

Regular Expressions and Transition Diagram for PLATYPUS (string literals not included)

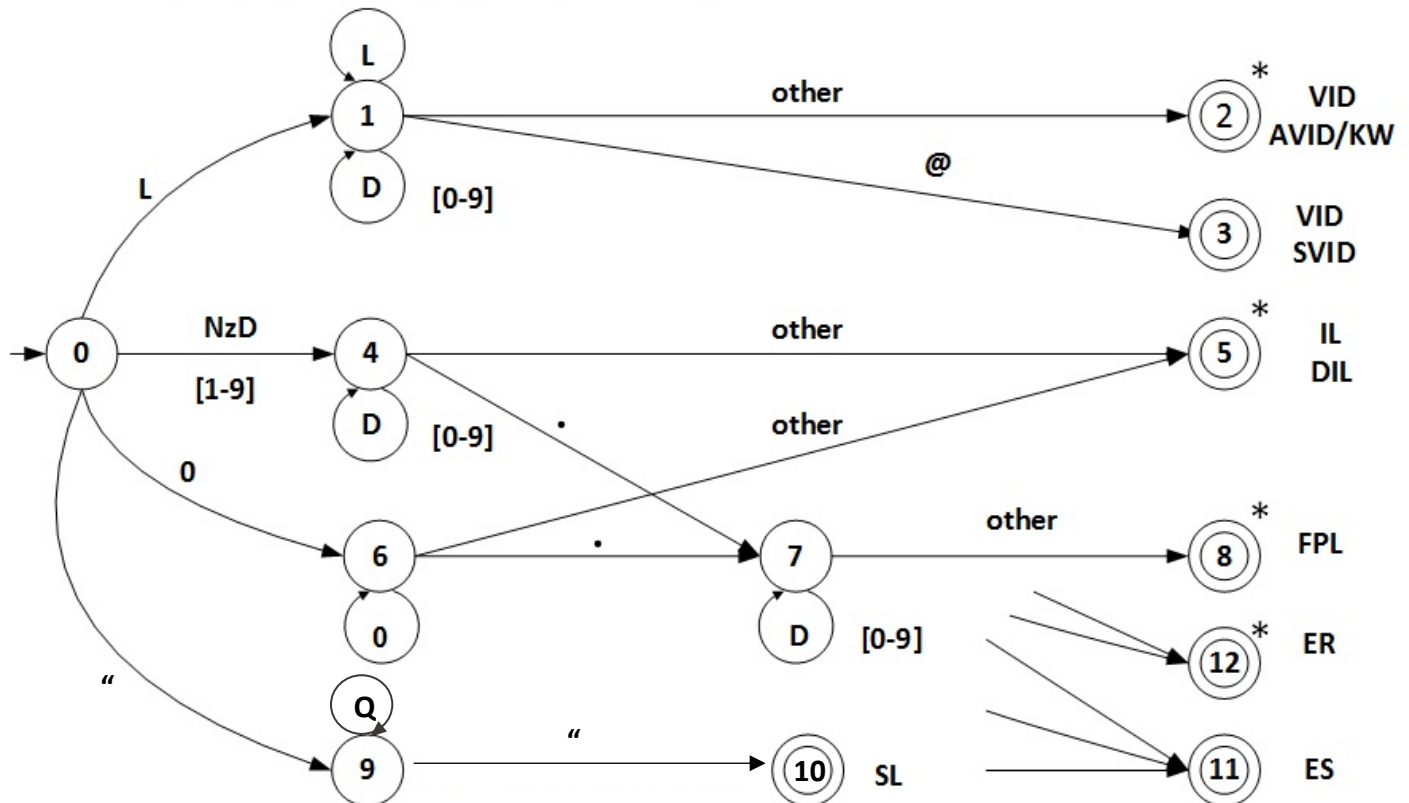
VID = AVID | SVID AVID = L (L | D)* SVID = AVID@ L = [a-zA-Z] D = [0-9]

IL = DIL DIL = ZDS | NzDD* NzD = [1-9] ZDS = 0⁺

FPL = DIL.D* = (ZDS | NzDD*).D*

SL = "Q"

Q = [^"SEOF]*



Transition Table

| Current State | INPUT SYMBOL | | | | | | | | State Type (Not Accepting or Accepting State) |
|---------------|--------------|----|-------|----|----|----|------|-------|--------------------------------------------------|
| | [a-zA-z] | 0 | [1-9] | . | @ | “ | SEOF | other | |
| 0 | 1 | 6 | 4 | ES | ES | 9 | ER | ES | NOAS |
| 1 | 1 | 1 | 1 | 2 | 3 | 2 | 2 | 2 | NOAS |
| 2 | IS | IS | IS | IS | IS | IS | IS | IS | VID AVID/KW - ASWR |
| 3 | IS | IS | IS | IS | IS | IS | IS | IS | VID SVID - ASNR |
| 4 | ES | 4 | 4 | 7 | 5 | 5 | 5 | 5 | NOAS |
| 5 | IS | IS | IS | IS | IS | IS | IS | IS | DIL - ASWR |
| 6 | ES | 6 | ES | 7 | ES | 5 | 5 | 5 | NOAS |
| 7 | 8 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | NOAS |
| 8 | IS | IS | IS | IS | IS | IS | IS | IS | FPL - ASWR |
| 9 | 9 | 9 | 9 | 9 | 9 | 10 | ER | 9 | NOAS |
| 10 | IS | IS | IS | IS | IS | IS | IS | IS | SL – ASNR |
| 11 | IS | IS | IS | IS | IS | IS | IS | IS | ES - ASNR |
| 12 | IS | IS | IS | IS | IS | IS | IS | IS | ER - ASWR |
| 13 | | | | | | | | | Reserved for future use |

IS – Illegal State

ES – Error State

ES/AS – Error State or Accepting State

NOAS – Not Accepting State

ER – Error State with Retract

ASWR - Accepting State With Retract ASNR - Accepting State No Retract