



The system consists of:

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| - Memory in kernel | Hardware (Controlled by software) |
| - Process in kernel | Software (some hardware) |
| - Filesystem in kernel | Software |
| - Keyboard in kernel | Hardware |
| - Harddrive in kernel | Hardware |
| - Screen in kernel | Hardware |
| - Module not in kernel | Software |
| - System calls in kernel | Software |
| - Networkdriver as a module | Software |
| - Other hardware units maybe kernel | Hardware (Maybe controlled by software) |

Very fundamental functions:

Memory

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| - allocate | allocates memory |
| - free | frees memory |

Keyboard

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| - getchar | read char from keyboard |
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Screen

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| - printf | write text to screen |
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Harddrive

- | | |
|---------|---------------------|
| - write | write data to disk |
| - read | read data from disk |

Process

- | | |
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| - create | create a process |
| - kill | kill a process |
| - stop | stop a process |
| - resume | resume a process |

System call

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|---------------|-----------------|
| - sys_call | call the system |
| - module_call | call a module |