

Welcome to the MutekH project home page

What is MutekH

MutekH is a portable operating system for embedded platforms. MutekH is a set of libraries built on top of the Hexo exo-kernel. The exo-kernel can be seen as an Hardware Abstraction Layer (HAL) used to address platform and processors specific implementations. MutekH is fully configurable to match every application needs.

Hexo currently support these platforms:

- SoCLib platform with Mips and Ppc multi-processors support
- Pc platform with x86 multi-processors support
- Unix process (kernel and application run as standalone unix process)

Several modules are available:

- Standard C library (libc)
- Native Posix threads Support (libpthread)
- TPC/IP stack networking library (libnetwork)
- SoCLib SRL library (libsrl)
- Device drivers for various peripherals

The following modules are under development:

- File system support library (libvfs) along with file system drivers
- Unix kernel implementation library (libunix)

The following library have been ported:

- Lua scripting library (liblua)

Some successfully ported applications:

- MJPEG and Theora multi-processor video decoder (SoCLib platform)
- Doom video game with network multiplayer support (Pc platform)

Get the source

Source code can be download from the svn source tree:

```
svn co -r 505 https://www-asim.lip6.fr/svn/mutekh/trunk/mutekh
```

Documents

- Posix thread over Hexo implementation overview
- Manual for Hexo API
- MutekH quick start guide for SoCLib platform