Understanding, Detecting and Localizing Partial Failures in Large System Software[1]

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[1]Chang Lou, Peng Huang, and Scott Smith. "Understanding, Detecting and Localizing Partial Failures in Large System Software". In: *17th {USENIX} Symposium on Networked Systems Design and Implementation ({NSDI} 20)*. 2020, pp. 559–574.

Overview

Problem definition

What is a Partial Failure?

Definition

A partial failure is, in a process π to be when a fault **does not** crash π but causes safety or liveness violation or severe slowness for some functionality $R_f \subsetneq R$