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BareMetal Design Doc

Introduction

This is the design specification for the BareMetal Operating System. BareMetal gets its name from being a very low level operating system and giving more control over things to the programmer. The Operating System does not aim to have POSIX compliance, instead it aims to create a completely original design for its kernel. BareMetal is meant not for the General Purpose user, but for advanced programmers who wish to test out their ideas under a stable OS while still having control over everything they need. Device drivers will be available, but will not be required to be used by software to access the hardware.

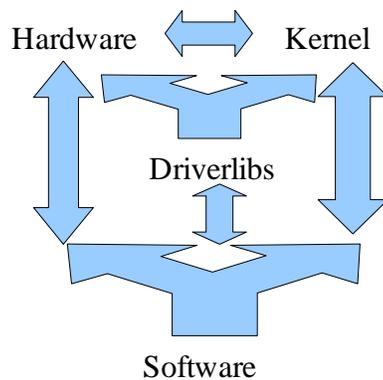
Goals

- A 64 bit OS that people can use

- An OS written completely in FASM assembly
- A stable OS that won't crash
- An OS that gives two options to the programmer low-level or high-level

Running Environment

The Operating System will be organized in a manner as such:



All software will run in ring 0. The only protection for the software will be provided through the kernel.