

Acer BIOS Flash SOP

(For ME uEFI BIOS)

Document: SOP

Issue Date: 09/29/2012

Document Revision: v1.4

	APPROVED	CHECKED	PREPARED
BY	Vincent Lu	Seabird Fang	Eleven Luo
DATE	09/29/2012	09/29/2012	09/29/2012

This document contains proprietary and confidential information of Foxconn. All rights and titles hereto remain with Foxconn. The recipient shall keep this document in strict confidence and shall use this document in the manner and solely for purposes expressly agreed to by Foxconn. The recipient shall not disclose or allow access to this document, in whole or in part, by third parties, nor use it for the benefit of the recipient or third parties. The recipient shall not change this document in form and substance by any means, including without limitation, decompile, reproduce, revise, and amend.

[illegible]

目录

Flash System uEFI BIOS SOP for DOS:..... 4

Flash ME uEFI BIOS SOP for DOS:..... 8

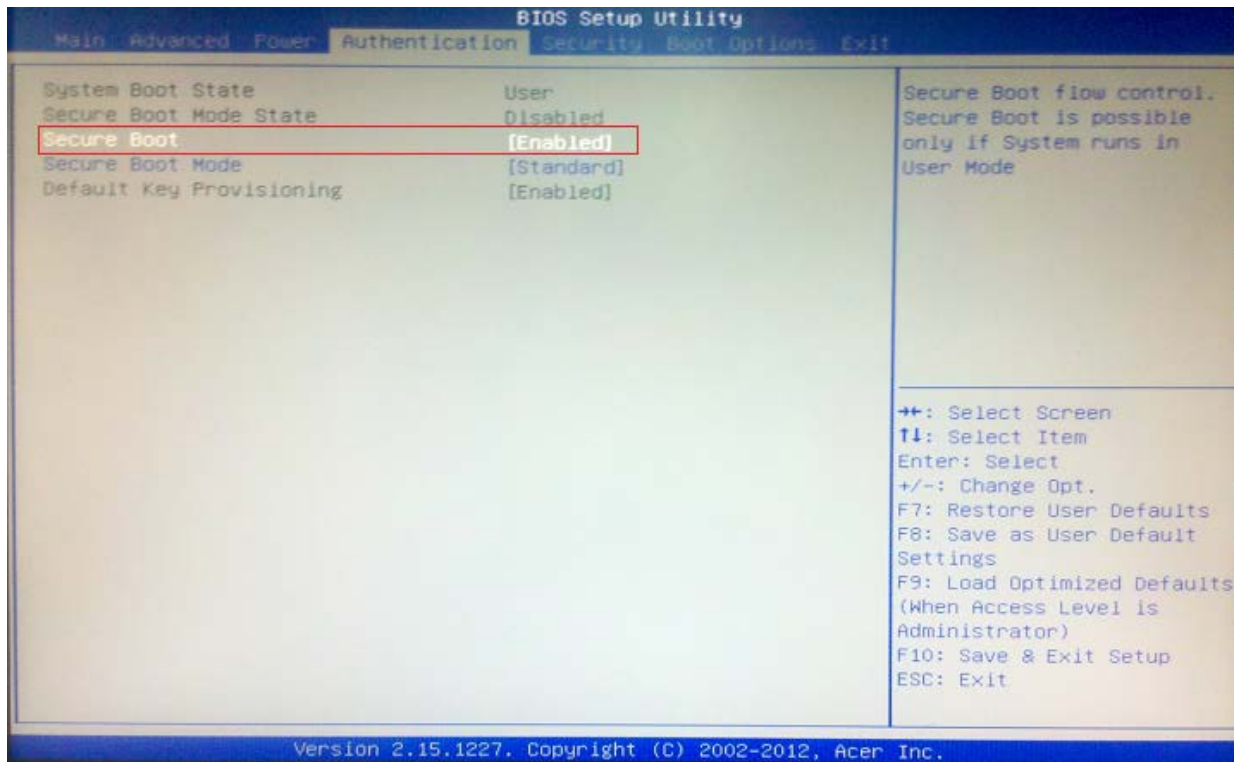
Flash System uEFI BIOS SOP for Windows:..... 13

Flash System uEFI BIOS SOP for UEFI Shell(64bit):..... 16

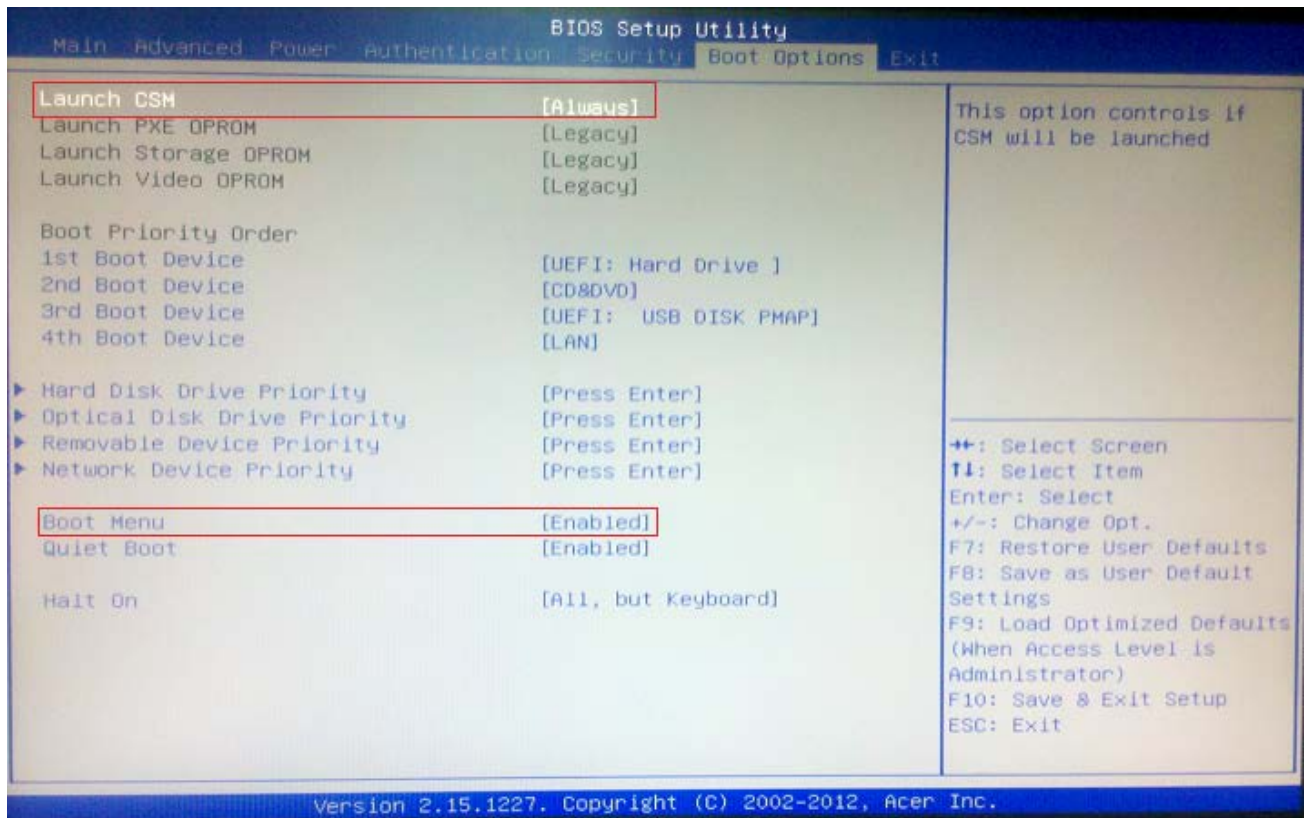
Flash ME uEFI BIOS SOP for UEFI Shell(64bit):..... 21

Flash System uEFI BIOS SOP for DOS:

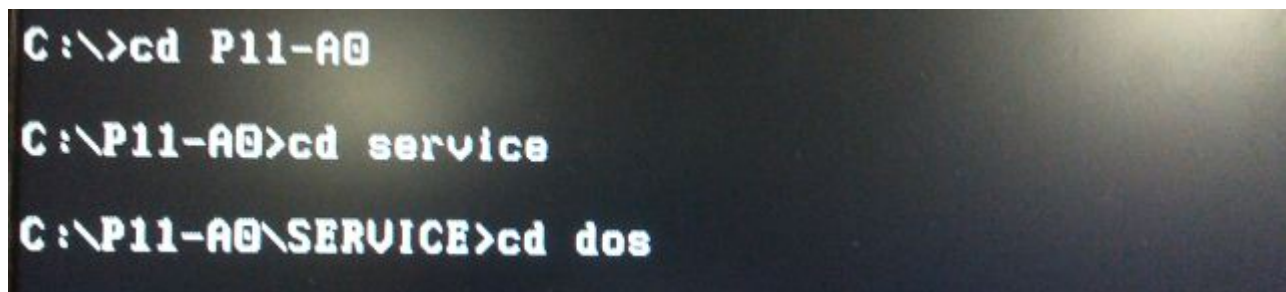
1. Copy BIOS folder to USB Disk. You can rename the BIOS folder. For example: rename to P11-A0.
2. Press Del key to enter BIOS setup when logo appeared.
3. Choose "Authentication" page, modify "Secure Boot" to "Disabled". If its default setting is "Disabled", don't change it.



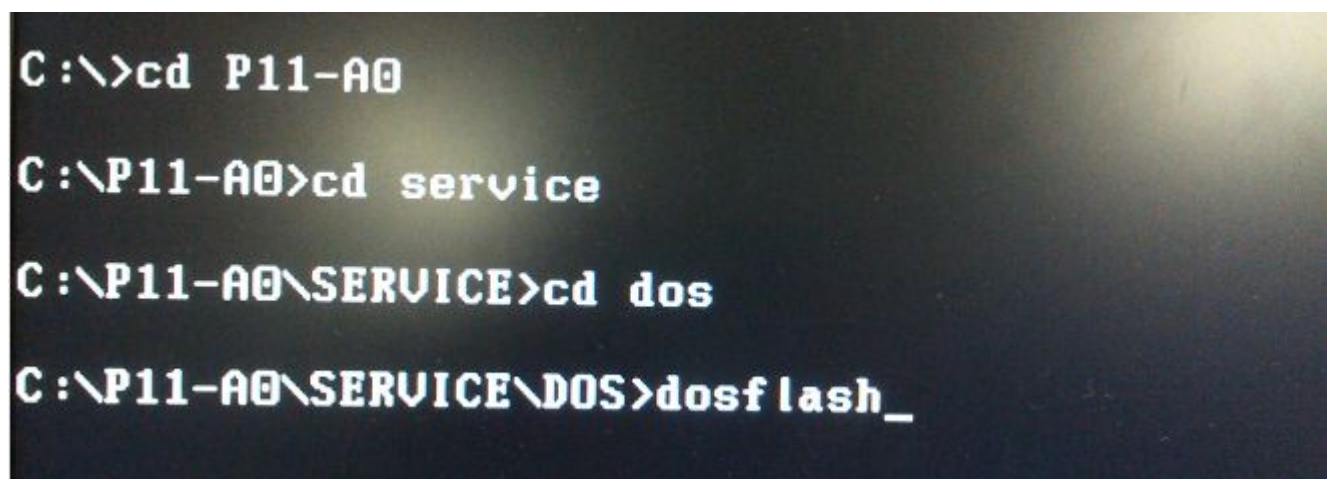
4. Then choose "Boot Options" page and modify "Launch CSM" to "Always", "Boot Menu" to "Enabled". If its default setting is ok, don't change it.



5. Choose "Exit" page, select "Save&Exit Setup", and press enter, then select "Yes" to restart.
6. Press F12 to choose U-disk boot to boot into DOS mode.
7. Enter BIOS folder.
8. Enter BIOS flash batch file folder. In general, it is "..\DOS\.." folder, For example: "Service\DOS\3M".



9. Execute batch file, such as "dosflash.bat" file.



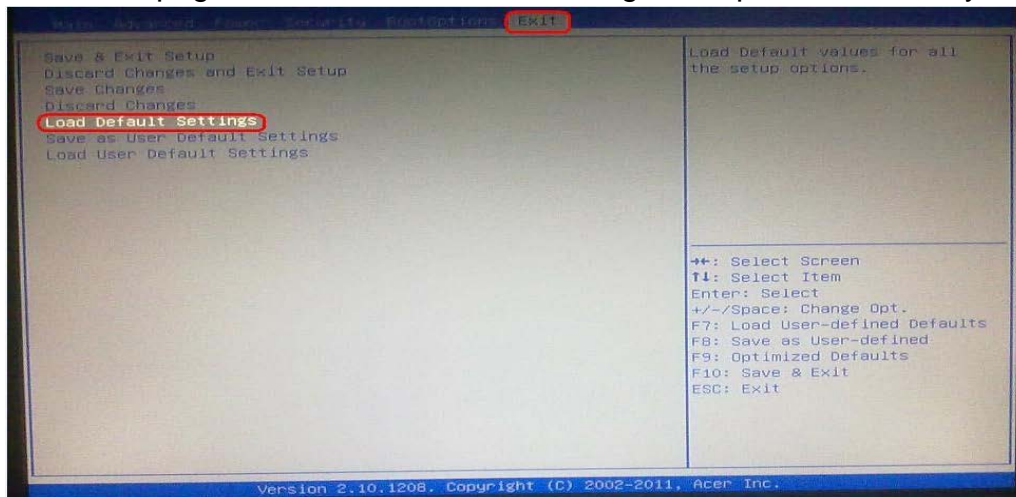
10. Process to flash BIOS (Don't reset)


```

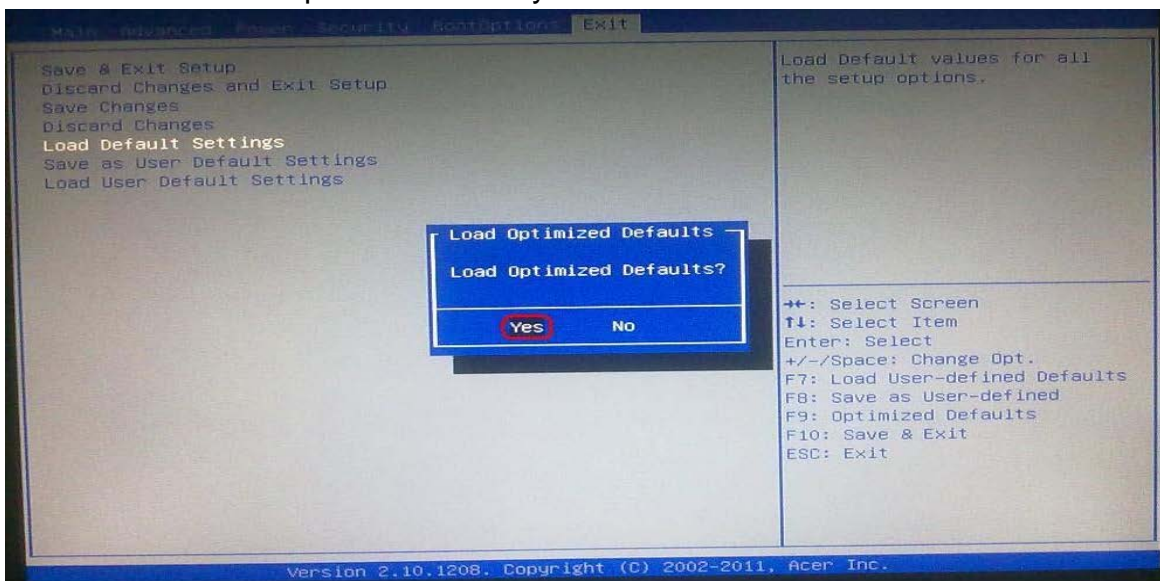
C:\P11-A0\SERVICE\DOS>dosflash
C:\P11-A0\SERVICE\DOS>AFUDOS ..\ROM\C43A1015.CAP /P /B /N /R
+-----+
|              AMI Firmware Update Utility v3.02.00              |
|      Copyright (C)2012 American Megatrends Inc. All Rights Reserved.      |
+-----+
Reading flash ..... done
Secure Flash enabled, recalculate ROM size with signature...
- FFS checksums ..... ok
Loading capsule to secure memory buffer ... done
Erasing Boot Block ..... done
Updating Boot Block ..... done
Verifying Boot Block ..... done
Erasing Main Block ..... done
Updating Main Block ..... 0x00140000 (26x)

```

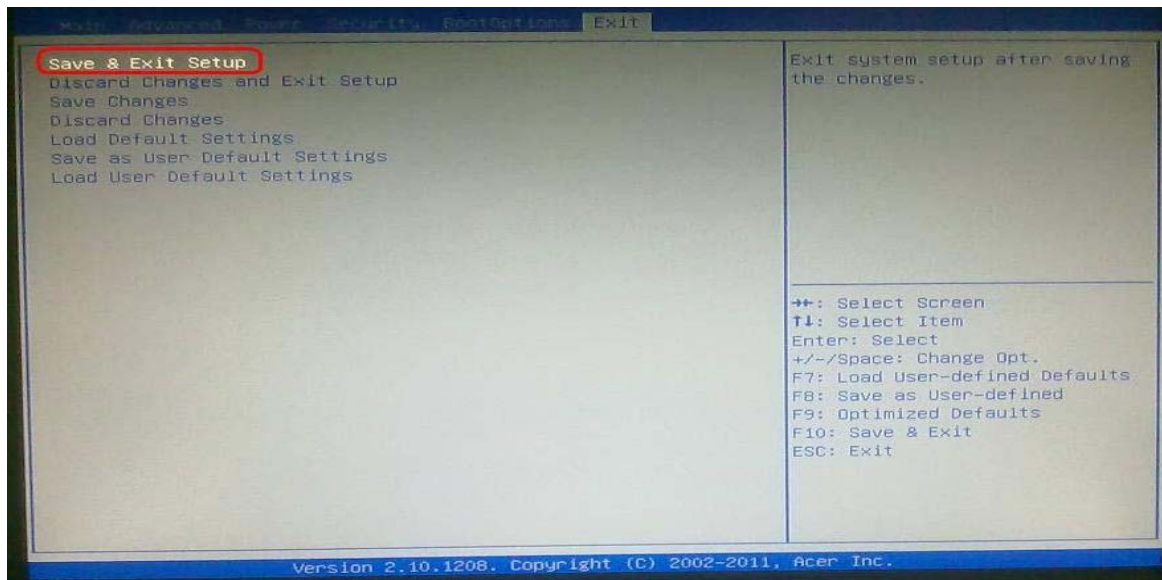
11. When finished BIOS update, please press any key to reboot the system.
12. Press “**Del**” to enter BIOS setup.
13. In Exit page, select “Load Default Settings” and press “Enter” key.



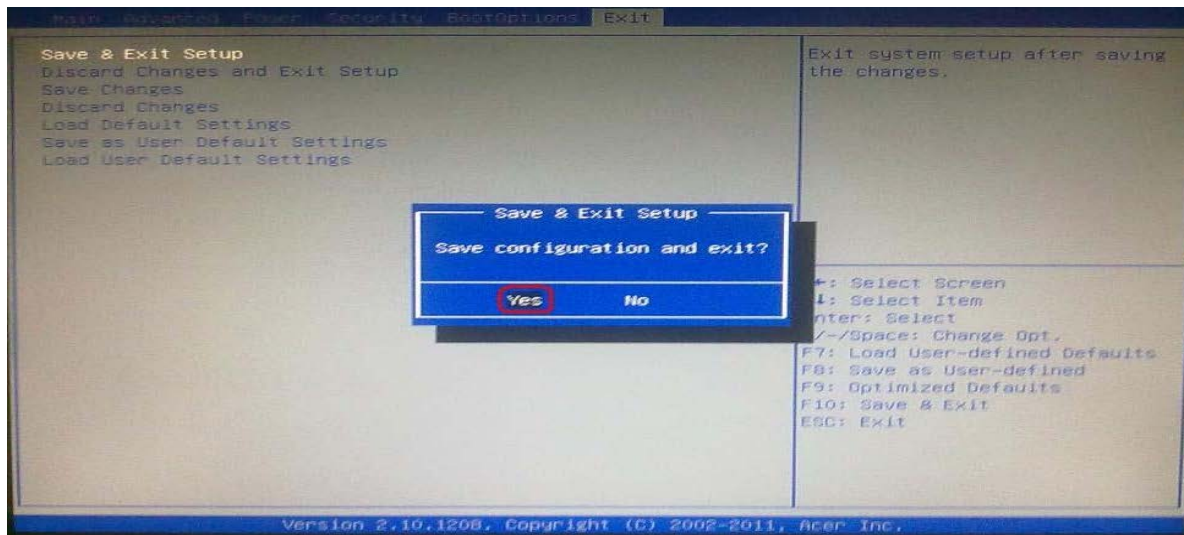
14. Select “Yes” and press “Enter” key.



15. Select “Save & Exit Setup” and press “Enter” key.



16. Select "Yes" and press "Enter" key.



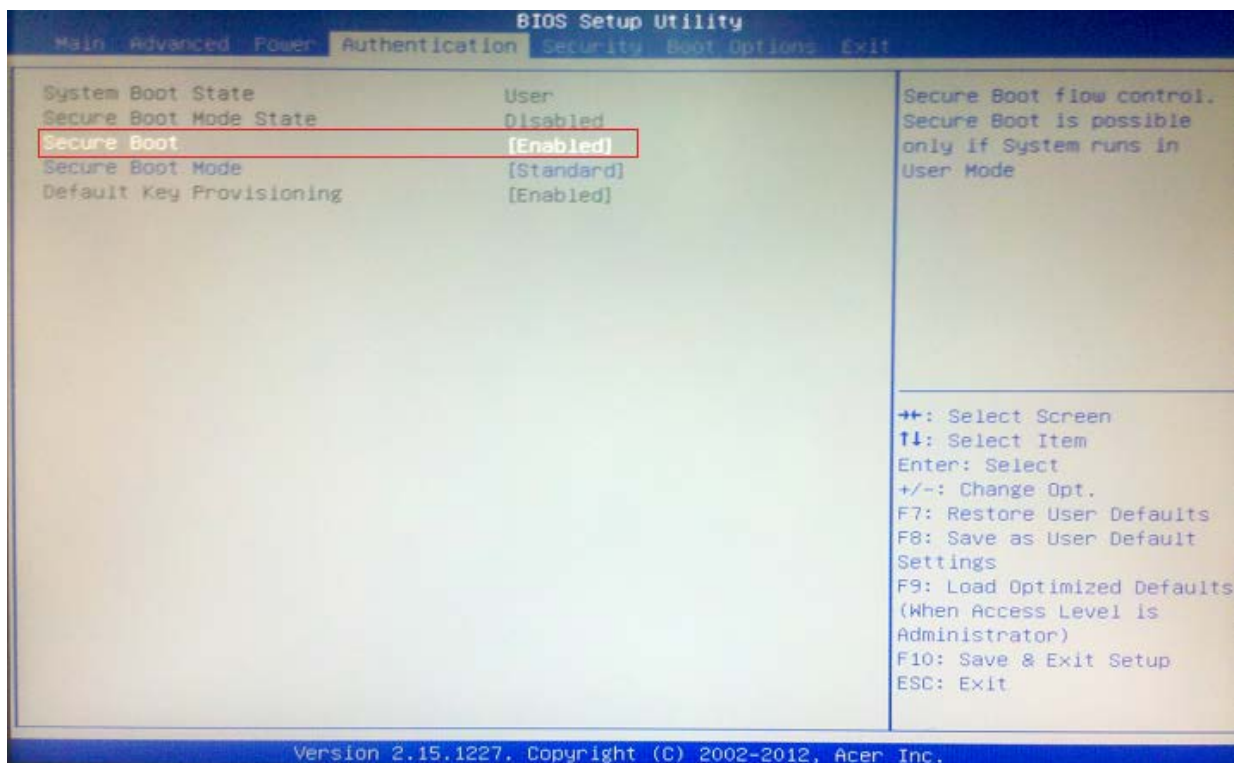
17. Flash BIOS is finished.

Flash ME uEFI BIOS SOP for DOS:

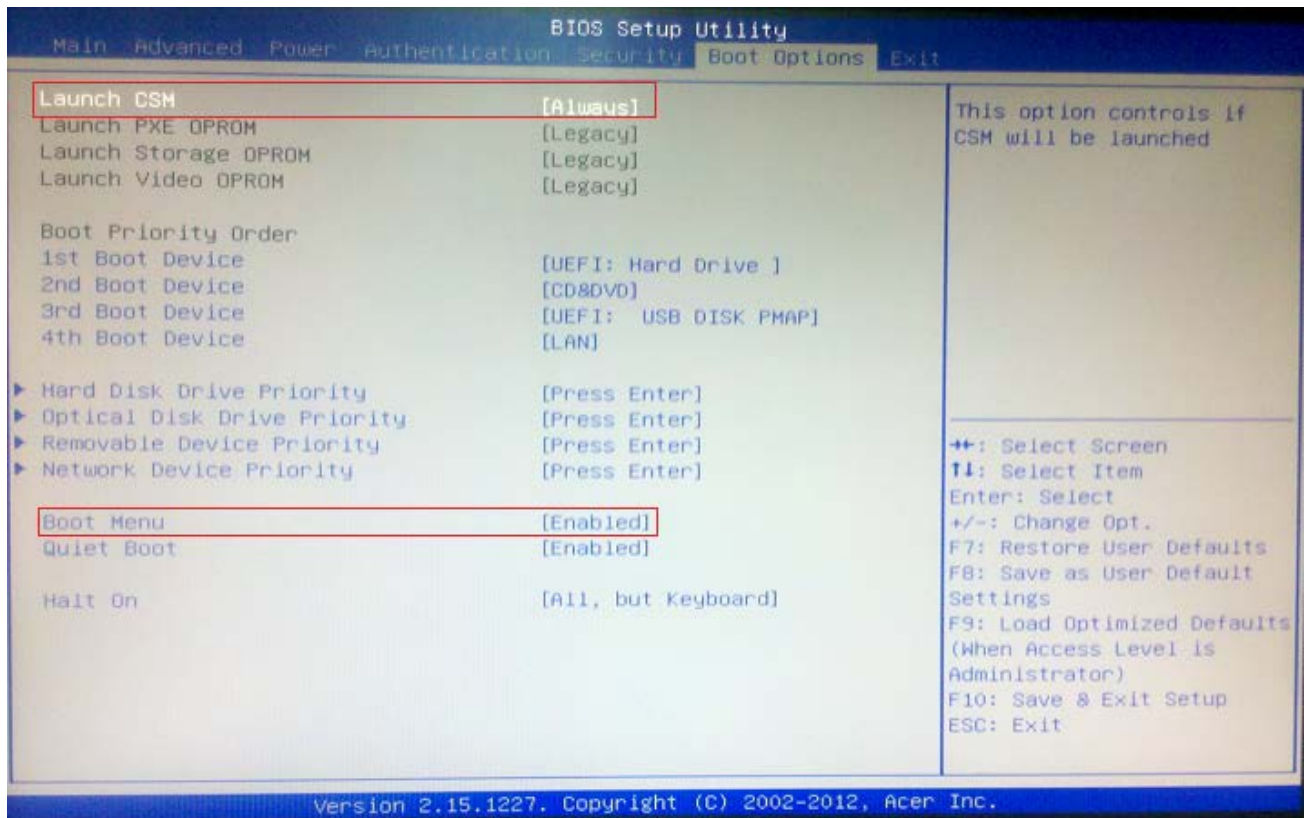
1. Copy BIOS folder to USB Disk. You can rename the BIOS folder. For example: rename to P01-A0.
2. Disabled ME:Jumper “PCH_ME_ENABLE” as below picture.



3. Press Del key to enter BIOS setup when logo appeared.
4. Choose “Authentication” page,modify “Secure Boot” to “Disabled”.If its default setting is “Disabled”,don’t change it.



5. Then choose “Boot Options” page and modify “Launch CSM” to “Always”, “Boot Menu” to “Enabled”.If its default setting is ok,don’t change it.



6. Choose "Exit" page, select "Save&Exit Setup", and press enter, then select "Yes" to restart.
7. Press F12 to choose U-disk boot to boot into DOS mode.
8. Enter BIOS folder.
9. Enter BIOS flash batch file folder. In general, it is "..\DOS\" folder, For example: "Service\DOS\3M".

```
C:\>cd P01-A0
C:\P01-A0>cd service
C:\P01-A0\Service>cd me
C:\P01-A0\Service\ME>cd dos
```

10. Execute "flash.bat" file, Choose different batch files for different platform by case.

```
C:\>cd P01-A0
C:\P01-A0>cd service
C:\P01-A0\Service>cd me
C:\P01-A0\Service\ME>cd dos
C:\P01-A0\Service\ME\DOS>flash_
```

11. Process to flash BIOS (Don't reset).


```

C:\P01-A0\Service\ME\DOS>flash

Intel (R) Flash Programming Tool. Version: 8.1.0.1248
Copyright (c) 2007 - 2012, Intel Corporation. All rights reserved.

Platform: Intel(R) HM77 Express Chipset
Reading HSFSTS register... Flash Descriptor: Valid

--- Flash Devices Found ---
W25Q64BV      ID:0xEF4017      Size: 8192KB (65536Kb)

PDR Region does not exist.

- Reading Flash [0x500000] 510KB of 510KB - 100% complete.
- Erasing Flash Block [0x005000] - 100% complete.
- Programming Flash [0x005000] 4KB of 4KB - 100% complete.
- Erasing Flash Block [0x007000] - 100% complete.
- Programming Flash [0x007000] 4KB of 4KB - 100% complete.

```

Note: The fpt tool version is by case.

Note: Flash ME.

```

Copyright (c) 2007 - 2012, Intel Corporation. All rights reserved.

Platform: Intel(R) HM77 Express Chipset
Reading HSFSTS register... Flash Descriptor: Valid

--- Flash Devices Found ---
W25Q64BV      ID:0xEF4017      Size: 8192KB (65536Kb)

PDR Region does not exist.

- Reading Flash [0x003000] 8KB of 8KB - 100% complete.
- Verifying Flash [0x003000] 8KB of 8KB - 100% complete.
RESULT: The data is identical.

FPT Operation Passed

+-----+
|               AMI Firmware Update Utility v3.02.00               |
|      Copyright (C)2012 American Megatrends Inc. All Rights Reserved      |
+-----+

Reading flash ..... done
Secure Flash enabled, recalculate ROM size with signature...
- FFS checksums ..... ok

```

Note: Flash GBE if used Intel Gbe LAN by case and System BIOS.

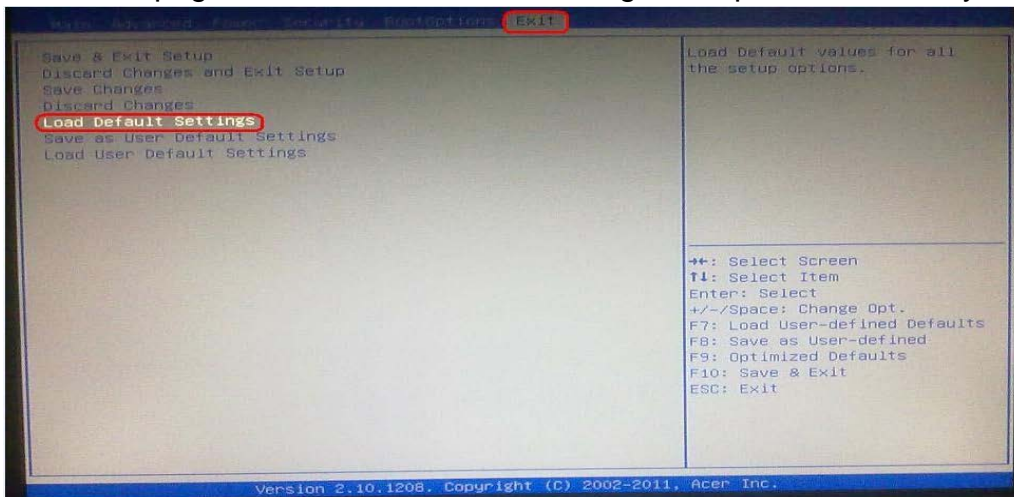
12. After finished flashing BIOS, please unplug power cord.

13. Enabled ME: Jumper "PCH_ME_ENABLE" as below picture.

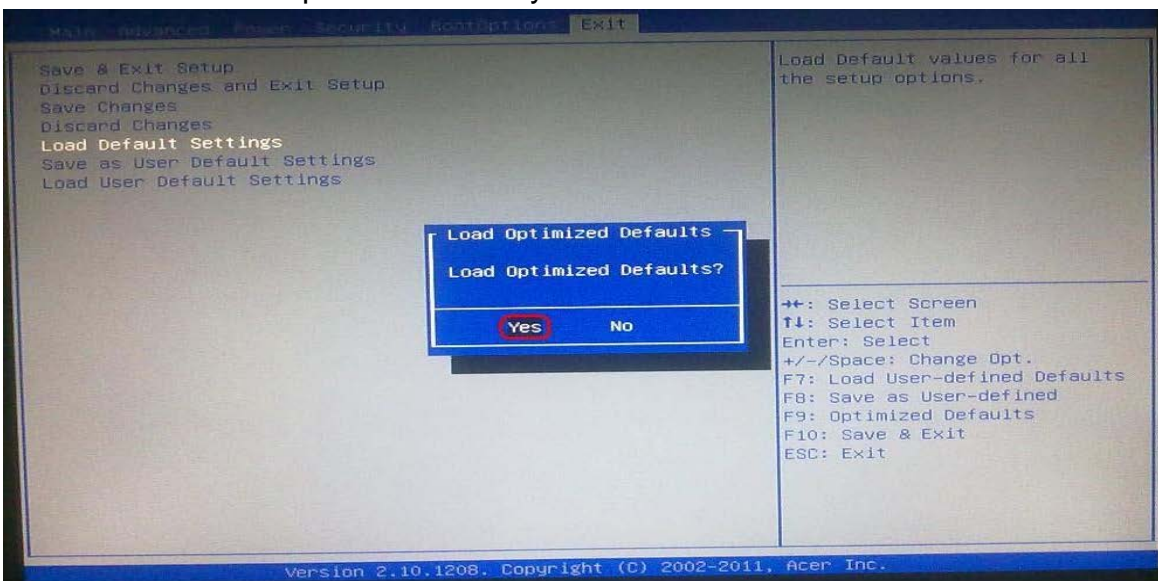


14. Power on again ,and press “Del” to enter BIOS setup.

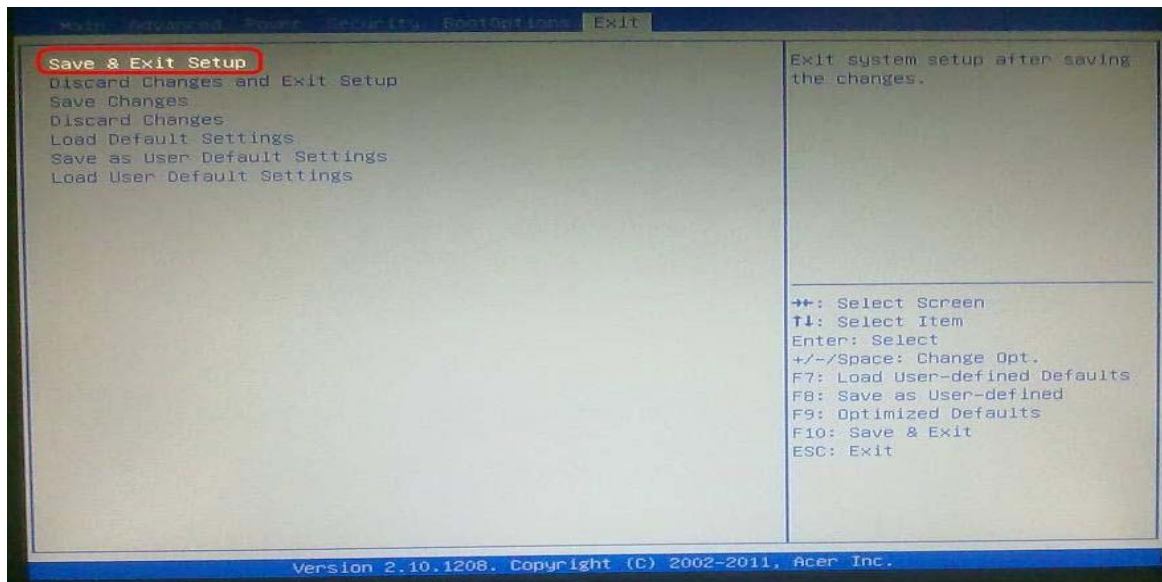
15. In Exit page, select “Load Default Settings” and press “Enter” key.



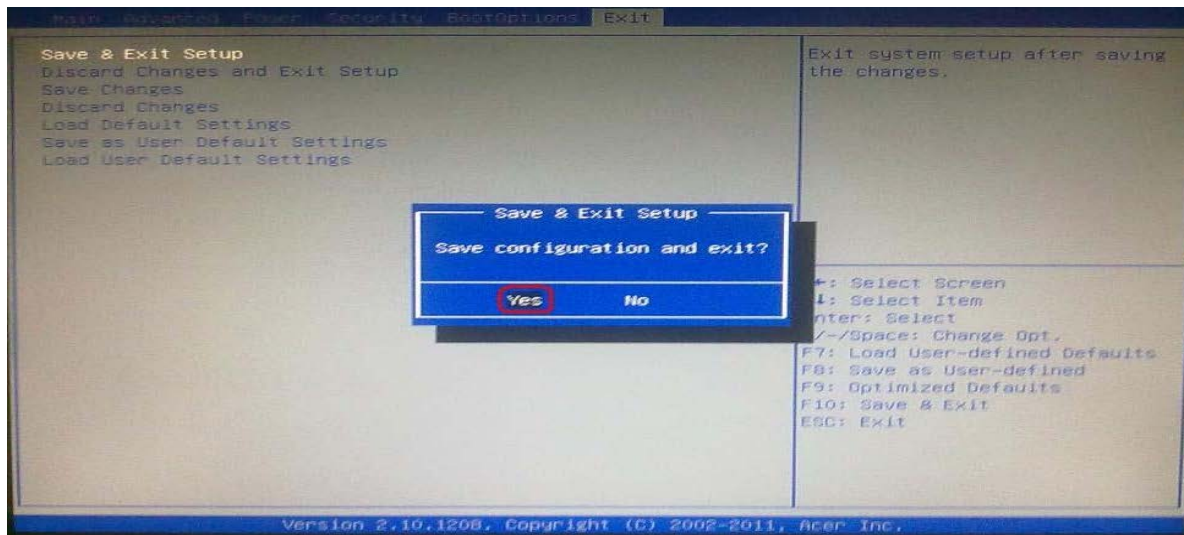
16. Select “Yes” and press “Enter” key.



17. Select “Save & Exit Setup” and press “Enter” key.



18. Select "Yes" and press "Enter" key.



19. Flash BIOS is finished.

Flash System uEFI BIOS SOP for Windows:

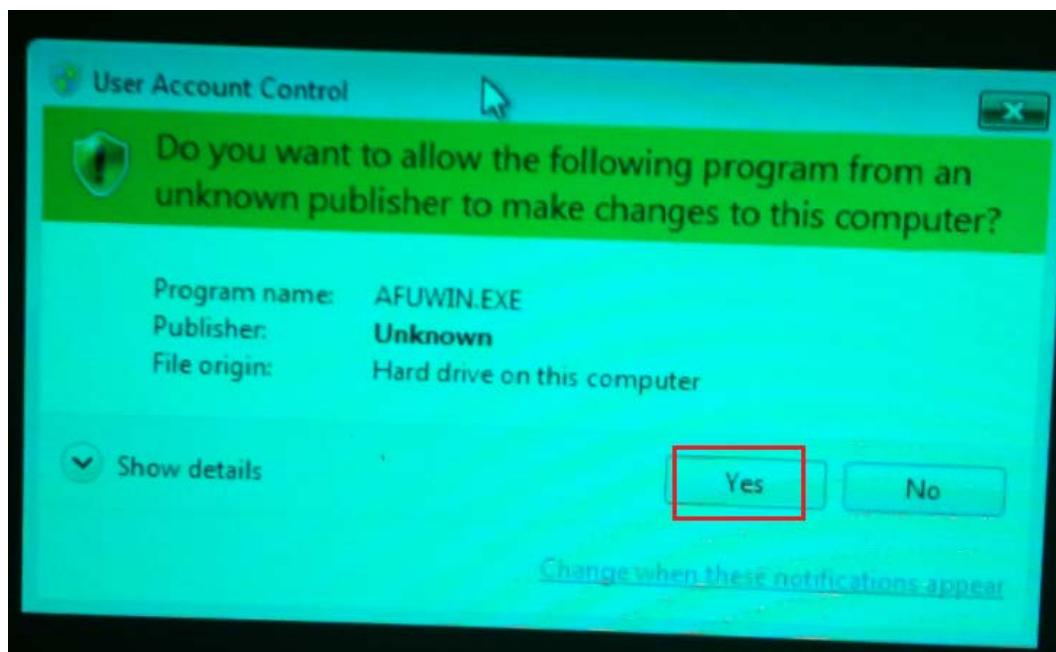
1. Open “WIN\win32” folder if using Windows 32bit or Open “WIN\win64” folder if using Windows 64bit.

名称	修改日期	类型	大小
win32	2011/11/9 13:47	文件夹	
win64	2011/11/9 13:47	文件夹	

2. Please double click “Winflash.bat”.

Name	Date modified	Type	Size
AFUWINGUI	7/17/2012 11:43 AM	Application	665 KB
AFUWINGUI	5/23/2011 1:37 AM	Text Document	6 KB
afuwinx64	7/17/2012 11:43 AM	Application	330 KB
AFUWINx64	7/6/2012 3:08 PM	Text Document	3 KB
AMI_Aptio_AFU_User_Guide_NDA	7/6/2012 3:10 PM	PDF File	317 KB
amifldr32.sys	4/20/2012 11:16 AM	System file	13 KB
amifldr64.sys	4/20/2012 11:16 AM	System file	16 KB
readme	7/6/2012 3:08 PM	Text Document	4 KB
readme_afuwin	1/6/2012 5:12 PM	Text Document	1 KB
Winflash	8/22/2012 8:45 PM	Windows Batch File	1 KB

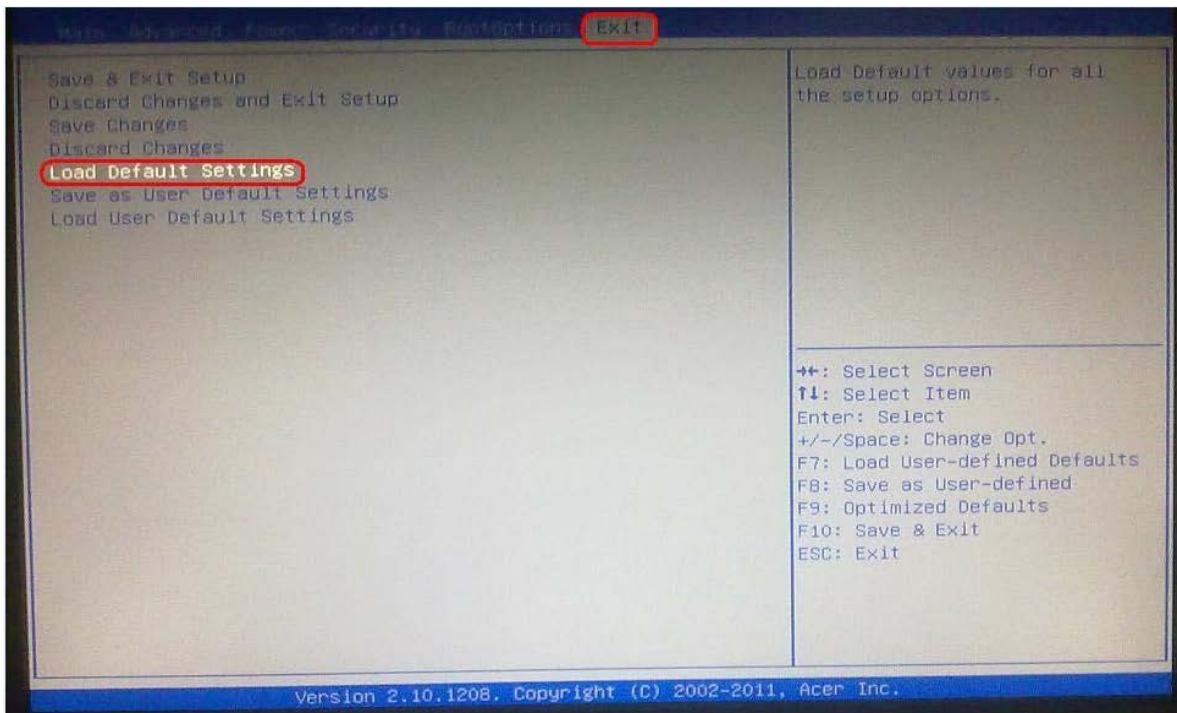
3. Press “Yes” to continue flashing BIOS.



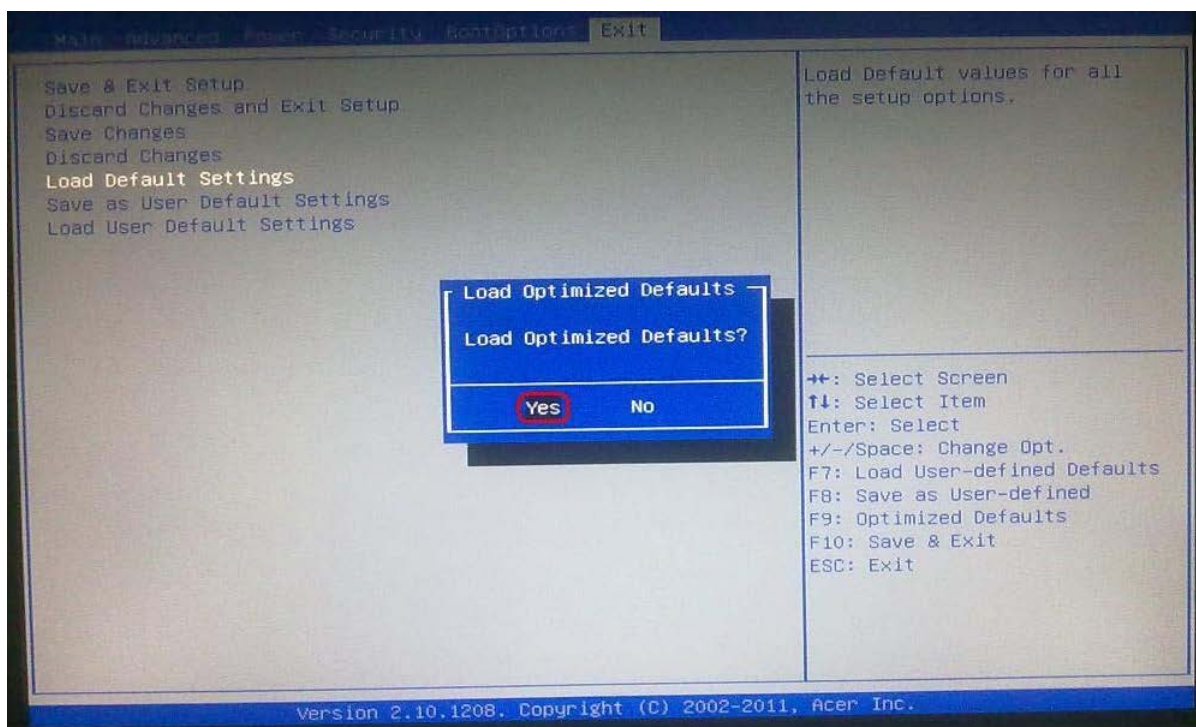
4. Please waiting BIOS update process. Please restart you system after updating BIOS completely.

5. When system restart, please press “Del” to enter BIOS Setup.

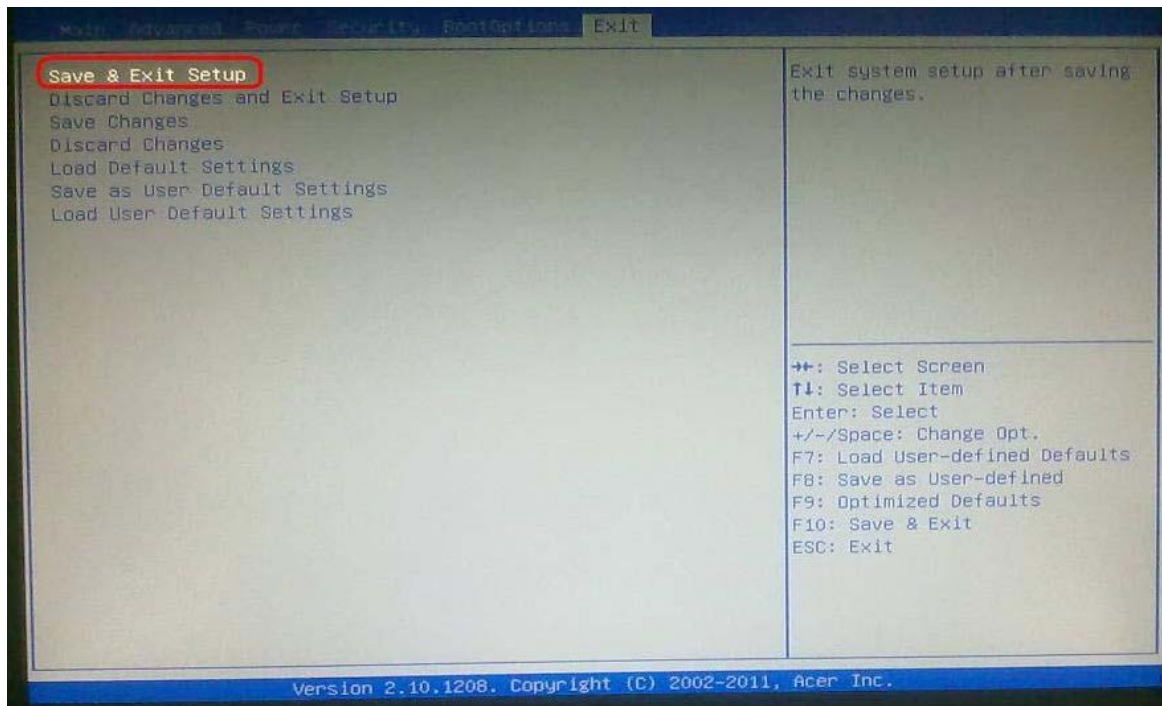
6. In Exit page, select “Load Default Settings” and press “Enter” key.



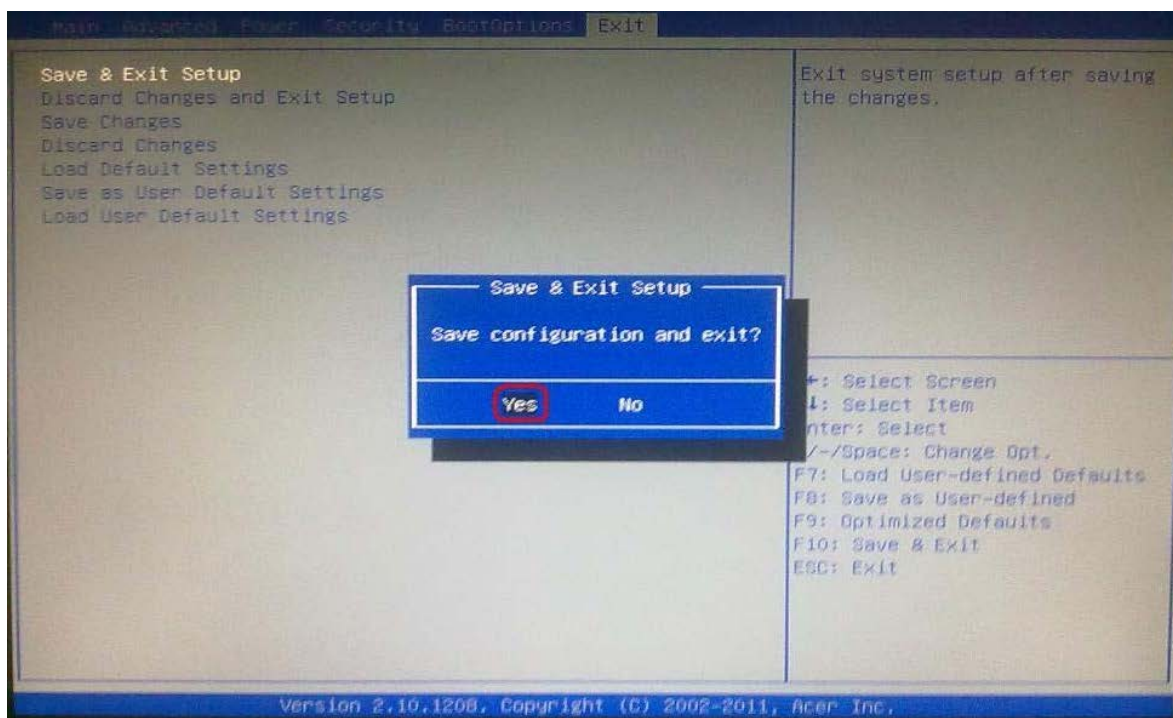
7. Select "Yes" and press "Enter" key.



8. Select "Save & Exit Setup" and press "Enter" key.



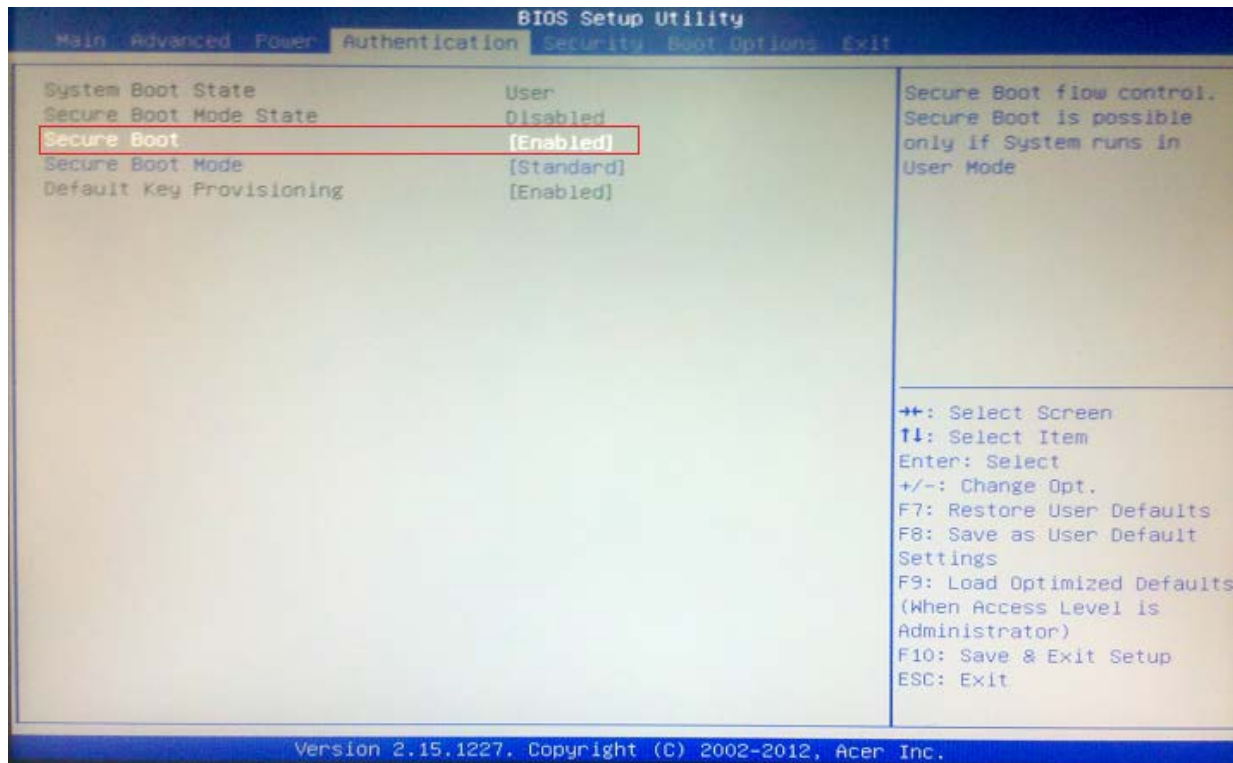
9. Select "Yes" and press "Enter" key.



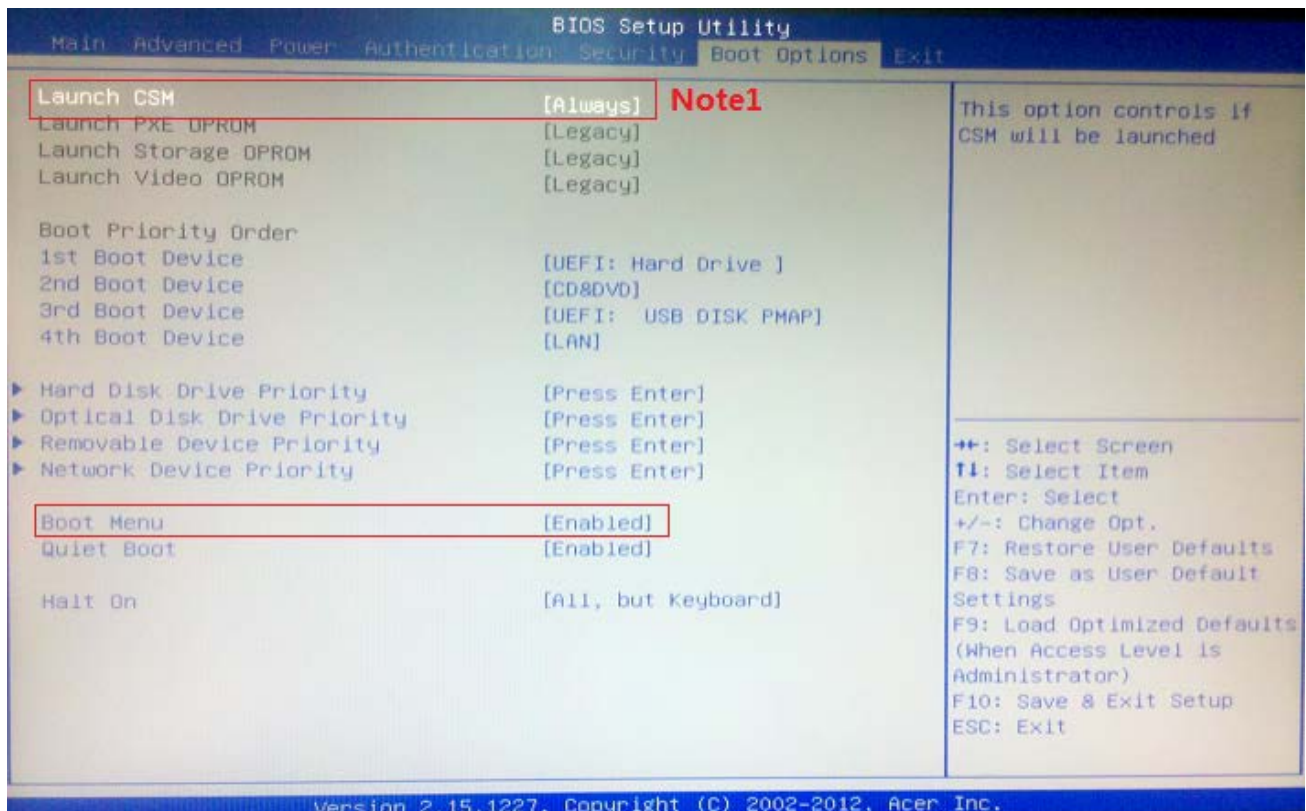
10. Flash BIOS is finished.

Flash System uEFI BIOS SOP for UEFI Shell(64bit):**A: For Built-in EFI shell:**

1. Copy BIOS folder to USB Disk. You can rename the BIOS folder. For example: rename to P01-A0.
2. Press Del key to enter BIOS setup when logo appeared.
3. Choose "Authentication" page, modify "Secure Boot" to "Disabled". If its default setting is "Disabled", don't change it.

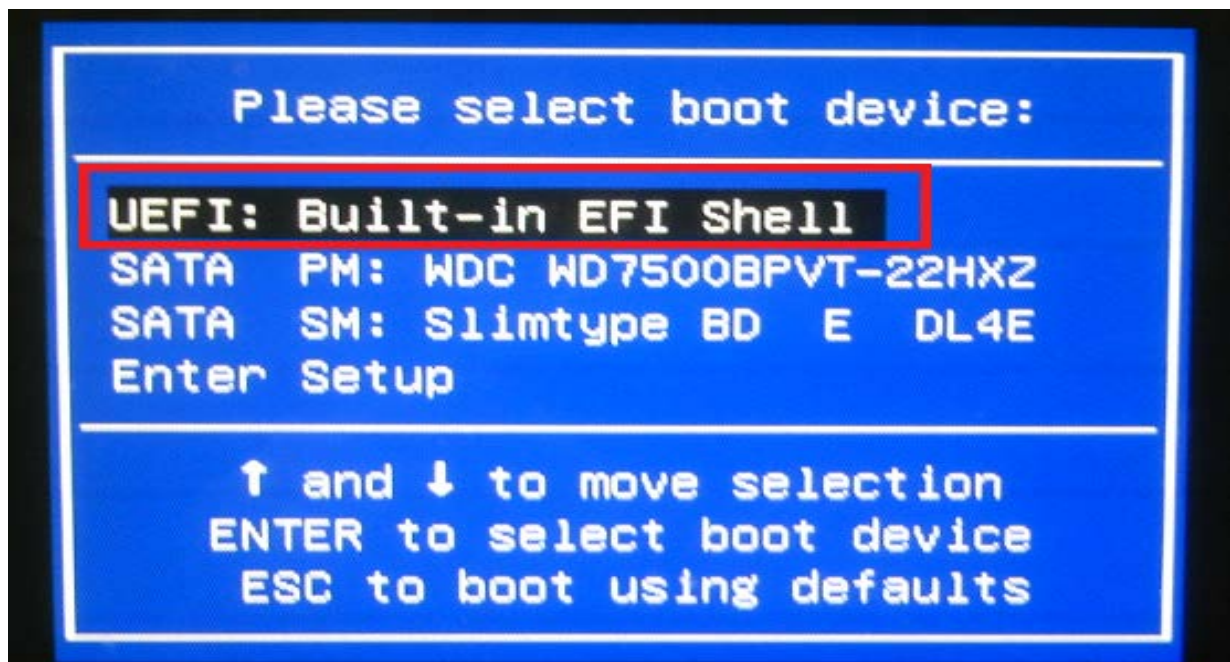


4. Then choose "Boot Options" page and modify "Boot Menu" to "Enabled". If its default setting is ok, don't change it.



Note1: We can flash BIOS no matter what is setting of item "Launch CSM" in uefi shell mode

5. Choose "Exit" page, select "Save&Exit Setup", and press enter, then select "Yes" to restart.
6. Press "F12" hotkey to invoke Boot Menu, select to boot from UEFI Shell. Refer to below picture.



7. Under efi system, choose "Removeable BlockDevice" group. For example: user should input "fs3:" in shell command line.

```

Device mapping table
fs0      :HardDisk - Alias hd34b blk0
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part1,Sig079F4CE0-F531-43B2-9F80-8A
EB20F6AD71)
fs1      :HardDisk - Alias hd34c blk1
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part2,Sig6C9D9095-0C2F-4628-8F33-02
5E5C9BC31F)
fs2      :HardDisk - Alias hd34e blk2
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part4,SigB944499F-54C5-4177-8AAB-1D
FCD156E44C)
fs3      :Removeable BlockDevice - Alias f24b0e0 blk3
          Acpi(PNP0A03,0)/Pci(1D|0)/Usb(1, 0)/Usb(4, 0)
blk0     :HardDisk - Alias hd34b fs0
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part1,Sig079F4CE0-F531-43B2-9F80-8A
EB20F6AD71)
blk1     :HardDisk - Alias hd34c fs1
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part2,Sig6C9D9095-0C2F-4628-8F33-02
5E5C9BC31F)
blk2     :HardDisk - Alias hd34e fs2
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part4,SigB944499F-54C5-4177-8AAB-1D
FCD156E44C)
blk3     :Removeable BlockDevice - Alias f24b0e0 fs3
          Acpi(PNP0A03,0)/Pci(1D|0)/Usb(1, 0)/Usb(4, 0)
blk4     :HardDisk - Alias (null)
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part3,SigB7958056-B053-4F39-9489-0A
E7B412B7DF)
blk5     :BlockDevice - Alias (null)
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)

Press ESC in 1 seconds to skip startup.nsh, any other key to continue.
Shell> _

```

8. Enter the BIOS folder.

9. Enter BIOS flash batch file folder. In general, it is “..\EFI\.” folder, For example: “Service\EFI\3M”.

```

fs3:\> cd B
fs3:\B> cd D07
fs3:\B\D07> cd EFI
fs3:\B\D07\EFI> cd 3M

```

10. Execute "efiflash.nsh" file.

11. Flashing process(Don't reset or turn off the power).Refer to below picture.

```

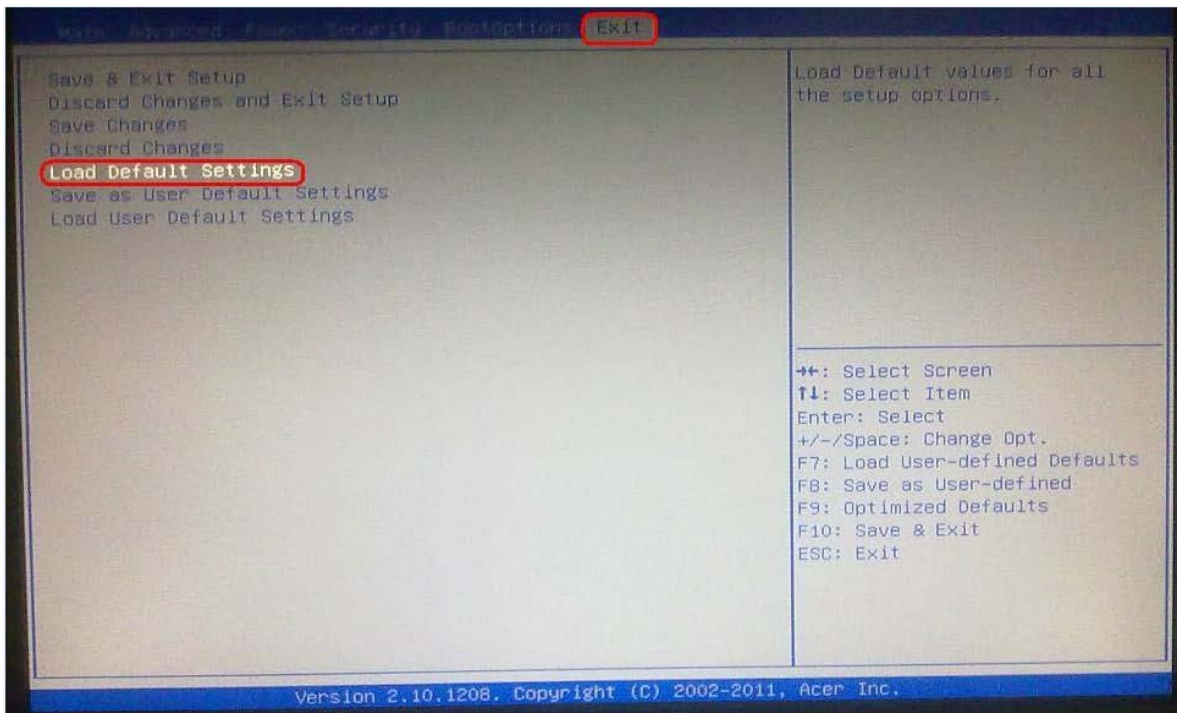
fs3:\B\D07\EFI\3M> EFIflash.nsh
EFIflash.nsh> AfuEfix64 ..\..\ROM\C92A1025.cap /P /B /N /R
+-----+
|               AMI Firmware Update Utility  v3.03.00               |
|   Copyright (C)2012 American Megatrends Inc. All Rights Reserved.   |
+-----+
Reading flash ..... done
Secure Flash enabled, recalculate ROM size with signature...
- FFS checksums ..... ok
Loading capsule to secure memory buffer ... done
Erasing Boot Block ..... done
Updating Boot Block ..... 0x0028B000 (25%)

```

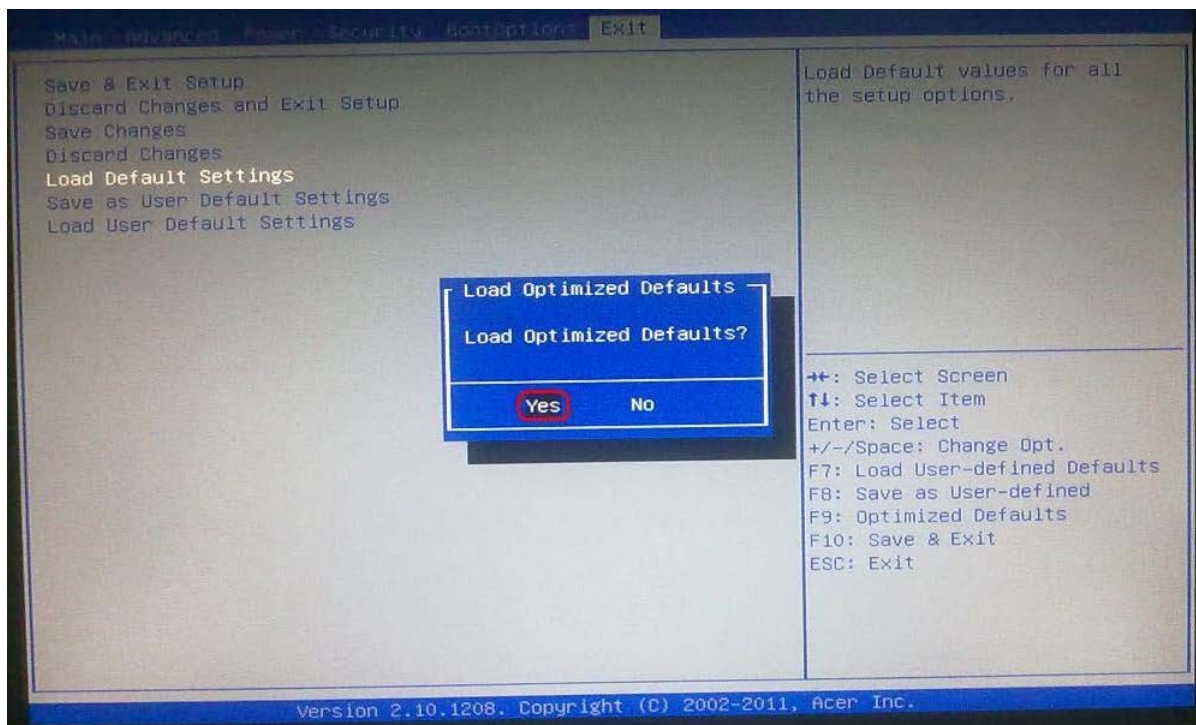
12. When finished BIOS update, please press any key to reboot the system.

13. Press “Del” to enter BIOS setup.

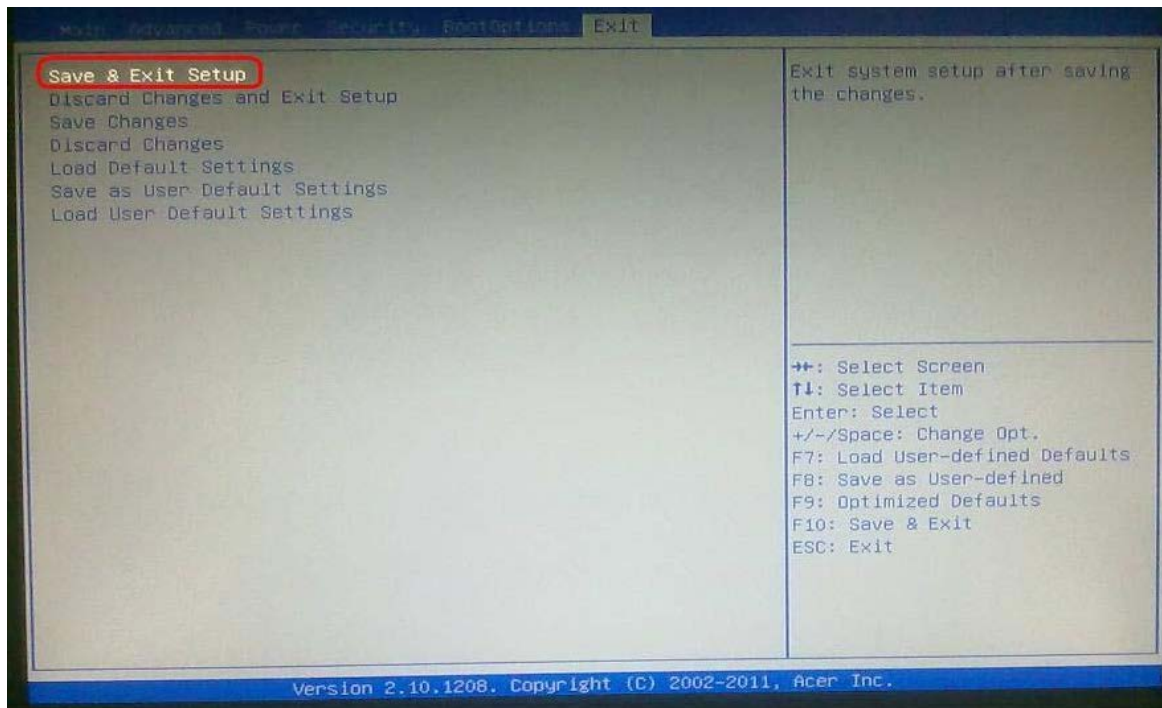
14. In Exit page, select “Load Default Settings” and press “Enter” key.



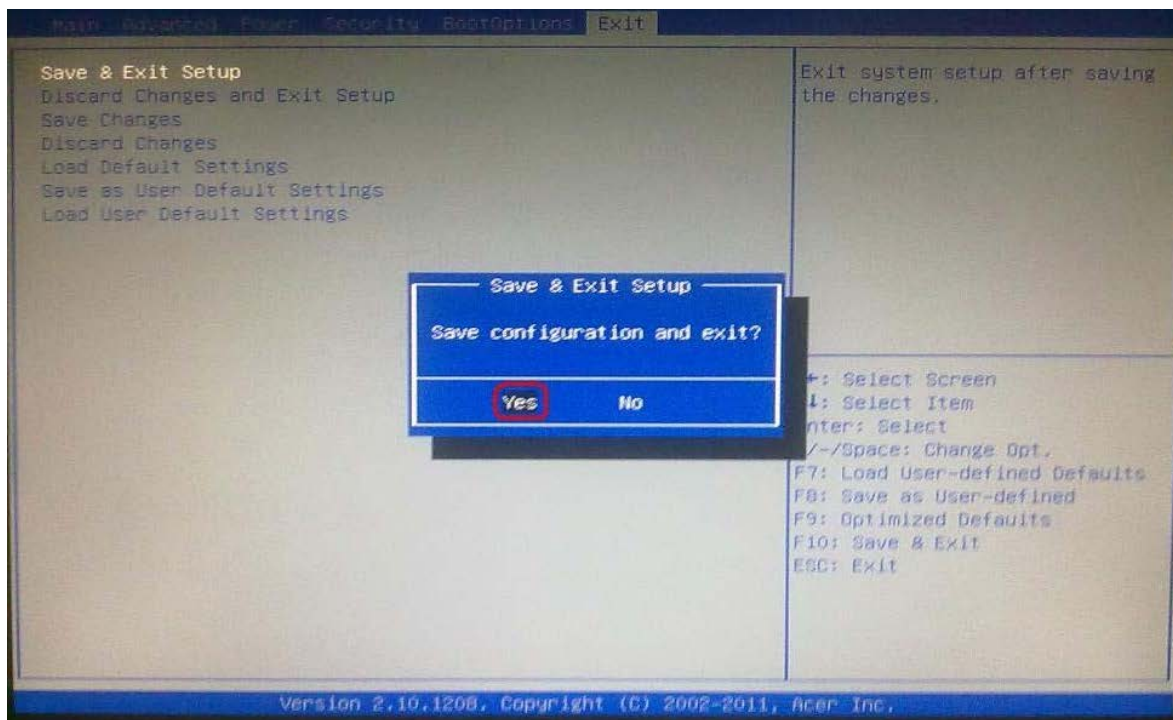
15. Select "Yes" and press "Enter" key.



16. Select "Save & Exit Setup" and press "Enter" key.



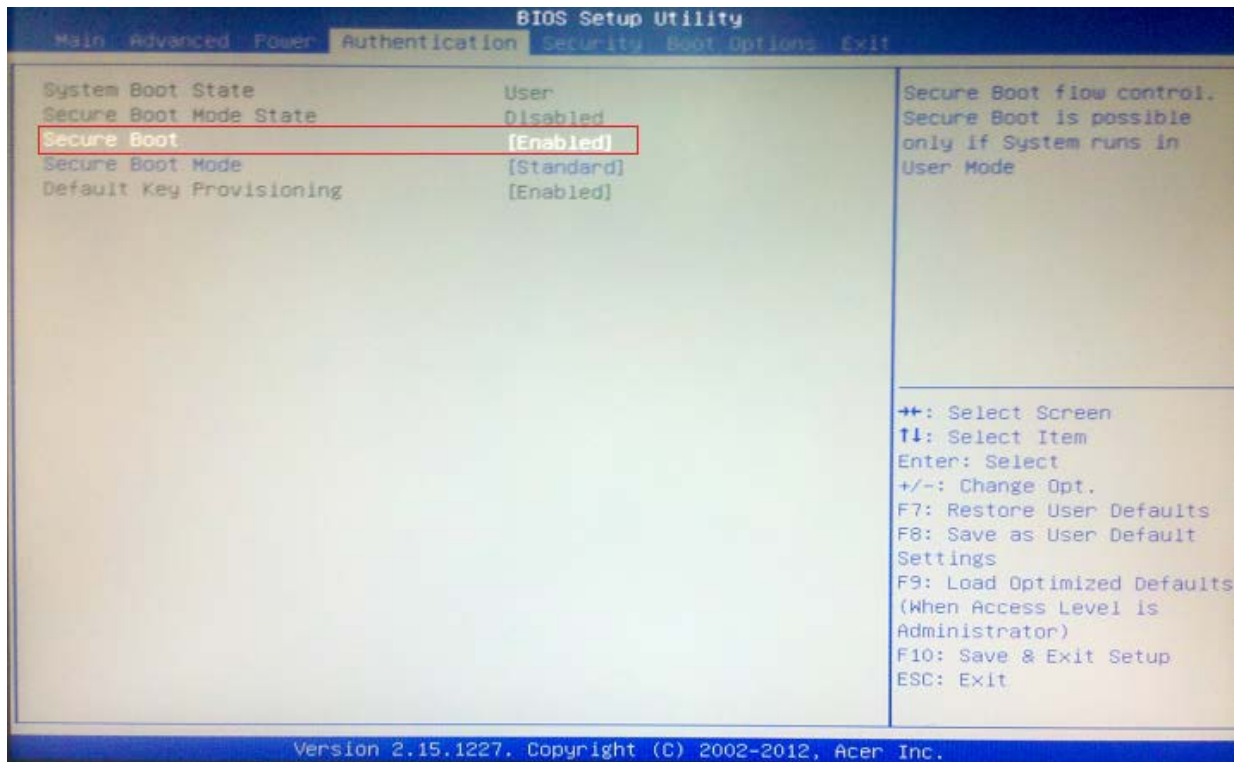
17. Select "Yes" and press "Enter" key.



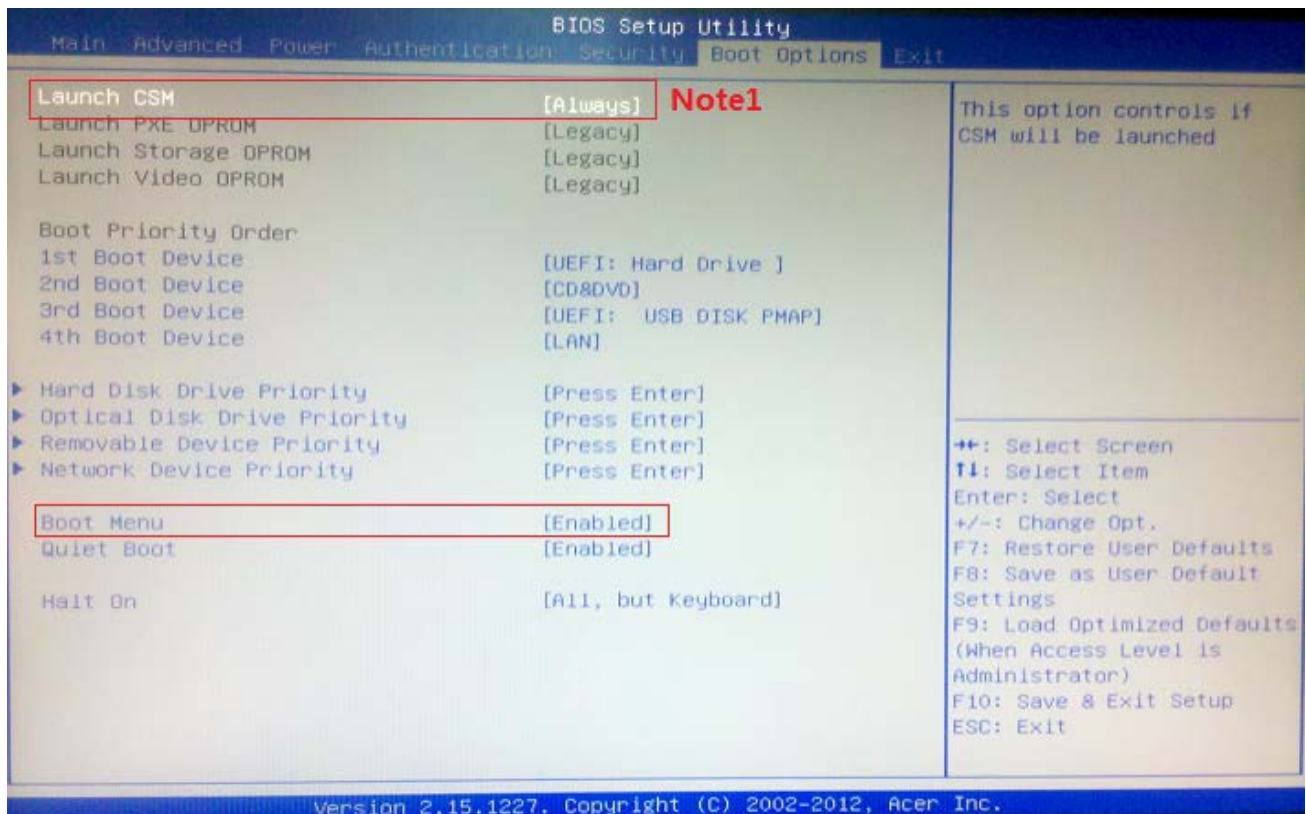
18. UEFI Firmware update is complete.

B: For Non Built-in EFI shell:

1. Copy BIOS folder to USB Disk. You can rename the BIOS folder. For example: rename to P01-A0.
2. Press Del key to enter BIOS setup when logo appeared.
3. Choose "Authentication" page, modify "Secure Boot" to "Disabled". If its default setting is "Disabled", don't change it.

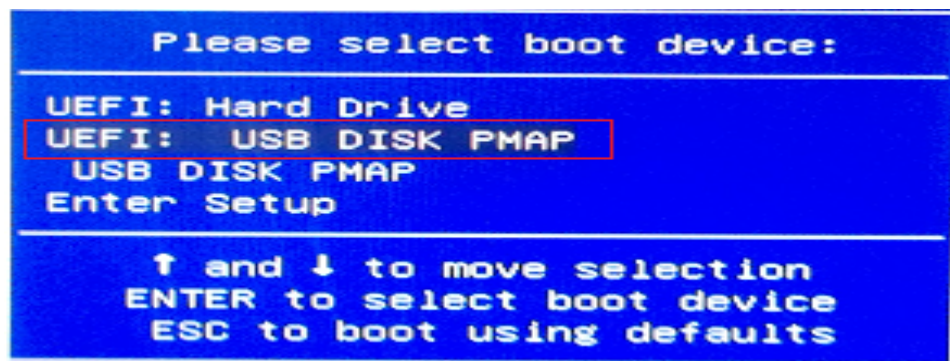


4. Then choose "Boot Options" page and modify "Boot Menu" to "Enabled". If its default setting is ok, don't change it.



Note1: We can flash BIOS no matter what is setting of item "Launch CSM" in uefi shell mode

5. Choose "Exit" page, select "Save&Exit Setup", and press enter, then select "Yes" to restart.
6. Press "F12" hotkey to invoke Boot Menu, select to boot from U-disk Shell. Refer to below picture.



7. Under efi system, choose "Removeable BlockDevice" group. For example: user should input "fs3:" in shell command line.

```

Device mapping table
fs0      :HardDisk - Alias hd34b blk0
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part1,Sig079F4CE0-F531-43B2-9F80-8A
EB20F6AD71)
fs1      :HardDisk - Alias hd34c blk1
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part2,Sig6C9D9095-0C2F-4628-8F33-02
5E5C9BC31F)
fs2      :HardDisk - Alias hd34e blk2
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part4,SigB944499F-54C5-4177-8AAB-1D
FCD156E44C)
fs3      :Removeable BlockDevice - Alias f24b0e0 blk3
          Acpi(PNP0A03,0)/Pci(1D|0)/Usb(1, 0)/Usb(4, 0)
blk0     :HardDisk - Alias hd34b fs0
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part1,Sig079F4CE0-F531-43B2-9F80-8A
EB20F6AD71)
blk1     :HardDisk - Alias hd34c fs1
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part2,Sig6C9D9095-0C2F-4628-8F33-02
5E5C9BC31F)
blk2     :HardDisk - Alias hd34e fs2
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part4,SigB944499F-54C5-4177-8AAB-1D
FCD156E44C)
blk3     :Removeable BlockDevice - Alias f24b0e0 fs3
          Acpi(PNP0A03,0)/Pci(1D|0)/Usb(1, 0)/Usb(4, 0)
blk4     :HardDisk - Alias (null)
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part3,SigB7958056-B053-4F39-9489-0A
E7B412B7DF)
blk5     :BlockDevice - Alias (null)
          Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)

Press ESC in 1 seconds to skip startup.nsh, any other key to continue.
Shell> _

```

8. Enter the BIOS folder.

9. Enter BIOS flash batch file folder. In general, it is “..\EFI\.” folder, For example: “Service\EFI\3M”.

```

fs3:\> cd B
fs3:\B> cd D07
fs3:\B\D07> cd EFI
fs3:\B\D07\EFI> cd 3M

```

10. Execute "efiflash.nsh" file.

11. Flashing process(Don't reset or turn off the power).Refer to below picture.

```

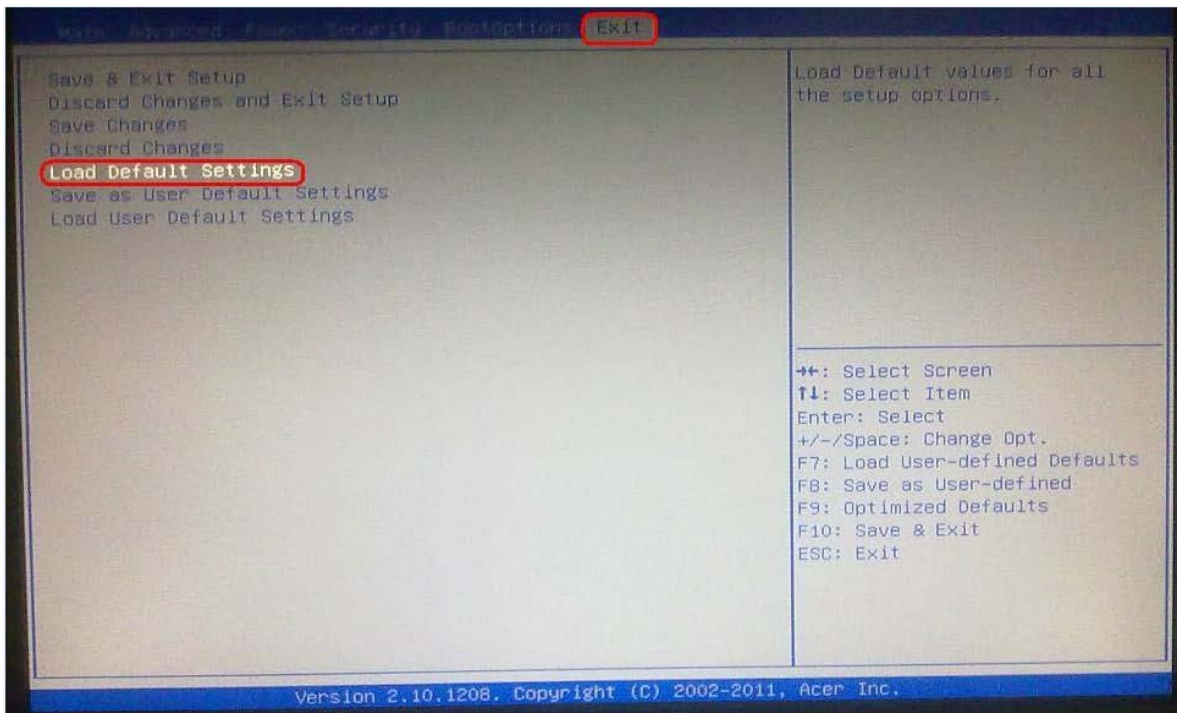
fs3:\B\D07\EFI\3M> EFIf1ash.nsh
EFIf1ash.nsh> AfuEfix64 ..\..\ROM\C92A1025.cap /P /B /N /R
+-----+
|               AMI Firmware Update Utility  v3.03.00               |
|   Copyright (C)2012 American Megatrends Inc. All Rights Reserved.   |
+-----+
Reading flash ..... done
Secure Flash enabled, recalculate ROM size with signature...
- FFS checksums ..... ok
Loading capsule to secure memory buffer ... done
Erasing Boot Block ..... done
Updating Boot Block ..... 0x0028B000 (25%)

```

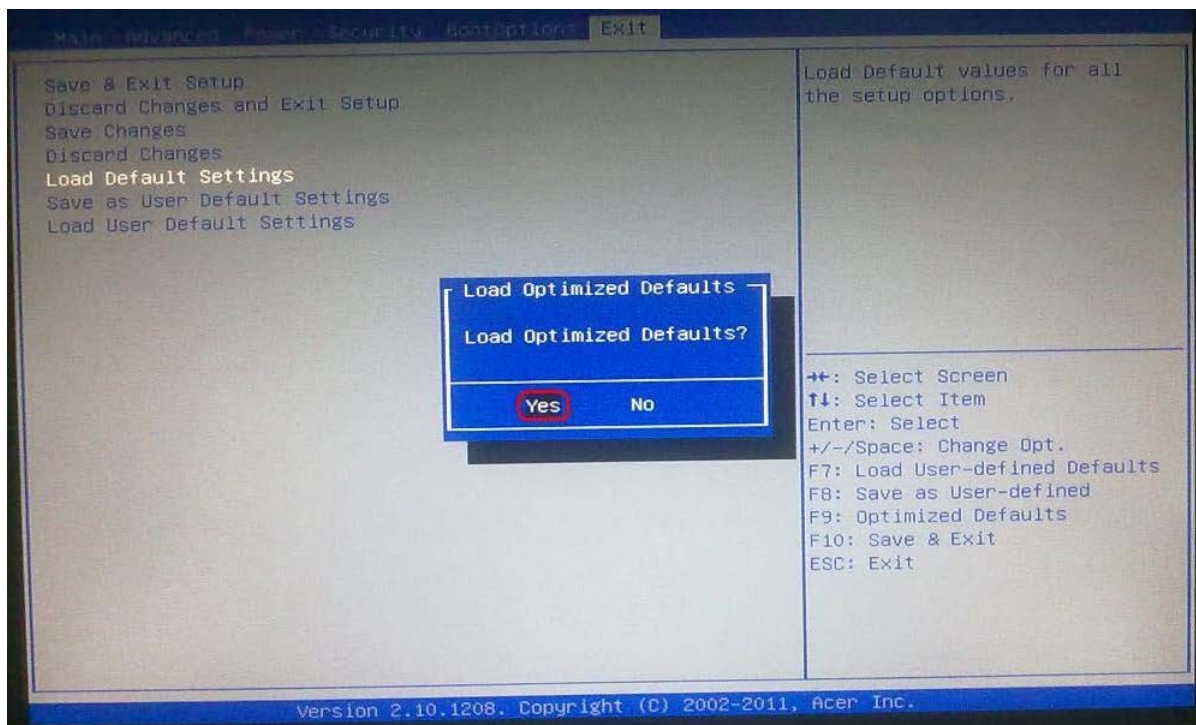
12. When finished BIOS update, please press any key to reboot the system.

13. Press “Del” to enter BIOS setup.

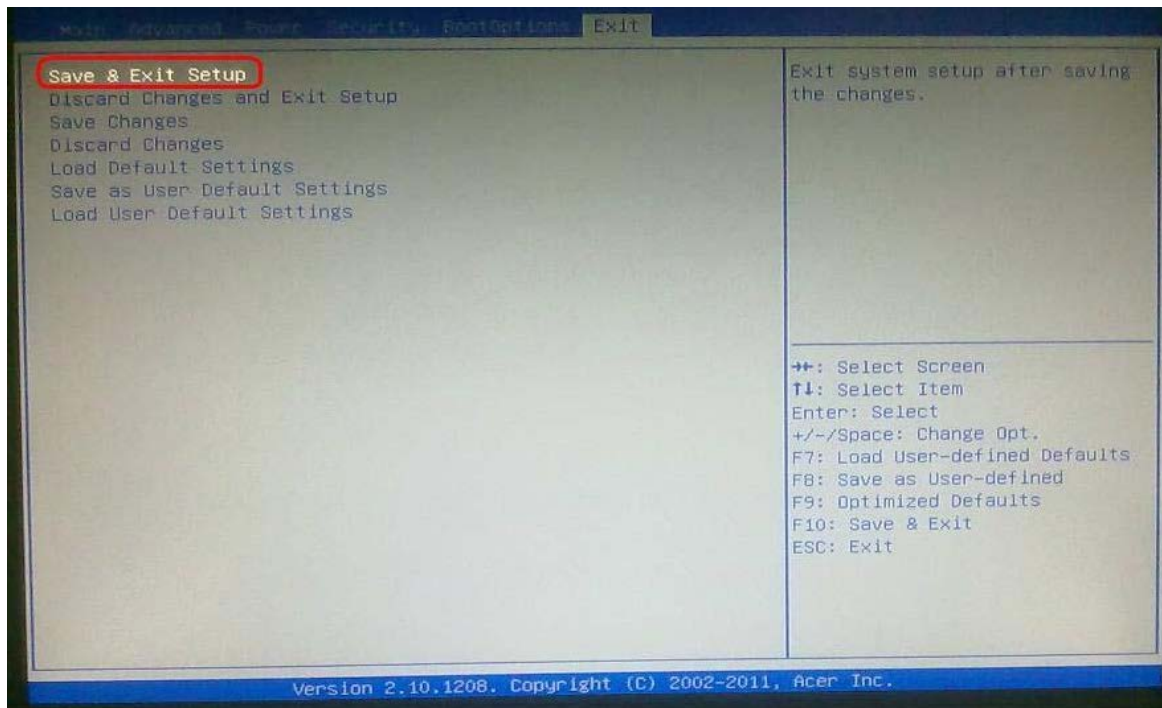
14. In Exit page, select “Load Default Settings” and press “Enter” key.



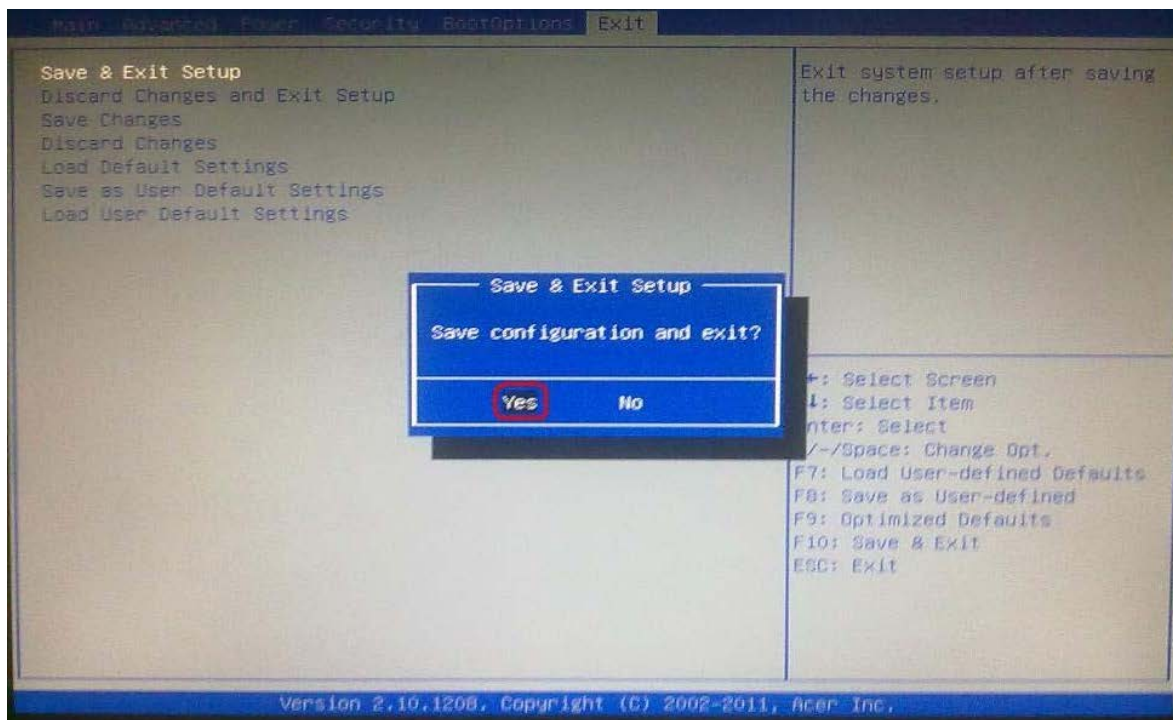
15. Select "Yes" and press "Enter" key.



16. Select "Save & Exit Setup" and press "Enter" key.



17. Select "Yes" and press "Enter" key.



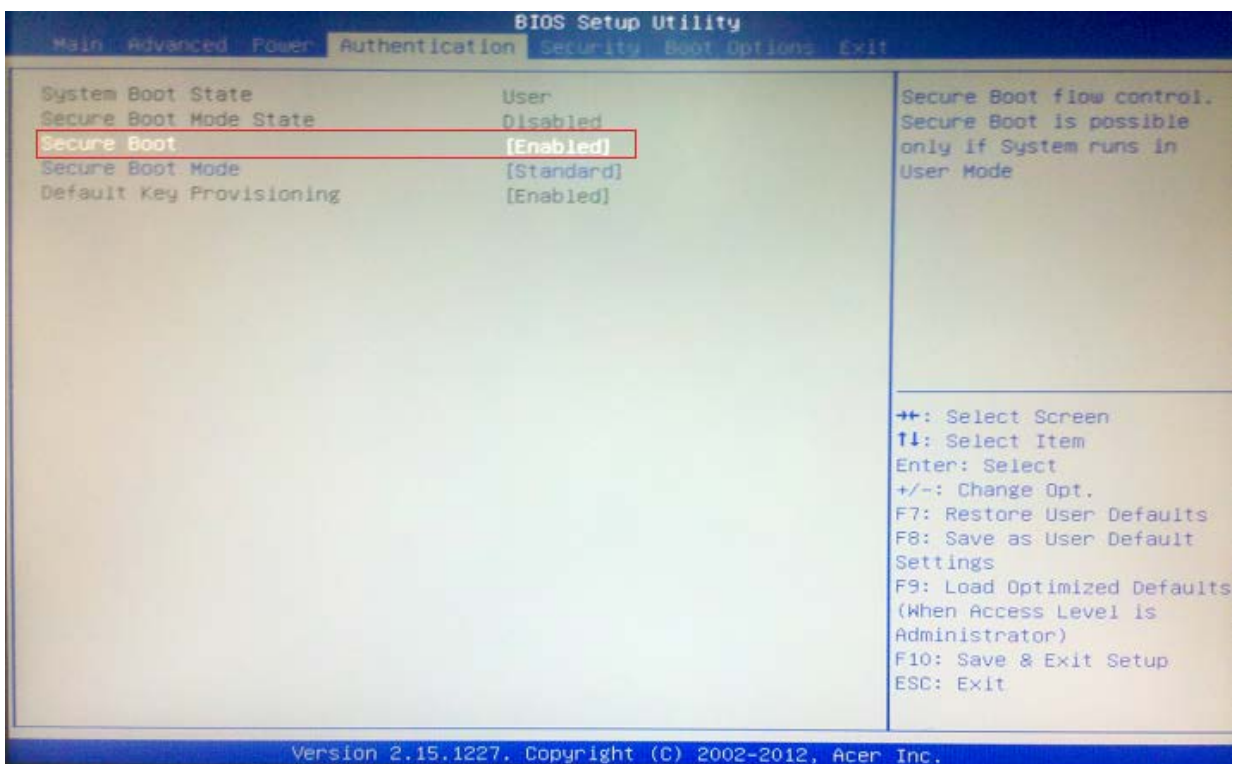
18. UEFI Firmware update is complete.

Flash ME uEFI BIOS SOP for UEFI Shell(64bit):**A: For Built-in EFI shell:**

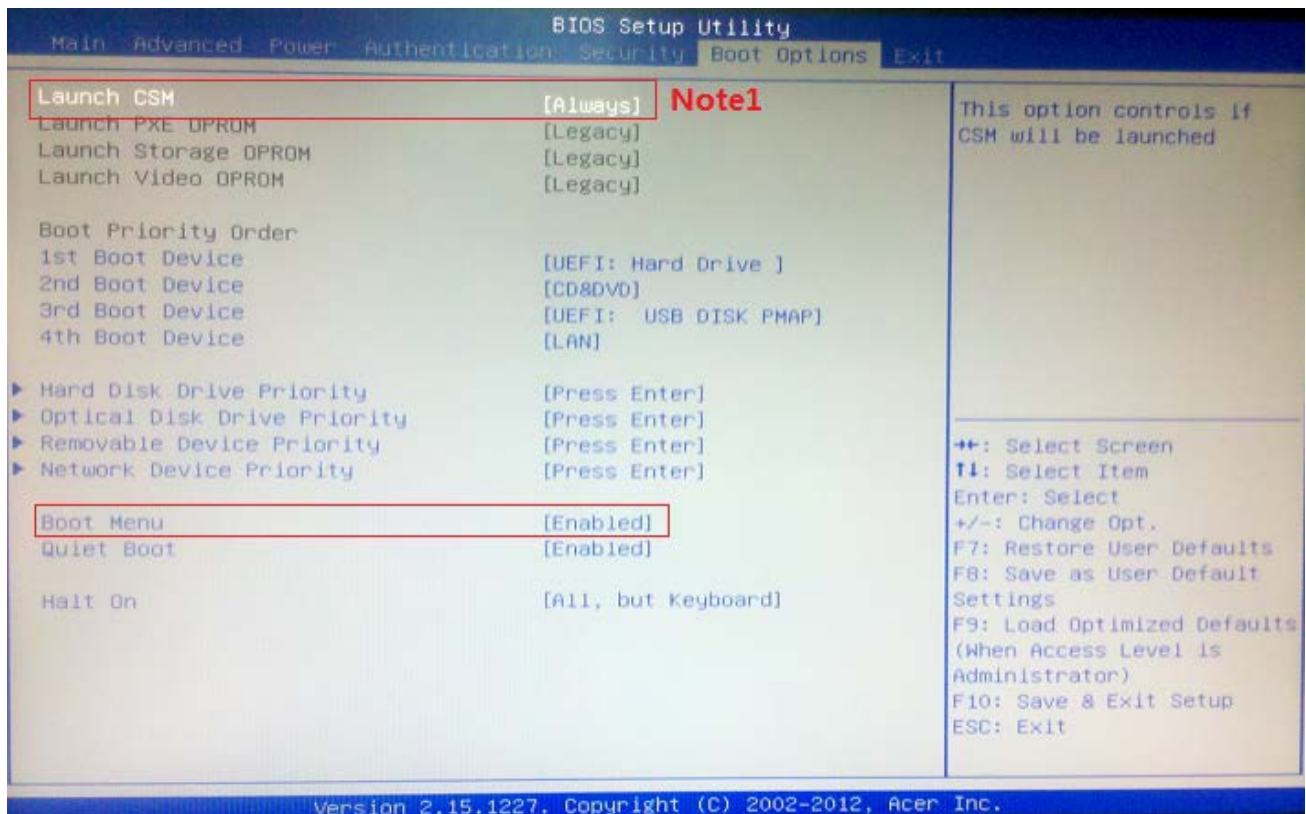
1. Copy BIOS folder to USB Disk. You can rename the BIOS folder. For example: rename to P01-A0.
2. Disabled ME:Jumper “PCH_ME_ENABLE” as below picture.



3. Press Del key to enter BIOS setup when logo appeared.
4. Choose “Authentication” page,modify “Secure Boot” to “Disabled”.If its default setting is “Disabled”,don’t change it.



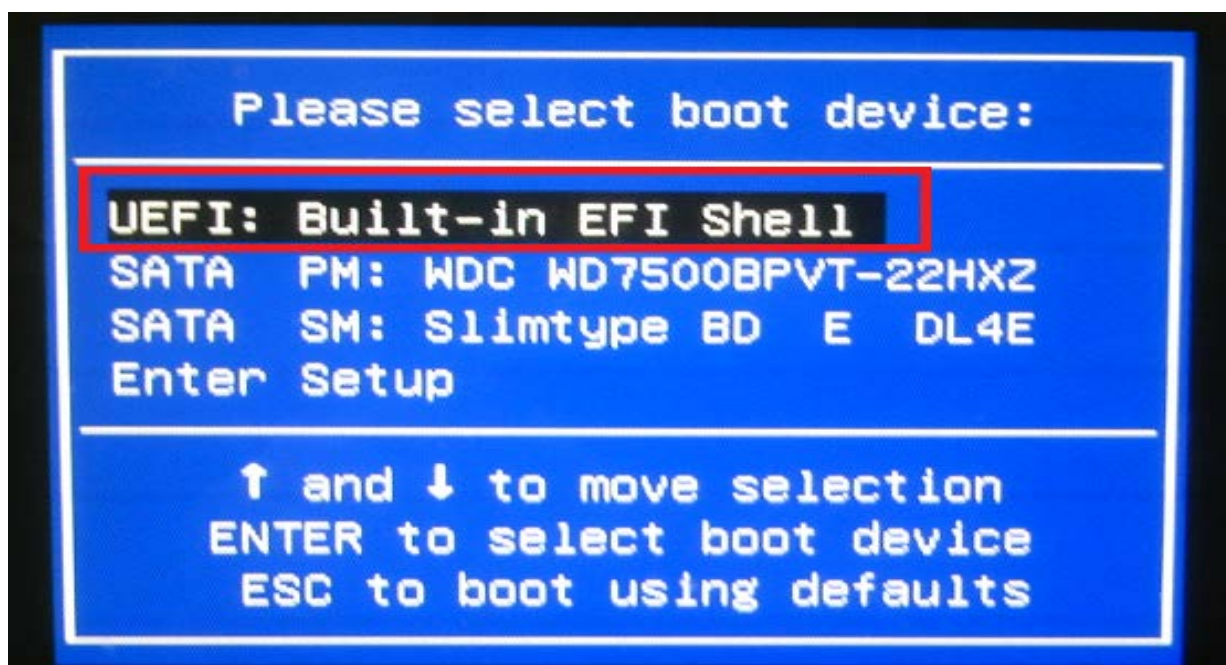
5. Then choose “Boot Options” page and modify “Boot Menu” to “Enabled”.If its default setting is ok,don’t change it.



Note1: We can flash BIOS no matter what is setting of item "Launch CSM" in uefi shell mode

6. Choose "Exit" page, select "Save&Exit Setup", and press enter, then select "Yes" to restart.

7. Press "F12" hotkey to invoke Boot Menu, select to boot from UEFI Shell. Refer to below picture.



8. Under efi system, choose "Removeable BlockDevice" group. For example: user should input "fs3:" in shell command line.


```

Device mapping table
fs0 :HardDisk - Alias hd34b blk0
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part1,Sig079F4CE0-F531-43B2-9F80-8A
EB20F6AD71)
fs1 :HardDisk - Alias hd34c blk1
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part2,Sig6C9D9095-0C2F-4628-8F33-02
5E5C9BC31F)
fs2 :HardDisk - Alias hd34e blk2
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part4,SigB944499F-54C5-4177-8AAB-1D
FCD156E44C)
fs3 :Removeable BlockDevice - Alias f24b0e0 blk3
      Acpi(PNP0A03,0)/Pci(1D|0)/Usb(1, 0)/Usb(4, 0)
blk0 :HardDisk - Alias hd34b fs0
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part1,Sig079F4CE0-F531-43B2-9F80-8A
EB20F6AD71)
blk1 :HardDisk - Alias hd34c fs1
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part2,Sig6C9D9095-0C2F-4628-8F33-02
5E5C9BC31F)
blk2 :HardDisk - Alias hd34e fs2
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part4,SigB944499F-54C5-4177-8AAB-1D
FCD156E44C)
blk3 :Removeable BlockDevice - Alias f24b0e0 fs3
      Acpi(PNP0A03,0)/Pci(1D|0)/Usb(1, 0)/Usb(4, 0)
blk4 :HardDisk - Alias (null)
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part3,Sig8795B056-B053-4F39-9489-0A
E7B412B7DF)
blk5 :BlockDevice - Alias (null)
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)

Press ESC in 1 seconds to skip startup.nsh, any other key to continue.
Shell> _

```

9. Enter the BIOS folder.
10. Enter the BIOS folder.
11. Enter ME batch file folder.

```

fs3:\> cd b
fs3:\B> cd D07
fs3:\B\D07> cd me
fs3:\B\D07\ME> cd EFI

```

12. Execute "Flash.NSH" file, Choose different Bat for different platform.
13. Process to flash BIOS (Don't reset).

```

fs0:\P01-A0\Service\ME\EFI> flash
flash> FPT /f ..\..\ROM\I77A1018.BIN -ME

Intel (R) Flash Programming Tool. Version: 8.1.0.1248
Copyright (c) 2007 - 2012, Intel Corporation. All rights reserved.

Platform: Intel(R) HM77 Express Chipset
Reading HSFSTS register... Flash Descriptor: Valid

--- Flash Devices Found ---
W25Q64BV      ID:0xEF4017      Size: 8192KB (65536Kb)

PDR Region does not exist.

```

Note:The fpt tool version is by case.
Note:Flash ME.


```

Platform: Intel(R) HM77 Express Chipset
Reading HSFSTS register... Flash Descriptor: Valid

--- Flash Devices Found ---
W25Q64BV ID:0xEF4017 Size: 8192KB (65536Kb)

PDR Region does not exist.

- Reading Flash [0x003000] 8KB of 8KB - 100% complete.
- Verifying Flash [0x003000] 8KB of 8KB - 100% complete.
RESULT: The data is identical.

FPT Operation Passed

flash> AfuEfix64 ..\..\ROM\C41A101B.CAP /P /B /N /R
+-----+
| AMI Firmware Update Utility v3.02.00 |
| Copyright (C)2012 American Megatrends Inc. All Rights Reserved. |
+-----+
Reading flash ..... done
Secure Flash enabled, recalculate ROM size with signature...
- FFS checksums ..... ok

```

Note:Flash GBE if used Intel Gbe LAN by case and System BIOS.

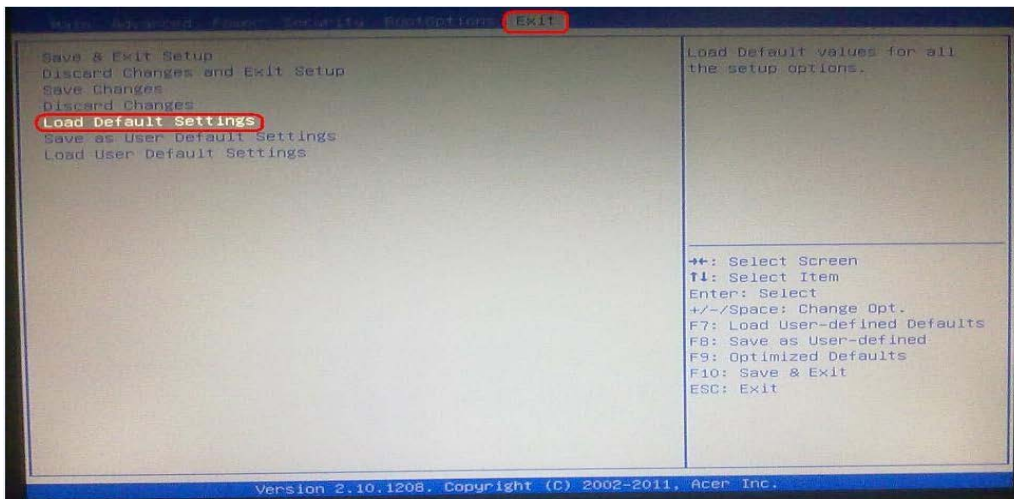
14. After finished flashing BIOS, please unplug power cord.

15. Enabled ME: Jumper "PCH_ME_ENABLE" as below picture.

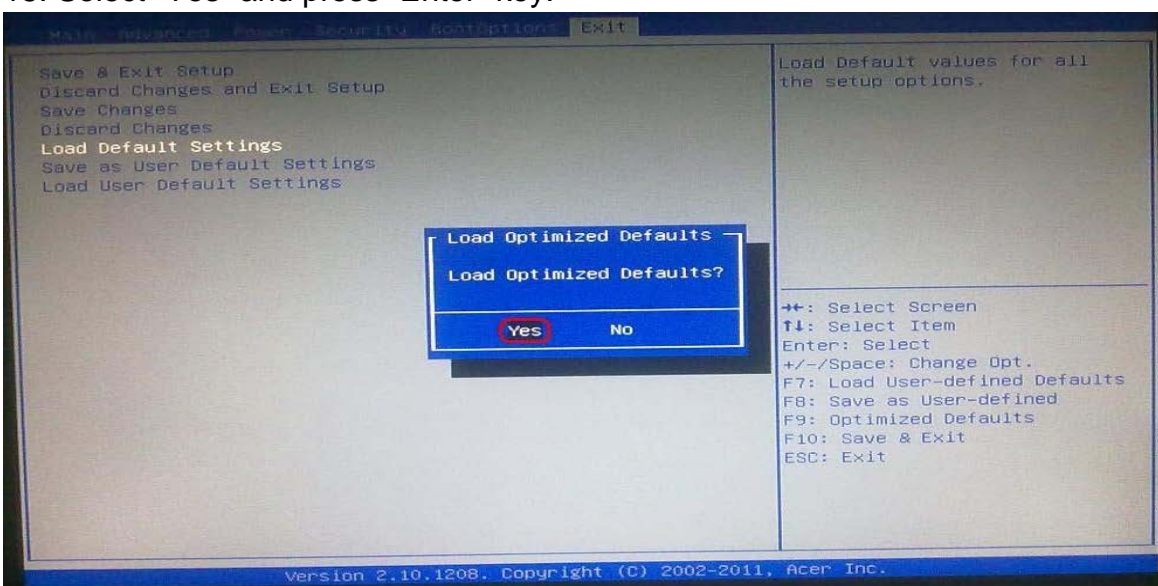


16. Power on again, and press "**Del**" to enter BIOS setup.

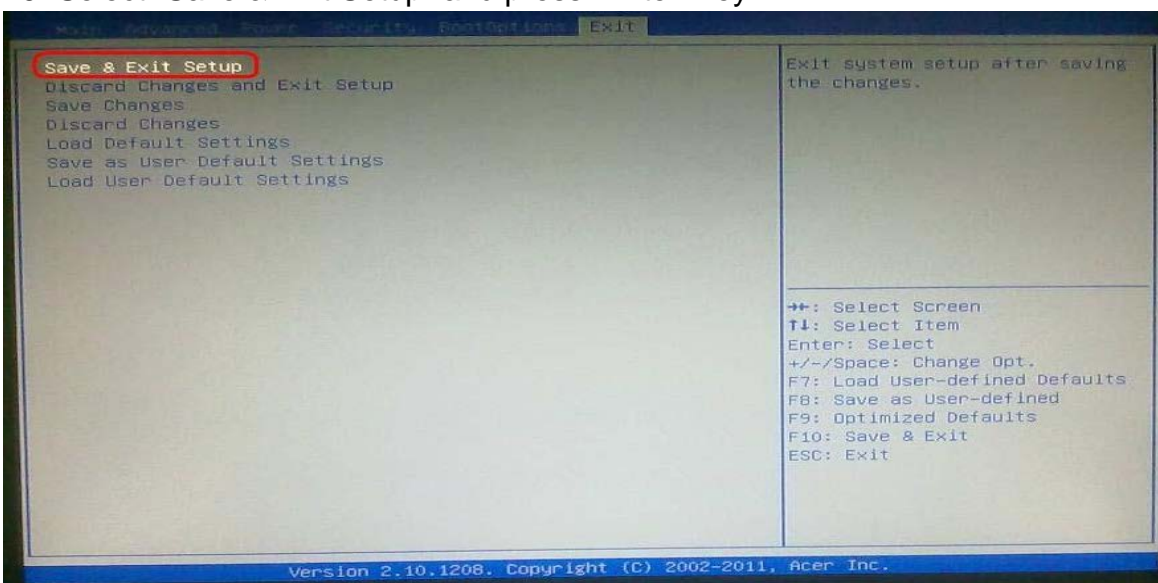
17. In Exit page, select "Load Default Settings" and press "Enter" key.



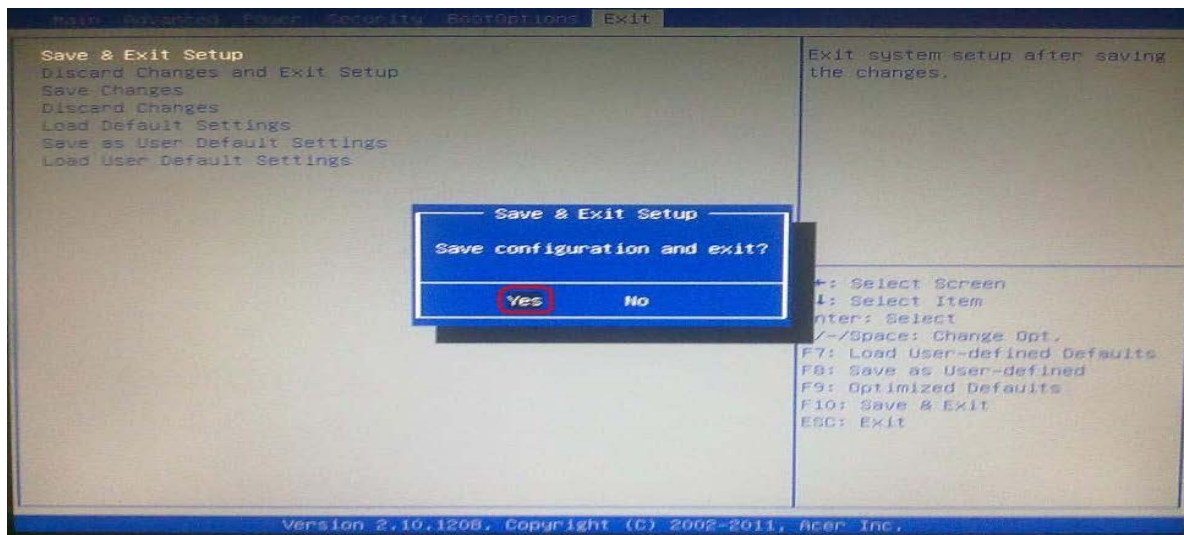
18. Select "Yes" and press "Enter" key.



19. Select "Save & Exit Setup" and press "Enter" key.



20. Select "Yes" and press "Enter" key.



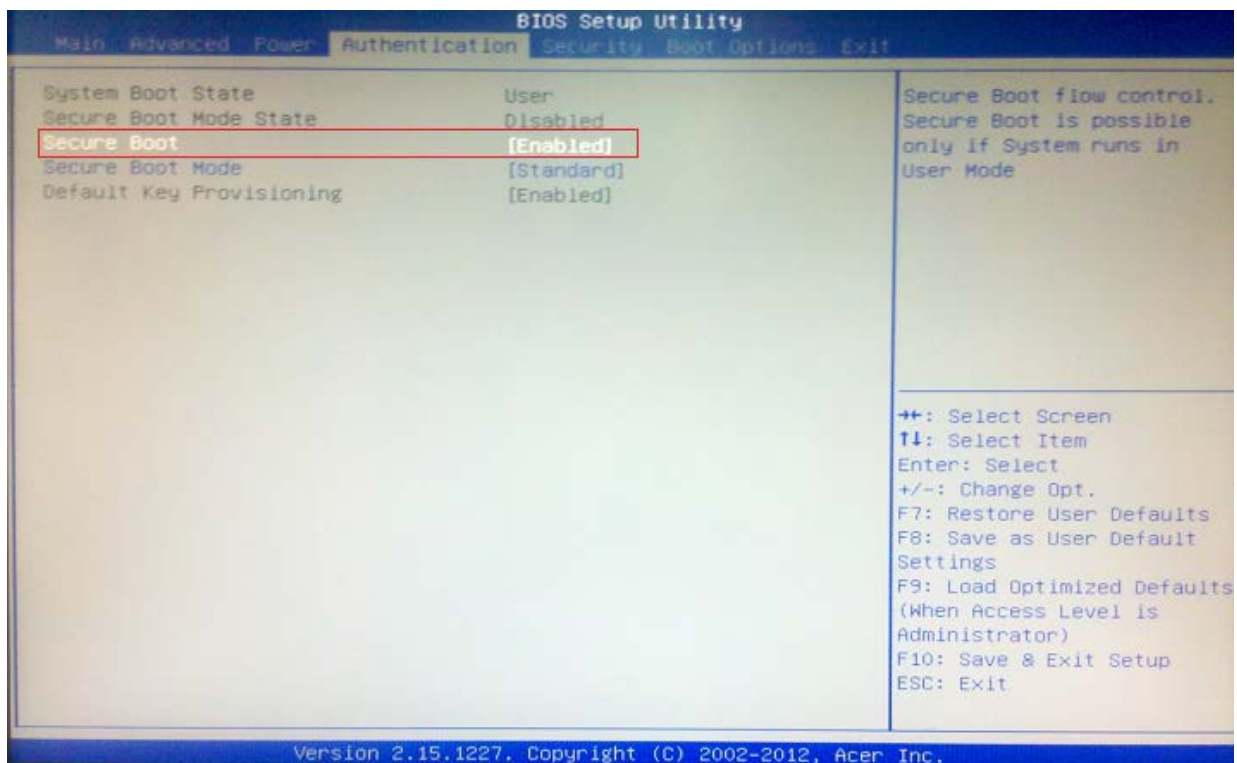
21. Flash BIOS is finished.

B: For Non Built-in EFI shell:

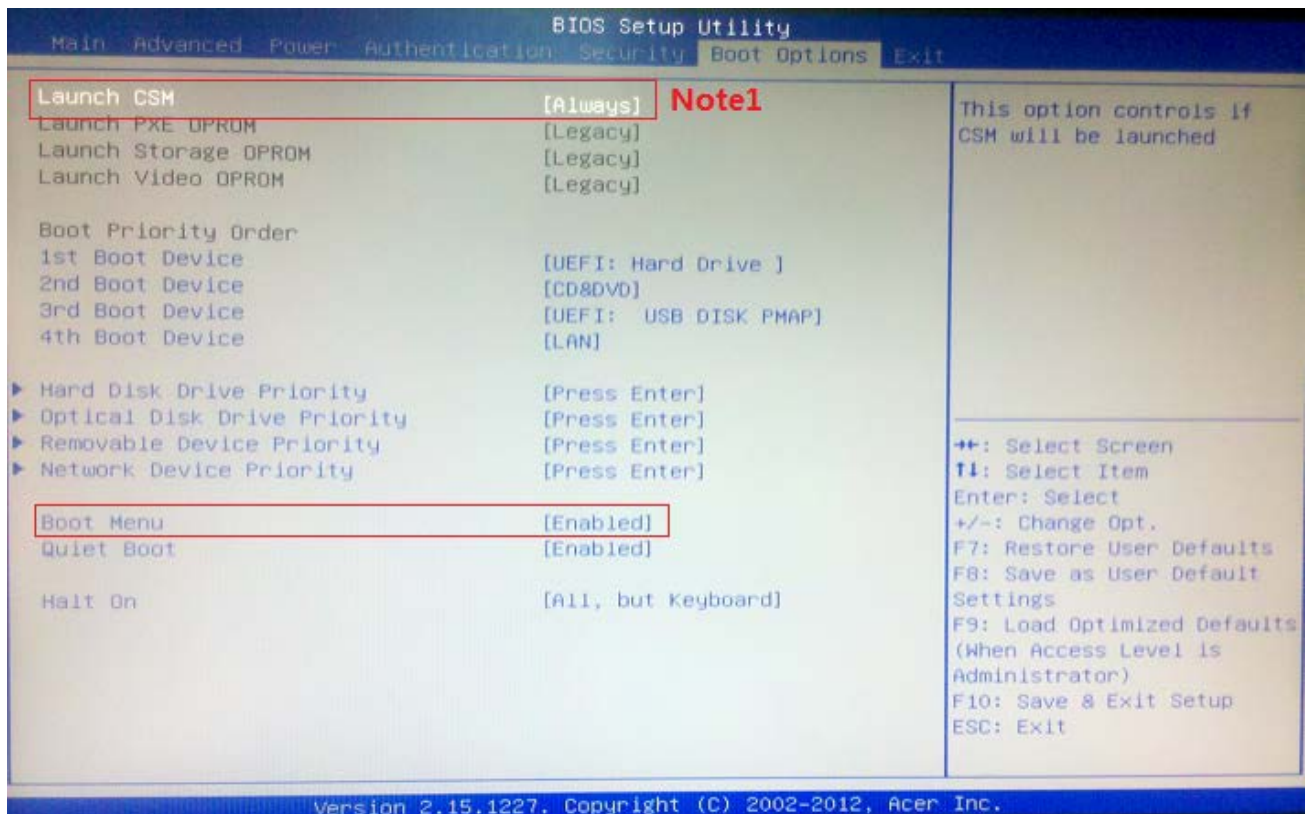
1. Copy BIOS folder to USB Disk. You can rename the BIOS folder. For example: rename to P01-A0.
2. Disabled ME:Jumper “PCH_ME_ENABLE” as below picture.



3. Press Del key to enter BIOS setup when logo appeared.
4. Choose “Authentication” page,modify “Secure Boot” to “Disabled”.If its default setting is “Disabled”,don’t change it.



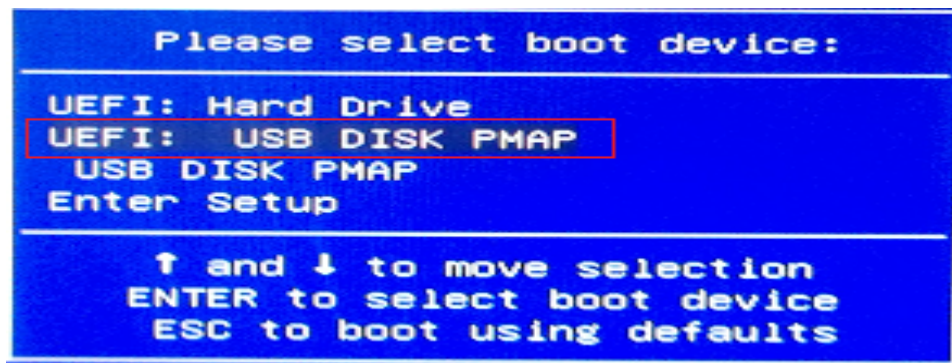
5. Then choose “Boot Options” page and modify “Boot Menu” to “Enabled”.If its default setting is ok,don’t change it.



Note1: We can flash BIOS no matter what is setting of item "Launch CSM" in uefi shell mode

6. Choose "Exit" page, select "Save&Exit Setup", and press enter, then select "Yes" to restart.

7. Press "F12" hotkey to invoke Boot Menu, select to boot from U-disk Shell. Refer to below picture.



8. Under efi system, choose "Removeable BlockDevice" group. For example: user should input "fs3:" in shell command line.


```

Device mapping table
fs0 :HardDisk - Alias hd34b blk0
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part1,Sig079F4CE0-F531-43B2-9F80-8A
EB20F6AD71)
fs1 :HardDisk - Alias hd34c blk1
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part2,Sig6C9D9095-0C2F-4628-8F33-02
5E5C9BC31F)
fs2 :HardDisk - Alias hd34e blk2
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part4,SigB944499F-54C5-4177-8AAB-1D
FCD156E44C)
fs3 :Removeable BlockDevice - Alias f24b0e0 blk3
      Acpi(PNP0A03,0)/Pci(1D|0)/Usb(1, 0)/Usb(4, 0)
blk0 :HardDisk - Alias hd34b fs0
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part1,Sig079F4CE0-F531-43B2-9F80-8A
EB20F6AD71)
blk1 :HardDisk - Alias hd34c fs1
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part2,Sig6C9D9095-0C2F-4628-8F33-02
5E5C9BC31F)
blk2 :HardDisk - Alias hd34e fs2
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part4,SigB944499F-54C5-4177-8AAB-1D
FCD156E44C)
blk3 :Removeable BlockDevice - Alias f24b0e0 fs3
      Acpi(PNP0A03,0)/Pci(1D|0)/Usb(1, 0)/Usb(4, 0)
blk4 :HardDisk - Alias (null)
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)/HD(Part3,Sig8795B056-B053-4F39-9489-0A
E7B412B7DF)
blk5 :BlockDevice - Alias (null)
      Acpi(PNP0A03,0)/Pci(1F|2)/VenHw(Unknown Device:80)

Press ESC in 1 seconds to skip startup.nsh, any other key to continue.
Shell> _

```

9. Enter the BIOS folder.
10. Enter the BIOS folder.
11. Enter ME batch file folder.

```

fs3:\> cd b
fs3:\B> cd D07
fs3:\B\D07> cd me
fs3:\B\D07\ME> cd EFI

```

12. Execute "Flash.NSH" file, Choose different Bat for different platform.
13. Process to flash BIOS (Don't reset).

```

fs0:\P01-A0\Service\ME\EFI> flash
flash> FPT /f ..\..\ROM\I77A1018.BIN -ME

Intel (R) Flash Programming Tool. Version: 8.1.0.1248
Copyright (c) 2007 - 2012, Intel Corporation. All rights reserved.

Platform: Intel(R) HM77 Express Chipset
Reading HSFSTS register... Flash Descriptor: Valid

--- Flash Devices Found ---
W25Q64BV      ID:0xEF4017      Size: 8192KB (65536Kb)

PDR Region does not exist.

```

Note:The fpt tool version is by case.
Note:Flash ME.


```

Platform: Intel(R) HM77 Express Chipset
Reading HSFSTS register... Flash Descriptor: Valid

--- Flash Devices Found ---
W25Q64BV ID:0xEF4017 Size: 8192KB (65536Kb)

PDR Region does not exist.

- Reading Flash [0x003000] 8KB of 8KB - 100% complete.
- Verifying Flash [0x003000] 8KB of 8KB - 100% complete.
RESULT: The data is identical.

FPT Operation Passed

flash> AfuEfix64 ..\..\ROM\C41A101B.CAP /P /B /N /R
+-----+
| AMI Firmware Update Utility v3.02.00 |
| Copyright (C)2012 American Megatrends Inc. All Rights Reserved. |
+-----+
Reading flash ..... done
Secure Flash enabled, recalculate ROM size with signature...
- FFS checksums ..... ok

```

Note:Flash GBE if used Intel Gbe LAN by case and System BIOS.

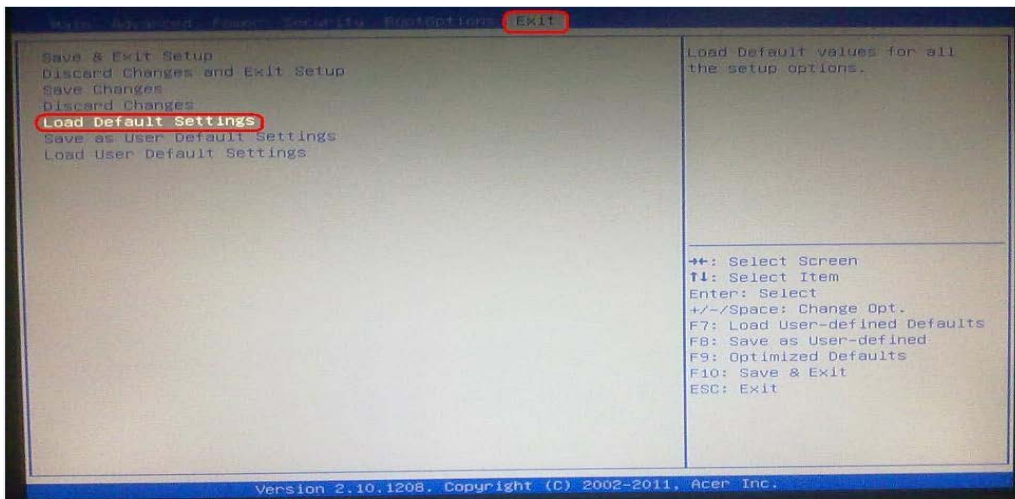
14. After finished flashing BIOS,please unplug power cord.

15. Enabled ME:Jumper “PCH_ME_ENABLE” as below picture.

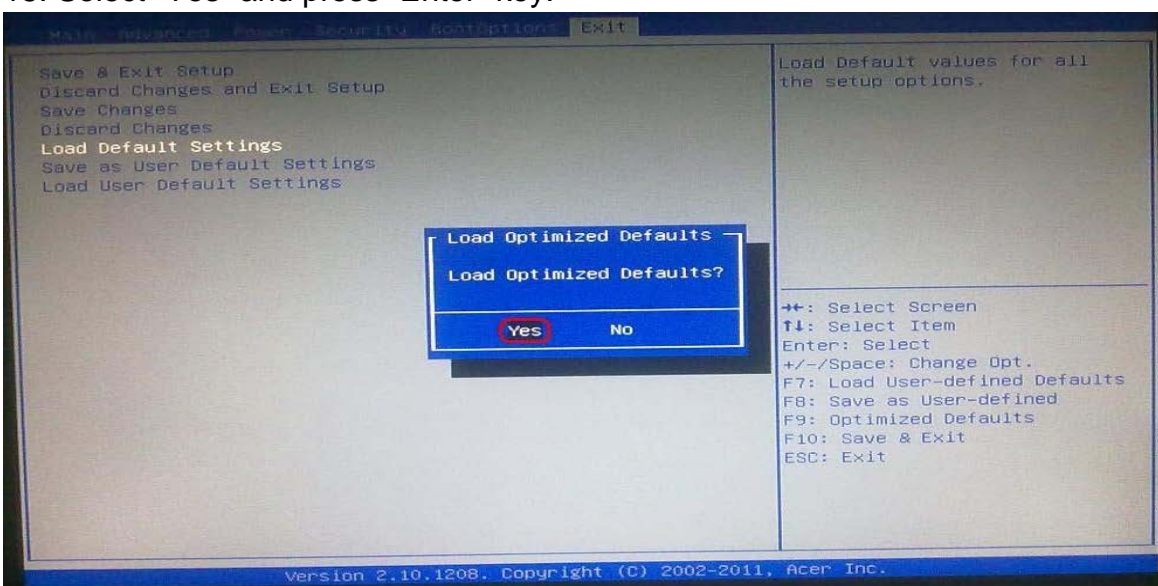


16. Power on again ,and press “**Del**” to enter BIOS setup.

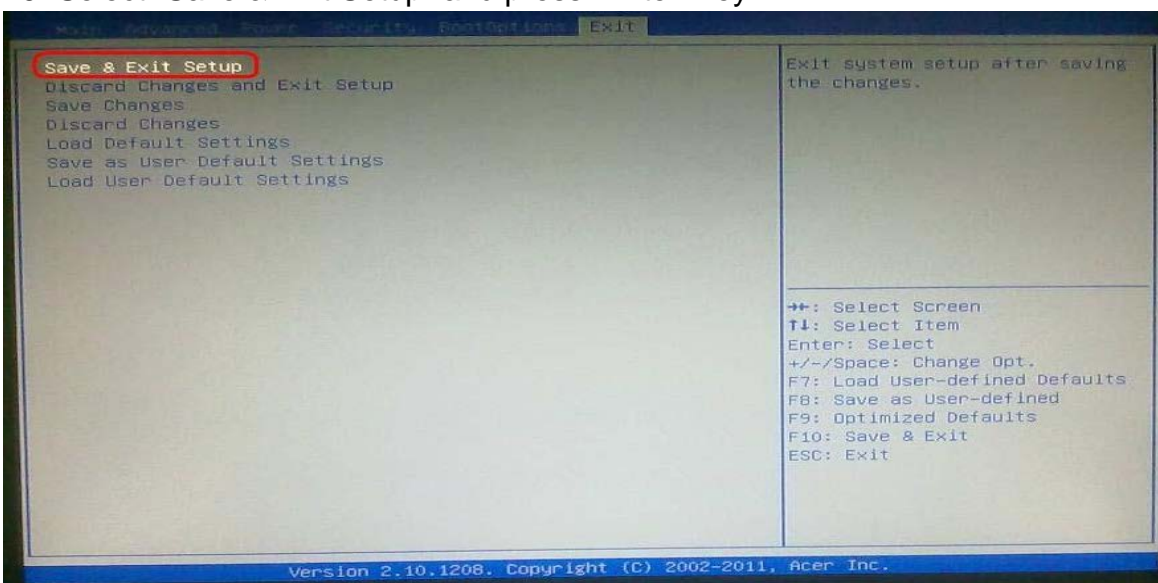
17. In Exit page, select “Load Default Settings” and press “Enter” key.



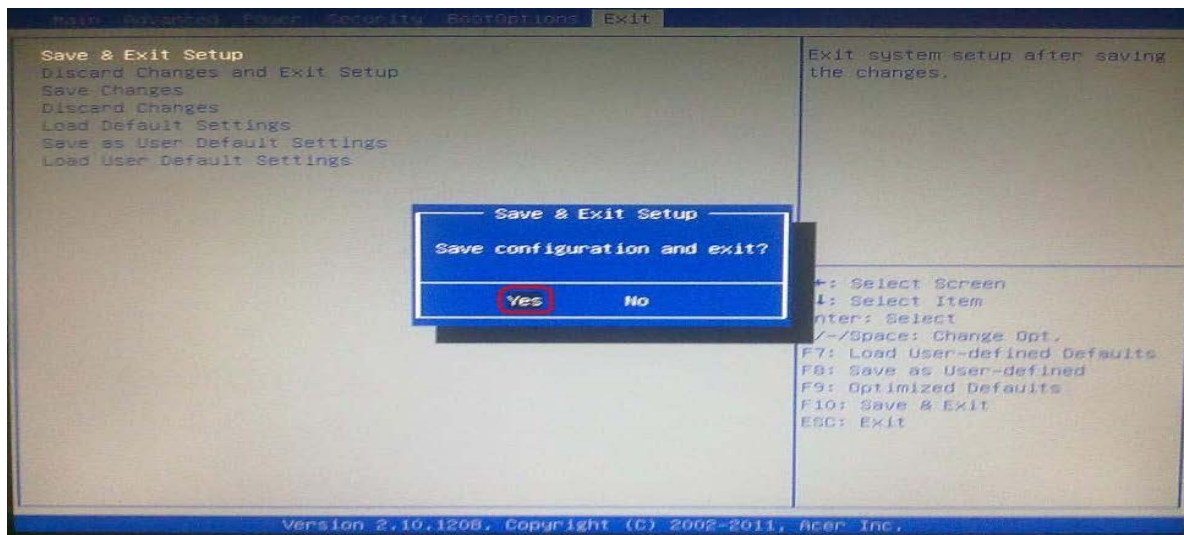
18. Select "Yes" and press "Enter" key.



19. Select "Save & Exit Setup" and press "Enter" key.



20. Select "Yes" and press "Enter" key.



21. Flash BIOS is finished.