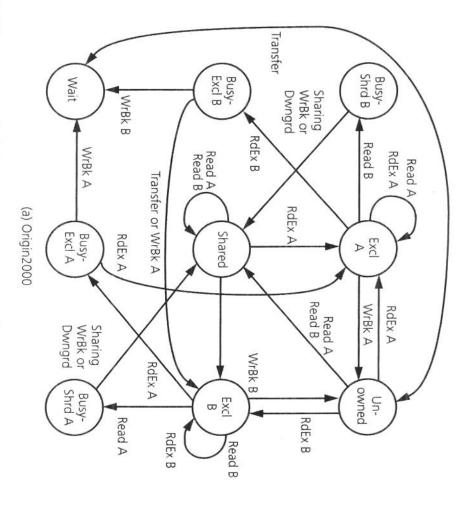
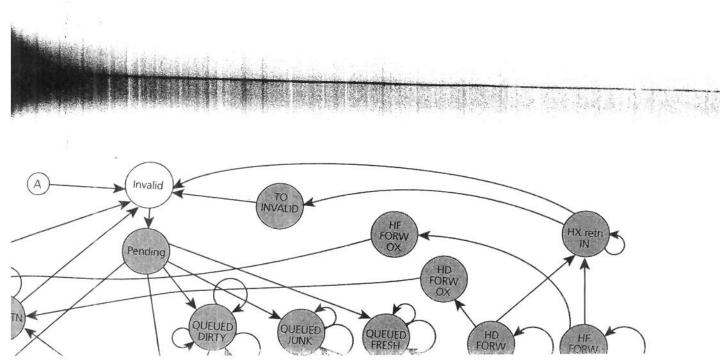


Expanded directory state diagrams for the case study multiprocessors of this chapter FIGURE 8.42

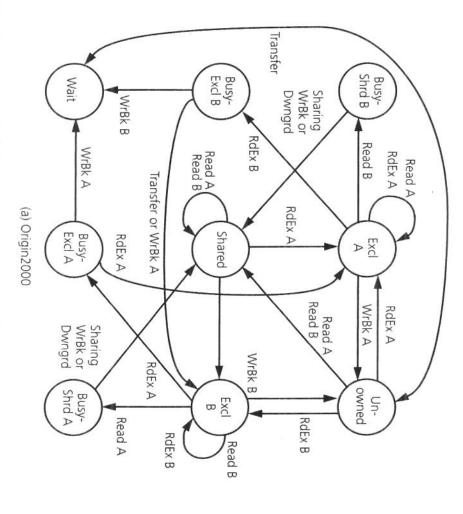
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grams can become quite complex in real systems diagram and several of the state labels are not explained; the purpose of this diagram is not to convey the complete protocol but simply to show that full-blown state transition diaoperation from node B. The transfer operation and the wait state are used to handle write B are shown. For example, a state labeled "Excl A" means that the directory thinks the and several race conditions. To show the use of busy states, accesses from two nodes A and shows the busy states at the directory but leaves out I/O operations, the poisoned state, sors of this chapter. The state diagram for the SGI Origin2000 in (a) is quite simplified: it more complete, though it also excludes a few corner cases. The arcs are not labeled in this backs, as described in the text. The state diagram for the Sequent NUMA-Q in (b) is much block is in exclusive state in node A, and an arc labeled "RdEx B" indicates a read-exclusive FIGURE 8.42 Expanded directory state diagrams for the case study multiproces-



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