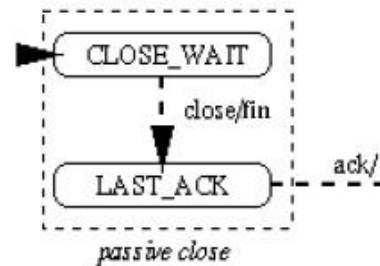

Corrections to the CS435 final examination 27 April 2001

- **IGNORE** the question numbering and mark distribution on the exam. There are 22 questions (not 20) for a total of 105 marks. Using the numbering from the exam paper, the **correct** marks are ((question_nr)[mark]):

(1)[10]	(8)[5]	(16)[3]
(2)[2]	(9)[3]	(17)[4]
(3)[14]	(10)[5]	(18)[6]
(4)[3]	(11)[5]	(19)[6]
(5)[2]	(12)[6]	(20)[6]
(6)[3]	(13)[3]	(20)[3]
(6)[4]	(14)[6]	
(7)[4]	(15)[2]	



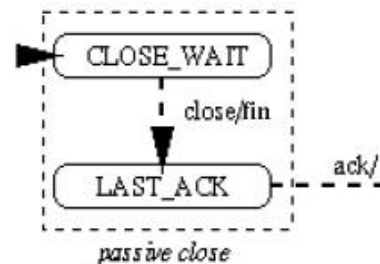
- In question (3), replace “Assume a data stream of ten 0s” by “**Assume a data stream of 8 bits (leftmost sent first): 01101000**”. If you make a choice about representation (e.g., positive signal represents a 0 bit), mention this *explicitly*.
- In question (7), do not give the relation only, but also **derive/describe** it.
- In the first question (20), give your explanation by means of a sequence diagram (communication between client and server as a function of time) demonstrating three-way handshake and four-way handshake. Annotate your sequence diagram with
 - the C function calls a user would make in client and server,
 - the states (from the State Transition Diagram),
 - the packet types sent back and forth between client and server.

The transition from the CLOSE_WAIT state should be labelled close/fin as in the figure above.

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