

1. abstraction:ApplicationID
 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.nodemanager.containermanager.localizer.ResourceLocalizationService$LocalizerRunner.getPathForLocalization#1089
3  * need calling contex, four caller
4  */
5  LocalResourcesTracker getLocalResourcesTracker(
6      LocalResourceVisibility visibility, String user,
   ApplicationId appId) {
7      switch (visibility) {
8          default:
9          case PUBLIC:
10             return publicRsrc;
11          case PRIVATE:
12             return privateRsrc.get(user);
13          case APPLICATION:
14             return
   appRsrc.get(ConverterUtils.toString(appId)); //crash point,
   need special handle it
15     }
16 }
```