



formulas for glue box:

$$S = (S \wedge \bar{g}) \vee (T \wedge g)$$

$$T = (S \wedge \bar{p}) \vee (T \wedge p)$$

$$P = g \vee (p \wedge \bar{p}^R)$$

$$g = g \vee (p \wedge g^R)$$

S is what larger box produces if there is no carry in;  
 T is what it produces if there IS carry in;  
 note that  $g \rightarrow p$

$\leftarrow C_{in}$