

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

```
1  /* system-version:hbase-0.90.2
2    * crash
   point:org.apache.hadoop.hbase.catalog.CatalogTracker#getMetaServer
   Connection#268
3    * need calling contex: three caller, only one cause
   bugs(waitForMeta)
4  */
5    //metaLocation is field and its type reference is
   HServerAddress
6    HRegionInterface current = getCachedConnection(metaLocation);
```