

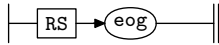
1. knu2 Grammar.

Test out (25) grammar from Knuth's paper: "On the Translation of languages from left to right" from Information and control, vol. 8 of 6, pages 607-639, 1965.

2. Fsm Cknu2 class.

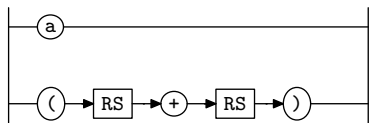
3. Rstart rule.

Rstart



4. RS rule.

RS



2 FIRST SET LANGUAGE FOR O_2^{linker}

knu2 Grammar §5

5. **First Set Language for O_2^{linker} .**
true

6. Lr1 State Network.

⇒						State: 1 state type: ^s		
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
c	RS		2	2	1	(1 2 6
c	RS		2	1	1	a		1 7 7
c	Rstart		1	1	1	RS <u>eog</u>		1 8 9
⇒(State: 2 state type: ^s	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
c	RS		2	2	1	(2 2 6
c	RS		2	1	1	a		2 7 7
t	RS		2	2	2	RS <u>±</u>		1 3 6
⇒RS							State: 3 state type: ^s	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t	RS		2	2	3	+		1 4 6
⇒+							State: 4 state type: ^s	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
c	RS		2	2	1	(4 2 6
c	RS		2	1	1	a		4 7 7
t	RS		2	2	4	RS <u>)</u>		1 5 6
⇒RS							State: 5 state type: ^s	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t	RS		2	2	5)		1 6 6
⇒)							State: 6 state type: ^r	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t	RS		2	2	6			1 0 6 1
⇒ ^a							State: 7 state type: ^r	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t	RS		2	1	2			1 0 7 1
⇒RS							State: 8 state type: ^s	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t	Rstart		1	1	2	eog		1 9 9
⇒ ^{eog}							State: 9 state type: ^r	
←	rule	→	R#	sr#	Po	←	subrule element	→ Brn Gto Red LA
t	Rstart		1	1	3			1 0 9 2

7. Index.

eog: [3](#).

knu2: [1](#).

RS: [3](#), [4](#).

RS: [4](#).

Rstart: [3](#).

knu2 Grammar

Date: September 16, 2014 at 14:59

File: knu2.lex

Ns: NS_knu2

Version: 1.0

Debug: true

Grammar Comments:

Type: Monolithic

knuth grammar (25)

	Section	Page
<i>knu2</i> Grammar	1	1
Fsm Cknu2 class	2	1
<i>Rstart</i> rule	3	1
RS rule	4	1
First Set Language for O_2^{linker}	5	2
Lr1 State Network	6	3
Index	7	4