

1. Deremer and Pennello page 633 LALR(0) Grammar.

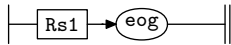
Efficient Computation of LALR(1) Look-Ahead Sets

ACM Transactions on Programming Languages and Systems, 4(4):615649, 1982

2. Fsm Cdp.2 class.

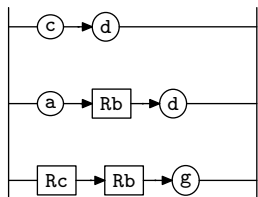
3. Rs rule.

Rs



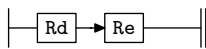
4. Rs1 rule.

Rs1



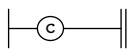
5. Rb rule.

Rb



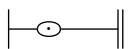
6. Rc rule.

Rc



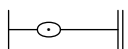
7. Rd rule.

Rd



8. Re rule.

Re



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

```
/*
  File: dp_2.fsc
  Date and Time: Sun Jun 15 11:38:32 2014
*/
transitive      n
grammar-name    "dp_2"
name-space      "NS_dp_2"
thread-name     "Cdp_2"
monolithic      y
file-name       "dp_2.fsc"
no-of-T         569
list-of-native-first-set-terminals 2
  raw_a
  raw_c
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
"LR(0) Deremer and Pennello grammar from page 633."
```

10. 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 2 1 a				1 2 4
c Rs1			2 1 1 c				1 5 6
c Rc			4 1 1 c				1 5 5
c Rs			1 1 1 $R_{s1} \underline{eog}$				1 7 8
c Rs1			2 3 1 $R_c \underline{Rb^\epsilon g}$				1 9 11
\Rightarrow^a					State: 2 state type: s/r		
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
c Rd			5 1 1 ϵ				2 0 2 1
t Rs1			2 2 2 $R_b \underline{d}$				1 3 4
c Rb			3 1 1 $R_d \underline{Re^\epsilon}$				2 12 13
\Rightarrow^{Rb}					State: 3 state type: s		
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
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^c					State: 5 state type: s/r		
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t Rc			4 1 2				1 0 5 3
t Rs1			2 1 2 d				1 6 6
\Rightarrow^d					State: 6 state type: r		
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t Rs1			2 1 3				1 0 6 2
\Rightarrow^{Rs1}					State: 7 state type: s		
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t Rs			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 Rs			1 1 3				1 0 8 4
\Rightarrow^{Rc}					State: 9 state type: s/r		
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
c Rd			5 1 1 ϵ				9 0 9 3
t Rs1			2 3 2 $R_b \underline{g}$				1 10 11
c Rb			3 1 1 $R_d \underline{Re^\epsilon}$				9 12 13
\Rightarrow^{Rb}					State: 10 state type: s		
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t Rs1			2 3 3 g				1 11 11
\Rightarrow^g					State: 11 state type: r		

\leftarrow t Rs1	rule	\rightarrow R# sr# Po \leftarrow 2 3 4	subrule element	\rightarrow Brn Gto Red LA 1 0 11 2
\Rightarrow^{Rd}				
\leftarrow c Re t Rb	rule	\rightarrow R# sr# Po \leftarrow 6 1 1 ϵ 3 1 2 Re	State: 12 state type: s/r subrule element	\rightarrow Brn Gto Red LA 12 0 12 1 2 13 13
\Rightarrow^{Re}				
\leftarrow t Rb	rule	\rightarrow R# sr# Po \leftarrow 3 1 3	State: 13 state type: r subrule element	\rightarrow Brn Gto Red LA 2 0 13 1

11. Index.

- ϵ : [7](#), [8](#).
- eog: [3](#).
- Rb: [4](#).
- Rb*: [5](#).
- Rc: [4](#).
- Rc*: [6](#).
- Rd: [5](#).
- Rd*: [7](#).
- Re: [5](#).
- Re*: [8](#).
- Rs*: [3](#).
- Rs1*: [4](#).
- Rs1: [3](#).

dp_2 Grammar

Date: June 15, 2014 at 15:01

File: dp_2.lex

Ns: NS_dp_2

Version: 1.0

Debug: false

Grammar Comments:

Type: Monolithic

LR(0) Deremer and Pennello grammar from page 633.

	Section	Page
Deremer and Pennello page 633 Lalr(0) Grammar	1	1
Fsm Cdp_2 class	2	1
<i>Rs</i> rule	3	1
<i>Rs1</i> rule	4	1
<i>Rb</i> rule	5	1
<i>Rc</i> rule	6	1
<i>Rd</i> rule	7	1
<i>Re</i> rule	8	1
First Set Language for O_2^{linker}	9	2
Lr1 State Network	10	3
Index	11	5