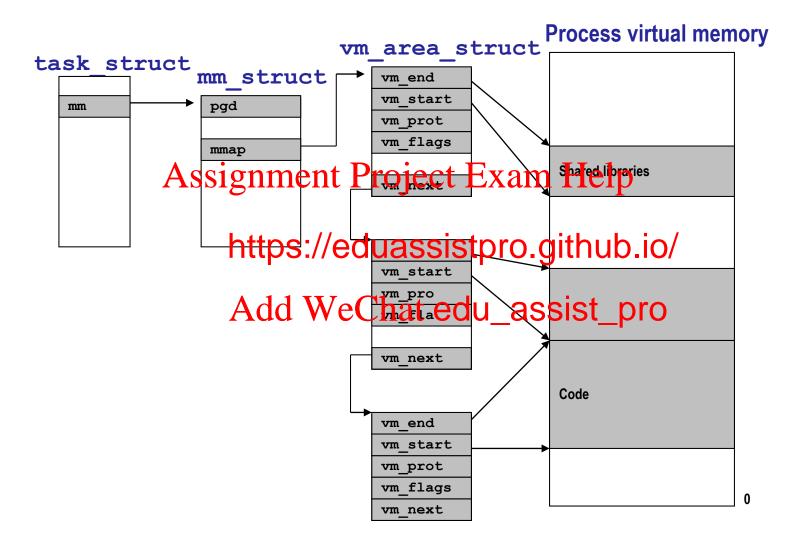
Key VM Structures in Linux

- vm_area_struct: describes the properties of a contiguous region of the virtual address space
 - Entire region may contain many pages
 - Entire regionshigen properties jechtischen des peiated operations
 - May be a file, libhttps://eduassistpro.github.io/
- mm_struct: contains inform _____ the process' Add WeChat edu_assist_pro entire virtual address space
 - Contains a list of vm area struct objects
 - Processes have distinct mm_structs, threads share an mm_struct

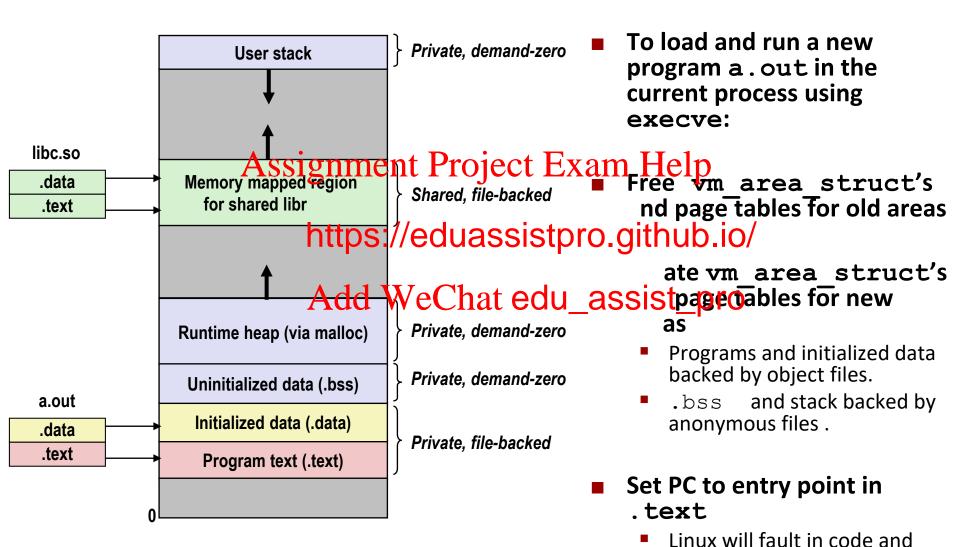
VM Structures in Linux



The fork Function Revisited

- VM and memory mapping explain how fork provides private address space for each process.
- To create virtual address for new new process
 - Create exact co https://eduassistpro.github.io/struct, and page tables.
 - Flag each page in the think the state of the state of
 - Flag each vm area struct in both processes as private COW
- On return, each process has exact copy of virtual memory
- Subsequent writes create new pages using COW mechanism.

The execve Function Revisited



data pages as needed.