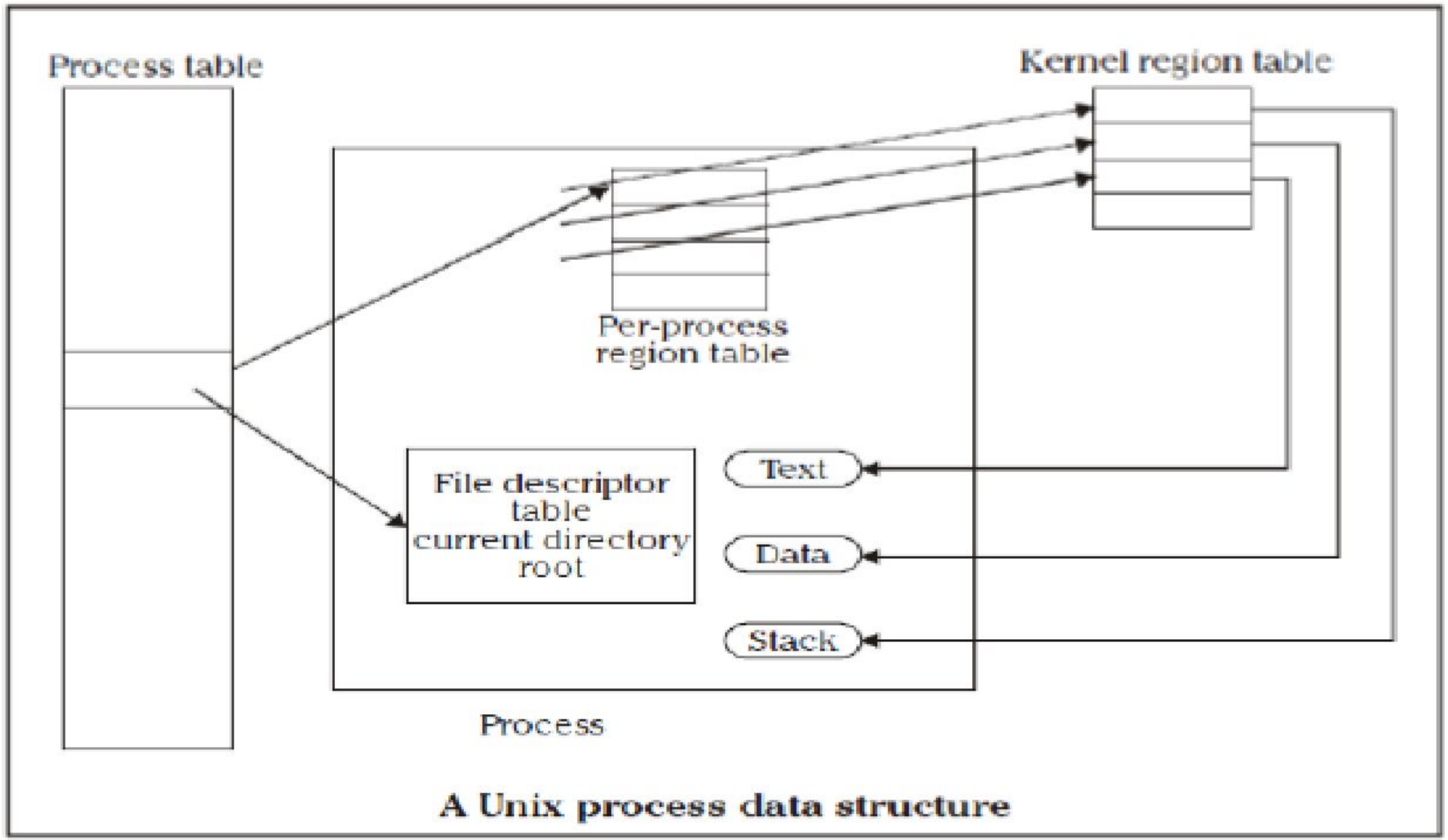
UNIX PROCESSES

- **UNIX KERNEL SUPPORT FOR PROCESS**
- UNIX kernel has a process table that keeps track of all active process present in
- The system. Some of these processes belongs to the kernel and are called as“system process”.
- Every entry in the process table contains pointers to the text,data and the stack segments and also to U-area of a process.
- Uarea of a process is an extension of the process table entry and contains other process specific data such as the file descriptor table, current root and working directory inode numbers and set of system imposed process limits.
- All processes in UNIX system expect the process that is created by the system boot code,are created by the fork system call.



A Unix process data structure

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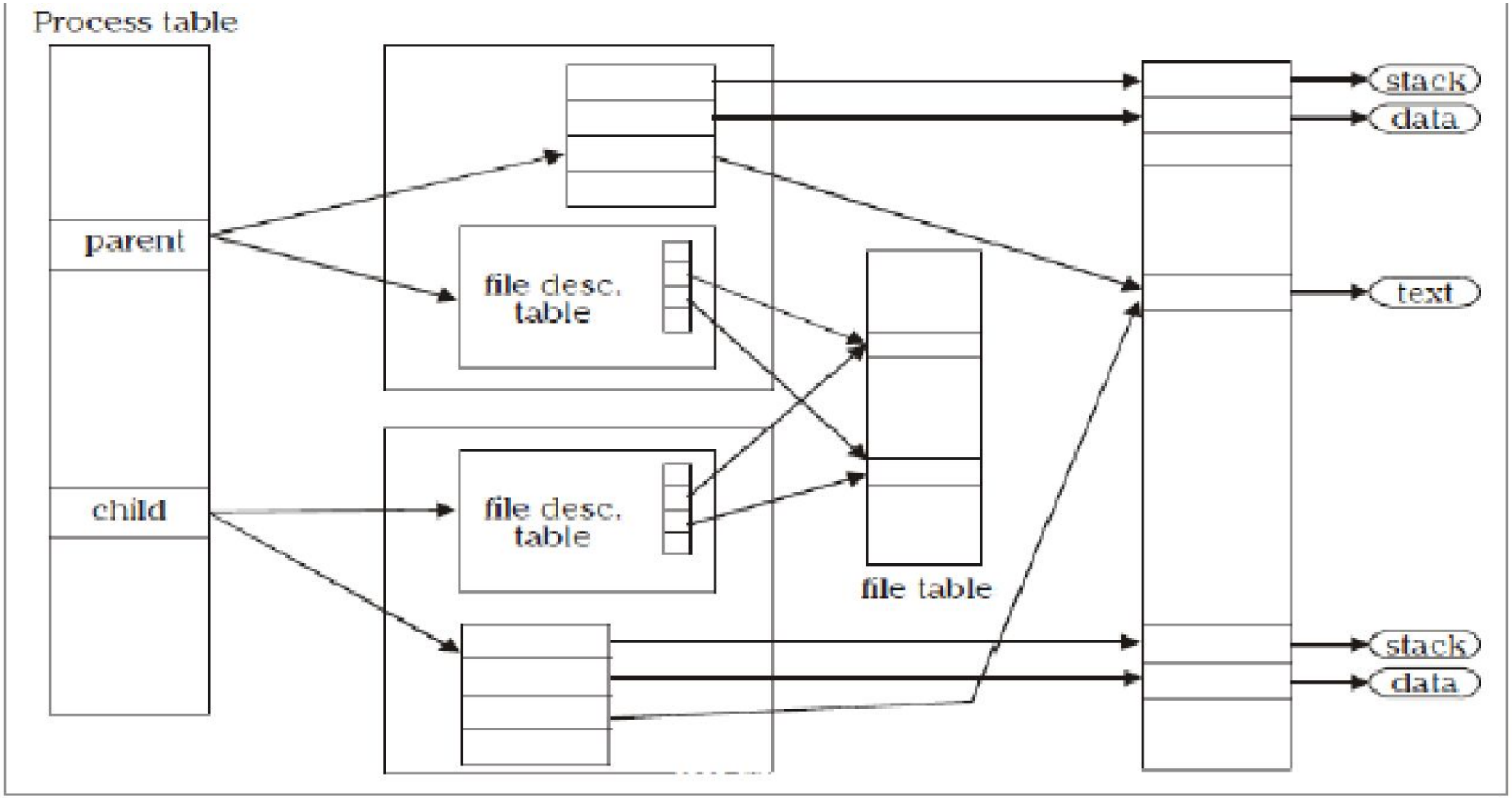

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- After the fork system call,once the child process is created,both the parent and child processes resumes execution.
- When a process is created by fork,it contains duplicated copies of the text,data and stack segments of its parent as shown in the Figure below
- Also it has a file descriptor table,which contains reference to the same opened files as the parent, such that they both share the same file pointer to each opened files.