

The following is the auxiliary grammar (G'), as per Bermudez and Logothetis 1989:

Auxiliary Grammar

$$E_0 \rightarrow E_0 E_1 p$$

$$| E_0 E_1 m$$

$$| E_0 E_1 t$$

$$| E_0 E_1 d$$

$$| id .$$

$$E_1 \rightarrow E_1 E_3 p$$

$$| E_1 E_3 m$$

$$| E_1 E_3 t$$

$$| E_1 E_3 d$$

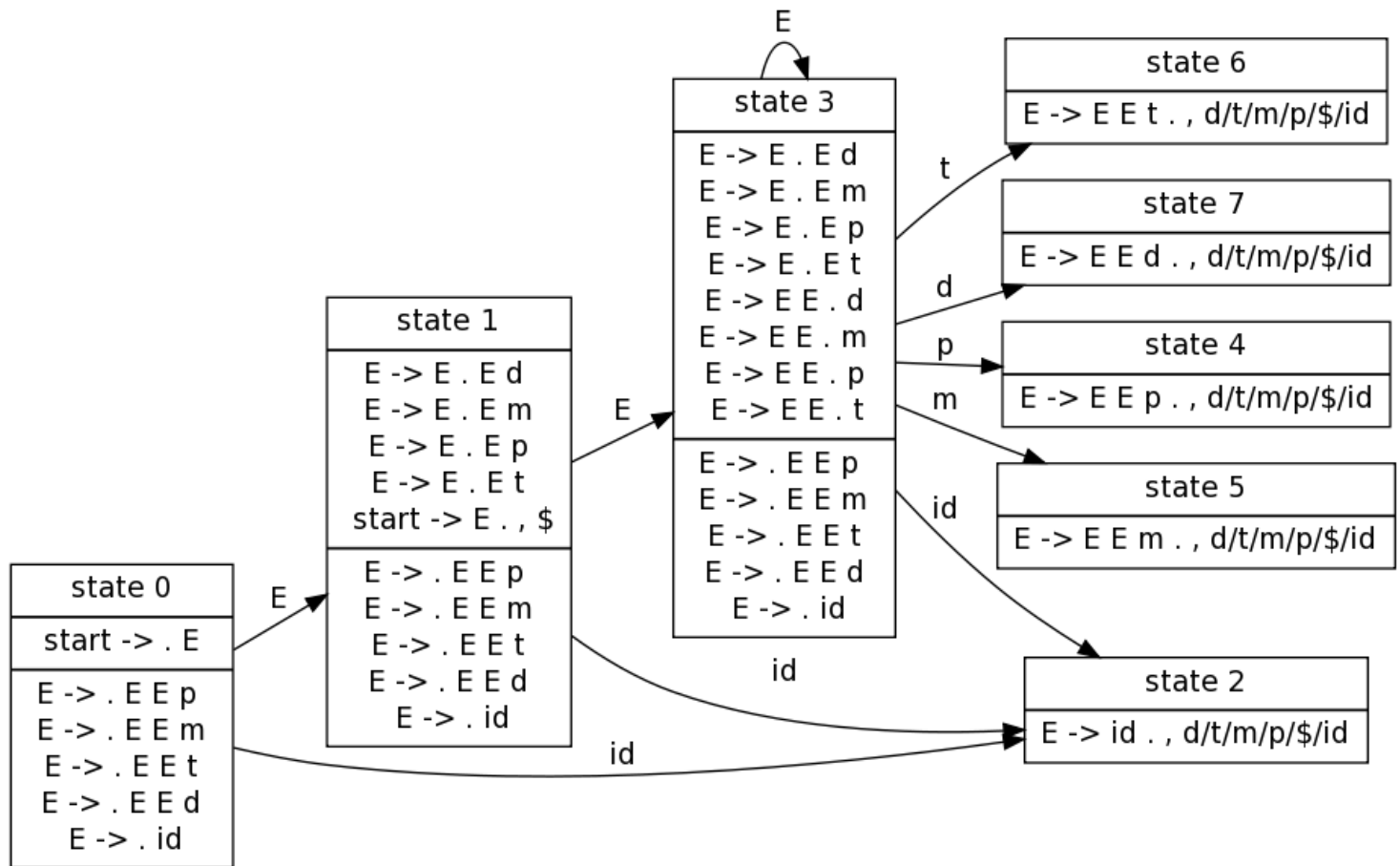
$$| id .$$

$$E_3 \rightarrow E_3 E_3 p$$

$$| E_3 E_3 m$$

$$| E_3 E_3 t$$

$$| E_3 E_3 d$$

$$| id .$$


Grammar

$$E \rightarrow E E p$$

$$| E E m$$

$$| E E t$$

$$| E E d$$

$$| id .$$

LALR(1) Table

	\$	id	d	t	m	p	E
0		s2					s1
1	acc	s2					s3
2	r(E → id)	r(E → id)	r(E → id)	r(E → id)	r(E → id)	r(E → id)	
3		s2	s7	s6	s5	s4	s3
4	r(E → E E p)	r(E → E E p)	r(E → E E p)	r(E → E E p)	r(E → E E p)	r(E → E E p)	
5	r(E → E E m)	r(E → E E m)	r(E → E E m)	r(E → E E m)	r(E → E E m)	r(E → E E m)	
6	r(E → E E t)	r(E → E E t)	r(E → E E t)	r(E → E E t)	r(E → E E t)	r(E → E E t)	

7	$r(E \rightarrow E E d)$	$r(E \rightarrow E E d)$	$r(E \rightarrow E E d)$	$r(E \rightarrow E E d)$	$r(E \rightarrow E E d)$	$r(E \rightarrow E E d)$	
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It is LALR(1).

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