

Extra Credit: Furnace

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The FSP specification for a furnace system, shown during class lecture, fails to satisfy the assertion that indicates the system works as expected.

1. Explain *why* the system, as initially specified, does not satisfy the assertion.
2. Develop a revision to the system model that would satisfy a reasonable assertion for correctness. It is ok to change the assertion or provide additional assertions to check. But if you do not use the original one you should explain why it is necessary to change it. Make sure that your solution is realistic in the sense that it conforms to the overall architecture of the system. For example, expecting the thermostat to magically know when the the furnace power is shut off would not make sense.

Include the revised model in your write-up with an explanation of how you solved the problem, and also send an electronic copy to garlan@cs.cmu.edu.