ESPRESSIF

NuttX RTOS

Apache NuttX with ESP32

Apache NuttX is a real-time operating system (RTOS) compatible with the POSIX standard.

POSIX is a set of standards that defines standardized interfaces for software development, allowing a program to run on different operating systems. Thus, NuttX makes it possible to port applications and libraries written for Linux, taking advantage of the lower BOM cost of Espressif's SoCs.
A powerful combination that makes NuttX a versatile platform, with support for languages such as C++, Rust, Lua, WebAssembly (WASM), Zig, and Python!

Join the NuttX community with ESP32!

Development and support

NuttX is an open-source project under Apache Software Foundation. Espressif actively contributes to NuttX by adding support for **ESP32 series** of chips.

Support for Espressif SoCs is provided through a hardware abstraction layer (HAL) at the low level.

- **ESP32**
- **ESP32-C**
- **ESP32-H**
- **ESP32-S**

Connectivity, performance, and portability

NuttX is widely adopted in projects that require connectivity, real-time performance, and software portability — from drone flight controllers to ECUs in the automotive sector, and even IoT applications!

Get started today!

Espressif has prepared a series of articles about NuttX, available on the developer portal.

Explore more at:
developer.espressif.com

Artigos publicados:
developer.espressif.com/tags/nuttx/

Getting Started with NuttX and ESP32

A quick overview of NuttX and its compatibility with Espressfi SoCs

 www.espressif.com

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for more information please visit https://developer.espressif.com/resources/