

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

THE END