

P2P storage experimentations

CNRS

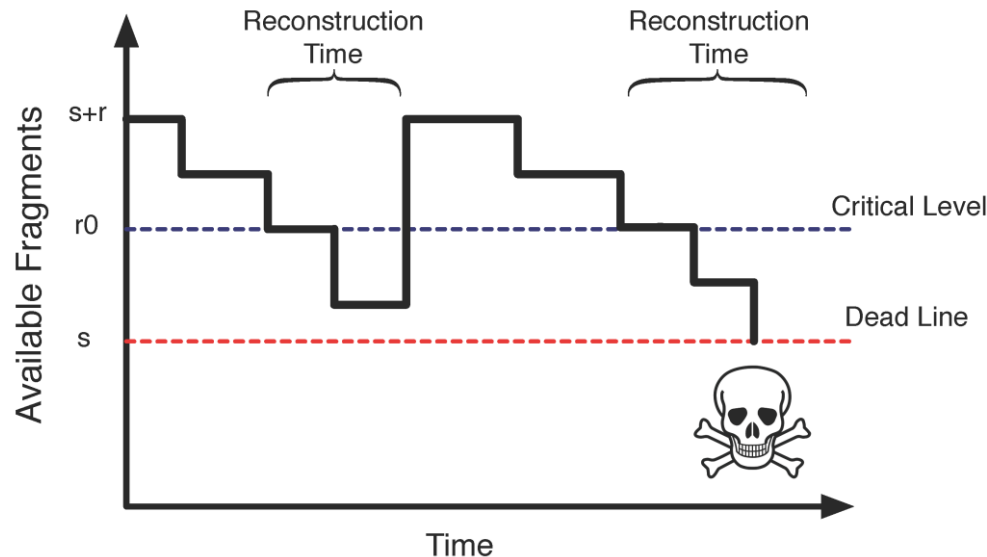
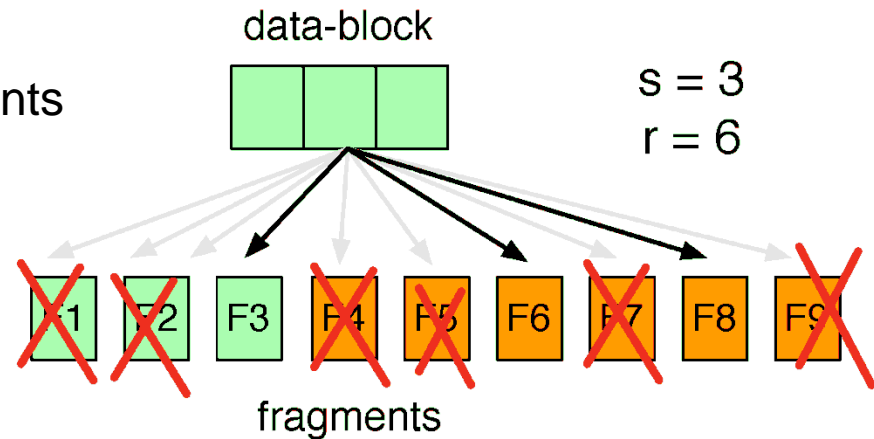
F. Giroire



P2P storage system

- Data encoded into redundant fragments
- Fragments distributed among peers

Node failures occurs: data-block reconstruction and bandwidth usage



Experimentation

- Analysis of :
 - Bandwidth (BW) consumption
 - Mean time to data loss (MTTDL)
 - Data reconstruction time
- Comparison of different data placement strategies:
 - local or global
- How to reduce bandwidth usage:
 - keep a local copy
- Provisioning the BW: peaks of consumption
- Validation of simulation results

