

1. Spector Grammar.

David Spector

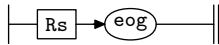
Full LR(1) Parser Generator ACM Sigplan Notices, 16(8), August 1981.

Test out LR(1) resolution - page 64.

2. Fsm Csp_1 class.

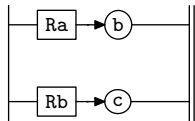
3. Rmm rule.

Rmm



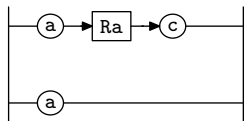
4. Rs rule.

Rs



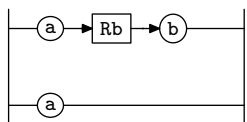
5. Ra rule.

Ra



6. Rb rule.

Rb



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

```
/*
  File: sp_1.fsc
  Date and Time: Fri Jan  2 09:49:39 2015
*/
transitive      n
grammar-name    "sp_1"
name-space      "NS_sp_1"
thread-name     "Csp_1"
monolithic      y
file-name       "sp_1.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
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8. Lr1 State Network.

\Rightarrow						State: 1 state type: s			
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
c	Ra		3	1	1	a			1 2 4
c	Ra		3	2	1	a			1 2 2
c	Rb		4	1	1	a			1 2 6
c	Rb		4	2	1	a			1 2 2
c	Rmm		1	1	1	$R_s \overline{eog}$			1 7 8
c	Rs		2	1	1	$R_a \underline{b}$			1 9 10
c	Rs		2	2	1	$R_b \underline{c}$			1 11 12
\Rightarrow^a							State: 2 state type: s/r^2		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Ra		3	2	2				1 0 2 1
t	Rb		4	2	2				1 0 2 2
c	Ra		3	1	1	a			2 13 15
c	Ra		3	2	1	a			2 13 13
c	Rb		4	1	1	a			2 13 17
c	Rb		4	2	1	a			2 13 13
t	Ra		3	1	2	$R_a \underline{c}$			1 3 4
t	Rb		4	1	2	$R_b \underline{b}$			1 5 6
\Rightarrow^{Ra}							State: 3 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Ra		3	1	3	c			1 4 4
\Rightarrow^c							State: 4 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Ra		3	1	4				1 0 4 1
\Rightarrow^{Rb}							State: 5 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rb		4	1	3	b			1 6 6
\Rightarrow^b							State: 6 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rb		4	1	4				1 0 6 2
\Rightarrow^{Rs}							State: 7 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rmm		1	1	2	eog			1 8 8
\Rightarrow^{eog}							State: 8 state type: r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rmm		1	1	3				1 0 8 3
\Rightarrow^{Ra}							State: 9 state type: s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rs		2	1	2	b			1 10 10
\Rightarrow^b							State: 10 state type: r		

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rs		2	1	3				1	0	10	4
⇒ ^{Rb}							State: 11 state type: ^s					
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rs		2	2	2	c			1	12	12	
⇒ ^c							State: 12 state type: ^r					
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rs		2	2	3				1	0	12	4
⇒ ^a							State: 13 state type: ^{s/r²}					
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Ra		3	2	2				2	0	13	2
t	Rb		4	2	2				2	0	13	1
c	Ra		3	1	1	a			13	13	15	
c	Ra		3	2	1	a			13	13	13	
c	Rb		4	1	1	a			13	13	17	
c	Rb		4	2	1	a			13	13	13	
t	Ra		3	1	2	Ra <u>c</u>			2	14	15	
t	Rb		4	1	2	Rb <u>b</u>			2	16	17	
⇒ ^{Ra}							State: 14 state type: ^s					
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Ra		3	1	3	c			2	15	15	
⇒ ^c							State: 15 state type: ^r					
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Ra		3	1	4				2	0	15	2
⇒ ^{Rb}							State: 16 state type: ^s					
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rb		4	1	3	b			2	17	17	
⇒ ^b							State: 17 state type: ^r					
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rb		4	1	4				2	0	17	1

9. Index.

eog: 3.

Ra: 4, 5.

Ra: 5.

Rb: 4, 6.

Rb: 6.

Rmm: 3.

Rs: 3.

Rs: 4.

sp_1 Grammar

Date: January 2, 2015 at 11:27

File: sp_1.lex

Ns: NS_sp_1

Version: 1.0

Debug: false

Grammar Comments:

Type: Monolithic

Test out Spector LR(1) resolution from page 64.

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