ES623 Networked Embedded Systems

Quiz #5 14th Feb 2013

Global Time and Order

Name: Rol	l No:
1. Given a clock synchronization system that achieves a precision of 90 micr granularity for the global time? What are the limits for the observed values fo	
2. Consider a system with 10 clocks.a) If the number of clocks behaving maliciously faulty is 4, determine the conb) If the number of clocks behaving maliciously faulty is 2, determine the conb	· ·
3. Given a latency jitter of $20\mu s$, a clock drift rate of 10^{-5} sec/sec and a resynd What precision can be achieved by the FTA algorithm in a system with 10 clomalicious?	
4. Given a latency jitter of $20\mu s$, a clock drift rate of 10^{-5} sec/sec and a resynd What precision can be achieved by the central master algorithm?	chronization period of 1 second.