

1. Copyright.

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2. *xc_str* Thread.

Doubled quoted string without the escape sequences.

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

```
⟨ Cxc_str constructor directive 4 ⟩ ≡
  ddd_idx_ = 0;
  ddd_[ddd_idx_] = 0;
```

5. *Cxc_str* op directive.

```
⟨ Cxc_str op directive 5 ⟩ ≡
  ddd_idx_ = 0;
  ddd_[ddd_idx_] = 0;
```

6. *Cxc_str* user-declaration directive.

```
⟨ Cxc_str user-declaration directive 6 ⟩ ≡
public: char ddd_[1024 * 32];
int ddd_idx_;
void copy_str_into_buffer(std::string * Str);
void copy_kstr_into_buffer(const char * Str);
```

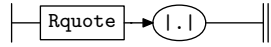
7. *Cxc_str* user-implementation directive.

```
⟨ Cxc_str user-implementation directive 7 ⟩ ≡
void Cxc_str::copy_str_into_buffer(std::string * Str)
{
  const char *y = Str→c_str();
  int x(0);
  for ( ; y[x] ≠ 0; ++x, ++ddd_idx_) ddd_[ddd_idx_] = y[x];
  ddd_[ddd_idx_] = 0;
}
void Cxc_str::copy_kstr_into_buffer(const char * Str)
{
  const char *y = Str;
  int x(0);
  for ( ; y[x] ≠ 0; ++x, ++ddd_idx_) ddd_[ddd_idx_] = y[x];
  ddd_[ddd_idx_] = 0;
}
```

8. *Rxc_str* rule.

Use of |.| to lower the number of members in the lookahead set.

Rxc_str



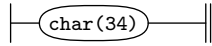
⟨ Rxc_str subrule 1 op directive 8 ⟩ ≡

```

Cxc_str * fsm = ( Cxc_str * ) rule_info_.parser_--fsm_tbl_;
CAbs_lr1_sym * sym = new T_xc_str((const char *) &fsm-ddd_);
sym->set_rc(*rule_info_.parser_--start_token_, __FILE__, __LINE__);
sym->set_line_no_and_pos_in_line(*rule_info_.parser_--start_token_);
RSVP(sym);
  
```

9. Rquote rule.

Rquote



Mpost weakness in literal form so substitute the double quote for “char(34)” in diagram. The finite state automata recognition is to lower the push / pop lr1 activity as this is a lexical automata.

⟨Rquote subrule 1 op directive 9⟩ ≡

```

Cxc_str * fsm = ( Cxc_str * ) rule_info__parser__fsm_tbl__;
loop:
  switch (rule_info__parser__current_token()→enumerated_id__) {
  case T_Enum::T_raw_lf_: goto overrun;
  case T_Enum::T_raw_cr_: goto overrun;
  case T_Enum::T_LR1_eog_: goto overrun;
  case T_Enum::T_raw_dbl_quote_: goto dblquote;
  default: goto other;
  }
dblquote:
  { /* end of string */
  rule_info__parser__get_next_token();
  if (rule_info__parser__current_token()→enumerated_id__ ≡ T_Enum::T_raw_dbl_quote_) {
  fsm→copy_kstr_into_buffer("\"); /* due to lex scanner */
  fsm→copy_kstr_into_buffer("\");
  rule_info__parser__get_next_token();
  goto loop;
  }
  return; /* end of c string */
  }
overrun:
  {
  CAbs_lr1_sym * sym = new Err_bad_eos;
  sym→set_rc(*rule_info__parser__start_token__, __FILE__, __LINE__);
  sym→set_line_no_and_pos_in_line(*rule_info__parser__start_token__);
  RSVP(sym);
  rule_info__parser__set_stop_parse(true);
  return;
  }
other:
  {
  fsm→copy_kstr_into_buffer(rule_info__parser__current_token()→id__);
  rule_info__parser__get_next_token();
  goto loop;
  }

```

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

```
/*
  File: xc_str.fsc
  Date and Time: Fri Jan  2 15:34:01 2015
*/
transitive      n
grammar-name    "xc_str"
name-space      "NS_xc_str"
thread-name     "TH_xc_str"
monolithic      n
file-name       "xc_str.fsc"
no-of-T         569
list-of-native-first-set-terminals 1
  raw_dbl_quote
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
"No escape sequence check: accept all characters between dbl. quoted string."
```

11. Lr1 State Network.

⇒					State: 1 state type: <i>s</i>		
←	rule	→	R# sr# Po ←		subrule element	→	Brn Gto Red LA
c	Rquote		2 1 1 "				1 2 2
c	Rxc_str		1 1 1 Rquote .				1 3 4
⇒	"				State: 2 state type: <i>r</i>		
←	rule	→	R# sr# Po ←		subrule element	→	Brn Gto Red LA
t	Rquote		2 1 2				1 0 2 1
⇒	<i>Rquote</i>				State: 3 state type: <i>s</i>		
←	rule	→	R# sr# Po ←		subrule element	→	Brn Gto Red LA
t	Rxc_str		1 1 2 .				1 4 4
⇒	.				State: 4 state type: <i>r</i>		
←	rule	→	R# sr# Po ←		subrule element	→	Brn Gto Red LA
t	Rxc_str		1 1 3				1 0 4 2

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__LINE__: 8, 9.
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copy_str_into_buffer: 6, 7.
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y: 7.

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xc_str Grammar

Date: January 2, 2015 at 15:40

File: xc_str.lex

Ns: NS_xc_str

Version: 1.0

Debug: false

Grammar Comments:

Type: Thread

No escape sequence check: accept all characters between dbl. quoted string.

1 element(s) in Lookahead Expression below

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