7. DNS → IP: $\sum\limits_{i=1}^{n} RTT_i$

然后 一次发送, 一次接收

∴ 总时间: $RTT_0 + \sum\limits_{i=0}^{n} RTT_i$

8.
a. $\sum\limits_{i=1}^{n} RTT_i + 2RTT_0 + 2 \times 8 RTT_0$

  $= 18 RTT_0 + \sum\limits_{i=1}^{n} RTT_i$

b. $\sum\limits_{i=1}^{n} RTT_i + 2RTT_0 + 2 \times 2 RTT_0$

  $= 6 RTT_0 + \sum\limits_{i=1}^{n} RTT_i$

c. 串行: $\sum\limits_{i=1}^{n} RTT_i + 2RTT_0 + 8 RTT_0$

  $= \sum\limits_{i=1}^{n} RTT_i + 10 RTT_0$

  并行: $\sum\limits_{i=1}^{n} RTT_i + 2RTT_0 + RTT_0$

  $= \sum\limits_{i=1}^{n} RTT_i + 3 RTT_0$

22. 客户 — 服务器: $T = \max\{NF/u_s, F/d_i\}$

T/N U	10	100	1000
300 Kbps	10240	68266.7	682666.7
700 Kbps	10240	68266.7	682666.7
2 mbps	10240	68266.7	682666.7

P2P: $T = \max\{F/u_s, F/d_i, NF/(u_s + \sum\limits_{i=1}^{N} u_i)\}$

T/N U	10	100	1000
300 Kbps	10240	34538.7	63412
700 Kbps	10240	20821.3	28700
2 mbps	10240	10240	10240

25. n个节点, 有 $\dfrac{N(N-1)}{2}$ 条边

27. a. 混合 所以要n个   b. 要2n个