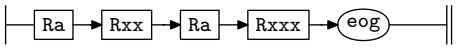
1. Fsm CTS_la1 class.

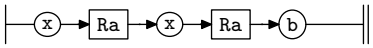
2. *Rtest_use_cnt* rule.

`Rtest_use_cnt`



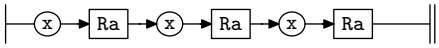
3. *Rxx* rule.

`Rxx`



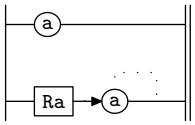
4. *Rxxx* rule.

`Rxxx`



5. *Ra* rule.

`Ra`



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

```
/*
 File: test_use_cnt.fsc
 Date and Time: Mon Sep 15 20:09:16 2014
*/
transitive   n
grammar-name "test_use_cnt"
name-space   "NS_test_use_cnt"
thread-name  "CTS_la1"
monolithic   y
file-name    "test_use_cnt.fsc"
no-of-T      569
list-of-native-first-set-terminals 1
   raw_a
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
"end-of-line recognizer"
```

7. Lr1 State Network.

⇒ State: 1 state type: ^{s}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Ra		4	1	1	a			1	2	2	
c	Rtest_use_cnt		1	1	1	Ra *Rxx*			1	3	19	
c	Ra		4	2	1	Ra *a*			1	3	4	

⇒^{a} State: 2 state type: ^{r}

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

⇒^{Ra} State: 3 state type: ^{s}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Ra		4	2	2	a			1	4	4	
c	Rxx		2	1	1	x			3	5	9	
t	Rtest_use_cnt		1	1	2	Rxx *Ra*			1	10	19	

⇒^{a} State: 4 state type: ^{r}

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

⇒^{x} State: 5 state type: ^{s}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Ra		4	1	1	a			5	2	2	
t	Rxx		2	1	2	Ra *x*			3	6	9	
c	Ra		4	2	1	Ra *a*			5	6	4	

⇒^{Ra} State: 6 state type: ^{s}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Ra		4	2	2	a			5	4	4	
t	Rxx		2	1	3	x			3	7	9	

⇒^{x} State: 7 state type: ^{s}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Ra		4	1	1	a			7	2	2	
t	Rxx		2	1	4	Ra *b*			3	8	9	
c	Ra		4	2	1	Ra *a*			7	8	4	

⇒^{Ra} State: 8 state type: ^{s}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Ra		4	2	2	a			7	4	4	
t	Rxx		2	1	5	b			3	9	9	

⇒^{b} State: 9 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rxx		2	1	6				3	0	9	2

⇒^{Rxx} State: 10 state type: ^{s}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Ra		4	1	1	a			10	2	2	
t	Rtest_use_cnt		1	1	3	Ra *Rxxx*			1	11	19	

c	Ra		4	2	1	Ra *a*		10	11	4

⇒*Ra* State: 11 state type: *s*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Ra		4	2	2	a			10	4	4	
c	Rxxx		3	1	1	x			11	12	17	
t	Rtest_use_cnt		1	1	4	Rxxx *eog*			1	18	19	

⇒*x* State: 12 state type: *s*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Ra		4	1	1	a			12	2	2	
t	Rxxx		3	1	2	Ra *x*			11	13	17	
c	Ra		4	2	1	Ra *a*			12	13	4	

⇒*Ra* State: 13 state type: *s*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Ra		4	2	2	a			12	4	4	
t	Rxxx		3	1	3	x			11	14	17	

⇒*x* State: 14 state type: *s*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Ra		4	1	1	a			14	2	2	
t	Rxxx		3	1	4	Ra *x*			11	15	17	
c	Ra		4	2	1	Ra *a*			14	15	4	

⇒*Ra* State: 15 state type: *s*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Ra		4	2	2	a			14	4	4	
t	Rxxx		3	1	5	x			11	16	17	

⇒*x* State: 16 state type: *s*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Ra		4	1	1	a			16	2	2	
t	Rxxx		3	1	6	Ra			11	17	17	
c	Ra		4	2	1	Ra *a*			16	17	4	

⇒*Ra* State: 17 state type: *s/r*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rxxx		3	1	7				11	0	17	3
t	Ra		4	2	2	a			16	4	4	

⇒*Rxxx* State: 18 state type: *s*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rtest_use_cnt		1	1	5	eog			1	19	19	

⇒*eog* State: 19 state type: *r*

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rtest_use_cnt		1	1	6				1	0	19	4

8. Index.

test_use_cnt Grammar

Date: September 16, 2014 at 15:02

File: test_use_cnt.lex

Ns: NS_test_use_cnt

Version: 1.0 Debug: true

Grammar Comments: Type: Monolithic

end-of-line recognizer