

Argument against fork

"A fork() in the road"

Andrew Baumann (Microsoft Research), Jonathan Appavoo, Orran Krieger (Boston University), Timothy Roscoe (ETH Zurich) - *In Proceedings of HotOS 2019*

<https://www.microsoft.com/en-us/research/uploads/prod/2019/04/fork-hotos19.pdf>

➡ The main argument is security

Process creation on Windows

CreateProcess: BOOL CreateProcess(char *prog, char *args)

1. Creates and initializes a new PCB
2. Creates and initializes a new address space
3. Loads the program specified by “prog” into the address space
4. Copies “args” into memory allocated in address space
5. Initializes the saved hardware context to start execution at main (or wherever specified in the file)
6. Places the PCB on the ready queue