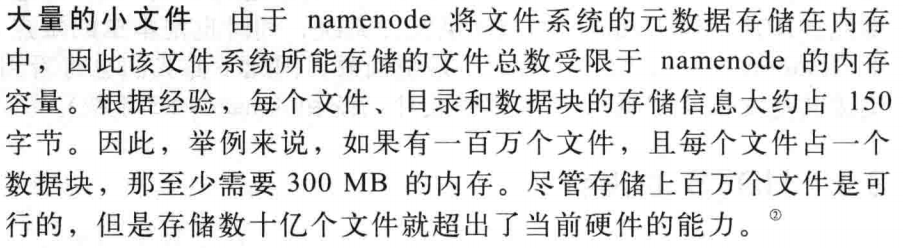
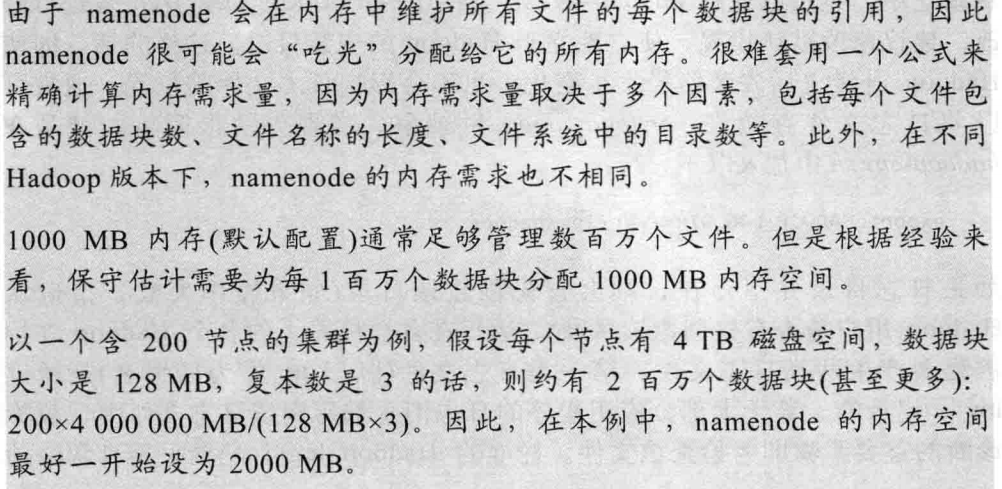
# HDFS

## NameNode内存估算

As a rule of thumb, each file, directory, and block takes about 150 bytes.



How Much Memory Does a Namenode Need?



## 安全模式

