1. *test_called_thd_fs* **grammar.**
Test out the transience of called threads and native first sets. O_2's ".fsc" file tells the tale. Here's an excerp where Start rule is ϵ caused by Rc. Note the common prefix Ra to see if the transience goes through the called threads and T first set. And so it does:

list-of-native-first-set-terminals 3
LR1_eolr
raw_c
raw_e
end-list-of-native-first-set-terminals
list-of-transitive-threads 3
NSa::THa
NSb::THb
NSd::THd
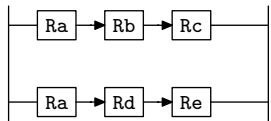end-list-of-transitive-threads

2.   Fsm Ctest_called_thd_fs class.
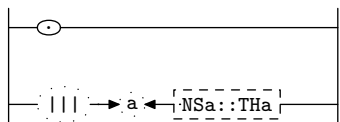
3.   *RSt* rule.
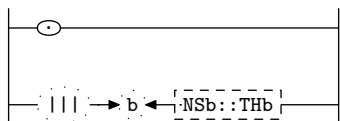
RSt

4.   RS rule.

RS

5.   *Ra* rule.

Ra

6.   *Rb* rule.
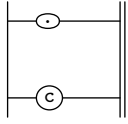
Rb

7.   *Rc* **rule.**

Rc

8.   *Rd* **rule.**

Rd
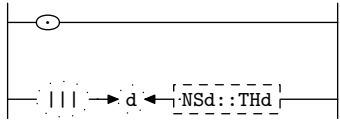
9.   *Re* **rule.**

Re
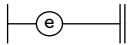
10.   First Set Language for O_2^{linker}.

```
/*
 File: test_called_thd_fs.fsc
 Date and Time: Mon Sep 15 20:09:17 2014
*/
transitive   y
grammar-name "test_called_thd_fs"
name-space   "NS_test_called_thd_fs"
thread-name  "TH_test_called_thd_fs"
monolithic   n
file-name    "test_called_thd_fs.fsc"
no-of-T      569
list-of-native-first-set-terminals 3
    raw_c
    raw_e
    raw_z
end-list-of-native-first-set-terminals
list-of-transitive-threads 3
  NSb::THb
  NSd::THd
  NSa::THa
end-list-of-transitive-threads
list-of-used-threads 3
  NSa::THa
  NSb::THb
  NSd::THd
end-list-of-used-threads
fsm-comments
"test the transience"
```

11.   Lr1 State Network.

$\Rightarrow$ State: 1 state type: $^{s/r}$

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c Ra			3	1	1	ϵ			1	0	1	1
c Ra			3	2	1	||| a NSa::THa			1	2	3	
c RSt			1	1	1	RS			1	4	4	
c RS			2	1	1	Ra $\underline{Rb^\epsilon}$ $\underline{Rc^\epsilon}$ ...			1	5	11	
c RS			2	2	1	Ra $\underline{Rd^\epsilon}$ $\underline{Re}$			1	5	14	

$\Rightarrow$||| State: 2 state type: ^{s}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Ra			3	2	2	a			1	3	3	

$\Rightarrow^{a}$ State: 3 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Ra			3	2	3				1	0	3	1

$\Rightarrow^{RS}$ State: 4 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t RSt			1	1	2				1	0	4	2

$\Rightarrow^{Ra}$ State: 5 state type: $^{s/r^2}$

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c Rd			6	1	1	ϵ			5	0	5	3
c Rb			4	1	1	ϵ			5	0	5	4
c Rd			6	2	1	||| d NSd::THd			5	6	8	
c Rb			4	2	1	||| b NSb::THb			5	6	7	
t RS			2	1	2	Rb $\underline{Rc^\epsilon}$			1	9	11	
t RS			2	2	2	Rd $\underline{Re}$			1	12	14	

$\Rightarrow$||| State: 6 state type: ^{s}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rb			4	2	2	b			5	7	7	
t Rd			6	2	2	d			5	8	8	

$\Rightarrow^{b}$ State: 7 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rb			4	2	3				5	0	7	4

$\Rightarrow^{d}$ State: 8 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
t Rd			6	2	3				5	0	8	3

$\Rightarrow^{Rb}$ State: 9 state type: $^{s/r}$

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA
c Rc			5	1	1	ϵ			9	0	9	2
c Rc			5	2	1	c			9	10	10	
t RS			2	1	3	Rc			1	11	11	

$\Rightarrow^{c}$ State: 10 state type: ^{r}

←	rule	→	R#	sr#	Po	←	subrule element	→	Brn	Gto	Red	LA

t Rc	5	2	2

9   0   10   2

$\Rightarrow^{Rc}$

State: 11 state type: ^{r}

←	rule	→	R#	sr#	Po	←
t RS			2	1	4	

subrule element   → Brn Gto Red LA

1   0   11   2

$\Rightarrow^{Rd}$

State: 12 state type: ^{s}

←	rule	→	R#	sr#	Po	←
c Re			7	1	1	e
t RS			2	2	3	Re

subrule element   → Brn Gto Red LA

12   13   13
1   14   14

$\Rightarrow^{e}$

State: 13 state type: ^{r}

←	rule	→	R#	sr#	Po	←
t Re			7	1	2	

subrule element   → Brn Gto Red LA

12   0   13   2

$\Rightarrow^{Re}$

State: 14 state type: ^{r}

←	rule	→	R#	sr#	Po	←
t RS			2	2	4	

subrule element   → Brn Gto Red LA

1   0   14   2

12.   Index.

test_called_thd_fs Grammar

Date: September 16, 2014 at 15:02

File: test_called_thd_fs.lex   Ns: NS_test_called_thd_fs

Version: 1.0   Debug: true

Grammar Comments: Type: Thread

test the transience

1 element(s) in Lookahead Expression below

z