

Reliability

» e.g. nuclear power plants, automotive, aero & space, ...

useful acronyms (note these are averages & "user mileage

» simple for a module – more complex for a larger system

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Reliability is a key concern in some segments

» either due to monetary loss or contract

mission critical embedded systems

• when high availability is needed

» MTTF - mean time to failure

» MTTR – mean time to repair

» availability = MTTF/MTBF

» MTBF (B=between) = MTTF + MTTR

• SLA's and SLO's

Weakest link theory

may vary")

hook?

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Exan	n ple				
		Machine A	Machine B	Machine C	
	Program 1 (secs)	1	10	20	
	Program 2 (secs)	1000	100	20	
	Total Time (secs)	1001	110	40	
Vhich	is better an	d by how i	nuch?		















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