**HeavenFox Operation System**

autor: Yang Yujun

e-mail: <yujiantianhu@163.com>

(the function reference Linux)

**feature:**

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| 01) support multithreading (time slice, priority preemption, and delayed sleep);  02) support initcall implicit initialization;  03) support character device driver framework;  04) support framebuffer driver framework;  05) support IRQ virtual interrupt numbers mapping (GIC\_SPI);  06) support timer link list (timer\_list);  07) support SD Card (porting fatfs);  08) support Device Tree (support reading .dtb in SD Card, and parsing it to device\_node and platform\_device);  09) support platform: bus - device - driver framework;  10) provide APIs such as open/close/read/write, access hardware through "fd" and "file\_operations";  11) support flexible selection of source files to be complied through Makefile;  12) support pinctrl, gpio (and gpio-irq), clock subsystem, and i2c bus framework;  13) support workqueue, mutex lock, spin lock and mailbox (inter-thread communication, e.g, ITC);  14) support waitqueue, semaphore and touchscreen driver of "tsc2007";  15) support DTC compiler, dtb can be generated by "make dtbs" |

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