

How to set driver debug log level

2016/02/22

1 Introduction.

1.1 The driver's debug log level is as follows,

```
enum {  
    _DRV_NONE_ = 0,  
    _DRV_ALWAYS_ = 1,  
    _DRV_ERR_ = 2,  
    _DRV_WARNING_ = 3,  
    _DRV_INFO_ = 4,  
    _DRV_DEBUG_ = 5,  
    _DRV_MAX_ = 6  
};
```

1.2 The default log level is “_DRV_INFO_”.

1.3 The default compiling flag is “CONFIG_RTW_DEBUG”, which is defined in “Makefile”.

2 How to change debug log level during runtime.

2.1 Use the following command to set different log level.

```
# echo x > /proc/net/rtl8723bs/log_level
```

x : is a number mapping to log level in driver.

For example, if you want to change to log level to “_DRV_ERR_”, please execute the command below,

```
# echo 2 > /proc/net/rtl8723bs/log_level
```

3 How to change debug log level during inserting driver module.

For example for change log level to _DRV_WARNING_

```
# insmod 8723bs.ko rtw_drv_log_level=3
```

4 How to disable all debug log level during runtime and inserting driver module.

4.1 during runtime, please execute the command below,

```
# echo 0 > /proc/net/rtl8723bs/log_level
```

4.2 during inserting driver module , please execute the command below,

```
# insmod 8723bs.ko rtw_drv_log_level=0
```

5 How to check current log level during runtime

Use the following command to check log level,

```
# cat /proc/net/rtl8723bs/log_level
```

```
drv_log_level:4
  _DRV_NONE_ = 0
  _DRV_ALWAYS_ = 1
  _DRV_ERR_ = 2
  _DRV_WARNING_ = 3
+ _DRV_INFO_ = 4
  _DRV_DEBUG_ = 5
  _DRV_MAX_ = 6
```

This example shows the current log level is 4 (`_DRV_INFO_`).

6 How to change debug log level during compiling time.

6.1 In Makefile, please look for “`CONFIG_RTW_LOG_LEVEL`”, and then you can modify its value to proper debug log level during compiling time.

7 How to disable all debug log during compiling time.

7.1 There are two methods to disable debug log.

7.1.1 Method A: in Makefile, please look for “`CONFIG_RTW_DEBUG = y`”, and then change the “y” to “n”.

7.1.2 Method B: also in Makefile, please look for “`CONFIG_RTW_LOG_LEVEL`”, and then change the default value to 0

8 Notes: please change the term “rtl8723bs” to correct chip’s name.