

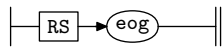
1. LR1\_sp4 grammar.

A LR1 GRAMMAR FROM DAVID SPECTOR SIGPLAN VOL 23 NO 12 DEC/88

2. Fsm Clr1\_sp4\_fsm class.

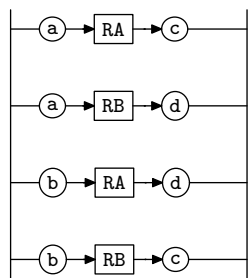
3. Rlr1\_sp4 rule.

Rlr1\_sp4



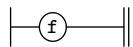
4. RS rule.

RS



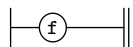
5. RA rule.

RA



6. RB rule.

RB



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

```
/*
  File: LR1_sp4.fsc
  Date and Time: Tue Sep 16 13:28:08 2014
*/
transitive      n
grammar-name    "LR1_sp4"
name-space      "NS_LR1_sp4"
thread-name     "Clr1_sp4_fsm"
monolithic      y
file-name       "LR1_sp4.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: <sup>s</sup>		
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$ Brn Gto Red LA
c	RS		2	2	1	a		1 2 6
c	RS		2	1	1	a		1 2 4
c	RS		2	3	1	b		1 7 9
c	RS		2	4	1	b		1 7 11
c	Rlr1.sp4		1	1	1	RS <u>eog</u>		1 12 13
$\Rightarrow^a$							State: 2 state type: <sup>s</sup>	
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$ Brn Gto Red LA
c	RA		3	1	1	f		2 14 14
c	RB		4	1	1	f		2 14 14
t	RS		2	1	2	RA <u>c</u>		1 3 4
t	RS		2	2	2	RB <u>d</u>		1 5 6
$\Rightarrow^{RA}$							State: 3 state type: <sup>s</sup>	
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$ Brn Gto Red LA
t	RS		2	1	3	c		1 4 4
$\Rightarrow^c$							State: 4 state type: <sup>r</sup>	
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$ Brn Gto Red LA
t	RS		2	1	4			1 0 4 1
$\Rightarrow^{RB}$							State: 5 state type: <sup>s</sup>	
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$ Brn Gto Red LA
t	RS		2	2	3	d		1 6 6
$\Rightarrow^d$							State: 6 state type: <sup>r</sup>	
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$ Brn Gto Red LA
t	RS		2	2	4			1 0 6 1
$\Rightarrow^b$							State: 7 state type: <sup>s</sup>	
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$ Brn Gto Red LA
c	RA		3	1	1	f		7 15 15
c	RB		4	1	1	f		7 15 15
t	RS		2	3	2	RA <u>d</u>		1 8 9
t	RS		2	4	2	RB <u>c</u>		1 10 11
$\Rightarrow^{RA}$							State: 8 state type: <sup>s</sup>	
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$ Brn Gto Red LA
t	RS		2	3	3	d		1 9 9
$\Rightarrow^d$							State: 9 state type: <sup>r</sup>	
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$ Brn Gto Red LA
t	RS		2	3	4			1 0 9 1
$\Rightarrow^{RB}$							State: 10 state type: <sup>s</sup>	
$\leftarrow$	rule	$\rightarrow$	R#	sr#	Po	$\leftarrow$	subrule element	$\rightarrow$ Brn Gto Red LA
t	RS		2	4	3	c		1 11 11



**9. Index.**

eog: [3](#).

*LR1\_sp4*: [1](#).

RA: [4](#).

RA: [5](#).

RB: [4](#).

RB: [6](#).

*Rlr1\_sp4*: [3](#).

RS: [3](#).

RS: [4](#).

LR1\_sp4 Grammar

Date: September 16, 2014 at 15:00

File: lr1\_sp4.lex

Ns: NS\_LR1\_sp4

Version: 1.0

Debug: true

Grammar Comments:

Type: Monolithic

test out lr1

	Section	Page
<i>LR1_sp4</i> <b>grammar</b> .....	1	1
Fsm Clr1_sp4_fsm class .....	2	1
<i>Rlr1_sp4</i> rule .....	3	1
RS rule .....	4	1
RA rule .....	5	1
RB rule .....	6	1
<b>First Set Language for <math>O_2^{linker}</math></b> .....	7	2
<b>Lr1 State Network</b> .....	8	3
<b>Index</b> .....	9	5