```
CPU     ID                              FUNCTION:NAME
  4 472662              mach_msg_overwrite:entry
  4 472441                          malloc:entry
  4 472441                          malloc:entry
  4 472441                          malloc:entry
  4 472480                  pthread_create:entry
  4 472519                    pthread_join:entry
  4 472484              pthread_testcancel:entry
  6 472453             pthread_mutex_lock:entry
  6 472461                     pthread_self:entry
  6 472462         pthread_mach_thread_np:entry
  6 472454           pthread_mutex_unlock:entry
  6 472452              pthread_key_create:entry
  6 472453             pthread_mutex_lock:entry
  6 472454           pthread_mutex_unlock:entry
  6 472456             pthread_setspecific:entry
  6 472453             pthread_mutex_lock:entry
  6 472461                     pthread_self:entry
  6 472462         pthread_mach_thread_np:entry
  6 472454           pthread_mutex_unlock:entry
  6 472453             pthread_mutex_lock:entry
  6 472454           pthread_mutex_unlock:entry
  6 472453             pthread_mutex_lock:entry
  6 472454           pthread_mutex_unlock:entry
  6 472641                            stat:entry
  6 472645                          stat64:entry
  6 472645                          stat64:entry
  6 472441                          malloc:entry
  6 472443                            free:entry
  6 472441                          malloc:entry
  6 472443                            free:entry
  6 472453             pthread_mutex_lock:entry
  6 472454           pthread_mutex_unlock:entry
  6 472458          pthread_mutex_destroy:entry
  6 472443                            free:entry
  6 472443                            free:entry
  6 472443                            free:entry
```

```
5  472455              pthread_getspecific:entry
5  472453              pthread_mutex_lock:entry
5  472454            pthread_mutex_unlock:entry
5  472453              pthread_mutex_lock:entry
5  472454            pthread_mutex_unlock:entry
5  472453              pthread_mutex_lock:entry
5  472454            pthread_mutex_unlock:entry
5  472710                         fwrite:entry
5  472453              pthread_mutex_lock:entry
5  472454            pthread_mutex_unlock:entry
5  472710                         fwrite:entry
5  472453              pthread_mutex_lock:entry
5  472454            pthread_mutex_unlock:entry
5  472710                         fwrite:entry
5  472453              pthread_mutex_lock:entry
5  472454            pthread_mutex_unlock:entry
5  472710                         fwrite:entry
5  472453              pthread_mutex_lock:entry
5  472454            pthread_mutex_unlock:entry
5  472453              pthread_mutex_lock:entry
5  472454            pthread_mutex_unlock:entry
5  472453              pthread_mutex_lock:entry
5  472454            pthread_mutex_unlock:entry
```

```
CPU    ID               FUNCTION:NAME                              5 472455         pthread_getspecific:entry
  4 472662         mach_msg_overwrite:entry                        5 472453           pthread_mutex_lock:entry
  4 472441                     malloc:entry                        5 472454         pthread_mutex_unlock:entry
  4 472441                     malloc:entry                        5 472453           pthread_mutex_lock:entry
  4 472441                     malloc:entry                        5 472454         pthread_mutex_unlock:entry
  4 472480             pthread_create:entry                        5 472453           pthread_mutex_lock:entry
  4 472519               pthread_join:entry                        5 472454         pthread_mutex_unlock:entry
  4 472484         pthread_testcancel:entry                        5 472710                       fwrite:entry
  6 472453         pthread_mutex_lock:entry                        5 472453           pthread_mutex_lock:entry
  6 472461                pthread_self:entry                       5 472454         pthread_mutex_unlock:entry
  6 472462      pthread_mach_thread_np:entry                       5 472710                       fwrite:entry
  6 472454         pthread_mutex_unlock:entry                      5 472453           pthread_mutex_lock:entry
  6 472452          pthread_key_create:entry                       5 472454         pthread_mutex_unlock:entry
  6 472453           pthread_mutex_lock:entry                      5 472710                       fwrite:entry
  6 472454         pthread_mutex_unlock:entry                      5 472453           pthread_mutex_lock:entry
  6 472456          pthread_setspecific:entry                      5 472454         pthread_mutex_unlock:entry
  6 472453           pthread_mutex_lock:entry                      5 472710                       fwrite:entry
  6 472461                pthread_self:entry                       5 472453           pthread_mutex_lock:entry
  6 472462      pthread_mach_thread_np:entry                       5 472454         pthread_mutex_unlock:entry
  6 472454         pthread_mutex_unlock:entry                      5 472453           pthread_mutex_lock:entry
  6 472453           pthread_mutex_lock:entry                      5 472454         pthread_mutex_unlock:entry
  6 472454         pthread_mutex_unlock:entry
  6 472453           pthread_mutex_lock:entry
  6 472454         pthread_mutex_unlock:entry
  6 472641                       stat:entry
  6 472645                     stat64:entry
  6 472645                     stat64:entry
  6 472441                     malloc:entry
  6 472443                       free:entry
  6 472441                     malloc:entry
  6 472443                       free:entry
  6 472453           pthread_mutex_lock:entry
  6 472454         pthread_mutex_unlock:entry
  6 472458        pthread_mutex_destroy:entry
  6 472443                       free:entry
  6 472443                       free:entry
  6 472443                       free:entry
```

```cpp
void run_rt_thread()
{
    std::mutex m:


    get_file_size();
    do_malloc_free();
    do_vector_reserve();
    do_mutex_lock_unlock (m);


}
```