

Flash BIOS SOP(aptio)

Document: SOP

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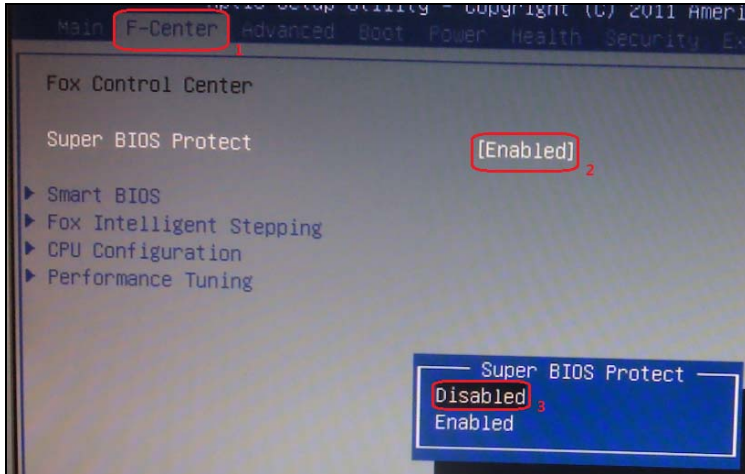
[illegible]

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Flash System BIOS SOP for DOS:

1. Copy BIOS folder to USB Disk. You can rename the BIOS folder. For example: rename to BIOS.
2. Power on the system, Modify Super BIOS Protect to Disabled in BIOS setup. If it is Disabled, please jump to step 3.



3. Boot system to DOS mode.
4. Enter BIOS folder.
5. Enter "SYSBIOS" folder.

```
C:\>cd BIOS
C:\BIOS>cd SYSBIOS
```

6. Execute "dosflash.bat" file.

```
C:\BIOS\SYSBIOS>dosflash.bat
```

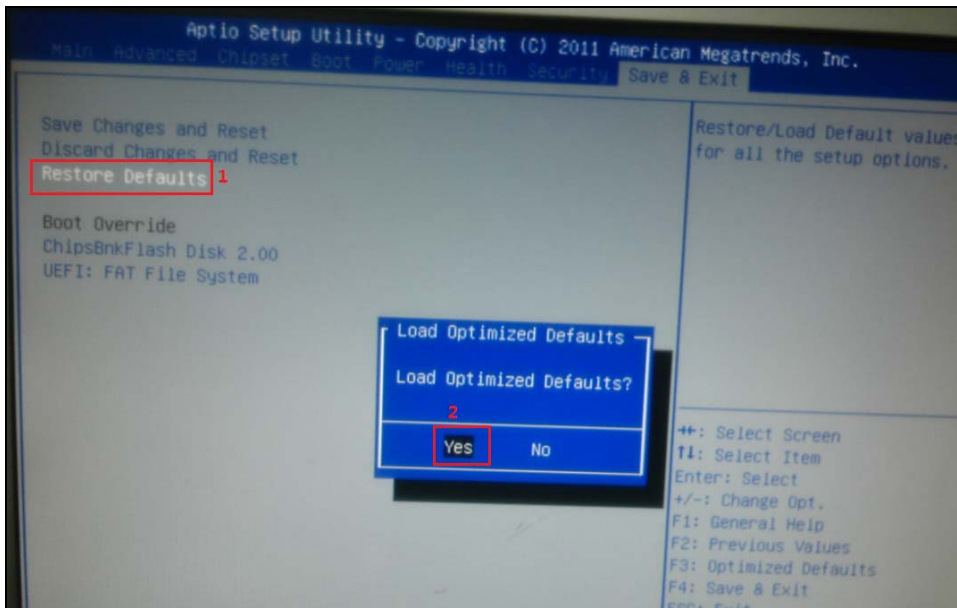
7. Process to flash BIOS (Don't reset or cut the power).

```

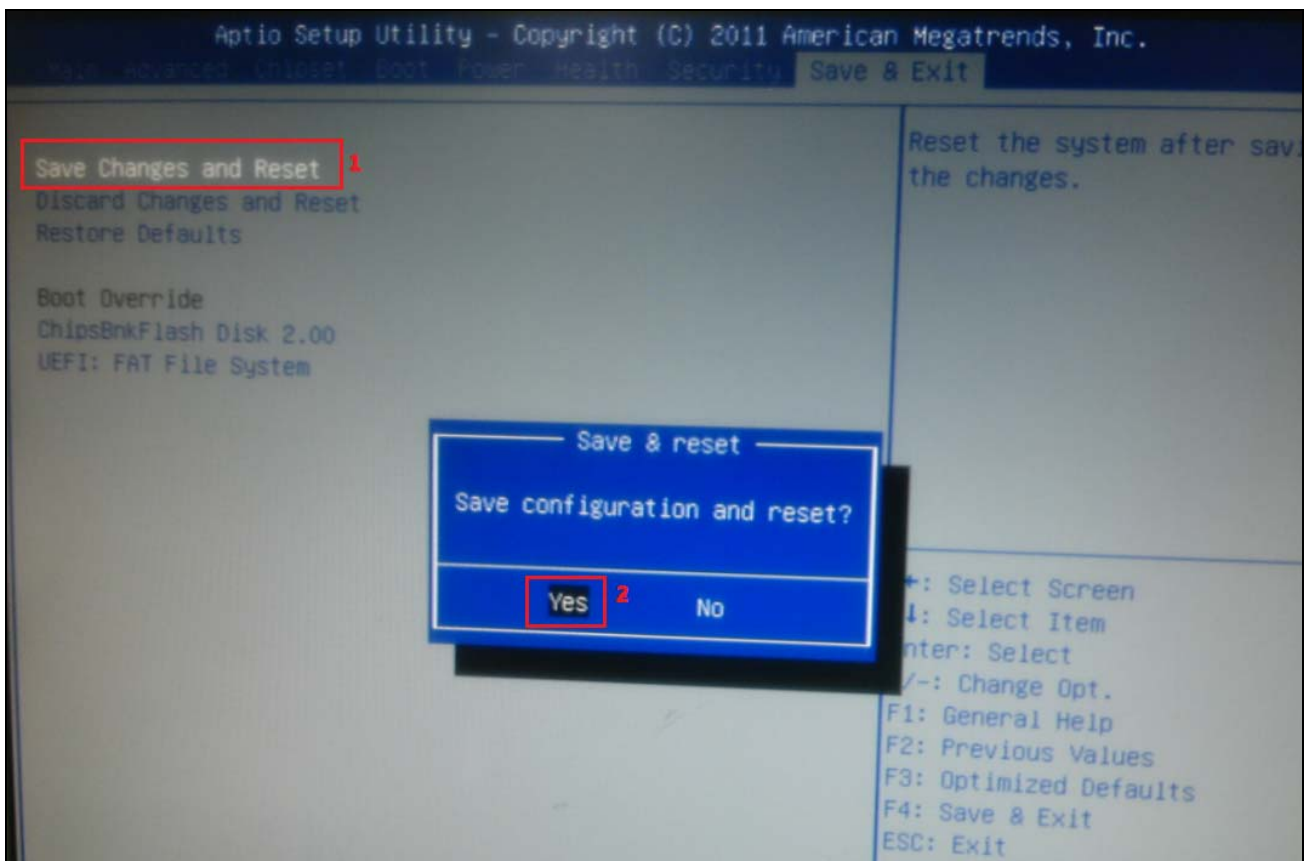
+-----+
|          AMI Firmware Update Utility(APTIO) v2.37          |
|    Copyright (C)2011 American Megatrends Inc. All Rights Reserved.    |
+-----+
Reading file ..... done
FFS checksums ..... ok
Reading flash ..... done
Erasing flash ..... done
Writing flash ..... done
Verifying flash ..... done
Erasing NVRAM ..... done
Writing NVRAM ..... done
Verifying NVRAM ..... done
Erasing BootBlock ..... done
Writing BootBlock ..... done
Verifying BootBlock ... done

```

8. Reboot the computer after finished flash BIOS. When you see the LOGO or hear one short beep, press "Del" to enter BIOS Setup.
9. Select "Restore defaults" item in Save & Exit. Press "Enter" key, select "Yes".



10. Select “**Save Changes and Reset**” item in Save & Exit. Press “**Enter**” key, select “**Yes**”.



11. Flash BIOS is finished.

Flash MEBIOS SOP for DOS:

- For development stage. Currently, ALL ODMs should use it to flash BIOS.

- It won't keep DMI and Setup settings.

1. Copy BIOS folder to USB Disk. You can rename the BIOS folder. For example: rename to BIOS.
2. Disabled ME on the Motherboard by ME jumper.



3. Boot system to DOS mode.
4. Enter BIOS folder.
5. Enter "MEBIOS" folder.

```
C:\>cd BIOS
C:\BIOS>cd MEBIOS
```

6. Execute "flash.bat" file.

```
C:\BIOS\MEBIOS>flash.bat
```

7. Please waiting BIOS update process.

```
Intel (R) Flash Programming Tool. Version: 7.1.11.1069
Copyright (c) 2007-2011, Intel Corporation. All rights reserved.

Platform: Intel(R) 6 Series Chipset Revision: Unknown
Reading HSFSTS register... Flash Descriptor: Valid

--- Flash Devices Found ---
MX25L3205A(D)    ID:0xC22016    Size: 4096KB (32768Kb)

PDR Region does not exist.
- Erasing Flash Block [0x400000] - 100% complete.
- Programming Flash [0x400000] 4096KB of 4096KB - 100% complete.
- Verifying Flash [0x400000] 4096KB of 4096KB - 100% complete.
RESULT: The data is identical.

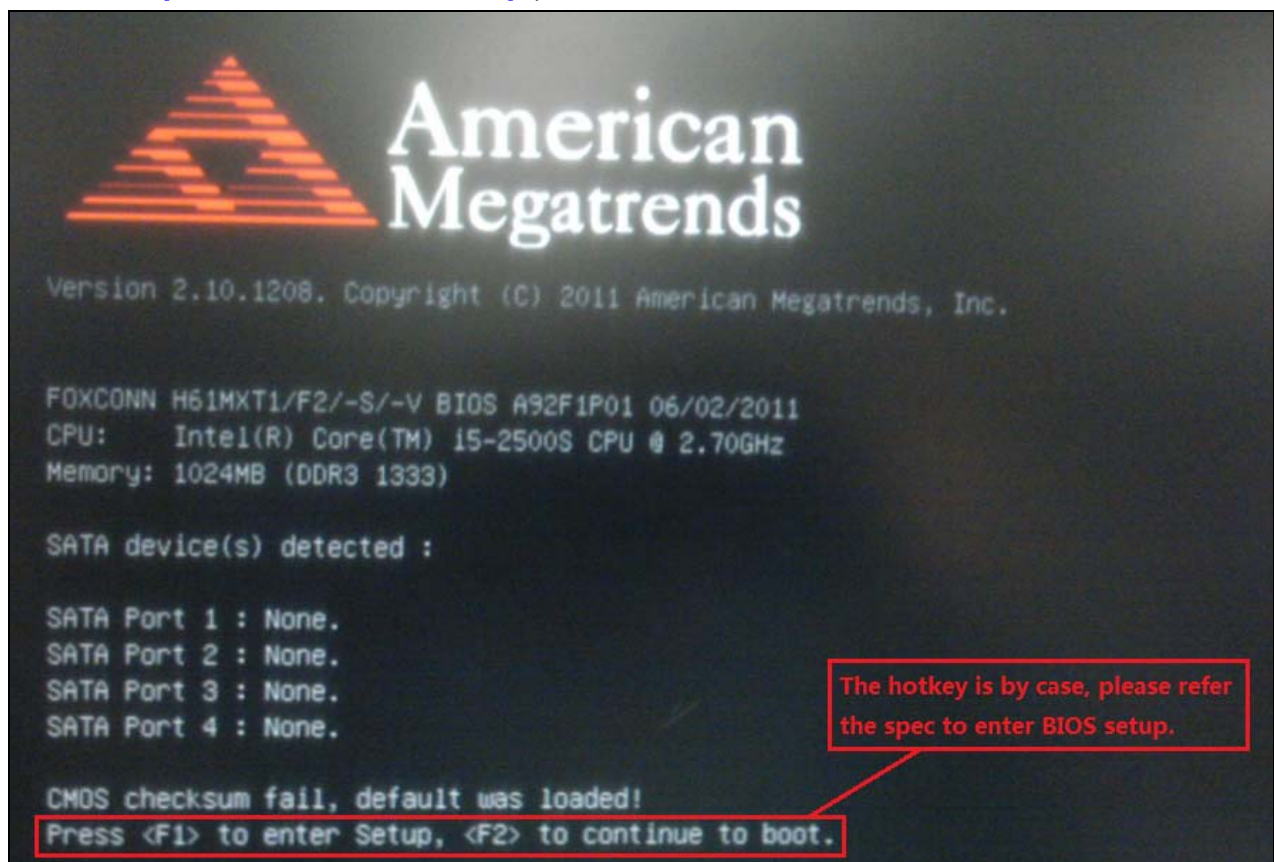
FPT Operation Passed
```


8. After finishing flash MEBIOS, please unplug power cord and Enabled ME on the Motherboard by ME jumper.

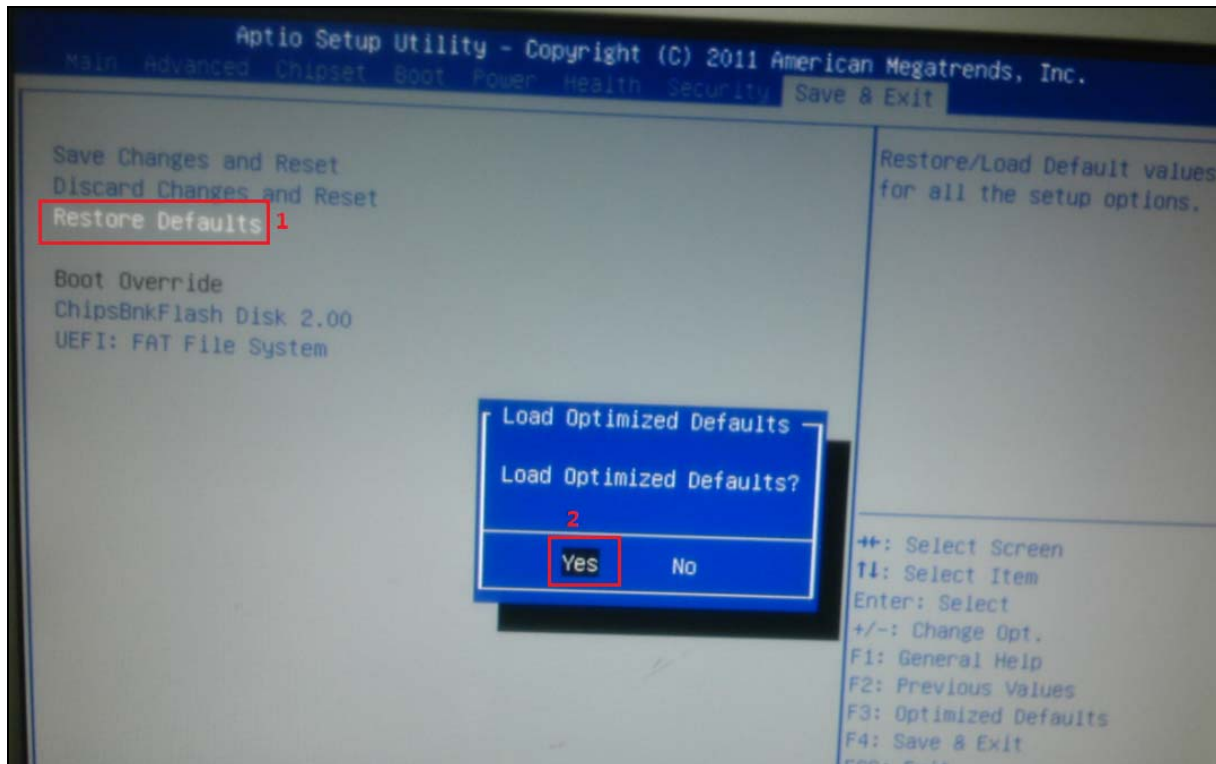


9. Plug the power cord again and power on the system after a moment.

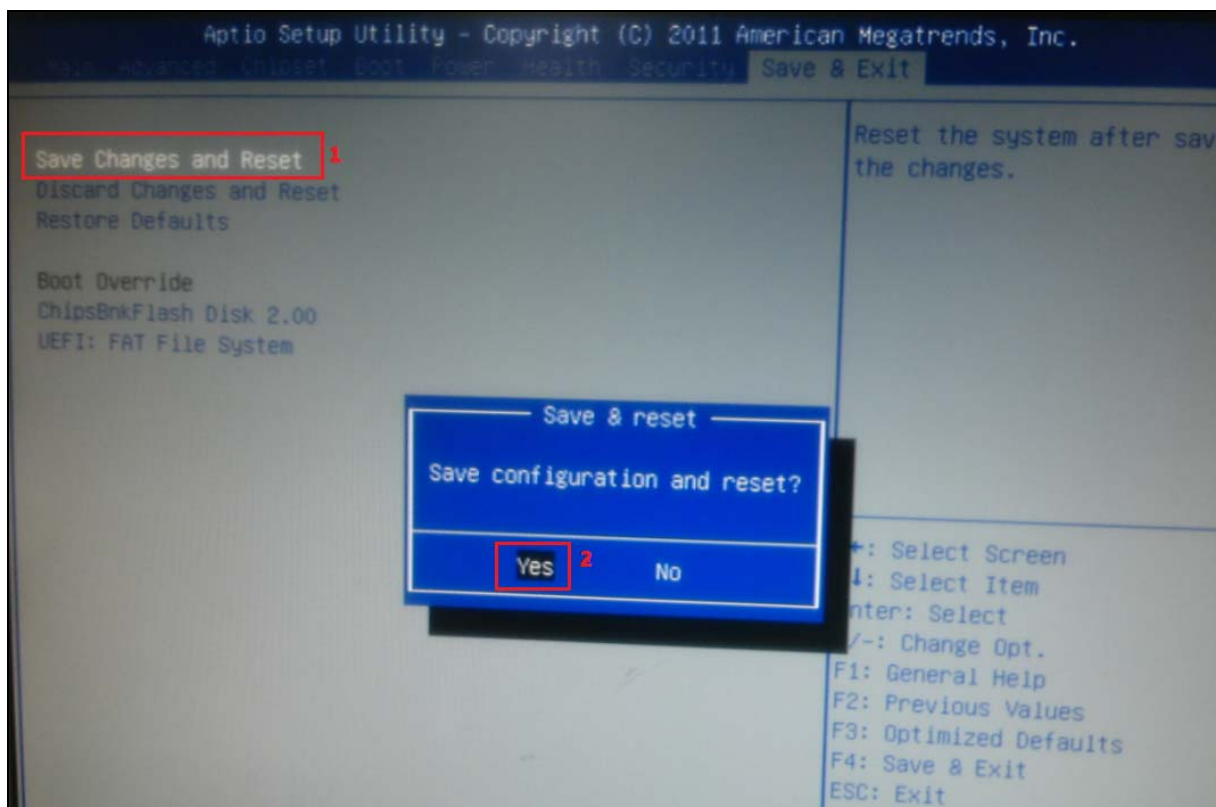
10. Press "F1" to enter BIOS setup and load BIOS default. (The hotkey is by case, please refer the spec to enter BIOS setup.)



11. Select “Restore defaults” item in Save & Exit. Press “Enter” key, select “Yes”.



12. Select “Save Changes and Reset” item in Save & Exit. Press “Enter” key, select “Yes”.



13. Flash BIOS is finished.

Flash MEBIOS SOP under DOS use AFUDOS tool:

1. Copy BIOS folder to USB Disk. You can rename the BIOS folder. For example: rename to Tool.
2. Disabled ME on the Motherboard by ME jumper.



3. Boot system to DOS mode.
4. Enter BIOS folder.
5. Enter "MEBIOS" folder.

```

C:\TOOL\MEBIOS>dir

Volume in drive C is QUBER
Volume Serial Number is D250-42A0
Directory of C:\TOOL\MEBIOS

.                <DIR>                04-03-12  2:05p
..               <DIR>                04-03-12  2:05p
BC1F1P02.BIN     4,194,304  04-03-12  11:30a
FLASH.BAT        19      04-03-12  11:37a
FPARTS.TXT       2,157    07-26-11  3:31p
FPT.EXE          639,812  11-09-11  4:55p
BC1F1P01.BIN     4,194,304  03-03-12  6:06p
A92F1P04.BIN     4,194,304  12-16-11  4:17p
AFUDOS.EXE       133,168  01-06-12  11:39a
4MFLASH.BAT      40      04-03-12  4:38p
8 file(s)        13,358,108 bytes
2 dir(s)         7,058.51 MB free

C:\TOOL\MEBIOS>4mflash

```

6. Execute "flash.bat" file.

```

C:\BIOS\MEBIOS>flash.bat

```

7. Please waiting BIOS update process.

```
Intel (R) Flash Programming Tool. Version: 7.1.11.1069
Copyright (c) 2007-2011, Intel Corporation. All rights reserved.
```

```
Platform: Intel(R) 6 Series Chipset Revision: Unknown
Reading HSFSTS register... Flash Descriptor: Valid
```

```
--- Flash Devices Found ---
```

```
MX25L3205A(D)    ID:0xC22016    Size: 4096KB (32768Kb)
```

```
PDR Region does not exist.
```

```
- Erasing Flash Block [0x400000] - 100% complete.
- Programming Flash [0x400000] 4096KB of 4096KB - 100% complete.
- Verifying Flash [0x400000] 4096KB of 4096KB - 100% complete.
RESULT: The data is identical.
```

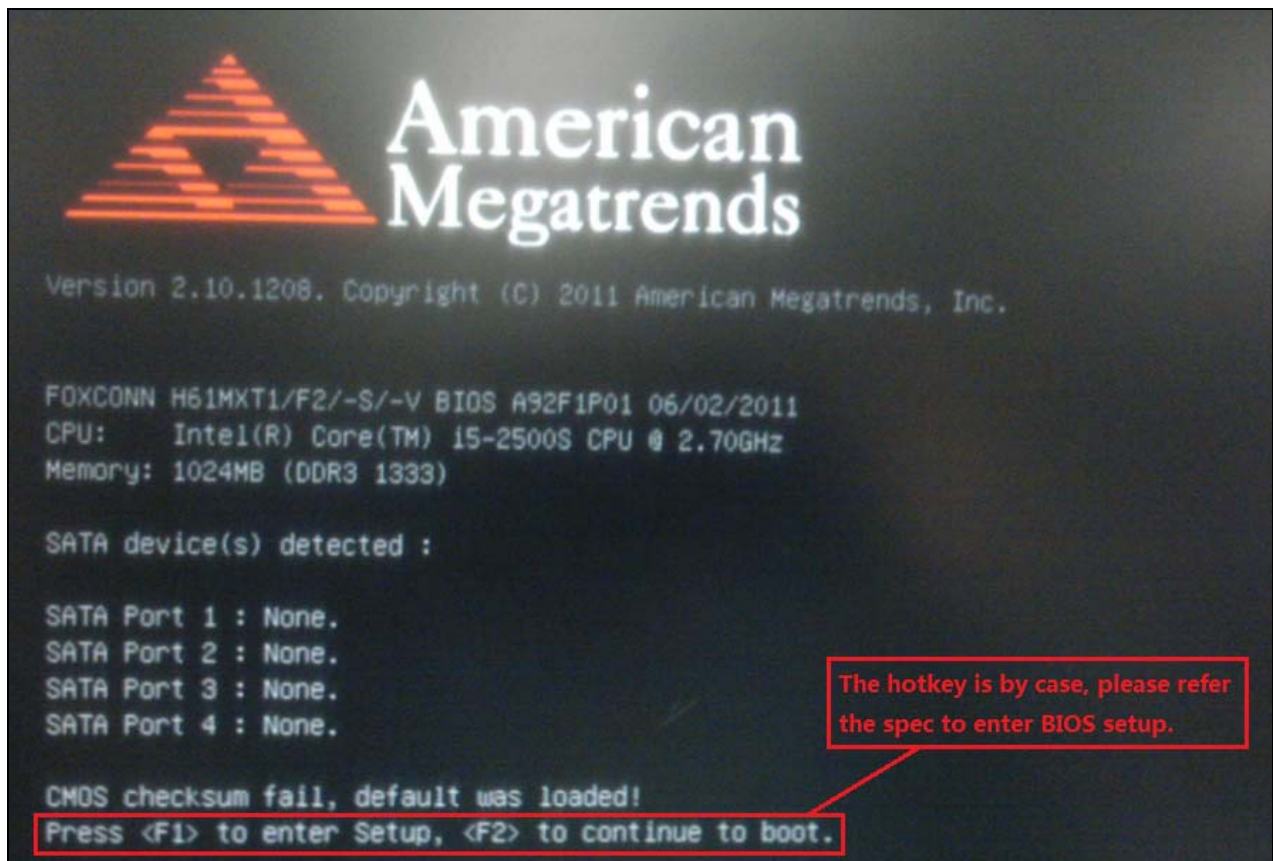
```
FPT Operation Passed
```

8、 After finishing flash MEBIOS, please unplug power cord and Enabled ME on the Motherboard by ME jumper.

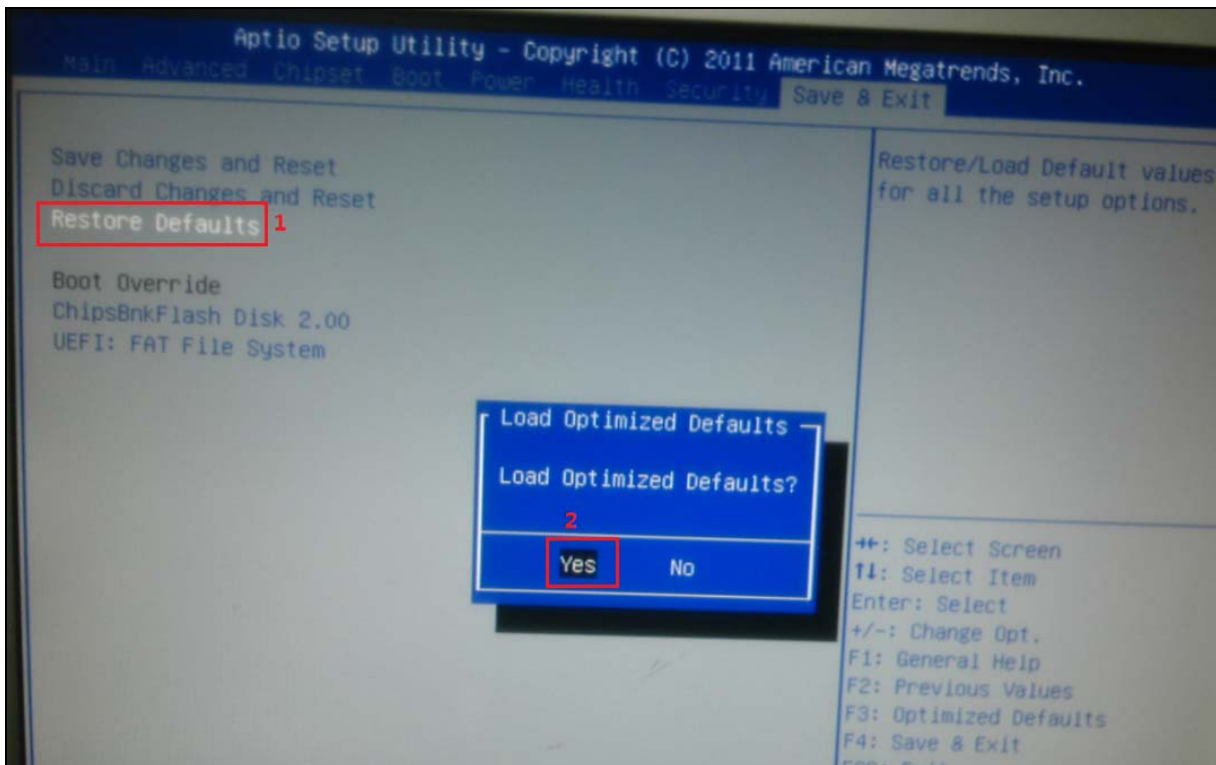


9. Plug the power cord again and power on the system after a moment.

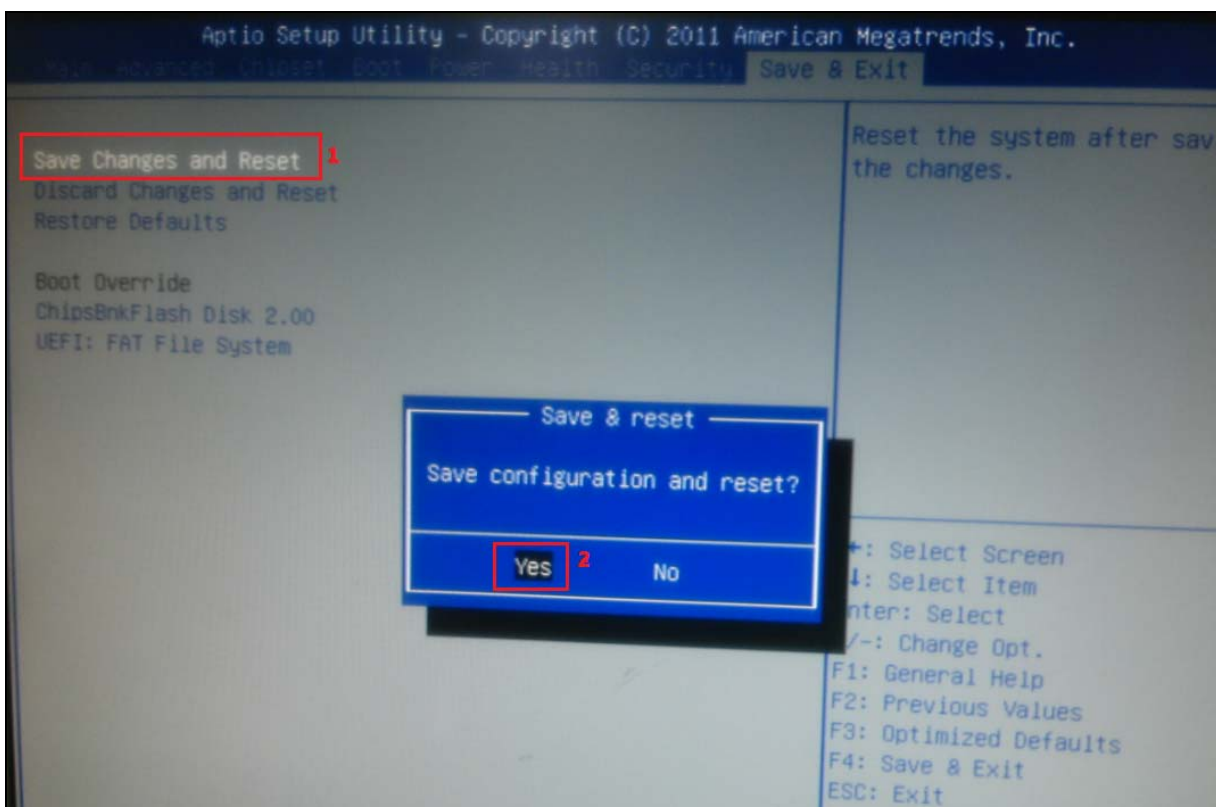
10. Press "F1" to enter BIOS setup and load BIOS default. (The hotkey is by case, please refer the spec to enter BIOS setup.)



11. Select "Restore defaults" item in Save & Exit. Press "Enter" key, select "Yes".



12. Select "Save Changes and Reset" item in Save & Exit. Press "Enter" key, select "Yes".



13. Flash BIOS is finished.