

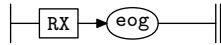
1. *LR1_pa2* grammar.

A LR1 GRAMMAR FROM ACTA INFORMATICA 7 249-268(1977) A PRACTICAL GENERAL METHOD FOR CONSTRUCTING LR(K) PARSERS BY DAVID PAGER P. 259 GRAMMAR G3

2. Fsm Clr1_pa2_rul_fsm class.

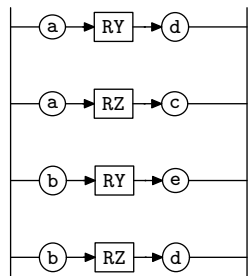
3. *Rlr1_pa2* rule.

Rlr1_pa2



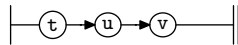
4. RX rule.

RX



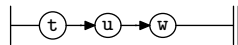
5. RY rule.

RY



6. RZ rule.

RZ



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

```
/*
  File: lr1_pa2.fsc
  Date and Time: Tue Sep 16 13:27:57 2014
*/
transitive      n
grammar-name    "lr1_pa2"
name-space     "NS_lr1_pa2"
thread-name     "Clr1_pa2_rul_fsm"
monolithic     y
file-name      "lr1_pa2.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	RX		2 2 1	a		1 2 6
c	RX		2 1 1	a		1 2 4
c	RX		2 3 1	b		1 7 9
c	RX		2 4 1	b		1 7 11
c	Rlr1_pa2		1 1 1	RX <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	RY		3 1 1	t		2 14 16
c	RZ		4 1 1	t		2 14 17
t	RX		2 1 2	RY <u>d</u>		1 3 4
t	RX		2 2 2	RZ <u>c</u>		1 5 6
\Rightarrow^{RY}					State: 3 state type: ^s	
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
t	RX		2 1 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	RX		2 1 4			1 0 4 1
\Rightarrow^{RZ}					State: 5 state type: ^s	
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
t	RX		2 2 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	RX		2 2 4			1 0 6 1
\Rightarrow^b					State: 7 state type: ^s	
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
c	RY		3 1 1	t		7 14 16
c	RZ		4 1 1	t		7 14 17
t	RX		2 3 2	RY <u>e</u>		1 8 9
t	RX		2 4 2	RZ <u>d</u>		1 10 11
\Rightarrow^{RY}					State: 8 state type: ^s	
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
t	RX		2 3 3	e		1 9 9
\Rightarrow^e					State: 9 state type: ^r	
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
t	RX		2 3 4			1 0 9 1
\Rightarrow^{RZ}					State: 10 state type: ^s	
\leftarrow	rule	\rightarrow	R# sr# Po	\leftarrow	subrule element	\rightarrow Brn Gto Red LA
t	RX		2 4 3	d		1 11 11

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RX: [4](#).

RY: [4](#).

RY: [5](#).

RZ: [4](#).

RZ: [6](#).

lr1_pa2 Grammar

Date: September 16, 2014 at 14:59

File: lr1_pa2.lex

Ns: NS_lr1_pa2

Version: 1.0

Debug: true

Grammar Comments:

Type: Monolithic

test out lr1

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