

1. Copyright.

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2. *int_no* thread.

Recognize long integer. Does a conversion for validity only. Data returned in text form.

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

```
<Cint_no constructor directive 4> ≡
  ddd_idx_ = 0;
  ddd_[ddd_idx_] = 0;
```

5. Cint_no op directive.

```
<Cint_no op directive 5> ≡
  ddd_idx_ = 0;
  ddd_[ddd_idx_] = 0;
```

6. Cint_no user-declaration directive.

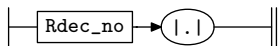
```
<Cint_no user-declaration directive 6> ≡
public: char ddd_[1024 * 32];
  int ddd_idx_;
```

7. Cint_no user-prefix-declaration directive.

```
<Cint_no user-prefix-declaration directive 7> ≡
#include <stdlib.h>
#include <errno.h>
#include <limits.h>
```

8. *Rint_no* rule.

Rint_no

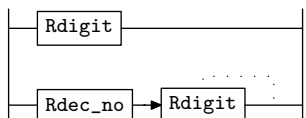


```
<Rint_no subrule 1 op directive 8> ≡
```

```
  Cint_no * fsm = ( Cint_no * ) rule_info_.parser-->fsm_tbl_;
  long lno = strtol(fsm->ddd_, 0, 10);
  if (errno ≡ ERANGE) {
    Err_bad_int_no * sym = new Err_bad_int_no;
    sym->set_rc(*rule_info_.parser-->start_token_, __FILE__, __LINE__);
    RSVP(sym);
  }
  else {
    T_int_no * sym = new T_int_no(lno);
    sym->set_rc(*rule_info_.parser-->start_token_, __FILE__, __LINE__);
    RSVP(sym);
  }
}
```

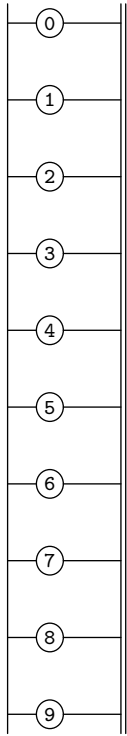
9. *Rdec_no* rule.

Rdec_no



10. Rdigit rule.

Rdigit

**11. Rdigit op directive.**

```

⟨ Rdigit op directive 11 ⟩ ≡
  Cint_no * fsm = ( Cint_no * ) 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-ddd_[fsm-ddd_idx_] = sym-id_[0];
  ++fsm-ddd_idx_;
  fsm-ddd_[fsm-ddd_idx_] = 0;

```

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

```
/*
  File: int_no.fsc
  Date and Time: Fri Jan  2 15:33:38 2015
*/
transitive      n
grammar-name    "int_no"
name-space      "NS_int_no"
thread-name     "TH_int_no"
monolithic      n
file-name       "int_no.fsc"
no-of-T         569
list-of-native-first-set-terminals 10
  raw_0
  raw_1
  raw_2
  raw_3
  raw_4
  raw_5
  raw_6
  raw_7
  raw_8
  raw_9
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
"Integer number lexer."
```

13. Lr1 State Network.

\Rightarrow						State: 1 state type: s			
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
c	Rdigit		3	1	1	0			1 2 2
c	Rdigit		3	2	1	1			1 3 3
c	Rdigit		3	3	1	2			1 4 4
c	Rdigit		3	4	1	3			1 5 5
c	Rdigit		3	5	1	4			1 6 6
c	Rdigit		3	6	1	5			1 7 7
c	Rdigit		3	7	1	6			1 8 8
c	Rdigit		3	8	1	7			1 9 9
c	Rdigit		3	9	1	8			1 10 10
c	Rdigit		3	10	1	9			1 11 11
c	Rdec_no		2	2	1		Rdec_no <u>Rdigit</u>		1 12 14
c	Rint_no		1	1	1		Rdec_no <u> .</u>		1 12 13
c	Rdec_no		2	1	1		Rdigit		1 15 15
\Rightarrow^0							State: 2 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rdigit		3	1	2				1 0 2 1
\Rightarrow^1							State: 3 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rdigit		3	2	2				1 0 3 1
\Rightarrow^2							State: 4 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rdigit		3	3	2				1 0 4 1
\Rightarrow^3							State: 5 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rdigit		3	4	2				1 0 5 1
\Rightarrow^4							State: 6 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rdigit		3	5	2				1 0 6 1
\Rightarrow^5							State: 7 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rdigit		3	6	2				1 0 7 1
\Rightarrow^6							State: 8 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rdigit		3	7	2				1 0 8 1
\Rightarrow^7							State: 9 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rdigit		3	8	2				1 0 9 1
\Rightarrow^8							State: 10 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA

t Rdigit		3	9	2				1	0	10	1
\Rightarrow^9						State: 11 state type: <i>r</i>					
← rule		→ R#	sr#	Po	←	subrule element		→ Brn	Gto	Red	LA
t Rdigit		3	10	2				1	0	11	1
\Rightarrow^{Rdec_no}						State: 12 state type: <i>s</i>					
← rule		→ R#	sr#	Po	←	subrule element		→ Brn	Gto	Red	LA
t Rint_no		1	1	2	.			1	13	13	
c Rdigit		3	1	1	0			12	2	2	
c Rdigit		3	2	1	1			12	3	3	
c Rdigit		3	3	1	2			12	4	4	
c Rdigit		3	4	1	3			12	5	5	
c Rdigit		3	5	1	4			12	6	6	
c Rdigit		3	6	1	5			12	7	7	
c Rdigit		3	7	1	6			12	8	8	
c Rdigit		3	8	1	7			12	9	9	
c Rdigit		3	9	1	8			12	10	10	
c Rdigit		3	10	1	9			12	11	11	
t Rdec_no		2	2	2	Rdigit			1	14	14	
$\Rightarrow .$						State: 13 state type: <i>r</i>					
← rule		→ R#	sr#	Po	←	subrule element		→ Brn	Gto	Red	LA
t Rint_no		1	1	3				1	0	13	2
\Rightarrow^{Rdigit}						State: 14 state type: <i>r</i>					
← rule		→ R#	sr#	Po	←	subrule element		→ Brn	Gto	Red	LA
t Rdec_no		2	2	3				1	0	14	1
\Rightarrow^{Rdigit}						State: 15 state type: <i>r</i>					
← rule		→ R#	sr#	Po	←	subrule element		→ Brn	Gto	Red	LA
t Rdec_no		2	1	2				1	0	15	1

14. Index.

|.|: 8.
__FILE__: 8.
__LINE__: 8.
CAbs_lr1_sym: 11.
Cint_no: 8, 11.
ddd: 4, 5, 6, 8, 11.
ddd_idx: 4, 5, 6, 11.
ERANGE: 8.
Err_bad_int_no: 8.
errno: 8.
fsm: 8, 11.
fsm_tbl: 8, 11.
get_spec_stack_token: 11.
id: 11.
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int_no Grammar

Date: January 2, 2015 at 15:36

File: int_no.lex

Ns: NS_int_no

Version: 1.0

Debug: false

Grammar Comments:

Type: Thread

Integer number lexer.

1 element(s) in Lookahead Expression below

eolr

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