

False Positives

Quiz question revisited:



```
std::mutex m;
```

```
std::thread t1 ([&  
    {  
        std::unique_lock l (m);  
        // Do something real-time safe..  
    }]);
```

```
t1.join();
```

```
std::thread t2 ([&  
    {  
        std::unique_lock l (m);  
        // Do something else real-time safe..  
    }]);
```

```
t2.join();
```





```
Real-time violation: intercepted call to real-time unsafe function `pthread_mutex_lock`  
in real-time context! Stack trace:  
<source>/src/librt_check.so(_Z14get_stacktraceB5cxx11v+0x3c) [ff89d86338]  
<source>/src/librt_check.so(_Z32log_function_if_realtime_contextPKc+0x58) [0xffff89d864f4]  
<source>/src/librt_check.so(pthread_mutex_lock+0x18) [0xffff89d85268]  
<source>/tests/pass_mutex_unique_lock_uncontended(+0x4168) [aac2444168]  
...
```


Real-time violation: intercepted call to real-time unsafe function **`pthread_mutex_unlock`**
in real-time context! Stack trace:

```
<source>/src/librt_check.so(_Z14get_stacktraceB5cxx11v+0x3c) [ff89d86338]  
<source>/src/librt_check.so(_Z32log_function_if_realtime_contextPKc+0x58) [0xffff89d864f4]  
<source>/src/librt_check.so(pthread_mutex_unlock+0x18) [0xffff89d85268]  
<source>/tests/pass_mutex_unique_lock_uncontended(+0x4168) [aac2444168]  
...
```

False Positives

Quiz question 8 rev

```
std::mutex m;
```

```
std::thread t1 ([&  
    {
```

```
std::unique_lock l (m);  
// Do something real-time safe...
```

```
});
```

```
t1.join();
```

```
std::thread t2 ([&  
    {
```

```
std::unique_lock l (m);  
// Do something else real-time safe...
```

```
});
```

```
t2.join();
```

Real-time violation: intercepted call to real-time unsafe function `pthread_mutex_lock` in real-time context! Stack trace:
<source>/src/librt_check.so(_Z14get_stacktraceB5cxx11v+0x3c) [ff89d86338]
<source>/src/librt_check.so(_Z32log_function_if_realtime_contextPKc+0x58) [0xffff89d864f4]
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<source>/tests/pass_mutex_unique_lock_uncontended(+0x4168) [aac2444168]
...

Real-time violation: intercepted call to real-time unsafe function `pthread_mutex_unlock` in real-time context! Stack trace:
<source>/src/librt_check.so(_Z14get_stacktraceB5cxx11v+0x3c) [ff89d86338]
<source>/src/librt_check.so(_Z32log_function_if_realtime_contextPKc+0x58) [0xffff89d864f4]
<source>/src/librt_check.so(pthread_mutex_unlock+0x18) [0xffff89d85268]
<source>/tests/pass_mutex_unique_lock_uncontended(+0x4168) [aac2444168]
...

