The "Linux Kernel Process Count Module" is a straightforward kernel module designed to tally the number of actively running processes within the Linux kernel.

Upon loading, it traverses through all processes and identifies those in the "TASK\_RUNNING" state, providing an essential metric of the system's workload.

The result is logged into the kernel message log, which can be examined using the **dmesg command**.

This module serves as an introductory example for kernel programming and may serve as a foundational component for building more advanced kernel modules or system monitoring tools.

To use it, compile the module with make, load it with sudo insmod process\_count.ko, check the log for the count, and unload it with sudo rmmod process\_count.