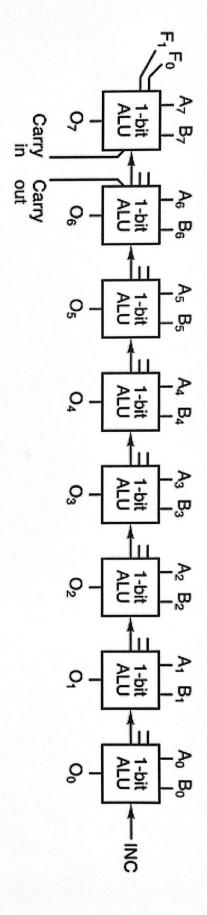


Figure 3-18. A 1-bit ALU.



ables and invert signals are not shown for simplicity. Figure 3-19. Eight 1-bit ALU slices connected to make an 8-bit ALU. The en-

+ For logic calculation (AB, A+B, B): stable output after pd x8 = < 128 x8 = 224 ns 32 x 8 = 256 ms

+ For arithmetic addition: for the 1st A, B, bit: 32 ms
for bit John A, B, > A+ B. : 32+28 = 60 ms

way for carry in (assume calculation of carry in and sum over not parallel

-> Stable output after: 60x7+82=452ns