



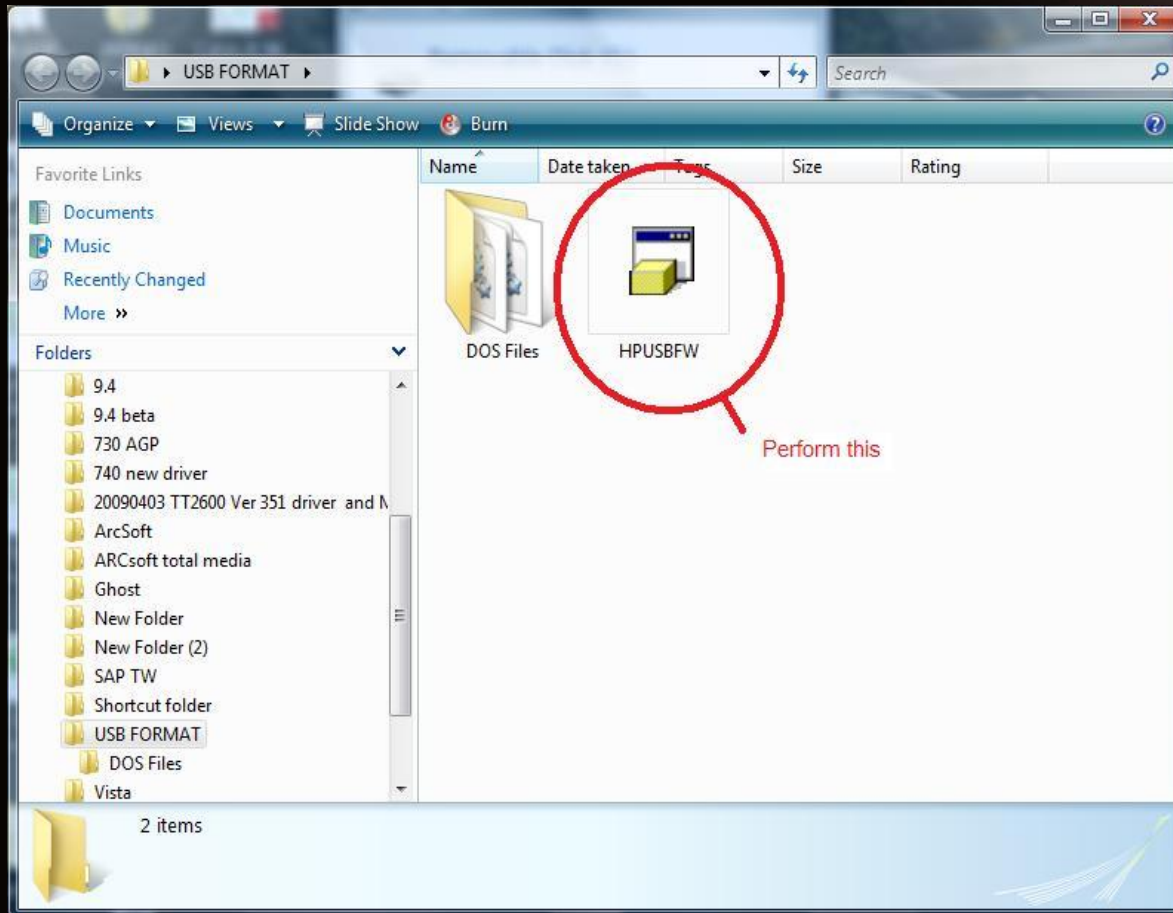
How to made a DOS Bootable USB Stick and flash your Vbios

Please note: The Vbios example is for Sapphire HD4870 GDDR5 512MB series.
Before doing this, please backup your original USB stick files

Step-1



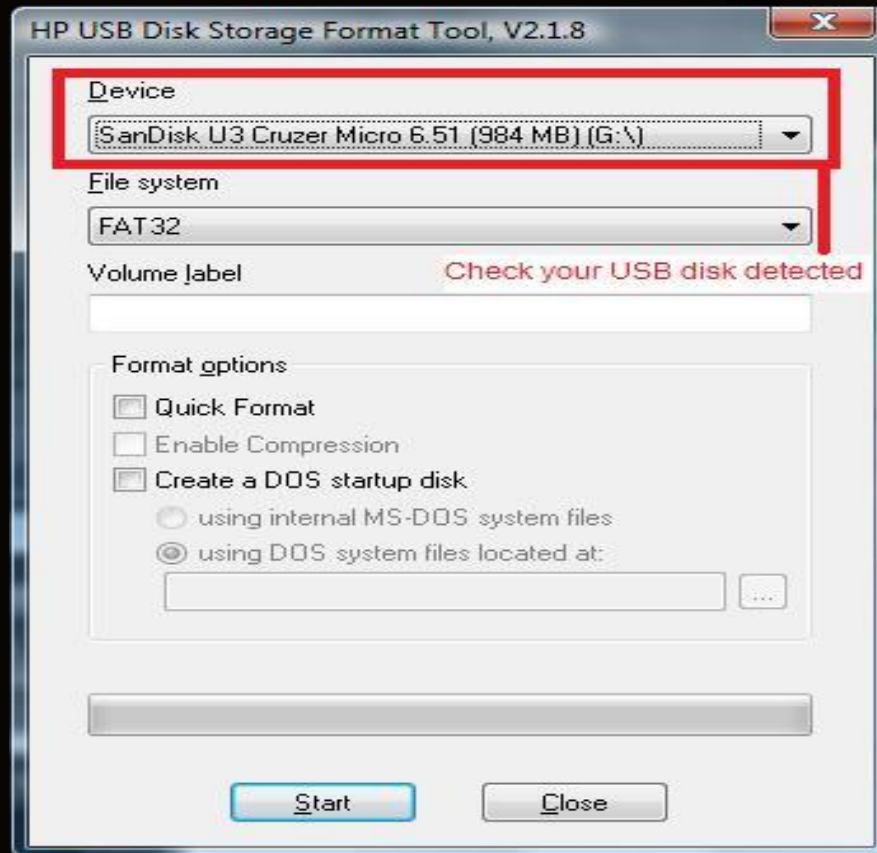
- Unzip “68.rar” file. You can see as follow picture
- Here is the file link: http://www.sapphiretech.com/global/lib_files/68.rar



Step-2



- Connect your USB stick and perform the **HPUSBFW** program
- Check your USB stick has been detected.



Step-3



HP USB Disk Storage Format Tool, V2.1.8

Device
SanDisk U3 Cruzer Micro 6.51 (984 MB) (G:\)

File system
FAT32

Volume label
[Empty text box]

Format options

- Quick Format → Tick this
- Enable Compression
- Create a DOS startup disk
 - using internal MS-DOS system files
 - using DOS system files located at:
[Empty text box] [...]

[Empty text box]

[Start] [Close]

Step-4



HP USB Disk Storage Format Tool, V2.1.8

Device
SanDisk U3 Cruzer Micro 6.51 (984 MB) (G:\)

File system
FAT32

Volume label

Format options

Quick Format

Enable Compression

Create a DOS startup disk

using internal MS-DOS system files

using DOS system files located at:

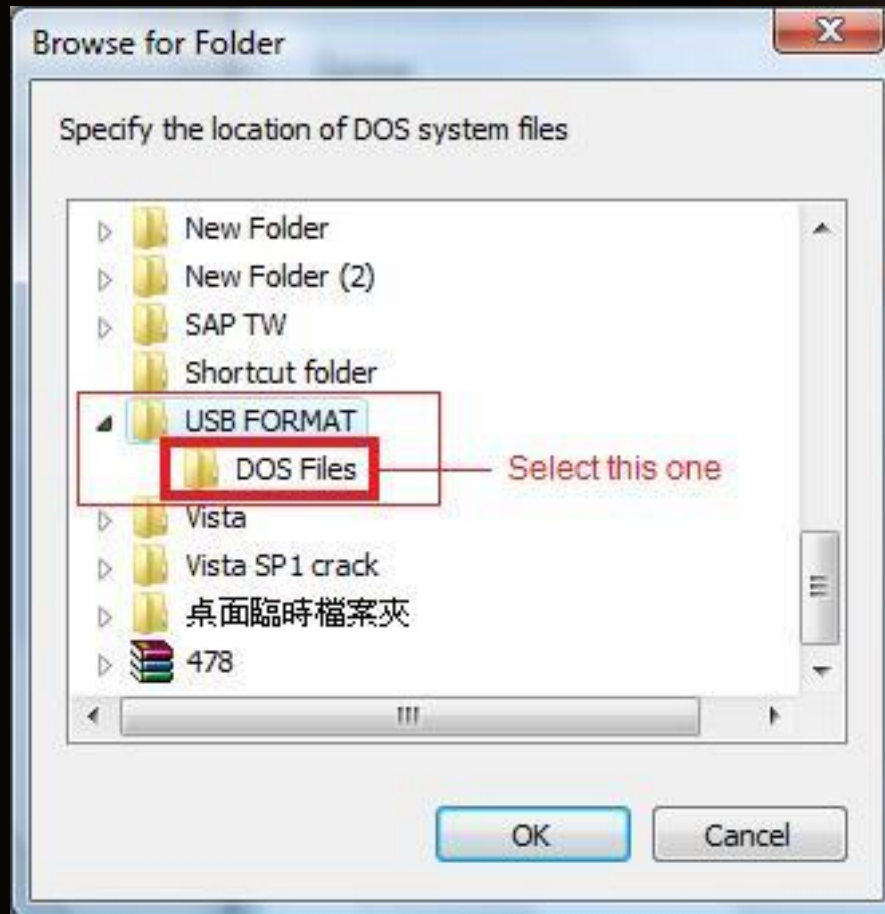
Assign the DOS system files path

Start Close

Step-5



- Assign the “DOS files” path from your USB FORMAT folder



Step-6



HP USB Disk Storage Format Tool, V2.1.8

Device
SanDisk U3 Cruzer Micro 6.51 (984 MB) (G:\) ✓

File system
FAT32

Volume label
[Empty text box]

Format options

Quick Format ✓

Enable Compression

Create a DOS startup disk ✓

using internal MS-DOS system files

using DOS system files located at:
C:\Users\ericlin.SAPPHIRE-TWDC01\Desktop ✓

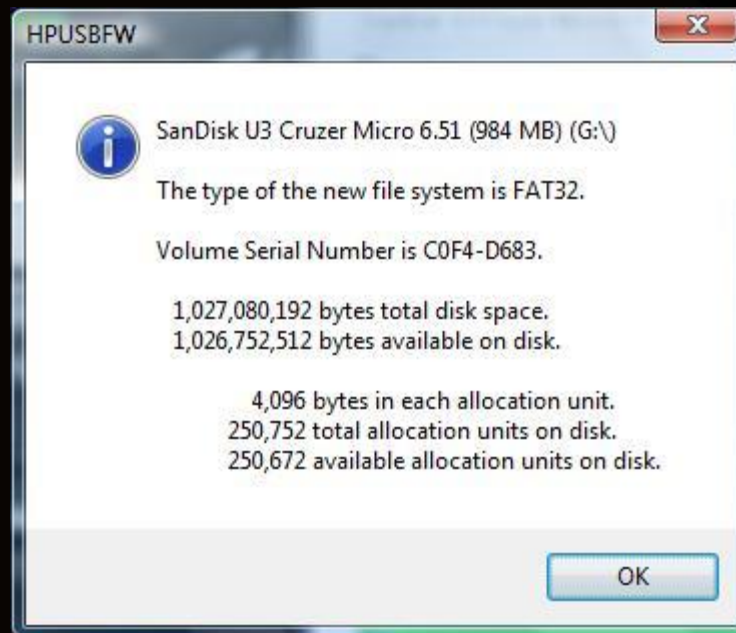
[Progress bar]

Format your USB disk

Step-7



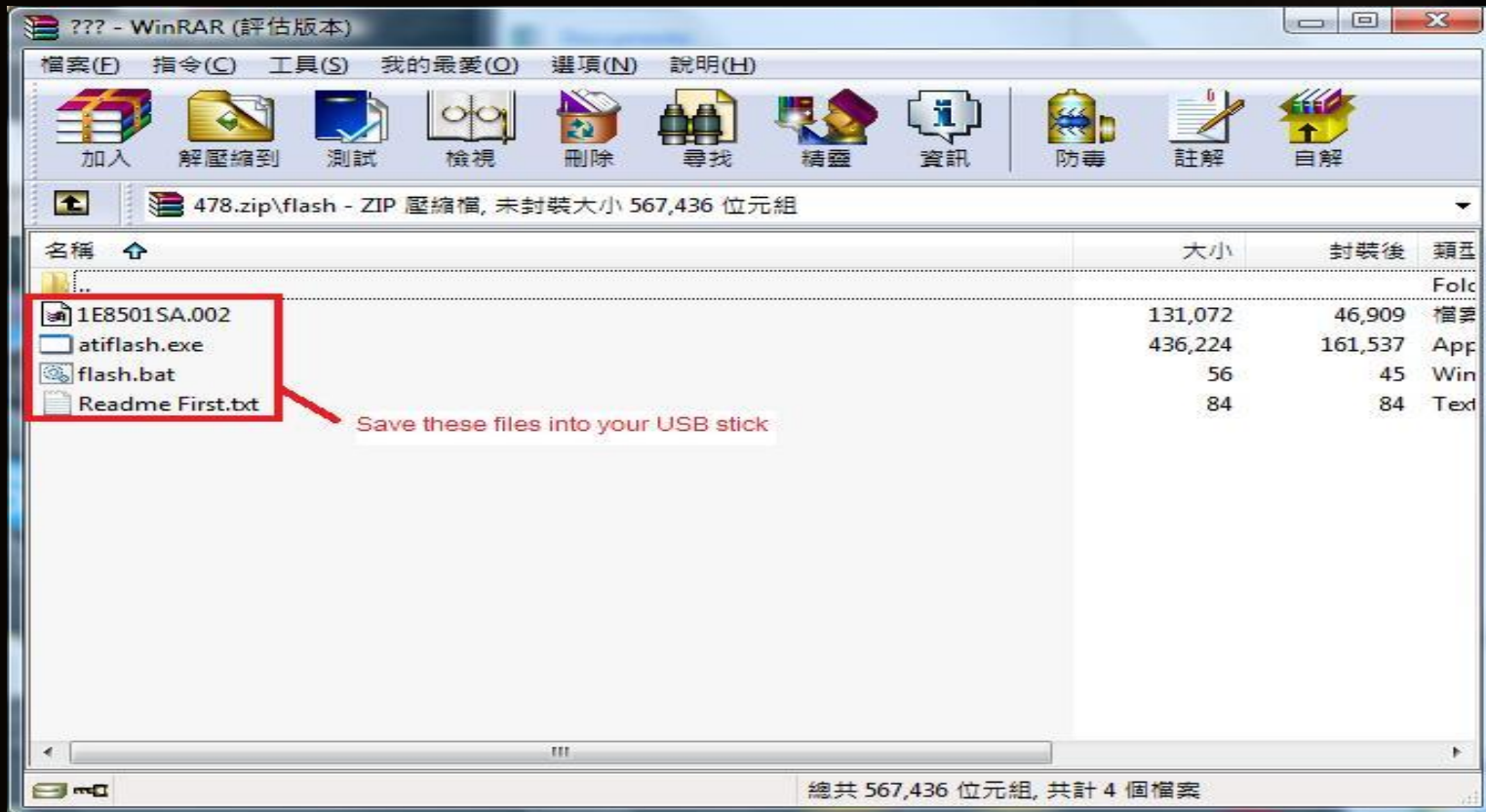
- After format your USB Stick you will see this information



Step-8



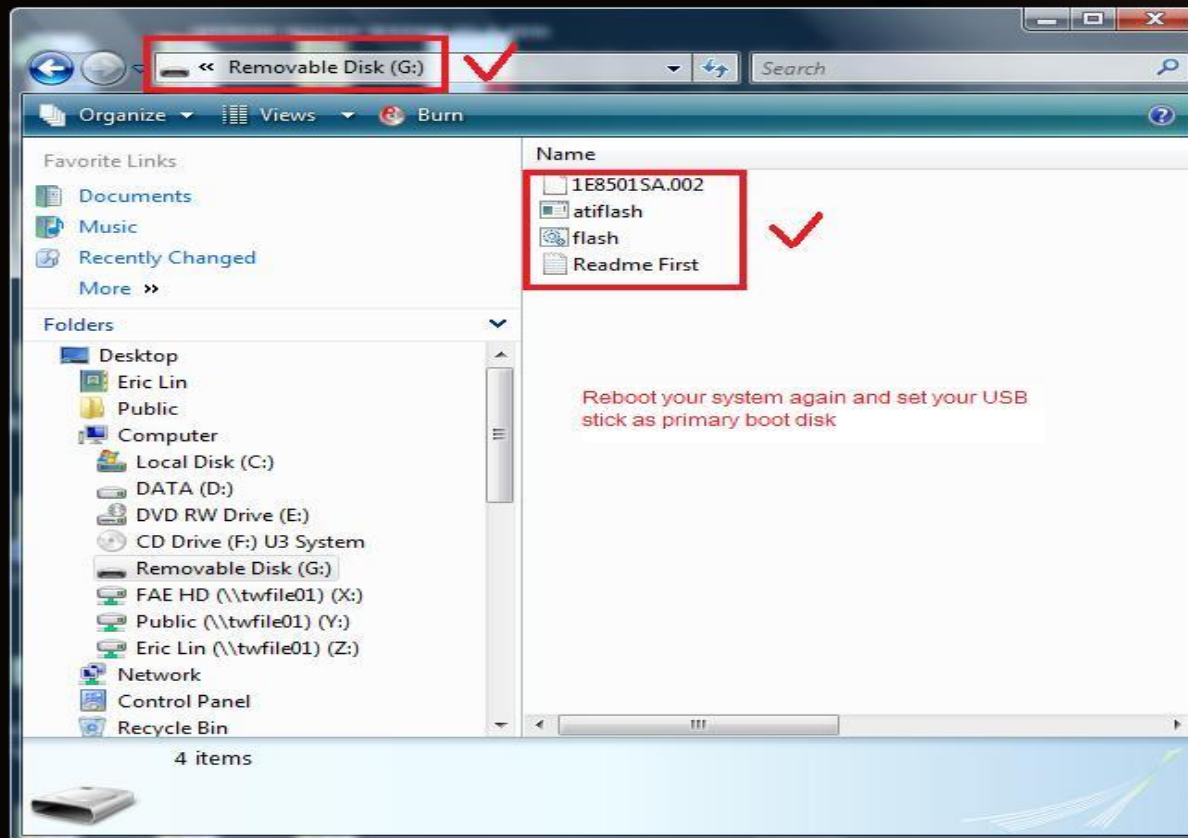
- Unzip 478.zip file or 59.rar and open the flash folder. You will see these files
- Here is file link: <http://us.sapphiretech.com/driver/478.zip> Card SKU: 11133-00 (478.zip)
- Here is file link: http://www.sapphiretech.com/global/lib_files/59.rar Card SKU: 11133-03 (59.rar)



Step-9



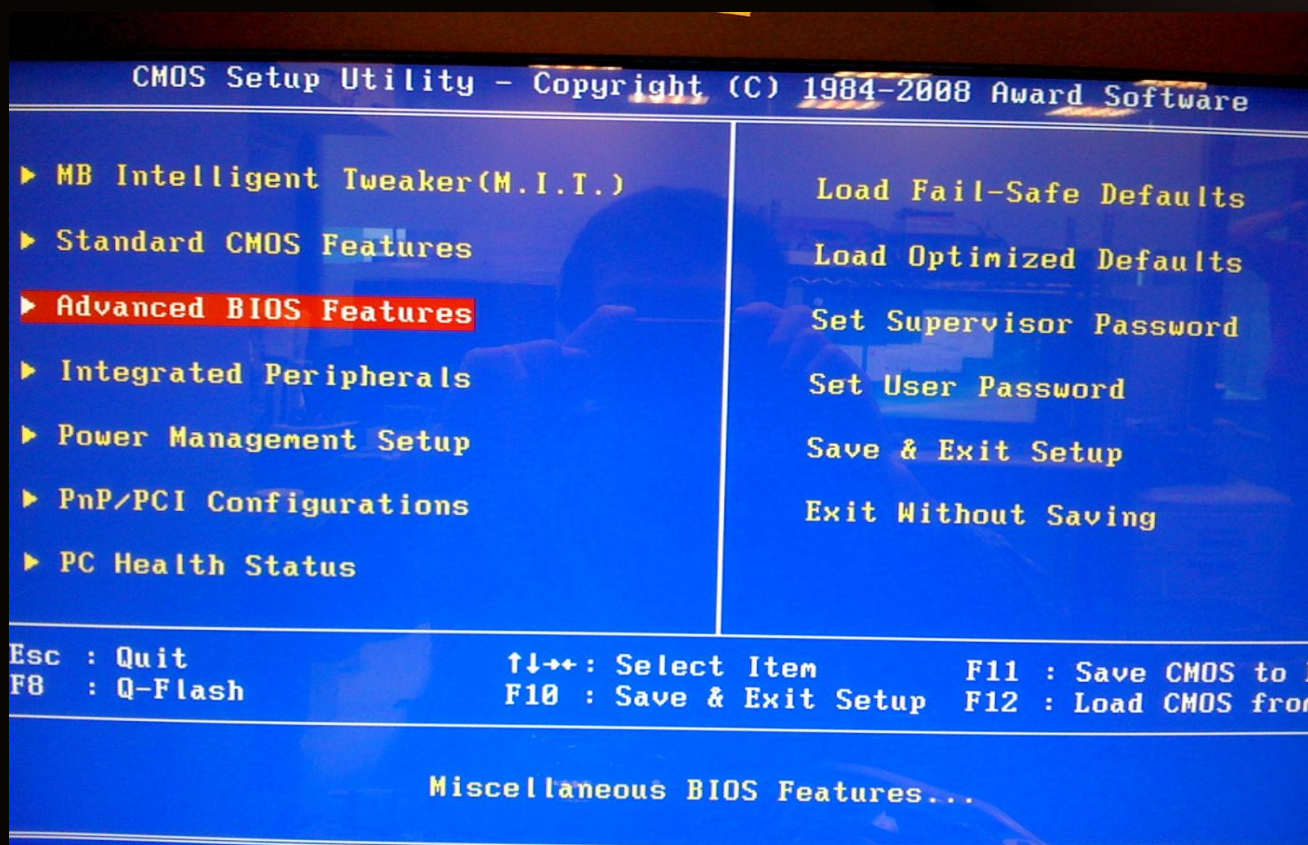
- Save these files into your USB stick directly and reboot your system again through this USB Stick



Step-10



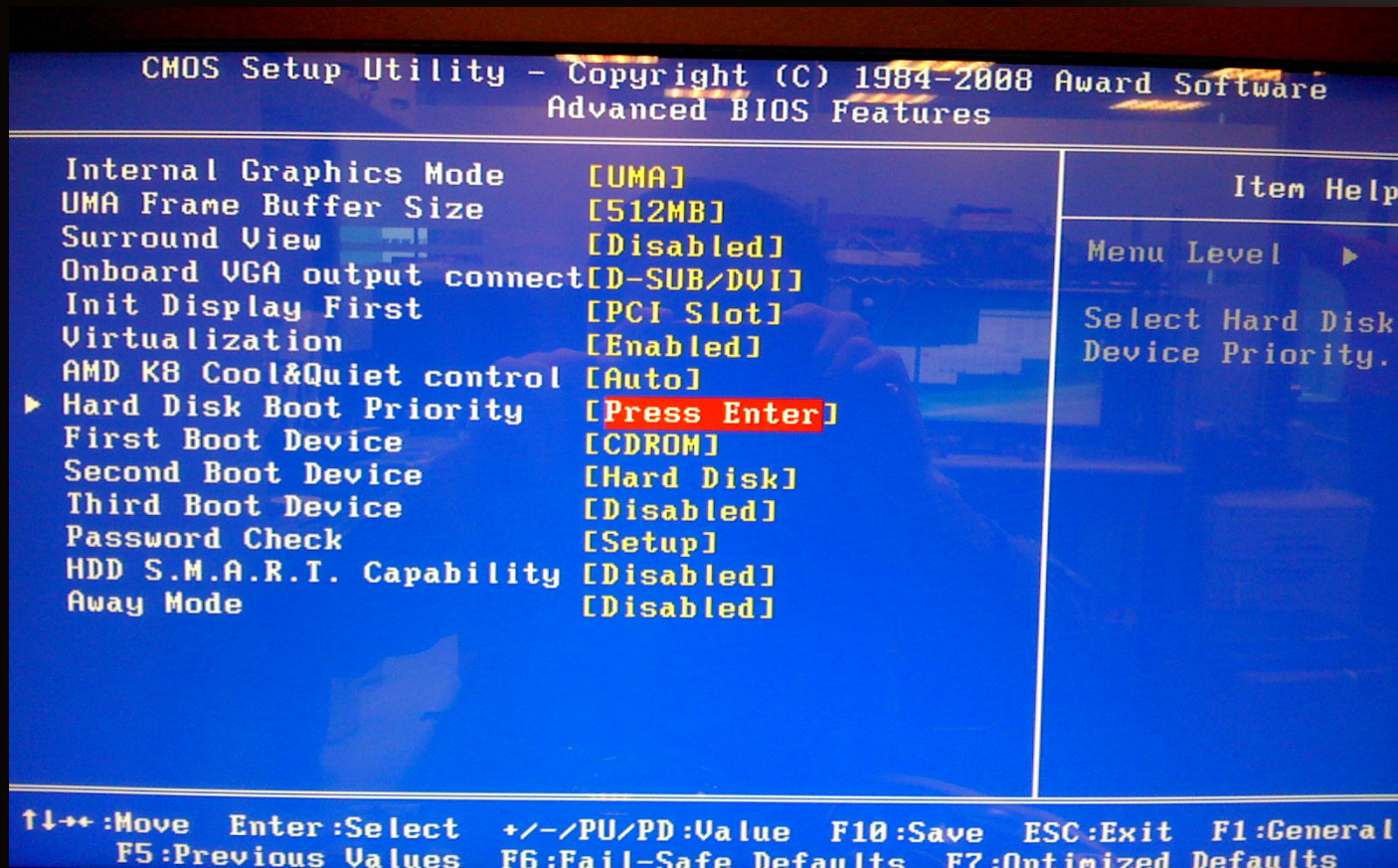
- Enter motherboard bios setting menu and select “**Advanced BIOS Features**”



Step-11



- Looking for “**Hard Disk Boot Priority**” and select it.



Step-12



- Change your first hard disk boot priority to your **USB stick name**, save and reboot again. It will automatically enter DOS mode.



Step-13



- You will see this screen shot as follow



Step-14



- Type "flash" command as follow and it will automatically flash for you.

```
0 17 0 1002 4390 1458 B002 0101 Native IDE Cntrlr
0 18 0 1002 4397 1458 5004 0C03 USB 1.1 Host Cntrlr
0 18 1 1002 4398 1458 5004 0C03 USB 1.1 Host Cntrlr
0 18 2 1002 4396 1458 5004 0C03 USB 2.0 Host Cntrlr
0 19 0 1002 4397 1458 5004 0C03 USB 1.1 Host Cntrlr
0 19 1 1002 4398 1458 5004 0C03 USB 1.1 Host Cntrlr
0 19 2 1002 4396 1458 5004 0C03 USB 2.0 Host Cntrlr
0 20 0 1002 4385 1458 4385 0C05 SMBus Cntrlr
0 20 1 1002 439C 1458 5002 0101 IDE Cntrlr
0 20 2 1002 4383 1458 A022 0403 Multimedia Device
0 20 5 1002 4399 1458 5004 0C03 USB 1.1 Host Cntrlr
1 0 0 1002 9490 174B E100 0300 Display Cntrlr
1 0 1 1002 AA38 174B AA38 0403 Multimedia Device
2 0 0 10EC 8168 1458 E000 0200 Network Cntrlr
3 14 0 104C 8024 1458 1000 0C00 IEEE 1394 Host Cntrlr
ACPI Controller

Verifying DMI Pool Data .....
Boot from CD/DVD :

Microsoft(R) Windows 98
(C)Copyright Microsoft Corp 1981-1999.

C:\>flash
```


Step-15



- After flash your vbios and reboot, please reinstall card driver and reboot again.

```
(C)Copyright Microsoft Corp 1981-1999.  
C:\>flash  
  
C:\>atiflash -s 0 1e85old.bin  
0x20000 bytes saved, checksum = 0x62B4  
  
C:\>atiflash -p 0 1e8501sa.002 -f  
Old SSID: 0502  
New SSID: 0502  
Old P/N: 11X-1E8501SA-001  
New P/N: 11X-1E8501SA-001  
Old DeviceID: 9440  
New DeviceID: 9440  
Old Product Name: RV770XT 512M CDDR5 2DVI TVO  
New Product Name: RV770XT 512M CDDR5 2DVI TVO  
Old BIOS Version: 011.010.000.002.029896  
New BIOS Version: 011.010.000.002.029896  
Flash type: PM25LV010  
20000/20000h bytes programmed  
20000/20000h bytes verified  
  
Restart System To Complete VBIOS Update.  
C:\>_
```