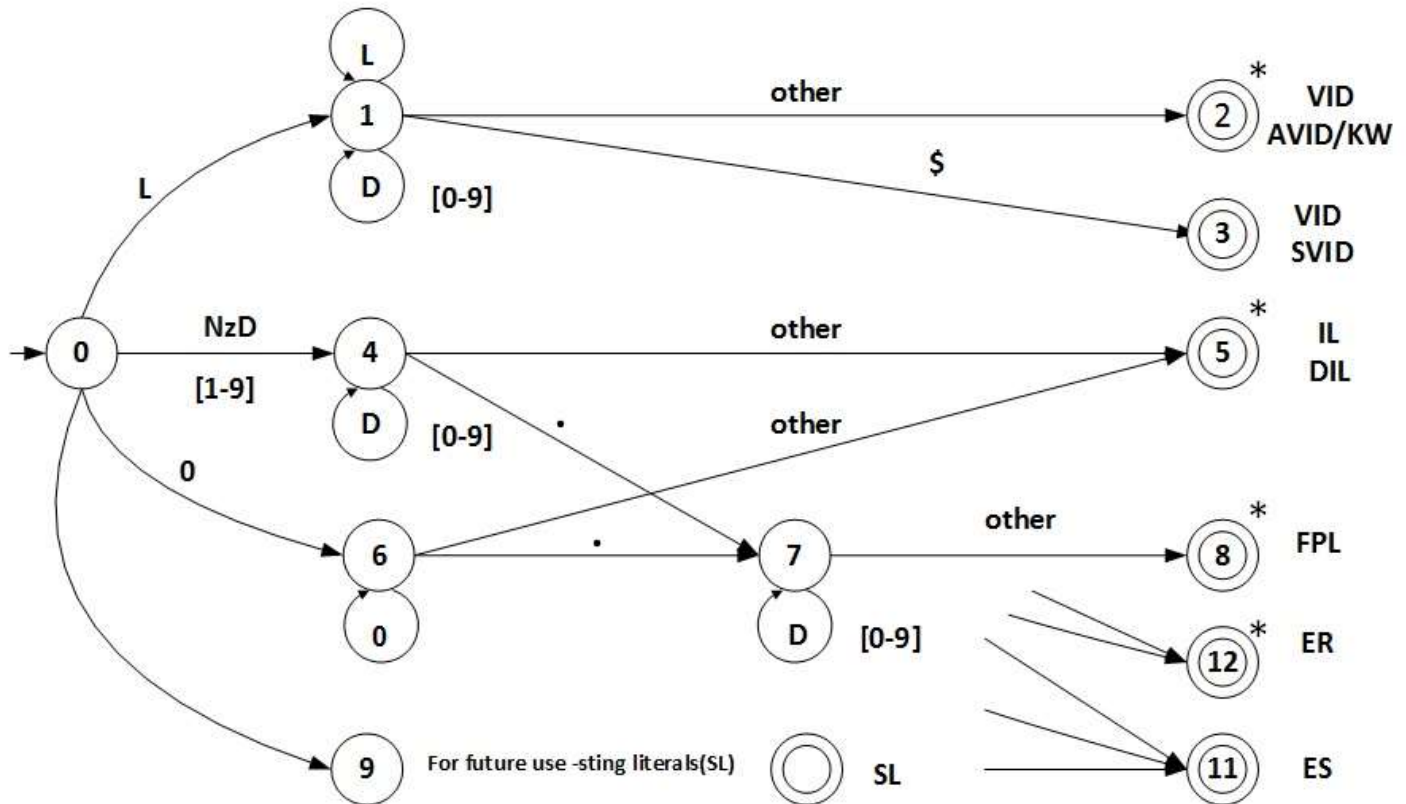


## Regular Expressions and Transition Diagram for PLATYPUS (string literals not included)

$VID = AVID \mid SVID$      $AVID = L (L \mid D)^*$      $SVID = AVID\$$      $L = [a-zA-Z]$      $D = [0-9]$   
 $IL = DIL$      $DIL = ZDS \mid NzDD^*$      $NzD = [1-9]$      $ZDS = 0^+$   
 $FPL = DIL.D^* = (ZDS \mid NzDD^*).D^*$      $SL =$



**Transition Table**

Current State	INPUT SYMBOL						State Type (Not Accepting or Accepting State)
	[a-zA-z]	0	[1-9]	.	\$	other	
0	1	6	4	ES	ES	ES	NOAS
1	1	1	1	ES/AS2	3	2	NOAS
2	IS	IS	IS	IS	IS	IS	VID AVID/KW - ASWR
3	IS	IS	IS	IS	IS	IS	VID SVID - ASNR
4	ES/AS5	4	4	7	5	5	NOAS
5	IS	IS	IS	IS	IS	IS	DIL - ASWR
6				7	ES/AS5	5	NOAS
7	ES/AS8	7	7	ES/AS8	8	8	NOAS
8	IS	IS	IS	IS	IS	IS	FPL - ASWR
9							NOAS
10							
11	IS	IS	IS	IS	IS	IS	ES - ASNR
12	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 **R**etract  
 ASWR - Accepting State With **R**etract    ASNR - Accepting State No **R**etract