

ASROCKRACK TECHNICAL DOCUMENT (NOVEMBER/2024)

Q: How to adjust BIOS Setting locally with BIOS_Control Tool in Linux?

Preparation

 Please download the BIOS Control Tool below, which is executed in Linux BIOSControl v1.0.6A.zip



2. Linux Environment

Notice

- 1. This tool is only for local, remote mode is unsupported
- 2. Please refer to ReadMe Note first in the file, the following steps would give you the instruction of this tool

Step

1.

To unzip the attachment, we run **#sudo unzip BIOSControl_v1.0.6A.zip** (The environment is in Ubuntu 24.04)

2.

Enter Driver folder then run: #sudo chmod 777 Install.sh #sudo make #sudo ./Install.sh

3.

Back to the **previous folder**, then we run

#sudo chmod 777 BIOSControl

to get the permissions of BIOSControl Tool

```
tsd@tsd-GENOAD8UD-2T-X550:~/Documents/driver$ cd ..
tsd@tsd-GENOAD8UD-2T-X550:~/Documents$ sudo chmod 777 BIOSControl
```

4.

Dump the BIOS Data and check the parameters you want to modify The command instruction and example would show below We run

#sudo ./BIOSControl /g BIOS_INFO #cat BIOS INFO

The utilization of the tool:

```
Dump the Data:
BIOSContorl /g "Output Filename"
Input the Data By parameters:
BIOSContorl T="Title" V="Value"
Input parameters example:
BIOSContorl T="Fast Boot" V=2
```

For example:

If you want to modify the CSM mode, you can grep the keywords by commands

```
tsd@tsd-GENOAD8UD-2T-X550:~/Documents$ cat BIOS_INFO | grep CSM -C 20

You can check 20 lines before and after of your keyword(CSM) by this parameter
```

The result shows below:

```
"HII Default Value" : 2,
         "Help" : "Enable to launch the Compatibility Support Module. If you are
ot speed.",
         "PkgListGuid" : "{899407D7-99FE-43D8-9A21-79EC328CAC21}",
         "Question Id" : 384,
         "Title" : "CSM",
         "Valid Value" :
                  {
                           "Title" : "Disabled",
                           "Value" : 0
                           "Title" : "Enabled",
                                                                   T="CSM" V=2}
                           "Value" : 1
                           "Title" : "Custom",
                           "Value" : 2
                                      the CSM mode (1 means Enabled)
         "Value" : 1, The
         "Value Type" : "UINT8",
"VarGuid" : "{EC87D643-EBA4-4BB5-A1E5-3F3E36B20DA9}",
         "VarInfo Offset" : 337
```

5.
To set the CSM mode to Custom
we run
#sudo ./BIOSControl T="CSM" V=2

Then run

#sudo ./BIOSControl /g BIOS_INFO_UPDATE #cat BIOS_INFO_UPDATE | grep CSM -C 20

to dump and check the BIOS Data after update

*You can also reboot and check the BIOS Setting

tsd@tsd-GENOAD8UD-2T-X550:~/Documents\$ cat BIOS_INFO_UPDATE | grep CSM -C 20

```
"HII Default Value" : 2,
        "Help" : "Enable to launch the Compatibility Support Module
ot speed.",
        "PkgListGuid": "{899407D7-99FE-43D8-9A21-79EC328CAC21}",
        "Question Id" : 384,
"Title" : "CSM",
        "Valid Value" :
                          "Title" : "Disabled",
                          "Value" : 0
                         "Title" : "Enabled",
                         "Value" : 1
                         "Title" : "Custom",
                         "Value" : 2
        "Value" : 2,
        "Value Type" : "UINT8",
        "VarGuid" : "{EC87D643-EBA4-4BB5-A1E5-3F3E36B20DA9}",
        "VarInfo Offset" : 337
```