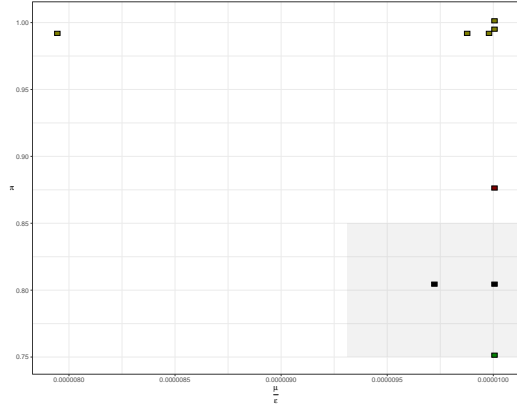
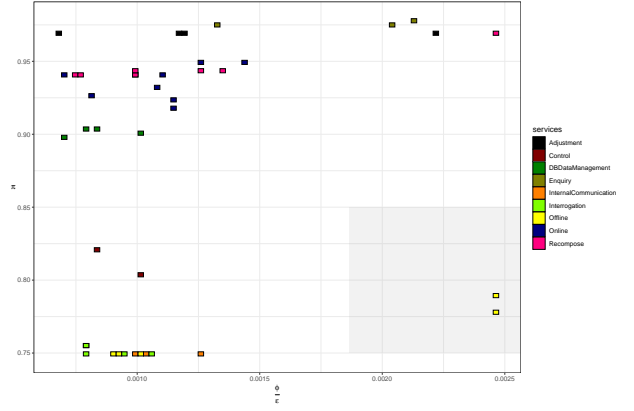


(c)  $(\phi/\epsilon, \tau)$  distributions for pattern TJ with  $\pi \in [75\%, 85\%]$ . (d)  $(\chi/\epsilon, \pi)$  values of PF for pattern AH across operations.

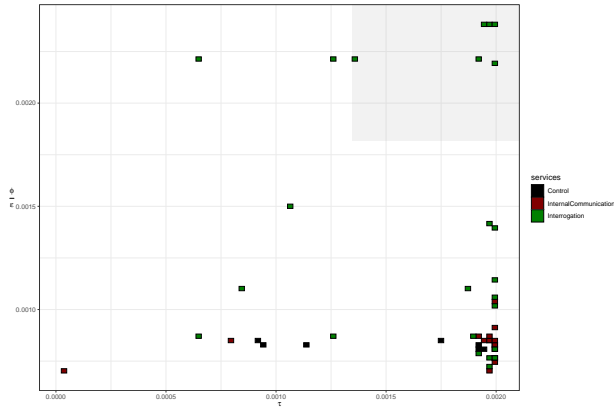
Fig. 1: Instances of SPAs in Sock Shop operations. gray areas indicate the severe SPAs.



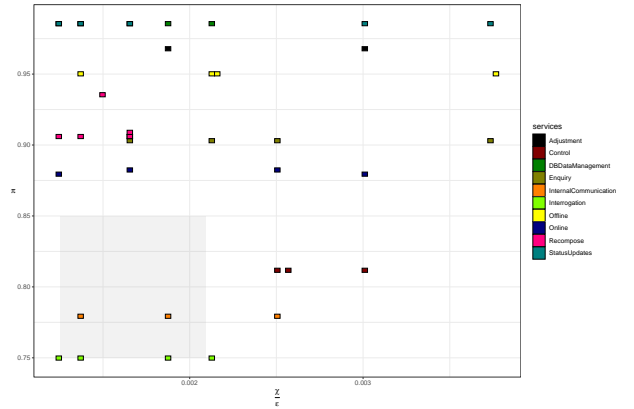
(a)  $(\mu, \pi)$  distributions for pattern RP. Severe anti-patterns fall in the highlighted region.



(b)  $(\phi/\epsilon, \pi)$  distributions for pattern CVR. Severe anti-patterns fall in the highlighted region.



(c)  $(\phi/\epsilon, \tau)$  distributions for pattern TJ with  $\pi \in [75\%, 85\%]$ . Severe anti-patterns fall in the highlighted region.



(d)  $(\chi/\epsilon, \pi)$  values of PF for pattern AH across microservices. Severe AH instances fall in the highlighted region.

Fig. 2: Instances of SPAs in the microservices of the Telecommunication System. Gray areas indicate severe SPAs.