1. abstraction:DatanodeInfo

2. crash point:before read

3. bug type:local semantic bug

4. timing:crash

```
1  /* system-version:hdfs-1.0.3
2   * crash point:org.apache.hadoop.hdfs.DFSClient#updateBlockInfo
3   * need calling contex: three caller, only one cause bugs
4  */
5  DatanodeInfo primaryNode = last.getLocations()[0];//crash point
```