

gp4:  $pout = \&pin$

$$gent = gin[3] | pin[3] gin[2] | pin[3] pin[2] gin[1] |$$

$$| pin[3] pin[2] pin[1] gin[0]$$

$$cout[0] = (gin[0] | pin[0]) cin$$

$$cout[1] = (gin[1] | pin[1] gin[0]) | (pin[1] pin[0] cin)$$

$$cout[2] = (gin[2] | pin[2] gin[1] | pin[2] pin[1] gin[0]$$

$$| pin[2] pin[1] pin[0] cin)$$

