Fintek linux GPIO / WDT Utility
Operation Manual

1. Systerm requirement

1.1 Operation System support

The Fintek linux GPIO / WDT Utility only support Ubuntu linux 12.04

1.2 Fintek IC support

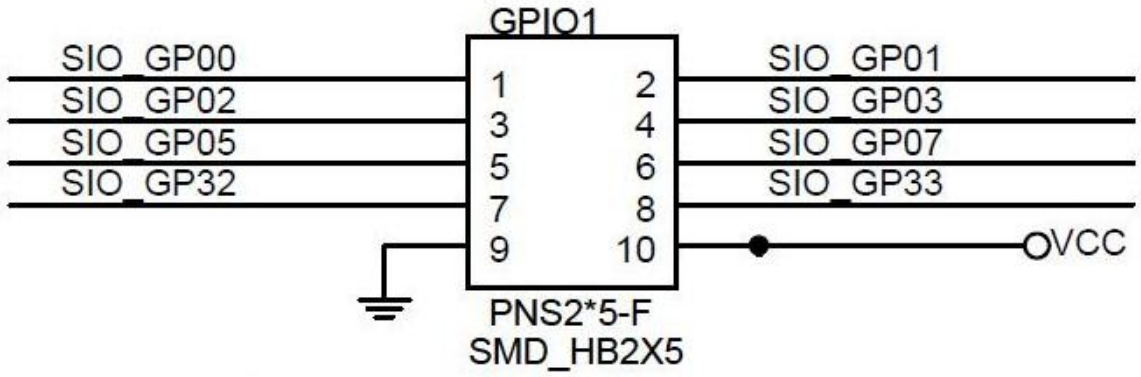
The Fintek linux GPIO / WDT Utility only for Fintek F71869A and F71808A Super IO chipset

1.3 Utility Install and Execute

The Fintek linux GPIO / WDT utility didn’ t need install to Operation System ,
direct execute command under linux console mode .

2. How to use the Fintek linux GPIO Utility ?

1. Before you run the Fintek linux GPIO command ,
   please check which GPIO used by mainboard GPIO pin header .
   example to our NF36 mainboard , the GPIO pin header pin1 use Super IO chipset GPIO 00 .



2. Fintek linux GPIO sample code utility use simple console mode running .
   Step1. make sample code
   Step2. install driver (insmod)
   Step3. run exe file command => FitGpio
   FitGpio command :
   FitGpio [GPIO] [GPIO_Mode] [GPIO_Output status]
   Example : GPIO pin header PIN1
   FitGpio 00 1 1 → set GPIO 00 , output mode , output is high level
   FitGpio 00 1 0 → set GPIO 00 , output mode , output is low level
   FitGpio 00 0 → set GPIO 00 , Input mode

3. Use Ubuntu 12.04 Example :

Please change the directory to ./Release_GPIO

#ls

#make

#sudo –s

#insmod ./Fit_Drv.ko

#./FitGpio 00 1 1

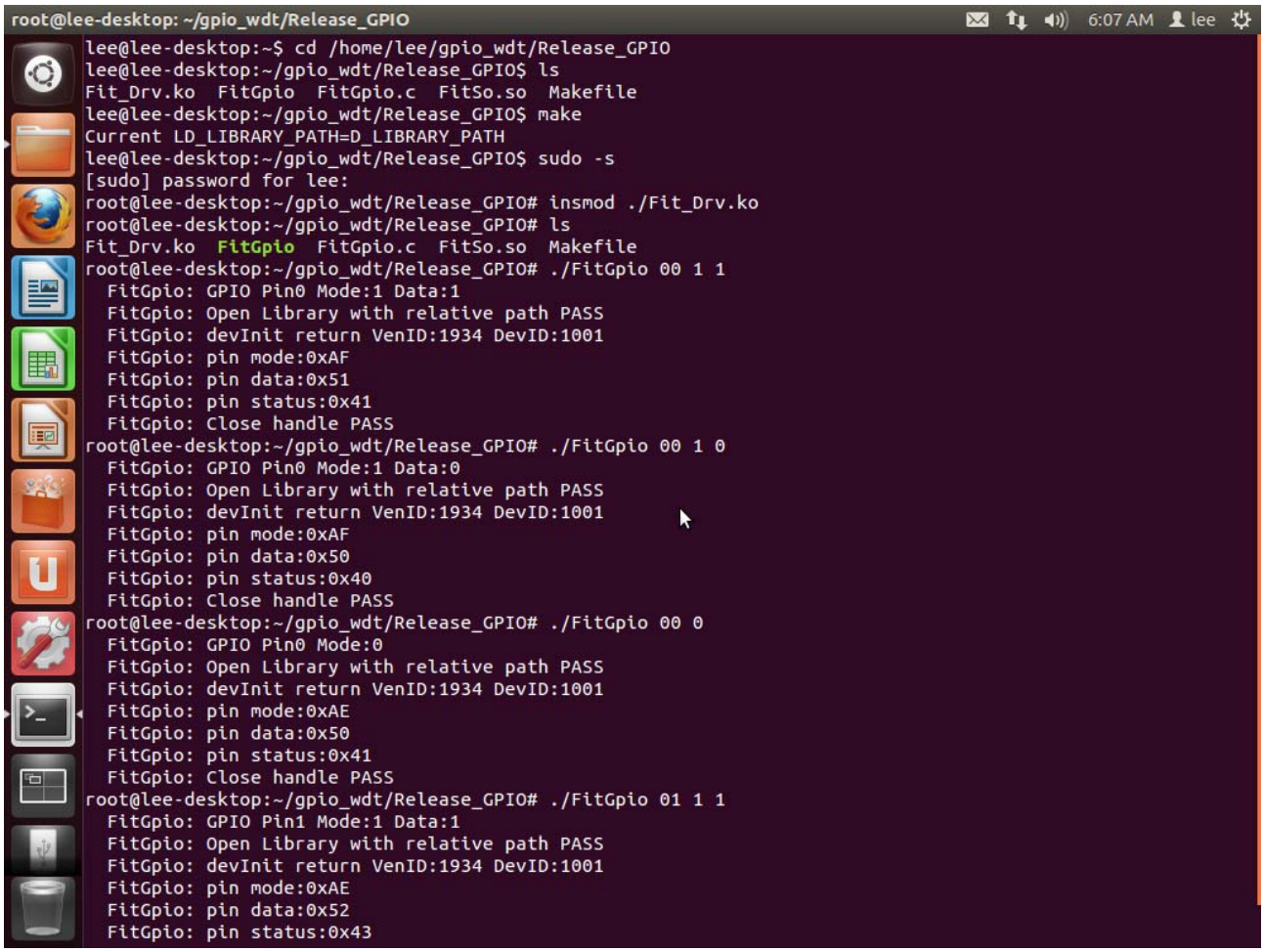
(set GPIO 00 , output mode , output is high level)

#./FitGpio 00 1 0

(set GPIO 00 , output mode , output is low level)

#./FitGpio 00 0

(set GPIO 00 , Input mode)

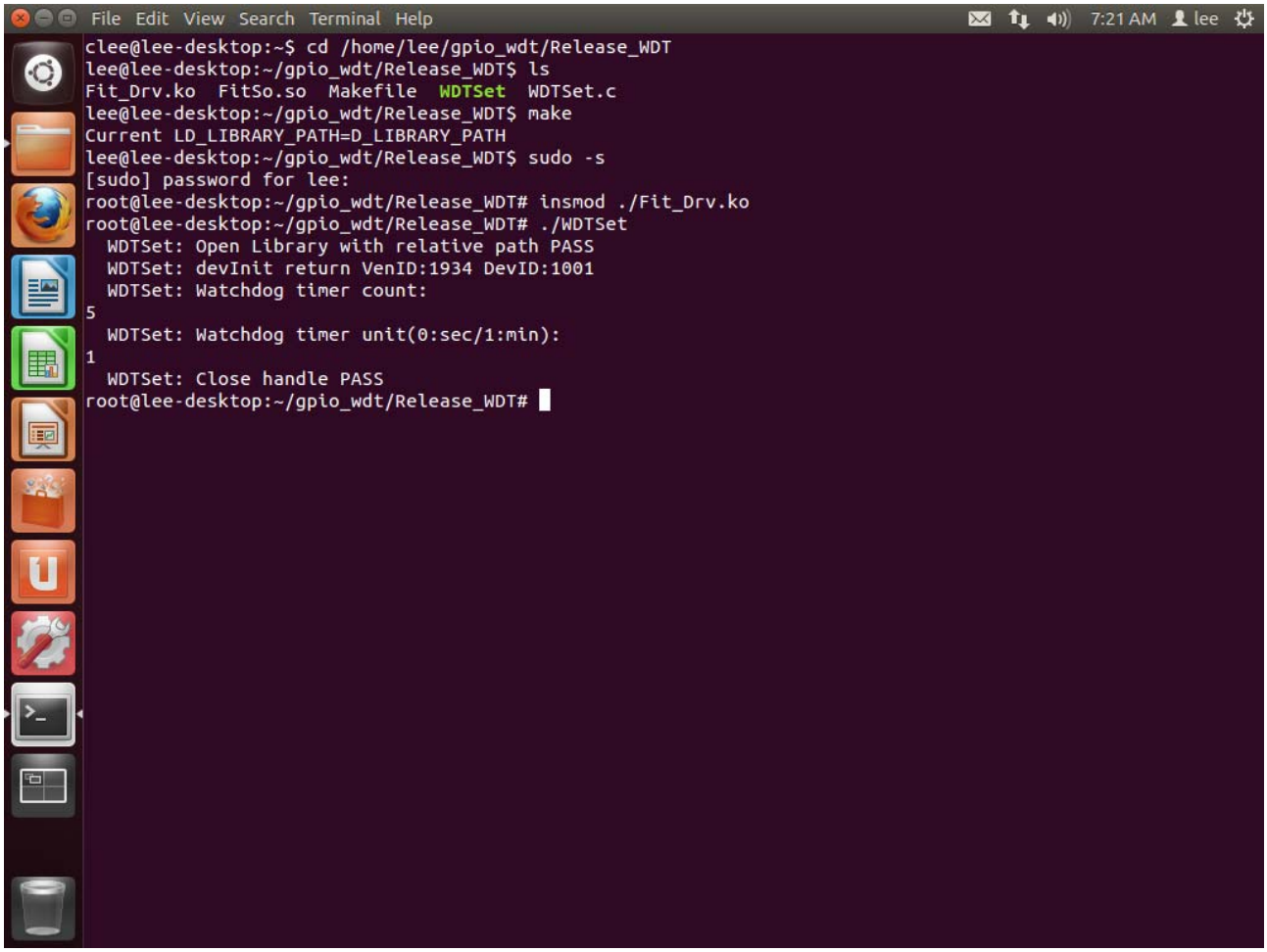


3. How to use the Fintek linux Watchdog timer Utility ?

1. Fintek linux WDT sample code utility use simple console mode running .
   Step1. make sample code
   Step2. install driver (insmod)
   Step3. run exe file command => WDTSet
   Execute the WDTSet command under terminal mode .
   #./WDTSet
   (1) After the “Watchdog timer count:” message appear ,
   please input a value for Watchdog timer register.
   (2) After the “Watchdog timer unit :” message appear ,
   Please input 0 for second or 1 for minutes .

2. Use Ubuntu 12.04 Example :
Set after 5 minutes , the system will auto restart .

Please change the directory to ./Release_WDT
#ls
#make
#sudo –s
#insmod ./Fit_Drv.ko
#./WDTSet
After the “Watchdog timer count:” message appear , input value 5 .
After the “Watchdog timer unit :” message appear , input value 1 .
After the 5 minutes , the system should be auto restart .


File Edit View Search Terminal Help
7:21 AM lee
clee@lee-desktop:~$ cd /home/lee/gpio_wdt/Release_WDT
lee@lee-desktop:~/gpio_wdt/Release_WDT$ ls
Fit_Drv.ko FitSo.so Makefile WDTSet WDTSet.c
lee@lee-desktop:~/gpio_wdt/Release_WDT$ make
Current LD_LIBRARY_PATH=D_LIBRARY_PATH
lee@lee-desktop:~/gpio_wdt/Release_WDT$ sudo -s
[sudo] password for lee:
root@lee-desktop:~/gpio_wdt/Release_WDT# insmod ./Fit_Drv.ko
root@lee-desktop:~/gpio_wdt/Release_WDT# ./WDTSet
WDTSet: Open Library with relative path PASS
WDTSet: devInit return VenID:1934 DevID:1001
WDTSet: Watchdog timer count:
5
WDTSet: Watchdog timer unit(0:sec/1:min):
1
WDTSet: Close handle PASS
root@lee-desktop:~/gpio_wdt/Release_WDT#