	8	1	h	54	35	35
c	Rlower_a_m	9	9	1	i	54	36	36
c	Rlower_a_m	9	10	1	j	54	37	37
c	Rlower_a_m	9	11	1	k	54	38	38
c	Rlower_a_m	9	12	1	l	54	39	39
c	Rlower_a_m	9	13	1	m	54	40	40
c	Rlower_n_z	10	1	1	n	54	41	41
c	Rlower_n_z	10	2	1	o	54	42	42
c	Rlower_n_z	10	3	1	p	54	43	43
c	Rlower_n_z	10	4	1	q	54	44	44
c	Rlower_n_z	10	5	1	r	54	45	45
c	Rlower_n_z	10	6	1	s	54	46	46
c	Rlower_n_z	10	7	1	t	54	47	47
c	Rlower_n_z	10	8	1	u	54	48	48
c	Rlower_n_z	10	9	1	v	54	49	49
c	Rlower_n_z	10	10	1	w	54	50	50
c	Rlower_n_z	10	11	1	x	54	51	51
c	Rlower_n_z	10	12	1	y	54	52	52
c	Rlower_n_z	10	13	1	z	54	53	53
c	Rtail_chars	2	2	1	Rtail_chars *Rtail_char*	54	70	73
t	Rlinker_id	1	2	2	Rtail_chars `|.|`	1	70	71
c	Rtail_char	4	1	1	Rstart_char	54	72	72
c	Rtail_chars	2	1	1	Rtail_char	54	80	80
c	Rtail_char	4	2	1	Rno_and_underscore_and_hyphen	54	74	74
c	Rstart_char	3	1	1	RUPPER_A_M	54	75	75
c	Rstart_char	3	2	1	RUPPER_N_Z	54	76	76
c	Rstart_char	3	3	1	Rlower_a_m	54	77	77
c	Rstart_char	3	4	1	Rlower_n_z	54	78	78
c	Rno_and_underscore_and_hyphen	5	5	1	RNUMBERS	54	79	79

⇒`|.|`

State: 55 state type: ^{r}

	←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rlinker_id			1	1	3				1	0	55	2

⇒$^{-}$

State: 56 state type: ^{r}

	←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rno_and_underscore_and_hyphen			5	4	2				54	0	56	1

⇒$^{\cdot}$

State: 57 state type: ^{r}

	←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rno_and_underscore_and_hyphen			5	2	2				54	0	57	1

⇒^{0}

State: 58 state type: ^{r}

	←	rule	→	R#	sr#	Po	←
t	RNUMBERS			11	1	2	

	←	subrule element	→	Brn	Gto	Red	LA
				54	0	58	1

⇒[1]

	←	rule	→	R#	sr#	Po	←
t	RNUMBERS			11	2	2	

State: 59 state type: ^{r}

	←	subrule element	→	Brn	Gto	Red	LA
				54	0	59	1

⇒[2]

	←	rule	→	R#	sr#	Po	←
t	RNUMBERS			11	3	2	

State: 60 state type: ^{r}

	←	subrule element	→	Brn	Gto	Red	LA
				54	0	60	1

⇒[3]

	←	rule	→	R#	sr#	Po	←
t	RNUMBERS			11	4	2	

State: 61 state type: ^{r}

	←	subrule element	→	Brn	Gto	Red	LA
				54	0	61	1

⇒[4]

	←	rule	→	R#	sr#	Po	←
t	RNUMBERS			11	5	2	

State: 62 state type: ^{r}

	←	subrule element	→	Brn	Gto	Red	LA
				54	0	62	1

⇒[5]

	←	rule	→	R#	sr#	Po	←
t	RNUMBERS			11	6	2	

State: 63 state type: ^{r}

	←	subrule element	→	Brn	Gto	Red	LA
				54	0	63	1

⇒[6]

	←	rule	→	R#	sr#	Po	←
t	RNUMBERS			11	7	2	

State: 64 state type: ^{r}

	←	subrule element	→	Brn	Gto	Red	LA
				54	0	64	1

⇒[7]

	←	rule	→	R#	sr#	Po	←
t	RNUMBERS			11	8	2	

State: 65 state type: ^{r}

	←	subrule element	→	Brn	Gto	Red	LA
				54	0	65	1

⇒[8]

	←	rule	→	R#	sr#	Po	←
t	RNUMBERS			11	9	2	

State: 66 state type: ^{r}

	←	subrule element	→	Brn	Gto	Red	LA
				54	0	66	1

⇒[9]

	←	rule	→	R#	sr#	Po	←
t	RNUMBERS			11	10	2	

State: 67 state type: ^{r}

	←	subrule element	→	Brn	Gto	Red	LA
				54	0	67	1

⇒[:]

	←	rule	→	R#	sr#	Po	←
t	Rno_and_underscore_and_hyphen			5	1	2	

State: 68 state type: ^{r}

	←	subrule element	→	Brn	Gto	Red	LA
				54	0	68	1

⇒[-]

	←	rule	→	R#	sr#	Po	←
t	Rno_and_underscore_and_hyphen			5	3	2	

State: 69 state type: ^{r}

	←	subrule element	→	Brn	Gto	Red	LA
				54	0	69	1

⇒[*Rtail_chars*]

	←	rule	→	R#	sr#	Po	←
t	Rlinker_id			1	2	3	|.|
c	Rno_and_underscore_and_hyphen			5	4	1	-
c	Rno_and_underscore_and_hyphen			5	2	1	.

State: 70 state type: ^{s}

	←	subrule element	→	Brn	Gto	Red	LA
				1	71	71	
				70	56	56	
				70	57	57	

c	RNUMBERS	11	1	1	0	70	58	58
c	RNUMBERS	11	2	1	1	70	59	59
c	RNUMBERS	11	3	1	2	70	60	60
c	RNUMBERS	11	4	1	3	70	61	61
c	RNUMBERS	11	5	1	4	70	62	62
c	RNUMBERS	11	6	1	5	70	63	63
c	RNUMBERS	11	7	1	6	70	64	64
c	RNUMBERS	11	8	1	7	70	65	65
c	RNUMBERS	11	9	1	8	70	66	66
c	RNUMBERS	11	10	1	9	70	67	67
c	Rno_and_underscore_and_hyphen	5	1	1	:	70	68	68
c	RUPPER_A_M	7	1	1	A	70	2	2
c	RUPPER_A_M	7	2	1	B	70	3	3
c	RUPPER_A_M	7	3	1	C	70	4	4
c	RUPPER_A_M	7	4	1	D	70	5	5
c	RUPPER_A_M	7	5	1	E	70	6	6
c	RUPPER_A_M	7	6	1	F	70	7	7
c	RUPPER_A_M	7	7	1	G	70	8	8
c	RUPPER_A_M	7	8	1	H	70	9	9
c	RUPPER_A_M	7	9	1	I	70	10	10
c	RUPPER_A_M	7	10	1	J	70	11	11
c	RUPPER_A_M	7	11	1	K	70	12	12
c	RUPPER_A_M	7	12	1	L	70	13	13
c	RUPPER_A_M	7	13	1	M	70	14	14
c	RUPPER_N_Z	8	1	1	N	70	15	15
c	RUPPER_N_Z	8	2	1	O	70	16	16
c	RUPPER_N_Z	8	3	1	P	70	17	17
c	RUPPER_N_Z	8	4	1	Q	70	18	18
c	RUPPER_N_Z	8	5	1	R	70	19	19
c	RUPPER_N_Z	8	6	1	S	70	20	20
c	RUPPER_N_Z	8	7	1	T	70	21	21
c	RUPPER_N_Z	8	8	1	U	70	22	22
c	RUPPER_N_Z	8	9	1	V	70	23	23
c	RUPPER_N_Z	8	10	1	W	70	24	24
c	RUPPER_N_Z	8	11	1	X	70	25	25
c	RUPPER_N_Z	8	12	1	Y	70	26	26
c	RUPPER_N_Z	8	13	1	Z	70	27	27
c	Rno_and_underscore_and_hyphen	5	3	1	_	70	69	69
c	Rlower_a_m	9	1	1	a	70	28	28
c	Rlower_a_m	9	2	1	b	70	29	29
c	Rlower_a_m	9	3	1	c	70	30	30
c	Rlower_a_m	9	4	1	d	70	31	31
c	Rlower_a_m	9	5	1	e	70	32	32
c	Rlower_a_m	9	6	1	f	70	33	33
c	Rlower_a_m	9	7	1	g	70	34	34
c	Rlower_a_m	9	8	1	h	70	35	35
c	Rlower_a_m	9	9	1	i	70	36	36
c	Rlower_a_m	9	10	1	j	70	37	37
c	Rlower_a_m	9	11	1	k	70	38	38
c	Rlower_a_m	9	12	1	l	70	39	39
c	Rlower_a_m	9	13	1	m	70	40	40
c	Rlower_n_z	10	1	1	n	70	41	41

c	Rlower_n_z	10	2	1	o	70	42	42
c	Rlower_n_z	10	3	1	p	70	43	43
c	Rlower_n_z	10	4	1	q	70	44	44
c	Rlower_n_z	10	5	1	r	70	45	45
c	Rlower_n_z	10	6	1	s	70	46	46
c	Rlower_n_z	10	7	1	t	70	47	47
c	Rlower_n_z	10	8	1	u	70	48	48
c	Rlower_n_z	10	9	1	v	70	49	49
c	Rlower_n_z	10	10	1	w	70	50	50
c	Rlower_n_z	10	11	1	x	70	51	51
c	Rlower_n_z	10	12	1	y	70	52	52
c	Rlower_n_z	10	13	1	z	70	53	53
c	Rtail_char	4	1	1	Rstart_char	70	72	72
t	Rtail_chars	2	2	2	Rtail_char	54	73	73
c	Rtail_char	4	2	1	Rno_and_underscore_and_hyphen	70	74	74
c	Rstart_char	3	1	1	RUPPER_A_M	70	75	75
c	Rstart_char	3	2	1	RUPPER_N_Z	70	76	76
c	Rstart_char	3	3	1	Rlower_a_m	70	77	77
c	Rstart_char	3	4	1	Rlower_n_z	70	78	78
c	Rno_and_underscore_and_hyphen	5	5	1	RNUMBERS	70	79	79

⇒| . |

State: 71 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	Rlinker_id		1	2	4			1	0	71	2

⇒*Rstart_char*

State: 72 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	Rtail_char		4	1	2			70	0	72	1

⇒*Rtail_char*

State: 73 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	Rtail_chars		2	2	3			54	0	73	1

⇒*Rno_and_underscore_and_hyphen*

State: 74 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	Rtail_char		4	2	2			70	0	74	1

⇒*RUPPER_A_M*

State: 75 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	Rstart_char		3	1	2			70	0	75	1

⇒*RUPPER_N_Z*

State: 76 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	Rstart_char		3	2	2			70	0	76	1

⇒*Rlower_a_m*

State: 77 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	Rstart_char		3	3	2			70	0	77	1

⇒*Rlower_n_z*

State: 78 state type: ^{r}

	← rule	→	R#	sr#	Po	← subrule element	→	Brn	Gto	Red	LA
t	Rstart_char		3	4	2			70	0	78	1

$\Rightarrow^{RNUMBERS}$

	←	rule	→	R#	sr#	Po	←
t	Rno_and_underscore_and_hyphen			5	5	2	

$\Rightarrow^{Rtail\_char}$

	←	rule	→	R#	sr#	Po	←
t	Rtail_chars			2	1	2	

State: 79 state type: ^{r}

subrule element	→	Brn	Gto	Red	LA
		70	0	79	1

State: 80 state type: ^{r}

subrule element	→	Brn	Gto	Red	LA
		54	0	80	1

31. Index.

linker_id Grammar

Date: January 2, 2015 at 15:36

File: linker_id.lex Ns: NS_linker_id

Version: 1.0 Debug: false

Grammar Comments: Type: Thread

O_2^{linker}identifiers recognizer: uses symbol table.

496 element(s) in Lookahead Expression below

eolr − Rminus_la