

Advantech AE Technical Share Document

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| Date | 2018/03/21 | SR# | 1-3389744832 |
| Category | ■FAQ □SOP | Related OS | Linux |
| Abstract | ECU-4000, How to load watchdog driver automatically after switch-on? | | |
| Keyword | | | |
| Related Product | ECU-4784 | | |

■ Problem Description:

A user needs to rebuild the watchdog driver every time reboot ECU after installing the driver.

How to avoid this step after booting up ECU?

This document demonstrates how to setup watchdog driver file and insmod instruction that the OS will load driver automatically after booting.

■ Brief Solution:

1. Use "\$ insmod..." to load driver file by OS setting. The steps is shown as follow.

A. Open file "advwdt627.c" under path: advwdt_source_v1.25\driver\627hf.

B. Modify "//#define USE_MISC" into "#define USE_MISC" like the following figure.

```
94 //#define USE_MISC
95
```

C. Execute command "\$ make".

D. Edit file "\$ vi /etc/rc.local", write the command "insmod /YOUR_PATH/advwdt627.ko".

```
12 # By default this script does nothing.
13 insmod /home/ae/Documents/advwdt_source_v1.26/driver/627hf/advwdt627.ko
14 exit 0
```

E. Save the rc.local file.

F. Reboot ECU

G. You can see the driver is loaded automatically after "\$ lsmod |grep advwdt627".

```
ae@ae-desktop: ~/Documents/driver/beta_WDT_20180305/advwdt_source_v1.25/examples$
ae@ae-desktop:~$ lsmod |grep advwdt627
advwdt627      16384  0
ae@ae-desktop:~$ cd Documents/driver/beta_WDT_20180305/advwdt_source_v1.25/examples/
ae@ae-desktop:~/Documents/driver/beta_WDT_20180305/advwdt_source_v1.25/examples$
sudo ./testwdt -e
```