

1. David Pager Grammar.

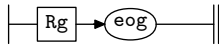
David Pager

The Lane Table Method Of Constructing LR(1) Parsers.

2. Fsm Cpager_2 class.

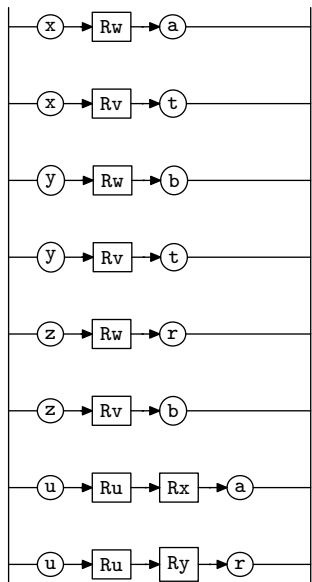
3. *Rs* rule.

Rs



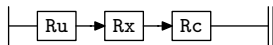
4. *Rg* rule.

Rg



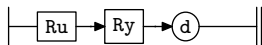
5. *Rw* rule.

Rw



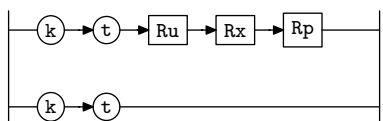
6. *Rv* rule.

Rv



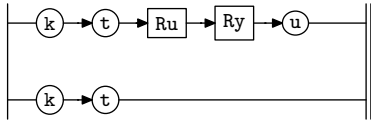
7. *Rx* rule.

Rx



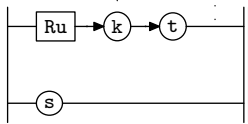
8. *Ry* rule.

Ry



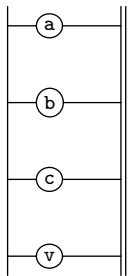
9. *Ru* rule.

Ru



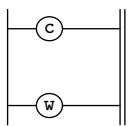
10. *Re* rule.

Re



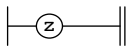
11. *Rc* rule.

Rc



12. *Rp* rule.

Rp



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

```
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  Date and Time: Sun Jun 15 11:38:44 2014
*/
transitive      n
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name-space      "NS_pager_2"
thread-name     "Cpager_2"
monolithic      y
file-name       "pager_2.fsc"
no-of-T         569
list-of-native-first-set-terminals 4
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  raw_x
  raw_y
  raw_z
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 David Pager LR(1) resolution page 61."
```

14. Lr1 State Network.

\Rightarrow						State: 1 state type: ^s			
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
c	Rg		2	7	1	u			1 2 5
c	Rg		2	8	1	u			1 2 7
c	Rg		2	1	1	x			1 8 10
c	Rg		2	2	1	x			1 8 12
c	Rg		2	3	1	y			1 13 15
c	Rg		2	4	1	y			1 13 17
c	Rg		2	5	1	z			1 18 20
c	Rg		2	6	1	z			1 18 22
c	Rs		1	1	1	Rg <u>eog</u>			1 23 24
\Rightarrow^u							State: 2 state type: ^s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
c	Ru		7	2	1	s			2 25 25
t	Rg		2	7	2	Ru <u>Rx</u>			1 3 5
t	Rg		2	8	2	Ru <u>Ry</u>			1 3 7
c	Ru		7	1	1	Ru <u>k</u>			2 3 27
\Rightarrow^{Ru}							State: 3 state type: ^s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
c	Rx		5	2	1	k			3 26 27
c	Ry		6	1	1	k			3 26 33
c	Ry		6	2	1	k			3 26 27
t	Ru		7	1	2	k			2 26 27
c	Rx		5	1	1	k			3 26 31
t	Rg		2	7	3	Rx <u>a</u>			1 4 5
t	Rg		2	8	3	Ry <u>r</u>			1 6 7
\Rightarrow^{Rx}							State: 4 state type: ^s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rg		2	7	4	a			1 5 5
\Rightarrow^a							State: 5 state type: ^r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rg		2	7	5				1 0 5 1
\Rightarrow^{Ry}							State: 6 state type: ^s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rg		2	8	4	r			1 7 7
\Rightarrow^r							State: 7 state type: ^r		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
t	Rg		2	8	5				1 0 7 1
\Rightarrow^x							State: 8 state type: ^s		
\leftarrow	rule	\rightarrow	R#	sr#	Po	\leftarrow	subrule element	\rightarrow	Brn Gto Red LA
c	Ru		7	2	1	s			8 25 25
t	Rg		2	1	2	Rw <u>a</u>			1 9 10
t	Rg		2	2	2	Rv <u>t</u>			1 11 12

c Ru		7	1	1	Ru <u>k</u>		8	34	27
c Rw		3	1	1	Ru <u>Rx</u>		8	34	38
c Rv		4	1	1	Ru <u>Ry</u>		8	34	40
\Rightarrow^{Rw}						State: 9 state type: ^s			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA
t Rg			2	1	3	a			1 10 10
\Rightarrow^a						State: 10 state type: ^r			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA
t Rg			2	1	4				1 0 10 1
\Rightarrow^{Rv}						State: 11 state type: ^s			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA
t Rg			2	2	3	t			1 12 12
\Rightarrow^t						State: 12 state type: ^r			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA
t Rg			2	2	4				1 0 12 1
\Rightarrow^y						State: 13 state type: ^s			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA
c Ru			7	2	1	s			13 25 25
t Rg			2	3	2	Rw <u>b</u>			1 14 15
t Rg			2	4	2	Rv <u>t</u>			1 16 17
c Ru			7	1	1	Ru <u>k</u>			13 34 27
c Rw			3	1	1	Ru <u>Rx</u>			13 34 38
c Rv			4	1	1	Ru <u>Ry</u>			13 34 40
\Rightarrow^{Rw}						State: 14 state type: ^s			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA
t Rg			2	3	3	b			1 15 15
\Rightarrow^b						State: 15 state type: ^r			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA
t Rg			2	3	4				1 0 15 1
\Rightarrow^{Rv}						State: 16 state type: ^s			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA
t Rg			2	4	3	t			1 17 17
\Rightarrow^t						State: 17 state type: ^r			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA
t Rg			2	4	4				1 0 17 1
\Rightarrow^z						State: 18 state type: ^s			
←	rule	→	R#	sr#	Po	←	subrule element	→	Brn Gto Red LA
c Ru			7	2	1	s			18 25 25
t Rg			2	5	2	Rw <u>r</u>			1 19 20
t Rg			2	6	2	Rv <u>b</u>			1 21 22
c Ru			7	1	1	Ru <u>k</u>			18 34 27
c Rw			3	1	1	Ru <u>Rx</u>			18 34 38

c Rv		4	1	1	Ru <u>Ry</u>		18	34	40				
\Rightarrow^{Rw}						State: 19 state type: s							
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t Rg			2	5	3	r				1	20	20	
\Rightarrow^r							State: 20 state type: r						
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t Rg			2	5	4					1	0	20	1
\Rightarrow^{Rv}							State: 21 state type: s						
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t Rg			2	6	3	b				1	22	22	
\Rightarrow^b							State: 22 state type: r						
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t Rg			2	6	4					1	0	22	1
\Rightarrow^{Rg}							State: 23 state type: s						
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t Rs			1	1	2	eog				1	24	24	
\Rightarrow^{eog}							State: 24 state type: r						
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t Rs			1	1	3					1	0	24	2
\Rightarrow^s							State: 25 state type: r						
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t Ru			7	2	2					2	0	25	3
\Rightarrow^k							State: 26 state type: s						
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t Rx			5	2	2	t				3	27	27	
t Ry			6	1	2	t				3	27	33	
t Ry			6	2	2	t				3	27	27	
t Ru			7	1	3	t				2	27	27	
t Rx			5	1	2	t				3	27	31	
\Rightarrow^t							State: 27 state type: s/r^2						
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
t Rx			5	2	3					3	0	27	4
t Ry			6	2	3					3	0	27	5
t Ru			7	1	4					2	0	27	3
c Ru			7	2	1	s				27	25	25	
t Ry			6	1	3	Ru <u>Ry</u>				3	28	33	
c Ru			7	1	1	Ru <u>k</u>				27	28	27	
t Rx			5	1	3	Ru <u>Rx</u>				3	28	31	
\Rightarrow^{Ru}							State: 28 state type: s						
←	rule	→	R#	sr#	Po	←	subrule	element	→	Brn	Gto	Red	LA
c Rx			5	2	1	k				28	26	27	
c Ry			6	1	1	k				28	26	33	

c Ry		6	2	1	k		28	26	27
t Ru		7	1	2	k		27	26	27
c Rx		5	1	1	k		28	26	31
t Rx		5	1	4	Rx <u>Rp</u>		3	29	31
t Ry		6	1	4	Ry <u>u</u>		3	32	33
\Rightarrow^{Rx}									
←	rule	→	R#	sr#	Po	←	State: 29 state type: ^s		
							subrule element	→	Brn Gto Red LA
c Rp		10	1	1	z			29	30 30
t Rx		5	1	5	Rp			3	31 31
\Rightarrow^z									
←	rule	→	R#	sr#	Po	←	State: 30 state type: ^r		
							subrule element	→	Brn Gto Red LA
t Rp		10	1	2				29	0 30 4
\Rightarrow^{Rp}									
←	rule	→	R#	sr#	Po	←	State: 31 state type: ^r		
							subrule element	→	Brn Gto Red LA
t Rx		5	1	6				3	0 31 4
\Rightarrow^{Ry}									
←	rule	→	R#	sr#	Po	←	State: 32 state type: ^s		
							subrule element	→	Brn Gto Red LA
t Ry		6	1	5	u			3	33 33
\Rightarrow^u									
←	rule	→	R#	sr#	Po	←	State: 33 state type: ^r		
							subrule element	→	Brn Gto Red LA
t Ry		6	1	6				3	0 33 5
\Rightarrow^{Ru}									
←	rule	→	R#	sr#	Po	←	State: 34 state type: ^s		
							subrule element	→	Brn Gto Red LA
c Rx		5	2	1	k			34	26 27
c Ry		6	1	1	k			34	26 33
c Ry		6	2	1	k			34	26 27
t Ru		7	1	2	k			8	26 27
c Rx		5	1	1	k			34	26 31
t Rw		3	1	2	Rx <u>Rc</u>			8	35 38
t Rv		4	1	2	Ry <u>d</u>			8	39 40
\Rightarrow^{Rx}									
←	rule	→	R#	sr#	Po	←	State: 35 state type: ^s		
							subrule element	→	Brn Gto Red LA
c Rc		9	1	1	c			35	36 36
c Rc		9	2	1	w			35	37 37
t Rw		3	1	3	Rc			8	38 38
\Rightarrow^c									
←	rule	→	R#	sr#	Po	←	State: 36 state type: ^r		
							subrule element	→	Brn Gto Red LA
t Rc		9	1	2				35	0 36 6
\Rightarrow^w									
←	rule	→	R#	sr#	Po	←	State: 37 state type: ^r		
							subrule element	→	Brn Gto Red LA
t Rc		9	2	2				35	0 37 6
\Rightarrow^{Rc}									
							State: 38 state type: ^r		

← t R _w	rule	→ R# sr# Po ← 3 1 4	subrule element	→ Brn Gto Red LA 8 0 38 6
⇒ ^{Ry}			State: 39 state type: ^s	
← t R _v	rule	→ R# sr# Po ← 4 1 3 d	subrule element	→ Brn Gto Red LA 8 40 40
⇒ ^d			State: 40 state type: ^r	
← t R _v	rule	→ R# sr# Po ← 4 1 4	subrule element	→ Brn Gto Red LA 8 0 40 7

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pager_2 Grammar

Date: June 15, 2014 at 15:01

File: pager_2.lex

Ns: NS_pager_2

Version: 1.0

Debug: false

Grammar Comments:

Type: Monolithic

Test out David Pager LR(1) resolution page 61.

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