Carry Chain Adder (1A)

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G and P

Generate
$$g(i) = 1$$
 If $x(i) + y(i) > B - 1$

0 otherwise

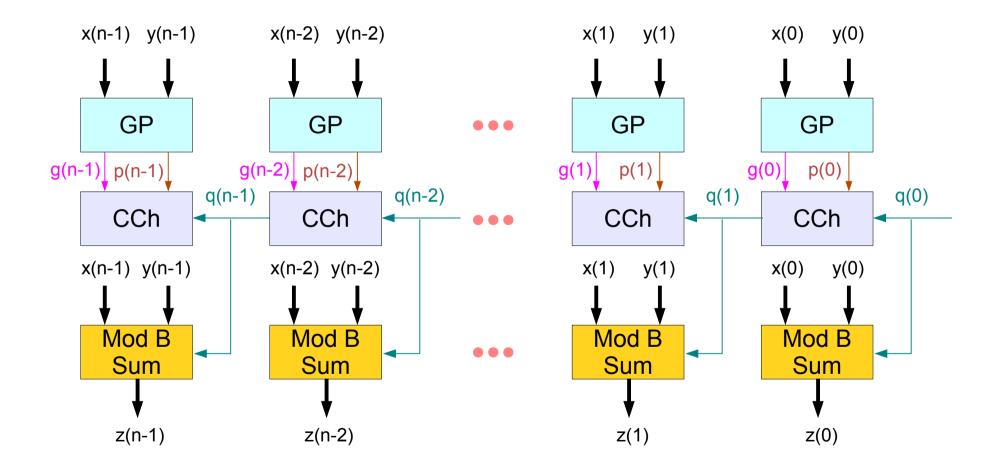
Propagate
$$p(i) = 1$$
 If $x(i) + y(i) = B - 1$

0 otherwise

Carry Chain

$$q(i+1) = q(i)$$
 when $p(i) = 1$ Propagate
$$= g(i)$$
 otherwise Generate

Carry Chain Adder



Angle

References

- [1] http://en.wikipedia.org/
- [2] J-P Deschamps, et. al., "Sunthesis of Arithmetic Circuits", 2006