1. 初始状态

|  |  |
| --- | --- |
| Thread A | |
| 变量 | 值 |
| base\_priority | 31 |
| priority | 31 |
| locks | lock\_a |
| lock\_waitings | NULL |

|  |  |
| --- | --- |
| Thread B | |
| 变量 | 值 |
| base\_priority | 32 |
| priority | 32 |
| locks | lock\_b |
| lock\_waitings | NULL |

|  |  |
| --- | --- |
| Thread C | |
| 变量 | 值 |
| base\_priority | 33 |
| priority | 33 |
| locks | NULL |
| lock\_waitings | NULL |

2. 线程B获取lock\_a

|  |  |
| --- | --- |
| Thread A | |
| 变量 | 值 |
| base\_priority | 31 |
| priority | 32 |
| locks | lock\_a( max\_priority=32) |
| lock\_waitings | NULL |

|  |  |
| --- | --- |
| Thread B | |
| 变量 | 值 |
| base\_priority | 32 |
| priority | 32 |
| locks | lock\_b |
| lock\_waitings | &lock\_a |

|  |  |
| --- | --- |
| Thread C | |
| 变量 | 值 |
| base\_priority | 33 |
| priority | 33 |
| locks | NULL |
| lock\_waitings | NULL |

3. 线程C获取lock\_b

(1)

|  |  |
| --- | --- |
| Thread A | |
| 变量 | 值 |
| base\_priority | 31 |
| priority | 32 |
| locks | lock\_a( max\_priority=32) |
| lock\_waitings | NULL |

|  |  |
| --- | --- |
| Thread B | |
| 变量 | 值 |
| base\_priority | 32 |
| priority | 33 |
| locks | lock\_b( max\_priority=33) |
| lock\_waitings | &lock\_a |

|  |  |
| --- | --- |
| Thread C | |
| 变量 | 值 |
| base\_priority | 33 |
| priority | 33 |
| locks | NULL |
| lock\_waitings | &lock\_b |

3. 线程C获取lock\_b

(2)

|  |  |
| --- | --- |
| Thread A | |
| 变量 | 值 |
| base\_priority | 31 |
| priority | 33 |
| locks | lock\_a( max\_priority=32) |
| lock\_waitings | NULL |

|  |  |
| --- | --- |
| Thread B | |
| 变量 | 值 |
| base\_priority | 32 |
| priority | 33 |
| locks | lock\_b( max\_priority=33) |
| lock\_waitings | &lock\_a |

|  |  |
| --- | --- |
| Thread C | |
| 变量 | 值 |
| base\_priority | 33 |
| priority | 33 |
| locks | NULL |
| lock\_waitings | &lock\_b |

4. 线程A释放lock\_a

|  |  |
| --- | --- |
| Thread A | |
| 变量 | 值 |
| base\_priority | 31 |
| priority | 31 |
| locks | NULL |
| lock\_waitings | NULL |

|  |  |
| --- | --- |
| Thread B | |
| 变量 | 值 |
| base\_priority | 32 |
| priority | 33 |
| locks | lock\_b( max\_priority=33)  & lock\_a( max\_priority=32) |
| lock\_waitings | NULL |

|  |  |
| --- | --- |
| Thread C | |
| 变量 | 值 |
| base\_priority | 33 |
| priority | 33 |
| locks | NULL |
| lock\_waitings | &lock\_b |

5. 线程B释放lock\_b

|  |  |
| --- | --- |
| Thread A | |
| 变量 | 值 |
| base\_priority | 31 |
| priority | 31 |
| locks | NULL |
| lock\_waitings | NULL |

|  |  |
| --- | --- |
| Thread B | |
| 变量 | 值 |
| base\_priority | 32 |
| priority | 32 |
| locks | lock\_a( max\_priority=32) |
| lock\_waitings | NULL |

|  |  |
| --- | --- |
| Thread C | |
| 变量 | 值 |
| base\_priority | 33 |
| priority | 33 |
| locks | lock\_b( max\_priority=33) |
| lock\_waitings | NULL |