Semaphores

To say that a thread blocks itself (or simply “blocks”) is to say that it notifies the scheduler that it cannot proceed. The scheduler will prevent the thread from running until an event occurs that causes the thread to become unblocked. In the tradition of mixed metaphors in computer science, unblocking is often called “waking”. Semaphores

Consequences of the definition: In general, there is no way to know before a thread decrements a semaphore whether it will block or not (in specific cases you might be able to prove that it will or will not). After a thread increments, if everyone chips in $5, we can end this fundraiser today. Right now, a generous supporter will match your donation 2-to-1, so you can triple your impact. All we need is the price of a paperback book to sustain a library you can trust. We have only 150 staff but run one of the world’s top websites. We’re dedicated to reader privacy so we never track you. We never accept ads. But we still need to pay for servers and staff. For 22 years, my dream has been to build the library of everything and make it available to everyone. To make information more reliable and permanent. I know we could charge