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3.

Virtual memory is the addressable memory that can be used by a process. This type of memory includes all available memory including the one not physically present. Each process has its own virtual address then is later indirectly mapped to a physical address. It allows to run more memory, by swapping unused processes to disk.

Resident memory is mapped to physical RAM address and used by a process. It provides an accurate representation of how much memory is being used by processes.

Main differences between the two memories are that Virtual memory includes the physical ram and virtually allocated disk space. Meanwhile resident memory is directly addressed to RAM space. Virtual may be used to manage more RAM hungry applications which don’t utilize some inactive processes.

4.

Process ID 1 is responsible for initializing the start and shut down of the system. By default it is usually reserved for this function.

Process ID 1864 seems to be related to the desktop as it’s titled xdg-desktop-por. After researching I figured it’s responsibility for determining network status, opening a file with a file chooser, opening URIs, taking screenshots.

Process ID 298 seems to be related to system logging as it’s named systemd-journal. After looking it up on the web my thesis came out to be correct as it function is to log the systemd functionality. Systemd has its own logging system called the journal; running a separate logging daemon is not required