

producer

consumer 1

consumer 2

-----global barrier-----

Serial

pthread\_mutex\_lock  
pthread\_cond\_signal  
pthread\_mutex\_unlock

↪ pthread\_cond\_wait returns  
pthread\_mutex\_unlock

↪ pthread\_mutex\_lock  
pthread\_cond\_wait

-----global barrier-----

Parallel

read\_block()  
(IDLE)  
⋮

compress()  
|

(WAITING)  
⋮