

Name: _____

CS 6/73201

Exam #1

Advanced OS

Wednesday 21 February 2001

1. In the case of a parallel or distributed system, what is meant by each of the following terms:

a. tightly-coupled hardware (5 points)

b. loosely-coupled hardware (5 points)

c. tightly-coupled software (5 points)

d. loosely-coupled software (5 points)

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5. Explain how the TCP network protocol ensures that the packets that make up a message do not get lost or corrupted during transmission. (15 points)

6. A message passing system often provides some form of “mailboxes”.

a. Explain what is meant by a “mailbox” in a message-passing system. (10 points)

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- b. Does MPI provide a mailbox, or something that provides similar functionality? Explain. (5 points)

7. What does the MPI_Waitall function do? (5 points)