计算机系统结构作业六

- **1. (10.7)** 在基于总线的小型多处理器系统上,采用写直达 Cache。将图 10.6 与 10.7 中的基于监听 Cache 一致性协议改为写直达 Cache,且采用不按写分配。画 出状态转换图。
- **2.** Suppose there is a 3-state protocol for write back cache. The states include (1) Modified (one-cache, dirty); (2) Shared (possibly many caches, clean); and (3) Invalid (no caches). You will be modifying the 3-state protocol by splitting the Shared state into two states: Shared, which is a shared, clean state; and Exclusive, which is a private, clean state.
- 1) Draw the 4-state protocol diagrams
- 2) Describe why the split provides performance benefit.