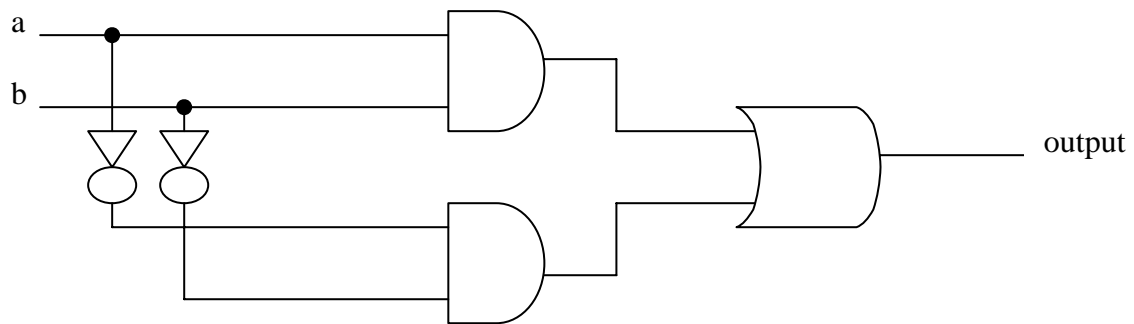


轉學考題 計算機概論 三年級

1. What is Hyper-thread? How can it work?
2. What are the differences between the pipeline and the super-scale?
3. Sketch the truth table according the following circuit. What is the major function of the following circuit?



4. Design a 1-bit subtraction circuit that subtracts two bits (x_i, y_i) with an old borrow (b_i), setting an output bit (s_i) and a new borrow (b_{i+1})
5. Suppose that we have a disk with the following physical characteristics:
Rotation Speed: 7,200 rev/min; R/W head movement time: 0.01 ms to move to an adjacent track
Number of tracks/surface: 1000; Number of sectors/track: 64; Number of bytes/sector: 1,024
What are the best-case, worst-case, and average case access time of 1K bytes?
6. Suppose the CPU would like to add the data 1 to the memory location with address 1FA6. Please explain what the operations would be processed?
7. How can an assembler convert the assembly codes to binary codes?
8. What are the major purposes of the MAC address and IP address?