

Appendix E

UM Benchmark Results

This appendix presents a number of figures that complete the graphs presented during the simulation execution analysis in chapter 6. All of the figures in this appendix show the same overall pattern as those in the main body of this thesis, but the time scales are larger/smaller depending on the platform's processing power.

The complementing charts for Figure 6.23 may be found in Figure E.1 and Figure E.2.

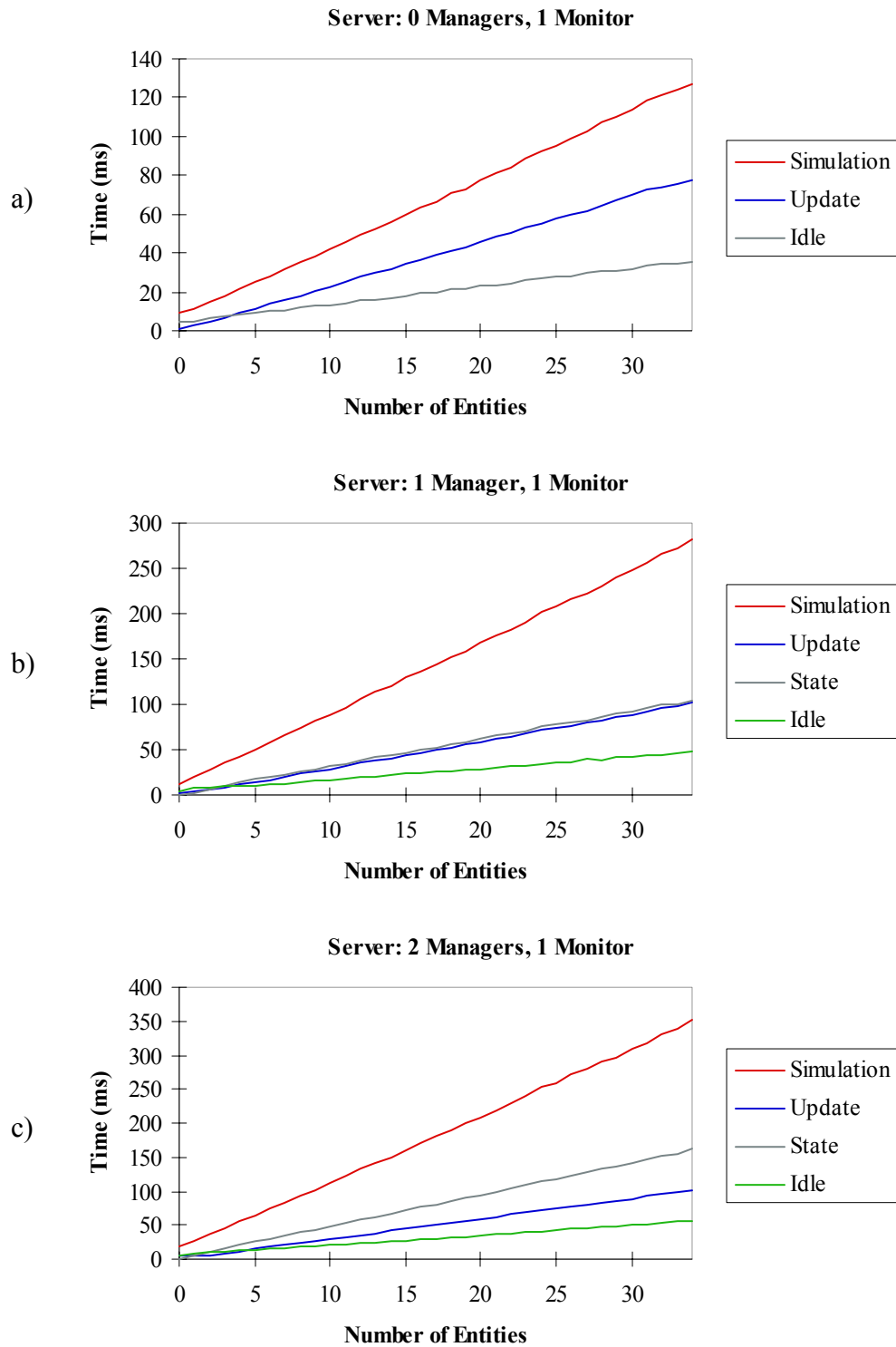


Figure E.1 Activity breakdown of a UM when there is one monitored component and: a) no managers; b) 1 manager; c) 2 managers (Server).

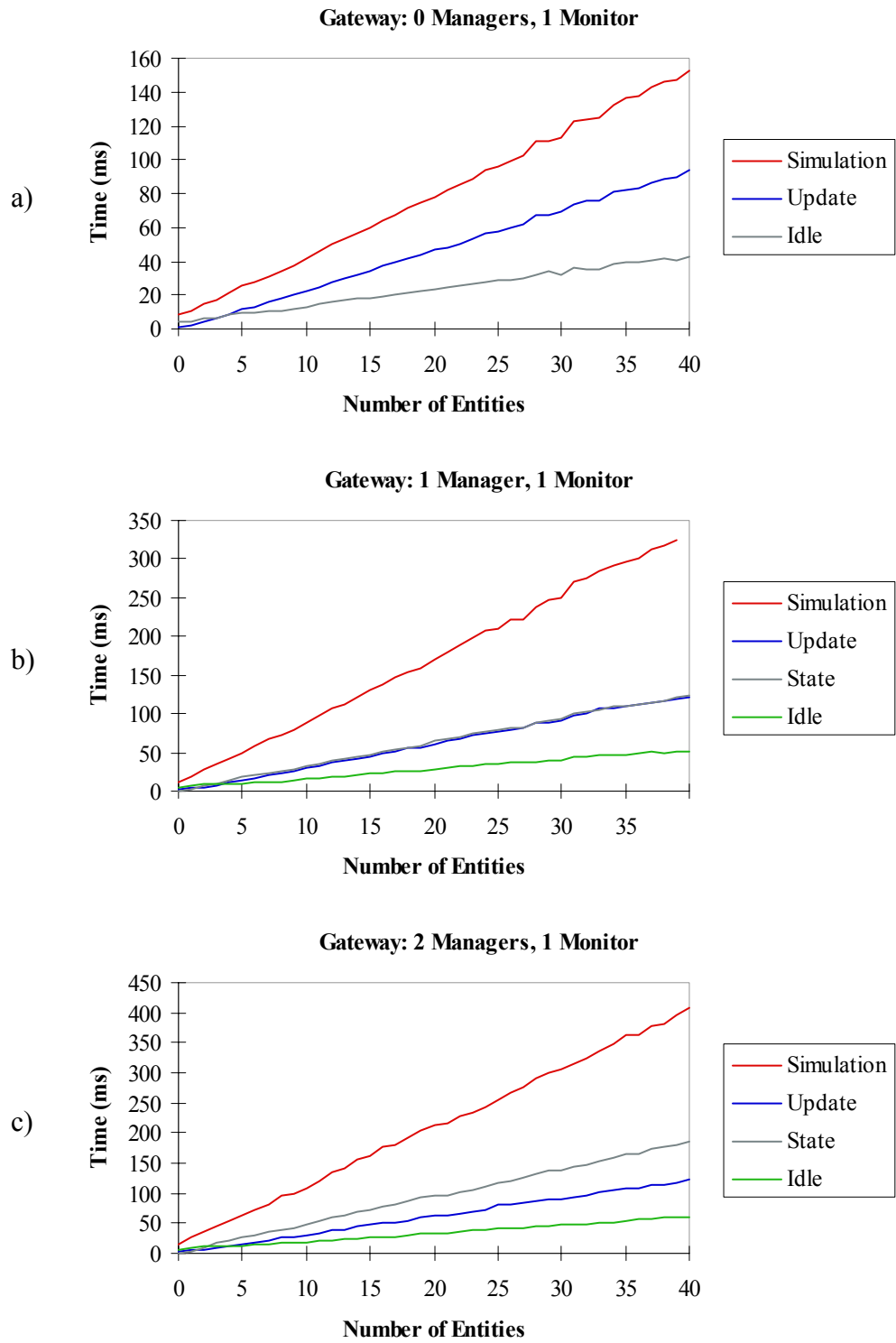


Figure E.2 Activity breakdown of a UM when there is one monitored component and: a) no managers; b) 1 manager; c) 2 managers (Server).

The charts for Server and Gateway that complement Figure 6.24 may be found in Figure E.3 and Figure E.4.

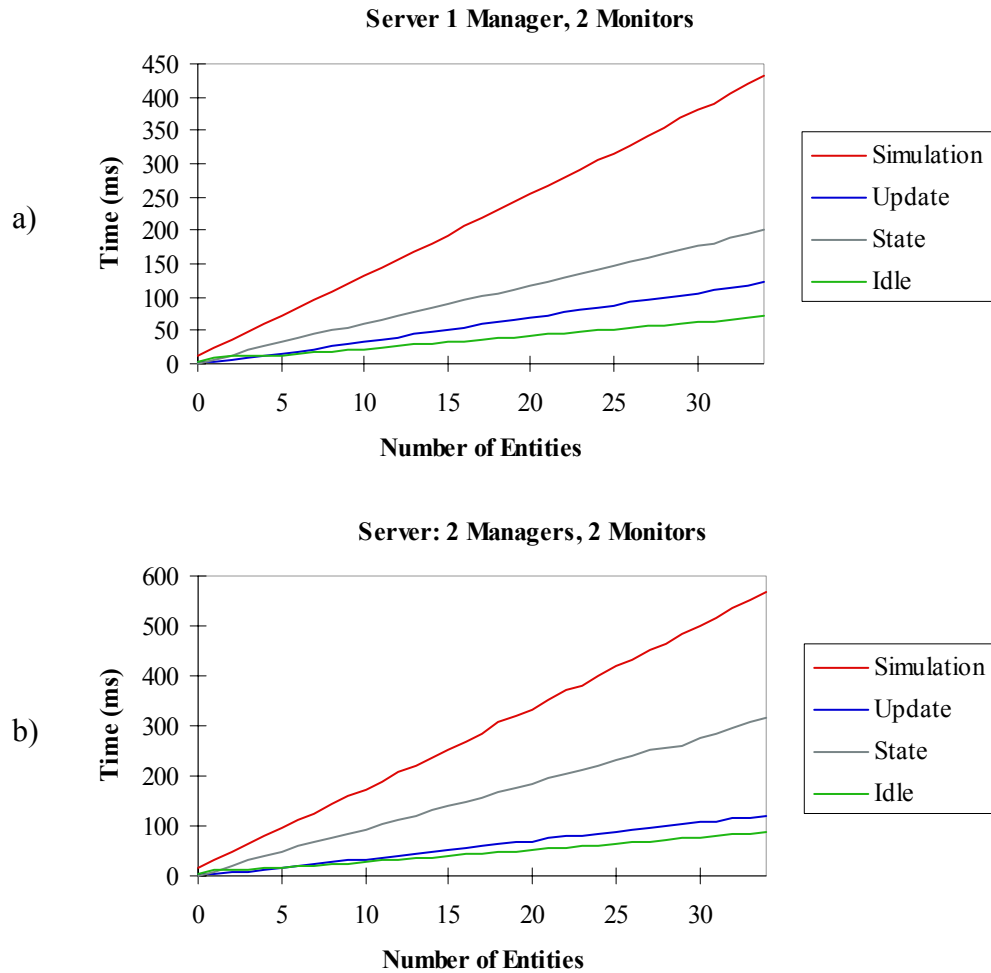


Figure E.3 Activity breakdown of a UM when there are two monitored components and: a) 1 manager; b) 2 managers (Server).

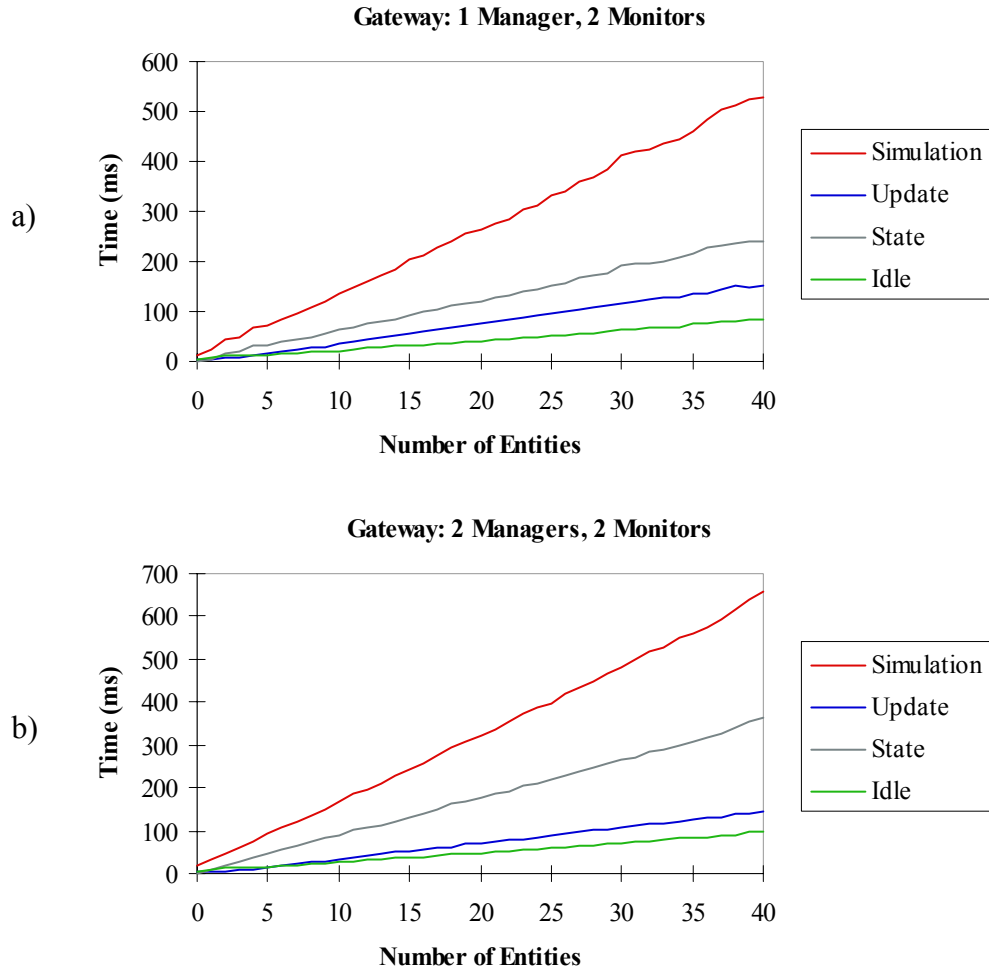


Figure E.4 Activity breakdown of a UM when there are two monitored components and: a) 1 manager; b) 2 managers (Server).

The complementary charts for Figure 6.25 may be found in Figure E.5 and Figure E.6.

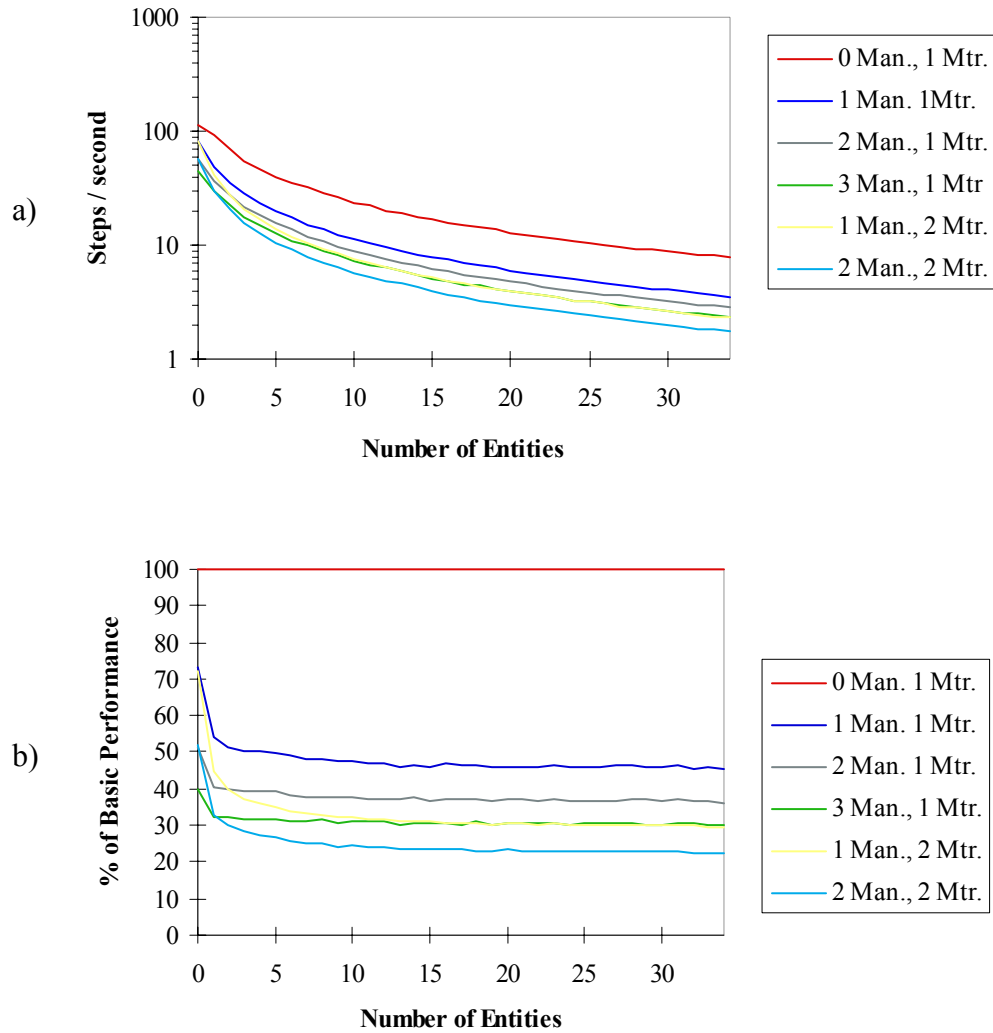


Figure E.5 Effects of various factors on simulation rate: a) steps per second; b) percentage of basic performance (Server).

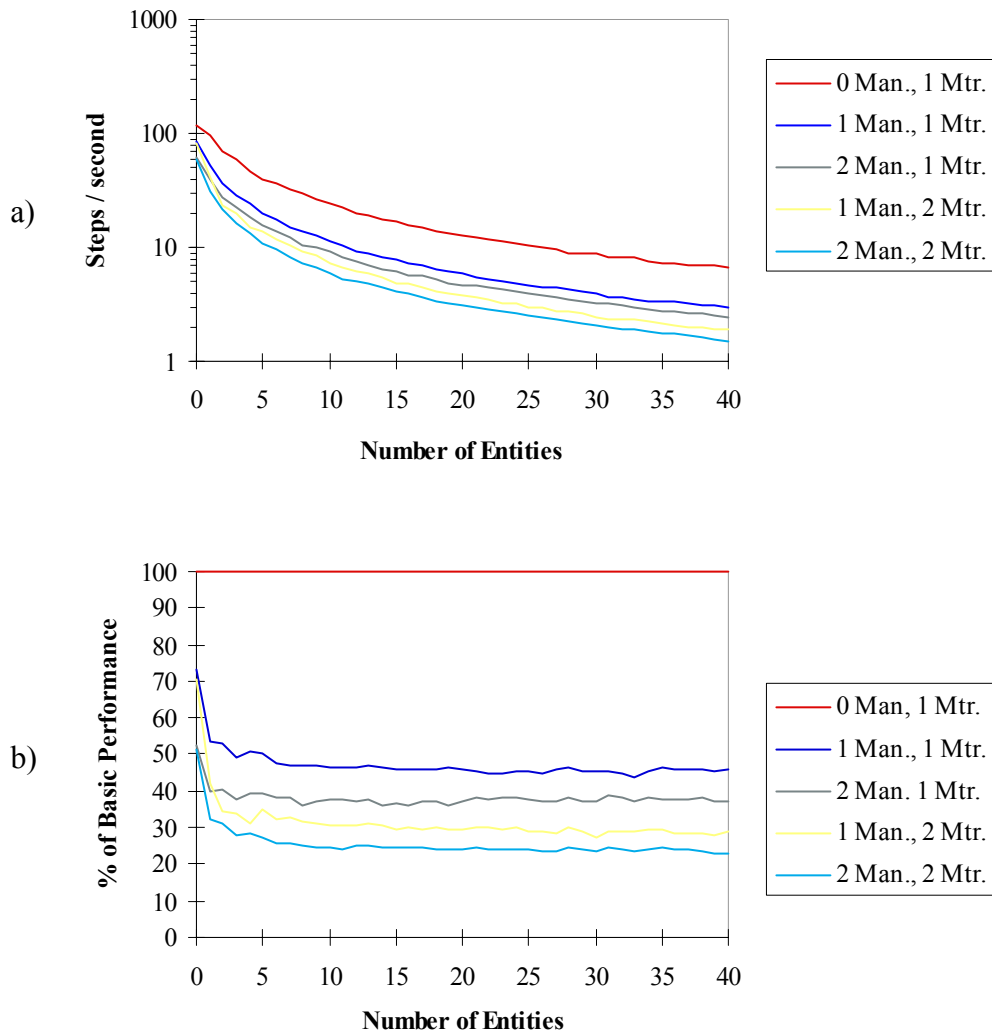
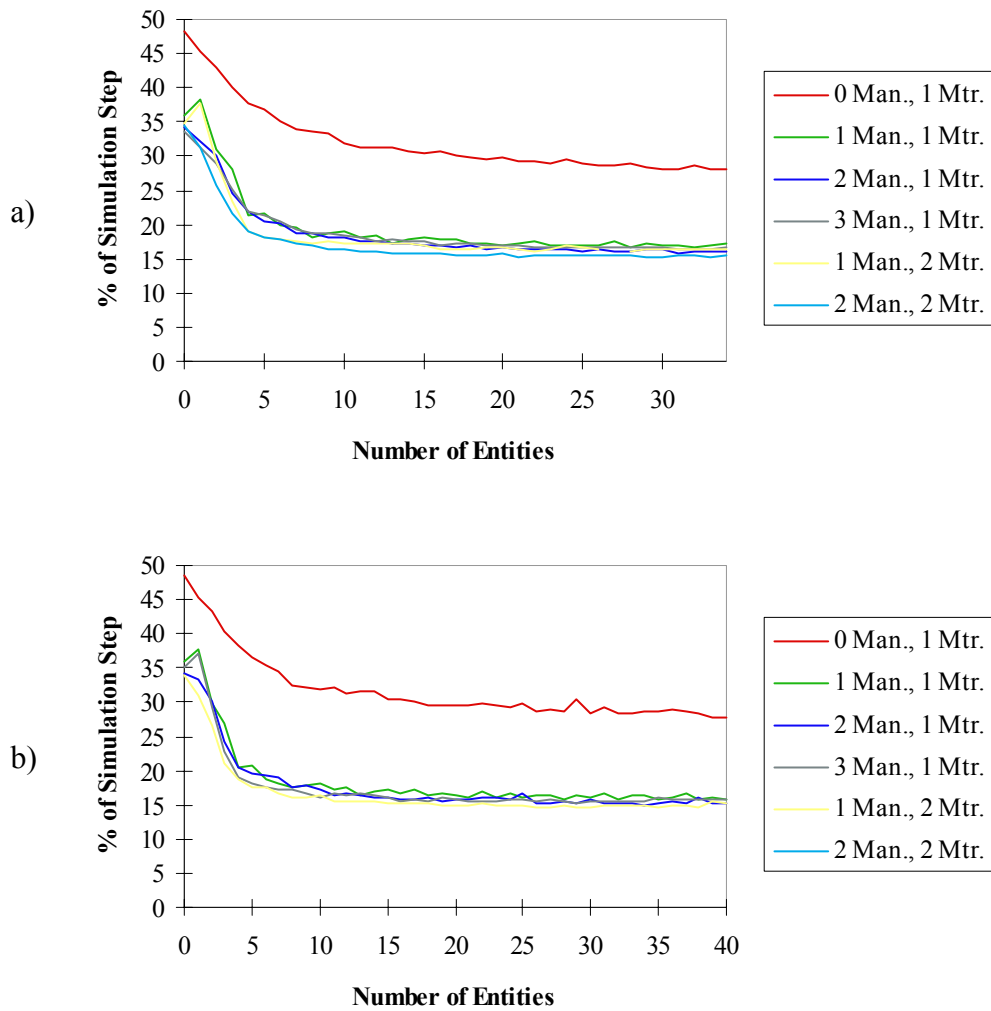


Figure E.6 Effects of various factors on simulation rate: a) steps per second; b) percentage of basic performance (Gateway).

The charts complementing Figure 6.26 may be found in Figure E.7.



**Figure E.7 Percentage idle time in the UM for each test case: a) Server;
b) Gateway.**