Kyle Apple, Greg LaPrest, Ian Cundiff  
CSSE 477 – Simple Web Server Project

The tactics we used to improve Availability include:

1. Watchdog – the server now maintains a blacklist of URl’s that make too many requests in a set interval. If a URl is blacklisted, requests coming from it will no longer be serviced (hopefully preventing DOS attacks).

2. 2PC Transactions – Instead of immediately processing requests as they come in, the server now adds them to a queue. In a separate thread, a RequestProcessor object will process the request at the head of the queue at set intervals (say, one request every 5 ms). This will prevent

3. Reconfiguration – When the server is stopped, it will now continue to process any remaining requests in the request queue. However, at this point it will not accept any new requests. A Kill option (which will stop the server and clear the request queue) was also added.