Proposition de recherche doctorale

Distributed storage tolerant to Mobile Byzantine faults

Mots clés :
- Directeur de thèse : Maria Potop-Butucaru
- Co-encadrant(s) :
- Unité de recherche : Laboratoire d'informatique de Paris 6
- Ecole doctorale : École Doctorale Informatique, Télécommunications, Électronique de Paris
- Domaine scientifique principal : Divers

Résumé du projet de recherche (Langue 1)
Byzantine-tolerant storage is an active research area and this problem has been studied in various settings and models. Recently, several works investigate this problem in the case where the system starts in an arbitrary state. To cope with this situation stabilizing Byzantine tolerant algorithms have been proposed. In all the above mentioned works the set of Byzantine processes is assumed to be static. That is, the set of nodes exhibiting a Byzantine behavior does not change during the computation. We investigate a different fault model where Byzantines are mobile. In this model we will investigate several forms of mobility.

Résumé du projet de recherche (Langue 2)
We will investigate lower and upper bounds on the atomic storage implementation. We expect these bounds to be different from the one proposed in the case of static systems.