

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

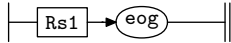
Efficient Computation of LALR(1) Look-Ahead Sets

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

2. Fsm Cdp.2 class.

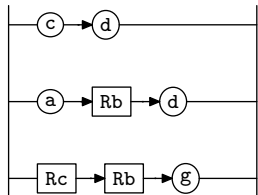
3. Rs rule.

Rs



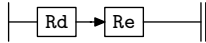
4. Rs1 rule.

Rs1



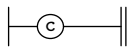
5. Rb rule.

Rb



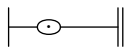
6. Rc rule.

Rc



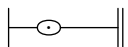
7. Rd rule.

Rd



8. Re rule.

Re



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

```
/*
  File: dp_2.fsc
  Date and Time: Fri Jan  2 09:49:22 2015
*/
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	Rs1 <u>eog</u>		1 7 8
c	Rs1		2	3	1	Rc <u>Rb$^\epsilon$g</u>		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	Rb <u>d</u>		1 3 4
c	Rb		3	1	1	Rd <u>Re$^\epsilon$</u>		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	Rb <u>g</u>		1 10 11
c	Rb		3	1	1	Rd <u>Re$^\epsilon$</u>		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	

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rs1		2	3	4				1	0	11	2
⇒ Rd												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c	Re		6	1	1	ε			12	0	12	1
t	Rb		3	1	2	Re			2	13	13	
⇒ ^{Re}												
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t	Rb		3	1	3				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: January 2, 2015 at 11:27

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.

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