## 第三章作业

### 3-18

Assume that the frame size is .

Efficiency of stop-and wait would be , substitute the transmission delay , we have .

So, when the frame size is equal to or bigger than , stop-and-wait give an efficiency of at least .

### 3-30

Transmission delay

The maximum window size here is upper integer for , which means for window sizes of 15 and 127, the throughput would be .

For window size of 1, the throughput is

For window size of 7, the throughput is