

# Linux on the Nios II architecture

This is a port of Linux to Nios II (nios2) processor.

In order to compile for Nios II, you need a version of GCC with support for the generic system call ABI. Please see this link for more information on how compiling and booting software for the Nios II platform:

<http://www.rocketboards.org/foswiki/Documentation/NiosIILinuxUserManual>

For reference, please see the following link: <http://www.altera.com/literature/lit-nio2.jsp>

## What is Nios II?

Nios II is a 32-bit embedded-processor architecture designed specifically for the Altera family of FPGAs. In order to support Linux, Nios II needs to be configured with MMU and hardware multiplier enabled.

## Nios II ABI

Please refer to chapter "Application Binary Interface" in Nios II Processor Reference Handbook.