

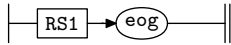
1. lalr1_dp1 grammar.

A laLR1 grammar from deremer and pennello paper efficient computation of lalr(1) look-ahead sets acm trans on prog lang and systems vol. 4 no. 4 oct 82 page 632

2. Fsm Clalr1_dp1 class.

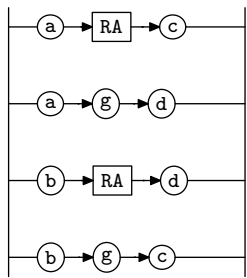
3. Rlalr1_dp1 rule.

Rlalr1_dp1



4. RS1 rule.

RS1



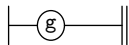
5. RA rule.

RA



6. RB rule.

RB



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

```
/*
  File: lalr1_dp1.fsc
  Date and Time: Tue Sep 16 13:27:42 2014
*/
transitive      n
grammar-name    "lalr1_dp1"
name-space      "NS_lalr1_dp1"
thread-name     "Clalr1_dp1"
monolithic      y
file-name       "lalr1_dp1.fsc"
no-of-T         569
list-of-native-first-set-terminals 2
  raw_a
  raw_b
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
"test out lr1"
```

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	RS1		2	1	1	a		1 2 6
c	RS1		2	2	1	a		1 2 4
c	RS1		2	3	1	b		1 7 11
c	RS1		2	4	1	b		1 7 9
c	Rlalr1_dp1		1	1	1	RS1 <u>eog</u>		1 12 13
\Rightarrow^a							State: 2 state type: s	
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
c	RB		4	1	1	g		2 3 3
t	RS1		2	2	2	g		1 3 4
t	RS1		2	1	2	RA <u>c</u>		1 5 6
c	RA		3	1	1	RB		2 14 14
\Rightarrow^g							State: 3 state type: s/r	
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
t	RB		4	1	2			2 0 3 1
t	RS1		2	2	3	d		1 4 4
\Rightarrow^d							State: 4 state type: r	
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
t	RS1		2	2	4			1 0 4 2
\Rightarrow^{RA}							State: 5 state type: s	
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
t	RS1		2	1	3	c		1 6 6
\Rightarrow^c							State: 6 state type: r	
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
t	RS1		2	1	4			1 0 6 2
\Rightarrow^b							State: 7 state type: s	
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
t	RS1		2	4	2	g		1 8 9
c	RB		4	1	1	g		7 8 8
t	RS1		2	3	2	RA <u>d</u>		1 10 11
c	RA		3	1	1	RB		7 15 15
\Rightarrow^g							State: 8 state type: s/r	
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
t	RB		4	1	2			7 0 8 3
t	RS1		2	4	3	c		1 9 9
\Rightarrow^c							State: 9 state type: r	
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
t	RS1		2	4	4			1 0 9 2
\Rightarrow^{RA}							State: 10 state type: s	
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA

t RS1		2	3	3	d			1	11	11
\Rightarrow^d						State: 11 state type: r				
← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
t RS1		2	3	4				1	0	11 2
\Rightarrow^{RS1}						State: 12 state type: s				
← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
t Rlalr1_dp1		1	1	2	eog			1	13	13
\Rightarrow^{eog}						State: 13 state type: r				
← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
t Rlalr1_dp1		1	1	3				1	0	13 4
\Rightarrow^{RB}						State: 14 state type: r				
← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
t RA		3	1	2				2	0	14 1
\Rightarrow^{RB}						State: 15 state type: r				
← rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red LA
t RA		3	1	2				7	0	15 3

9. Index.

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Rlalr1_dp1: [3](#).

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RS1: [3](#).

l1lr1_dp1 Grammar

Date: September 16, 2014 at 14:59

File: l1lr1_dp1.lex

Ns: NS_l1lr1_dp1

Version: 1.0

Debug: true

Grammar Comments:

Type: Monolithic

test out lr1

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