

addressed notify once notify all (C++8 timing)

main

for(1000)

add_thread()

sleep(100ms)

○

sleep(1ms)

○

print "notify_all"
is_ready() = true

for(1000)

rm_notify_once()

sleep(100ms)

print(0)

using _li to wait if lock

print "Thread_jin id"

rm_notify ①

print "Thread_jin id"

⑤

②

print(0)

using _li to wait if lock

print "Thread_jin id"

rm_notify ②

③

print "Thread_jin id"

⑥

③

print(0)

using _li to wait if lock

print "Thread_jin id"

rm_notify ③

④

print "Thread_jin id"

⑦

addressed notify_one notify_all (timing)

main

for(1000)

std::thread t;

std::mutex m;

○

sleep(1sec)

○

print "notify_all"
is_ready() = true

for(1000)

is_ready() = false

sleep(100ms)

print(0)

using lock to enter if block

print "Thread_j is ok"

mutex ①

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print(0)

using lock to enter if block

print "Thread_j is ok"

mutex ①

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print(0)

using lock to enter if block

print "Thread_j is ok"

mutex ①

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addressed notify_one notify_all (timing)

main

for(1000)

add_thread()

sleep(100ms)

○

sleep(1sec)

○

print "notify_all"
is_ready() = true

for(1000)

is_ready_notify()

sleep(100ms)

print(0)

using_lock = min(0) lock

print "Thread_0 is off"

countdown ①

print(0)

using_lock = min(0) lock

print "Thread_0 is off"

countdown ①

print(0)

using_lock = min(0) lock

print "Thread_0 is off"

countdown ①

print "Thread_0 is off"

②

print "Thread_0 is off"

②

print "Thread_0 is off"

②

addressed notify_one notify_all (timing)

