A Partial-Multiverse Model for Debugging Issues in Parallel Dimensions

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Debuggers
Byebug (demo)
How does THAT work? (demo)
Sweet
OK. What could be better?
MAD SCIENCE
The Idea
fork() the universe during 'next'
Suspend the child fork
Keep track of all created child forks
Upon 'prev', grab the most recent child fork
Resume (time-travel!) the previous child fork
Unix Processes & Forks (demo)
So... "fork" byebug! (demo)
Limitations
Can only travel back to checkpoints
"Partial" time-travel
Zombies
Might crash the multiverse through memory exhaustion, I guess