

MIOS

Overview

MIOS is the Operating System of the Chip. This Page covers MIOS and the BOOTLOADER (or Bootstrap Loader). General Informations can be found in the Intro-Article: [what is a MIDibox](#).

There are two versions of MIOS: The (older) **MIOS8**, used for MBHP_Core modules equipped with 8bit PIC uControllers and **MIOS32** used for the Core32 modules with 32bit STM controllers. If you are planning to build a new MidiBox, you should use the newer Core32 that allows much more complex devices.

MIOS8

MIOS8 is used for MBHP_Core modules equipped with PIC18F452, PIC18F4620 or PIC18F4685.

HELLO WORLD.

LCD Output (e.g.)

READY.

LCD Output

LCD Output

MIDI

APPLICATION
the code that operates your MidiBox, uploaded via Midi (Sysex)
Either one of the existing projects (eg. MidiBox64 or MidIO 128) or you write your own!

You can code in Assembler Language, but C is well supported and the recommended language!

MIDI

MIOS
the Midibox Operating System, uploaded via Midi (Sysex)

BURN

BOOTLOADER
to enable Sysex-Access via Midi; has to burned with a PC
If ordered your PIC @ SmashTV or Mike's MidiShop, it's already on the PIC!

The Article [MIOS Bootstrap For Newbies](#) (also available as [MIOS Bootstrap](#) in different languages) contains important informations about how to upload MIOS - the operating system - and an application.

Developers should consult the related project pages or [Application Development](#).

Documentation

- [Introduction](#) uCApPs
- [Change Log](#) uCApPs
- [MIOS project summary RSS feed](#)
- [MIOS-Downloads](#) uCApPs
- [Bootstrap Loader](#) uCApPs
 - check out [pic_programmer_modules](#) to know how to get the Bootstrap Loader onto the

PIC.

- [Application Development](#) Section
- [MIOS running on a PIC18F4620](#) (for certain future applications)

Frequently Asked Questions

 [MIOS FAQ - Questions and Answers](#) !

MIOS32

MIOS32 is used on Core32 boards, equipped with the 32bit STM32F103RE processor. MIOS32 is prepared for other 32bit uCs as well and allows platform independent applications.

Documentation

- [Core32 Introduction](#) ^{uCApps}
- [MIOS32 Download](#) ^{uCApps}
- [Toolchain setup guide for Windows](#)

See Also

[Mios studio](#)

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