

1. abstraction:HServerInfo(node)
2. crash point:before read
3. but type:data race
4. timing:crash

```
1  /* system-version:hbase-0.90.2
2   * crash point:org.apache.hadoop.hbase.master.HMaster#move#739
3   * need calling contex: four caller, only one cause
   bugs(transitionNodeOpened)
4  */
5   /*private final Map<String, HServerInfo> onlineServers = new
   ConcurrentHashMap<String, HServerInfo>();*/
6   //getServerInfo will access the onlineServers, which is
   infered from HServerInfo
7   dest = this.serverManager.getServerInfo(new
   String(destServerName));//crash point,
8   RegionPlan rp = new RegionPlan(p.getFirst(), p.getSecond(),
   dest);
9   this.assignmentManager.balance(rp);
```