Problem: Untrusted Service Providers
Server-side processing of encrypted databases assume hosting server is trusted
Server may tamper with replies & database itself

Idea: Deploy Secure Hardware Efficiently (ICDCS '08)
The untrusted service provider is handled by deploying appropriate tamper-reactive hardware defenses. This is hard because secure hardware is significantly computation and storage constrained (by orders of magnitude)

Performance Optimizations
Overheads include encryption/decryption costs, I/O costs, network or card-host bus transfer costs

Performance Bottlenecks
Fetching join attributes + TagIDs and performing JOINS inside sCPU