

1. abstraction:NodeID
 2. crash point:before read
 3. bug type:data race
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1. timing:crash

```
1  /*system version:hadoop-2.7.2
2  *org.apache.hadoop.yarn.server.resourcemanager.scheduler.capac
   ity.CapacityScheduler.completedContainer#1416
3  * need calling contex, 10 callers
4  */
5  FiCaSchedulerNode node = getNode(container.getNodeId());
6
7  @Lock(Lock.NoLock.class)
8  public FiCaSchedulerNode getNode(NodeId nodeId) {
9      return nodes.get(nodeId);
10 }
```