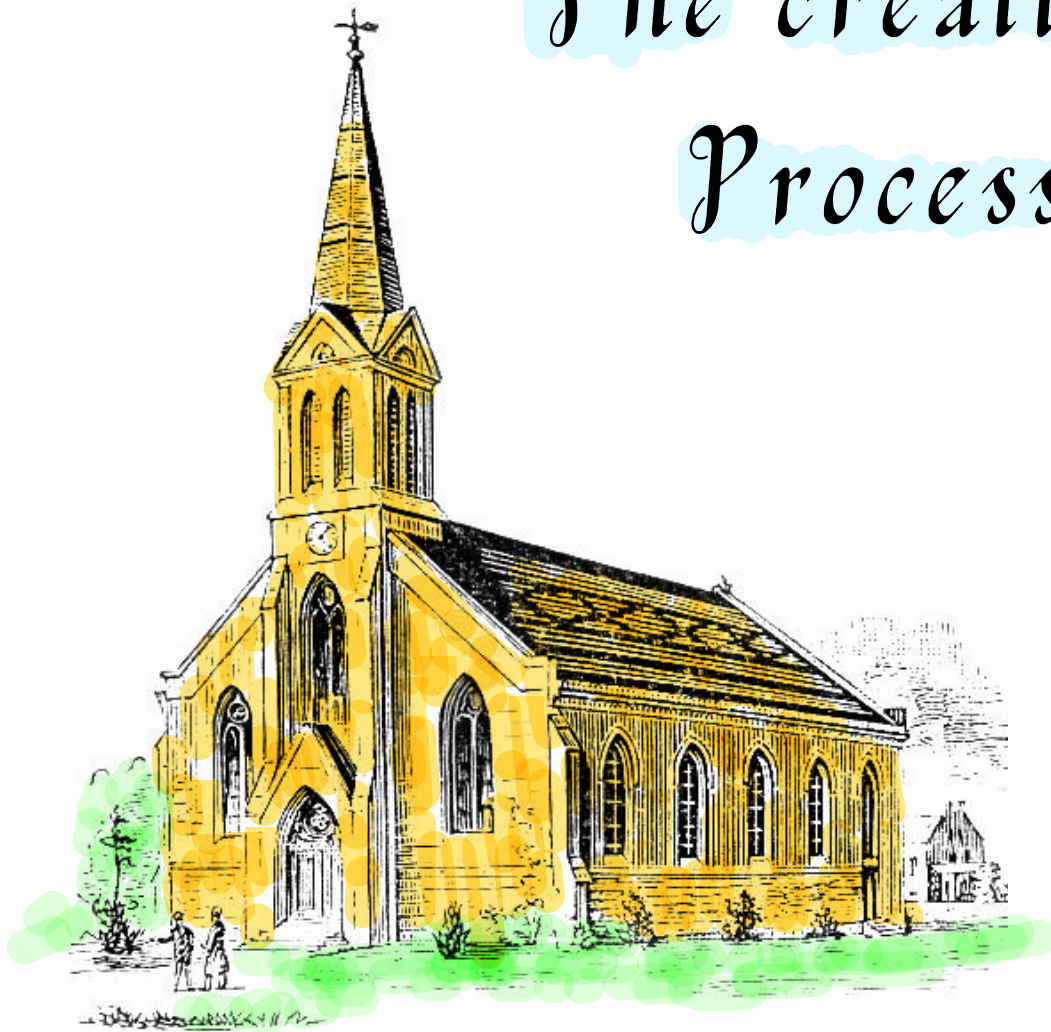


The creation of Processes



Satpreet and Jenish

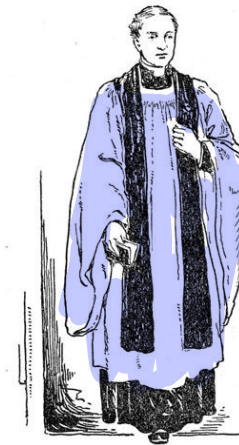
*In the beginning, there was nothing. Then, software engineers created the Operating System.
But, the OS was void and without form.*



*Then, computer said
let there be light on the
monitor.*



*Then, computer called
St. Bootloader,
and OS was alive.*



So Father, what
happened after the
creation of OS?



OS created `init()` and then
blessed it with the power
to replicate and replenish
the computer with more
processes!



But, `init()` needed `St. fork()` and `St. exec()` to help him out.



Hi! I am
`St. fork()`

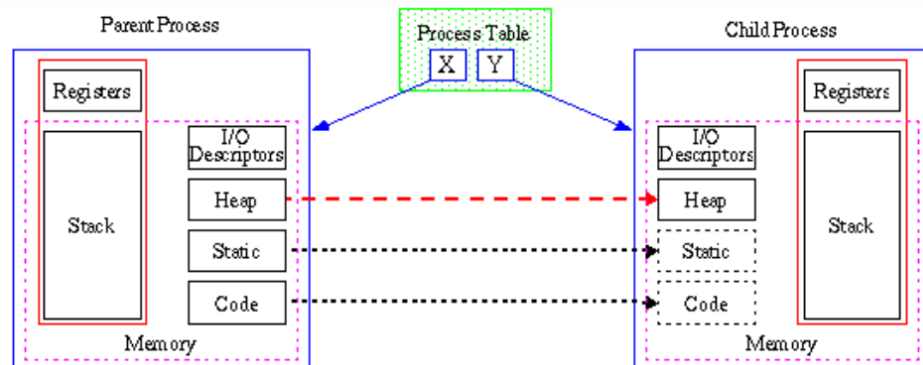
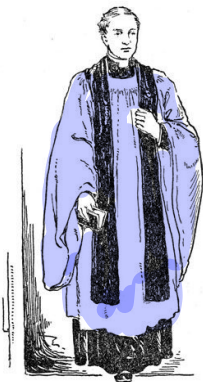
Hi! I'm
`St. Exec()`



First, `St. fork()` was called upon and he created a new process!



But, the new child was replica of `init()`. So, `St. exec()` was called.



St. exec() found ELF (executable and linkable file, a binary) and executed it.



And, OS blessed the new child and said unto him, You shall also have the power to replicate and replenish the computer by creating more processes.

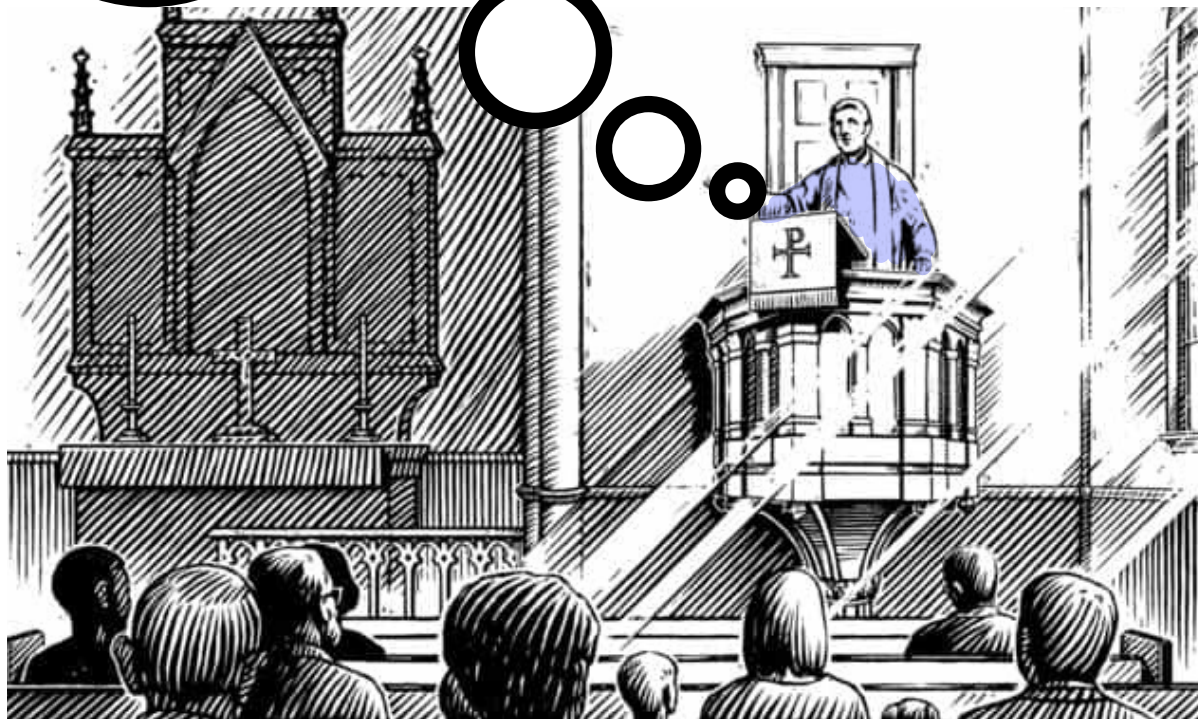


So, a new child process with its own identity was born from init().



*now, init()'s child could call St. fork() and St.
exec() again to create his own child and this
carries on.*

And this is how Processes are created!!



God bless you!

