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CSCD 340

Lab 6 Problem 2

With the given solution, the writer would be starved if any more than reader was present. Adding an additional mutex to keep track of any thread that is waiting. The result is that no thread will have to wait inordinately long to execute. The data below suggests that a good deal of the time it will not miss more than one cycle before it will be allowed to execute.

This is reader 0

This is reader 2

This is the writer

This is reader 1

This is reader 1

This is reader 0

This is reader 2

This is the writer

This is the writer

This is reader 1

This is reader 0

This is reader 2

This is the writer

This is the writer

This is reader 1

This is reader 0

This is reader 2

This is the writer

This is reader 1

This is reader 0

This is reader 2

^CThis is the writer