以如下情况为例：

A 线程，优先级31，持有锁lock\_1.

B 线程，优先级32，持有锁lock\_2, 要获取锁lock\_1

C 线程，优先级33，要获取锁lock\_2

第一阶段：开始状态

=========================

.---------------------------------------------------.

| 线程 A (开始状态) |

+-------------------+-------------------------------+

| 成员 | 值 |

+-------------------+-------------------------------+

| priority | 31 |

| old\_priority | 31 |

| locks | {lock\_1 (max\_priority = -1)} |

| waiting\_lock | NULL |

'-------------------+-------------------------------'

.---------------------------------------------------.

| 线程 B (开始状态) |

+-------------------+-------------------------------+

| 成员 | 值 |

+-------------------+-------------------------------+

| priority | 32 |

| old\_priority | 32 |

| locks | {lock\_2 (max\_priority = -1)} |

| waiting\_lock | NULL |

'-------------------+-------------------------------'

.---------------------------.

| 线程 C (开始状态) |

+-------------------+-------+

| 成员 | 值 |

+-------------------+-------+

| priority | 33 |

| old\_priority | 33 |

| locks | {} |

| waiting\_lock | NULL |

'-------------------+-------'

==================================================================

第二阶段：B 获取 lock\_1：

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.---------------------------------------------------.

| 线程 A (B 获取 L1) |

+-------------------+-------------------------------+

| 成员 | 值 |

+-------------------+-------------------------------+

| priority | 31 |

| old\_priority | 32 |

| is\_donated | true |

| locks | {lock\_1 (max\_priority = 32)} |

| waiting\_lock | NULL |

'-------------------+-------------------------------'

.---------------------------------------------------.

| 线程 B (B 获取 L1) |

+-------------------+-------------------------------+

| 成员 | 值 |

+-------------------+-------------------------------+

| priority | 32 |

| old\_priority | 32 |

| is\_donated | false |

| locks | {lock\_2 (max\_priority = -1)} |

| waiting\_lock | &lock1 |

'-------------------+-------------------------------'

.---------------------------.

| 线程 C (B 获取 L1) |

+-------------------+-------+

| 成员 | 值 |

+-------------------+-------+

| priority | 33 |

| old\_priority | 33 |

| is\_donated | false |

| locks | {} |

| waiting\_lock | NULL |

'-------------------+-------'

==================================================================

第3阶段（1）：C 获取 lock\_2：

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.---------------------------------------------------.

| 线程 B (C 获取 L2, Step 1) |

+-------------------+-------------------------------+

| 成员 | 值 |

+-------------------+-------------------------------+

| priority | 32 |

| old\_priority | 33 |

| is\_donated | true |

| locks | {lock\_2 (max\_priority = 33)} |

| waiting\_lock | &lock1 |

'-------------------+-------------------------------'

.----------------------------------.

| 线程 C (C 获取 L2, Step 1) |

+----------------------+-----------+

| 成员 | 值 |

+----------------------+-----------+

| priority | 33 |

| old\_priority | 33 |

| is\_donated | false |

| locks | {} |

| waiting\_lock | &lock\_2 |

'----------------------+-----------'

.---------------------------------------------------.

| 线程 A (C 获取 L2, Step 1) |

+-------------------+-------------------------------+

| 成员 | 值 |

+-------------------+-------------------------------+

| priority | 31 |

| old\_priority | 32 |

| is\_donated | true |

| locks | {lock\_1 (max\_priority = 32)} |

| waiting\_lock | NULL |

'-------------------+-------------------------------'

==================================================================

第3阶段（2）：C 获取 lock\_2：

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| 线程 B (C 获取 L2, Step 2) |

+-------------------+-------------------------------+

| 成员 | 值 |

+-------------------+-------------------------------+

| priority | 32 |

| old\_priority | 33 |

| is\_donated | true |

| locks | {lock\_2 (max\_priority = 33)} |

| waiting\_lock | &lock1 |

'-------------------+-------------------------------'

.----------------------------------.

| 线程 C (C 获取 L2, Step 2) |

+----------------------+-----------+

| 成员 | 值 |

+----------------------+-----------+

| priority | 33 |

| old\_priority | 33 |

| is\_donated | false |

| locks | {} |

| waiting\_lock | &lock\_2 |

'----------------------+-----------'

.---------------------------------------------------.

| 线程 A (C 获取 L2, Step 2) |

+-------------------+-------------------------------+

| 成员 | 值 |

+-------------------+-------------------------------+

| priority | 31 |

| old\_priority | 33 |

| is\_donated | true |

| locks | {lock\_1 (max\_priority = 32)} |

| waiting\_lock | NULL |

'-------------------+-------------------------------'

==================================================================

第4阶段：A 释放 lock\_1：

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.-------------------------------.

| 线程 A (A 释放 lock\_1)) |

+---------------------+---------+

| 成员 | 值 |

+---------------------+---------+

| priority | 31 |

| old\_priority | 31 |

| is\_donated | false |

| locks | {} |

| waiting\_lock | NULL |

'---------------------+---------'

.----------------------------------------------------.

| 线程 B (A 释放 lock\_1) |

+-------------------+--------------------------------+

| 成员 | 值 |

+-------------------+--------------------------------+

| priority | 32 |

| old\_priority | 33 |

| is\_donated | true |

| locks | {&lock\_2 (max\_priority = 33), |

| | &lock\_1 (max\_priority = 32)} |

| waiting\_lock | NULL |

'-------------------+--------------------------------'

.------------------------------.

| 线程 C (A 释放 lock\_1) |

+--------------------+---------+

| 成员 | 值 |

+--------------------+---------+

| priority | 33 |

| old\_priority | 33 |

| is\_donated | false |

| locks | {} |

| waiting\_lock | &lock\_2 |

'--------------------+---------'

==================================================================

第5阶段：B 释放 lock\_2：

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.-------------------------------.

| 线程 A (B 释放 lock\_2)) |

+---------------------+---------+

| 成员 | 值 |

+---------------------+---------+

| priority | 31 |

| oldpriority | 31 |

| is\_donated | false |

| locks | {} |

| waiting\_lock | NULL |

'---------------------+---------'

.----------------------------------------------------.

| 线程 B (B 释放 lock\_2) |

+-------------------+--------------------------------+

| 成员 | 值 |

+-------------------+--------------------------------+

| priority | 32 |

| old\_priority | 32 |

| is\_donated | false |

| locks | {&lock\_1 (max\_priority = 32)} |

| waiting\_lock | NULL |

'-------------------+--------------------------------'

.----------------------------------------------------.

| 线程 C (B 释放 lock\_2) |

+-------------------+--------------------------------+

| 成员 | 值 |

+-------------------+--------------------------------+

| priority | 33 |

| old\_priority | 33 |

| is\_donated | false |

| locks | {&lock\_2 (max\_priority = 33)} |

| waiting\_lock | NULL |

'-------------------+--------------------------------'