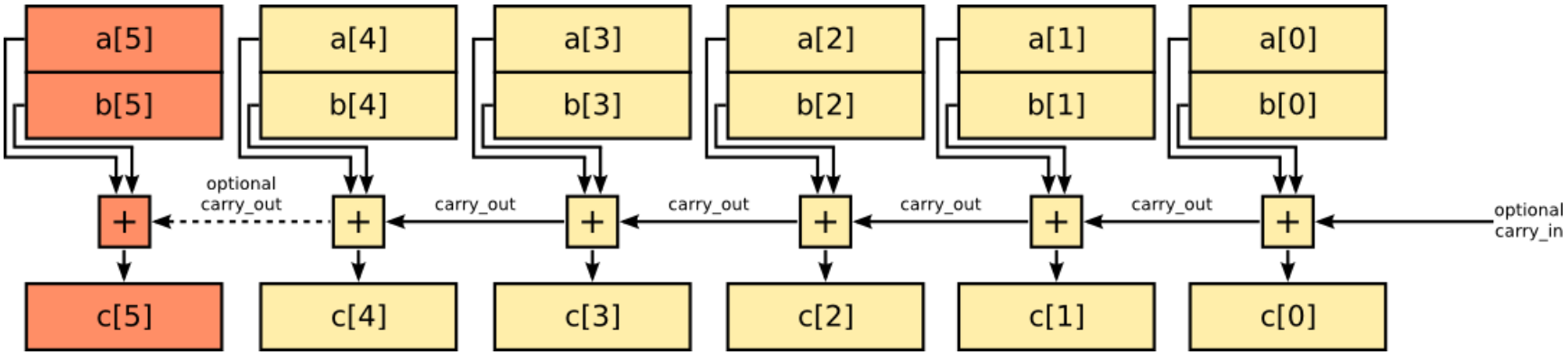
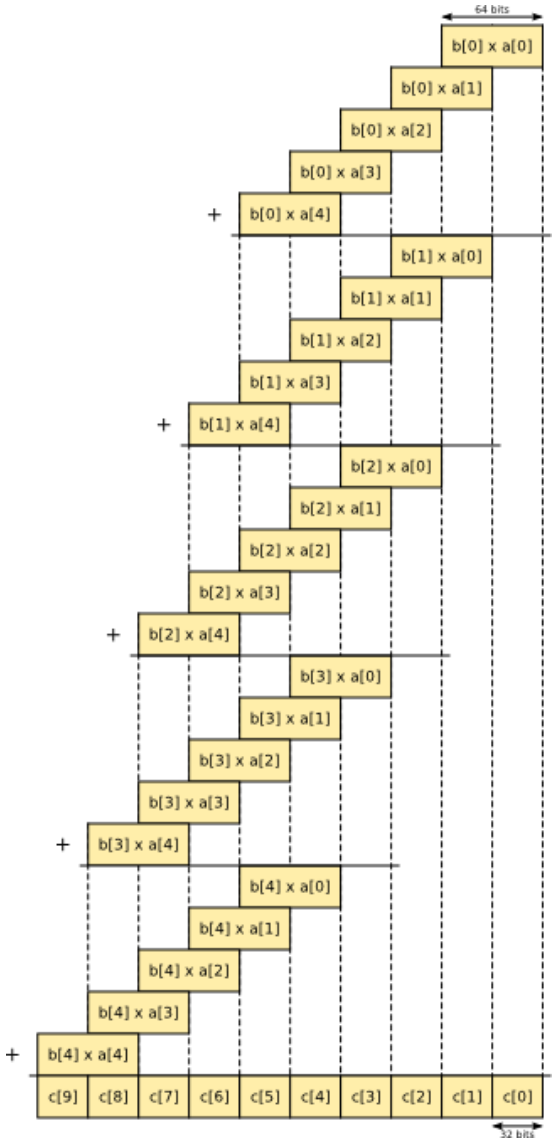
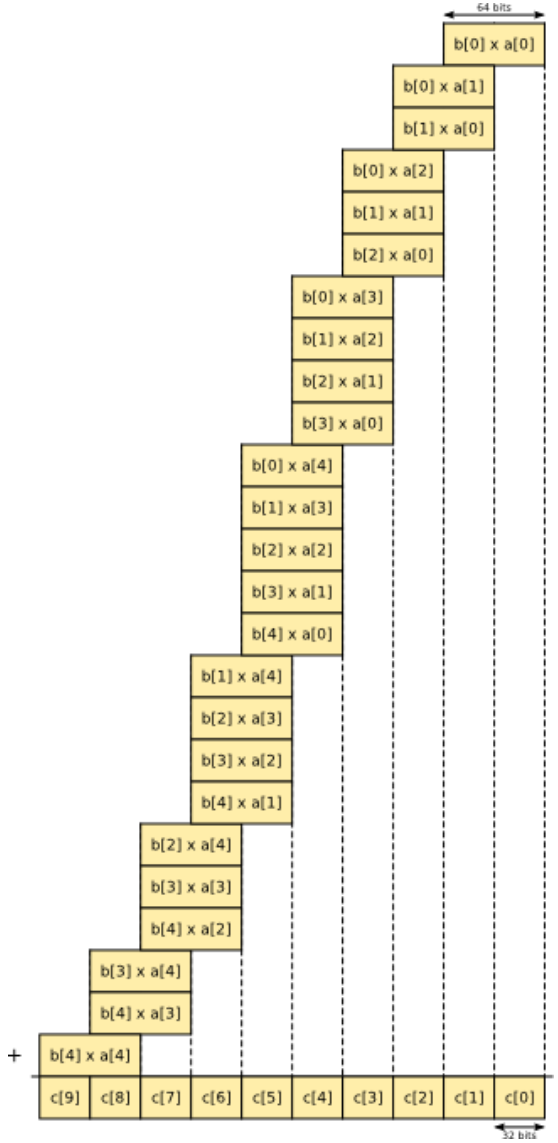
Addition / Subtraction

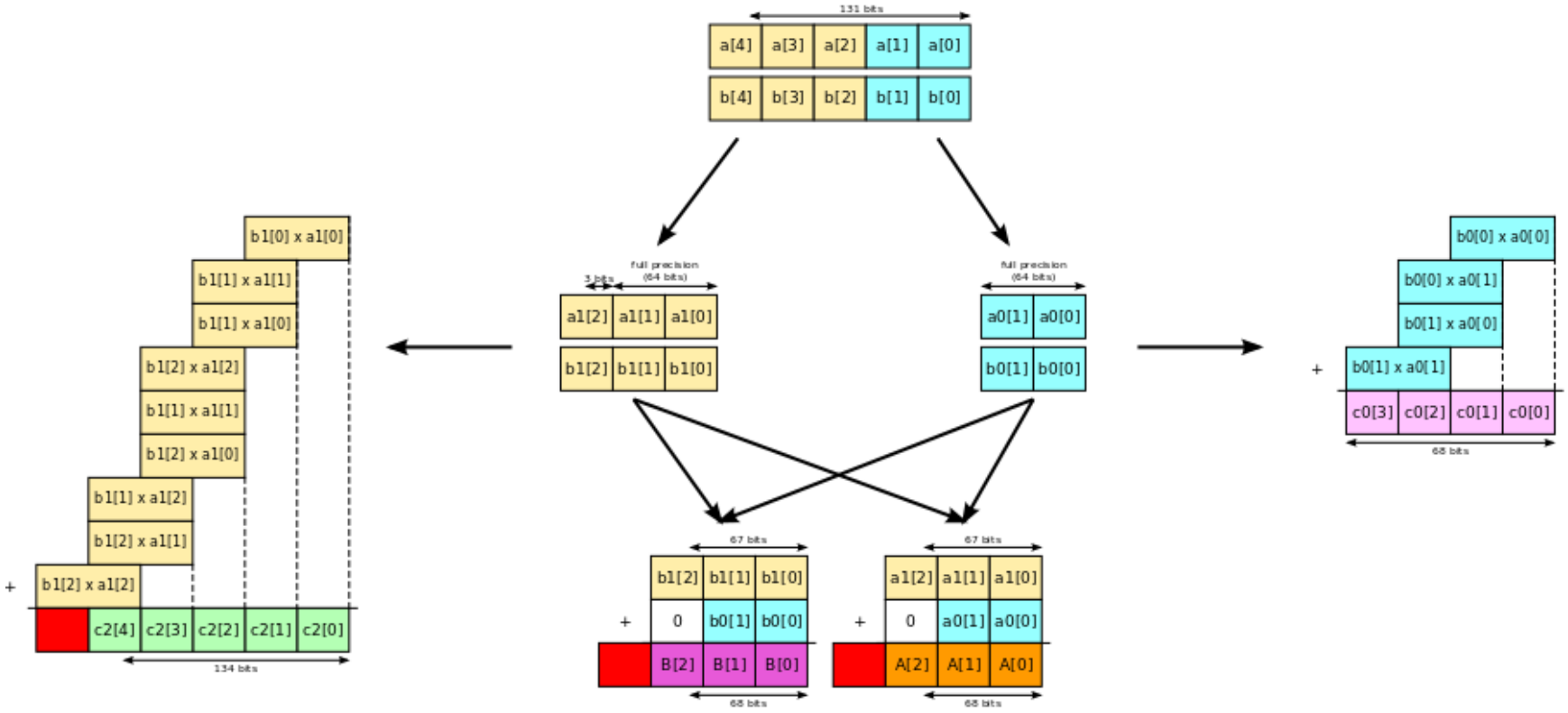


Multiplication

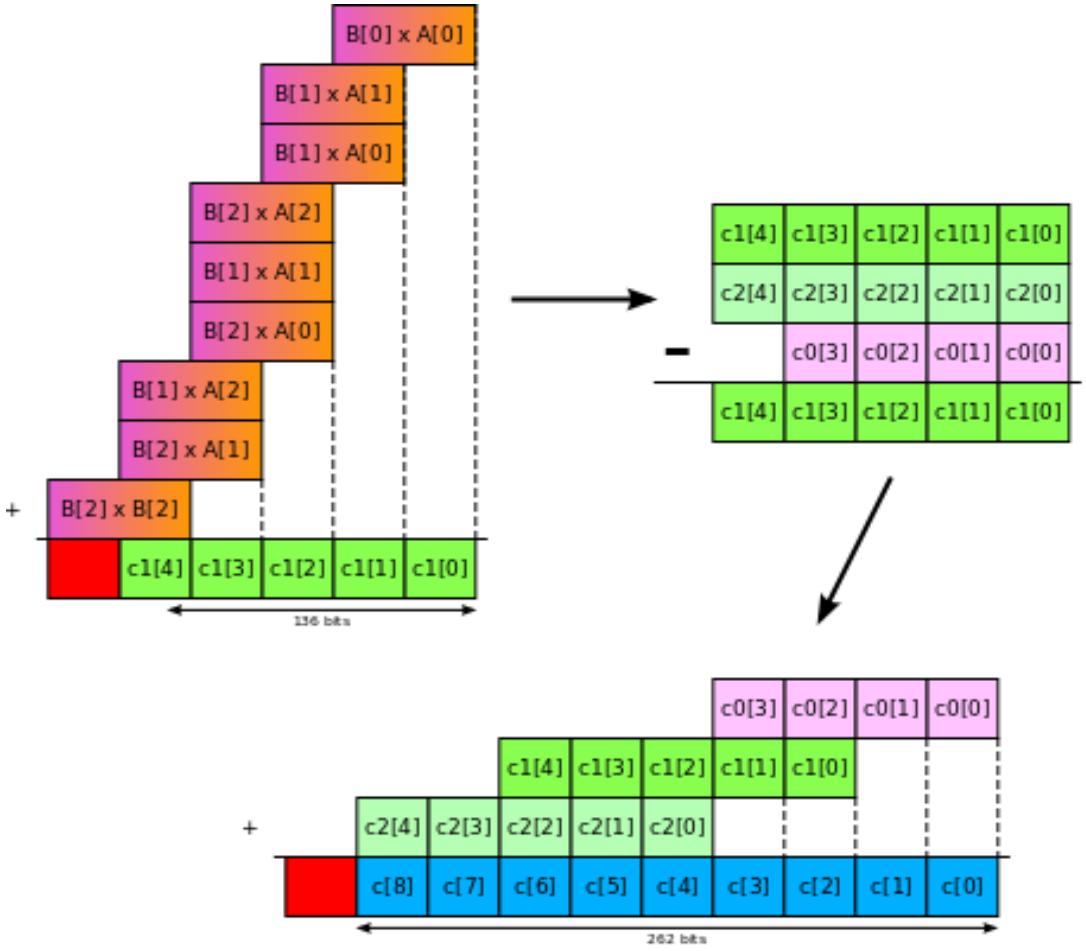




Karatsuba Multiplication (1)

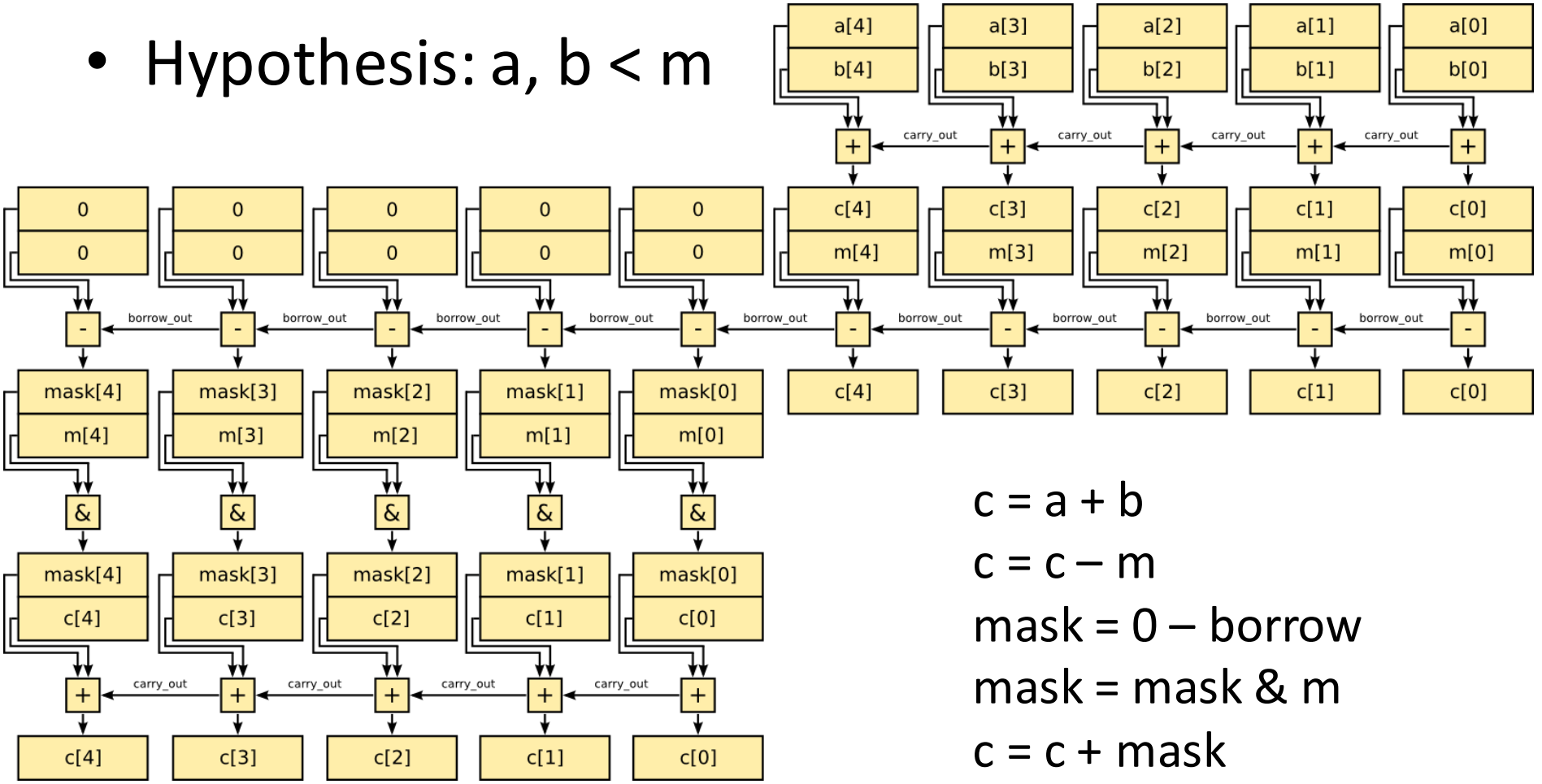


Karatsuba Multiplication (2)



Modular Addition

- Hypothesis: a, b < m



c = a + b

c = c – m

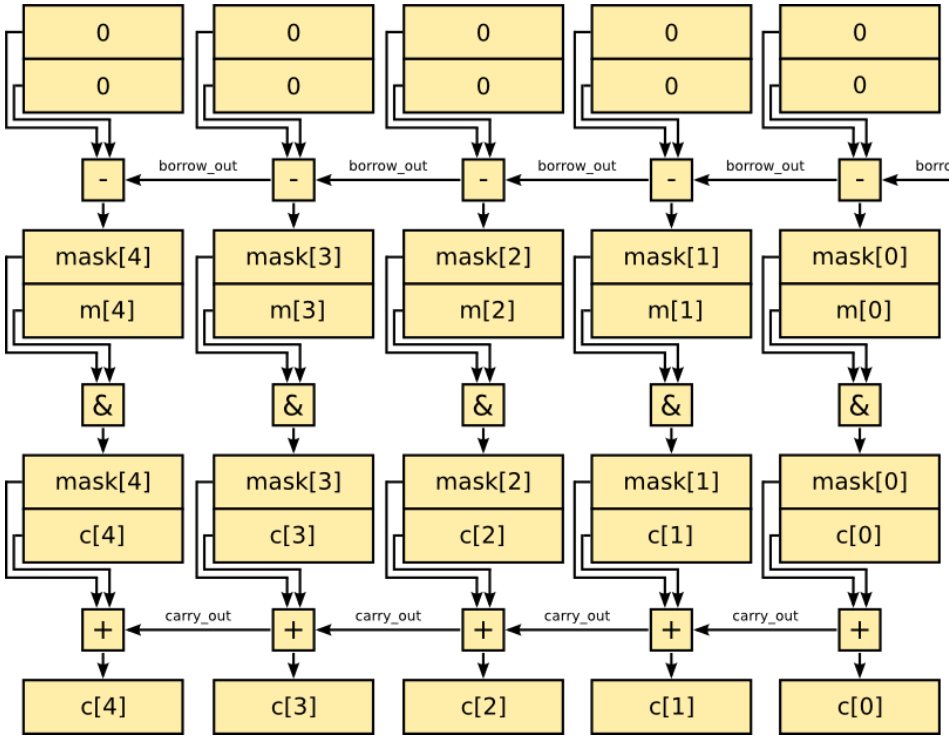
mask = 0 – borrow

mask = mask & m

c = c + mask

Modular Subtraction

- Similar to modular addition
- Hypothesis: a, b < m



c = a – b

mask = 0 – borrow

mask = mask & m

c = c + mask