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
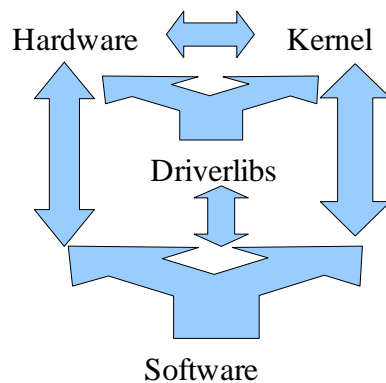be used by software to access the hardware.

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:

Hardware   Kernel

Driverlibs

Software

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