Active Learning Activity: Reliability Evaluation of Multi-Version Software

ECE 60872/CS 59000 – Fault Tolerant Computer System Design
School of Electrical and Computer Engineering
Purdue University
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1. Compare the reliability of Simplex and NVP with 3 versions, with k=1, C=1.
    a. As a function of time with E = 1, t = 0.1, …, 1.0
    b. As a function of effort with t = 0.5, E = 1, …, 10
2. Compare the reliability of Simplex and RB with 3 versions, with k=1, C=1.
    a. As a function of time with E = 1, t = 0.1, …, 1.0
    b. As a function of effort with t = 0.5, E = 1, …, 10
3. Compare the reliability of Simplex and RB with 2 versions, with k=1, C1=1 (complexity of primary), C2=0.1 (complexity of secondary)
    a. As a function of effort with t = 0.5, E = 1, …, 10.