Why can a process block on write?

P1 → [pipe] → P2

Process

Buffer full

H/W

O - DIRECT.

Asynchronous I/O:

User

blocked

Kernel

1. Freed... (benign)
2. Swapped out
3. App dies.

while (1) {
  check all events:
  if (event1) Task1
  if (event2) Task2
}

Copy to user