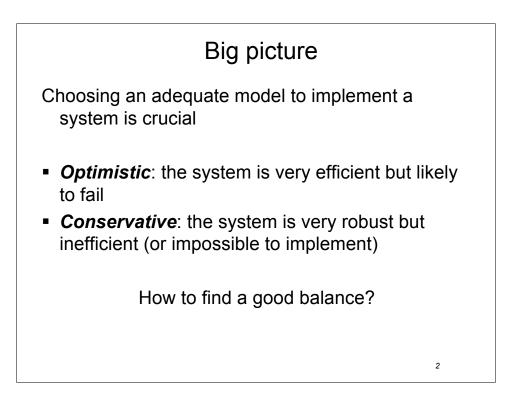
## Large-Scale Byzantine Fault Tolerance: Safe but Not Always Live

Petr Kouznetsov, Max Planck Institute for Software Systems

Join work (in progress!) with:

Bobby Bhattacharjee, Univ. Maryland Rodrigo Rodrigues, INESC-ID and Tech. Univ. Lisbon

FuDiCo III, June 2007



## Prepare for the worst and hope for the best

How good is the best and how bad is the worst?
 ✓Best case – failures are few

✓ Worst case – almost everything can be faulty

- What do we mean by "prepare" and "hope"?

   The system is very efficient in the best case
  - The system never produces inconsistent output (even in the worst case), but …

✓May become unavailable in the (rare) "intermediate" case

3

