



Instructions for iFlash BIOS Update

With the iFlash BIOS update utility you can update the BIOS from a floppy disk, bootable CD-ROM, bootable USB flash drive or other bootable USB media. (Information on how to create a bootable USB device or CD is listed at the end of this document.)

All BIOS update files for Intel® Desktop Boards are available on Intel's Download Center at <http://downloadcenter.intel.com/>.

Important Notes:

- Update the BIOS on your computer only if the newer BIOS version specifically solves a problem you have. We do not recommend BIOS updates for computers that do not need it. You can view all BIOS changes in the Release Notes included on the BIOS download page in Download Center.
- Downgrading the BIOS to an earlier version is not recommended and may not be supported. An earlier BIOS version may not contain the support for the latest processors, bug fixes, critical security updates, or support the latest board revisions currently being manufactured.
- Before initiating a BIOS update, be sure to read and precisely follow the instructions included in this document. You may wish to print the instructions for easy reference.
- If a BIOS update process is interrupted, your computer may not function properly. We recommend the process be done in an environment with a steady power supply (preferably with UPS).
- Before updating the BIOS on the Intel® Desktop Board, manually record all BIOS settings that have been changed (from default) so they can be restored after completing the BIOS update.
- All images in this example are for illustration purposes only. You need to select the correct BIOS files for your board.

Using the iFlash BIOS update is a two-part process:

Part 1: Create the bootable media (floppy, CD or USB device) containing the BIOS update

Part 2: Update the BIOS of the target computer

If Using a Floppy Disk

You can use this method if the iFlash files are small enough to fit on a floppy disk and the desktop board includes floppy drive support. You will need a blank floppy diskette.

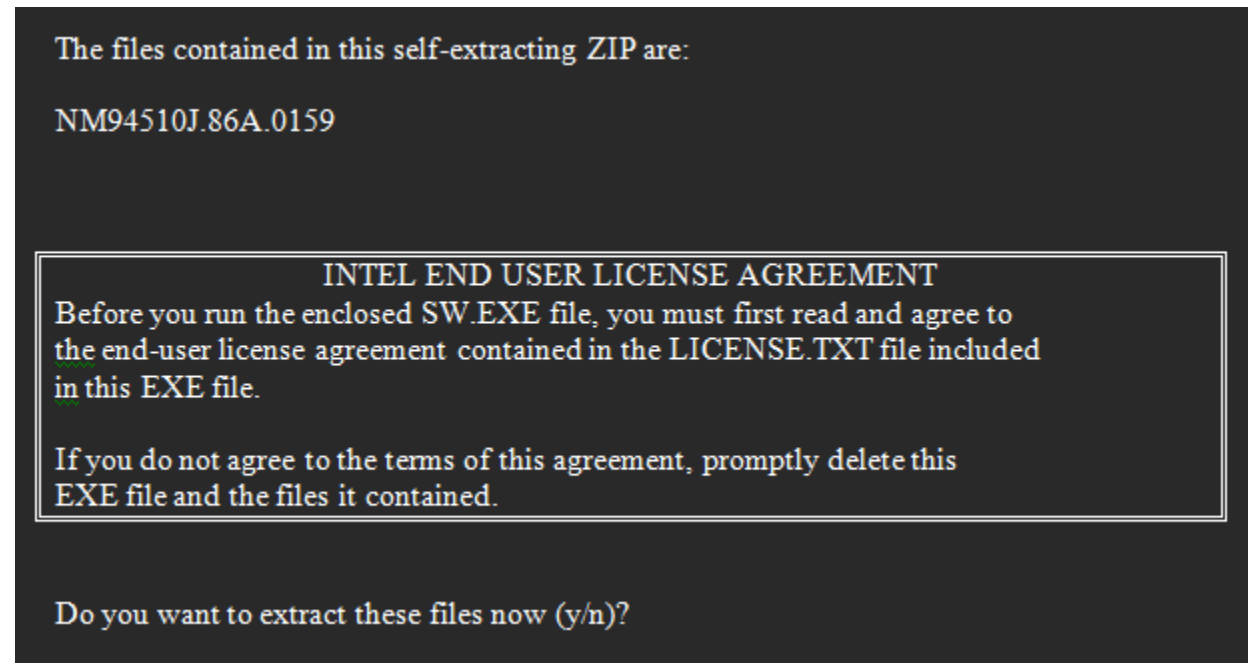
Part 1: Create the bootable media (floppy) containing the BIOS update

1. Download and save the iFlash BIOS Update file to a temporary directory. Example:

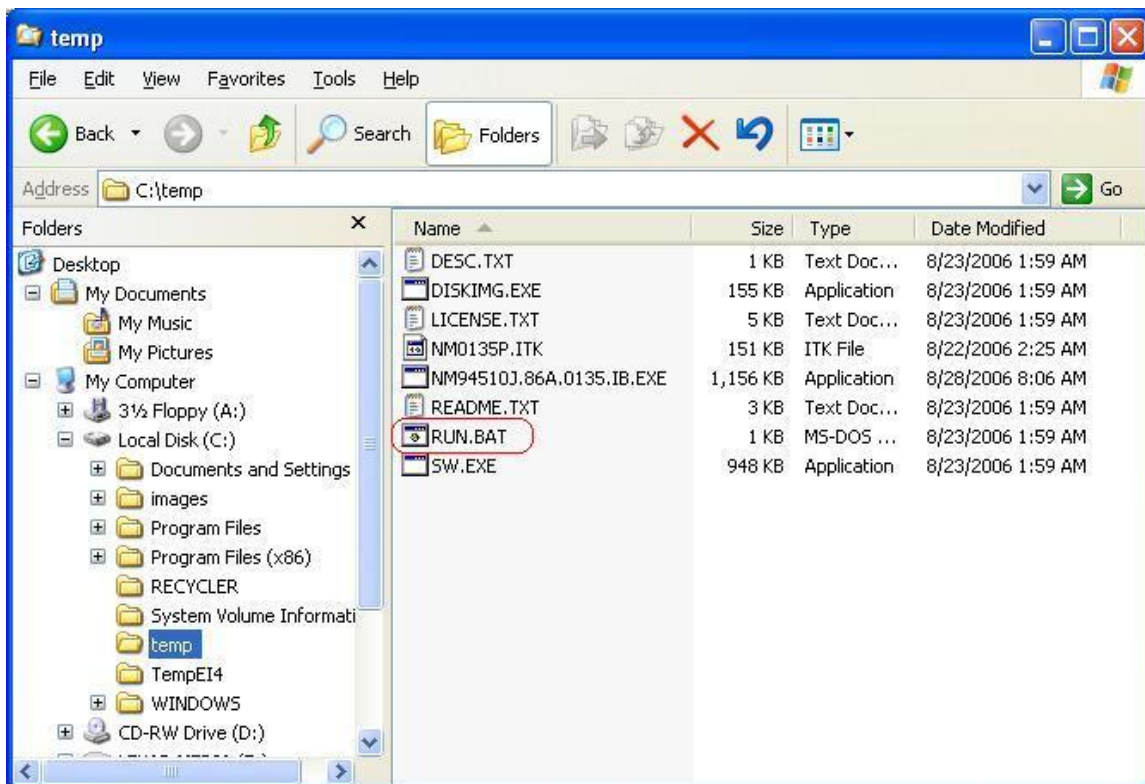
File name: NM94510J.86A.0135.IB.EXE	Version: 0135
Date: 08/22/2006	Status: Latest
Size: 1.13 MB	Language: English
Operating Systems: Linux*, OS Independent, Windows 2000*, Windows XP Home Edition*, Windows XP Professional x64 Edition*, Windows XP Professional*	

2. Insert a blank floppy diskette into the floppy drive.

3. Double-click the *.EXE file to begin the iFlash BIOS update process. Press “y” to extract necessary files to the temporary directory. Example:



4. After the extract is complete, the following files will be present in the temporary directory:



5. Double-click the **RUN.BAT** file. Follow the prompts to create the bootable floppy.

1. Download and save the iFlash BIOS Update file to a temporary directory. Example:

File name: NM94510J.86A.0135.IB.EXE

Version: 0135

Date: 08/22/2006

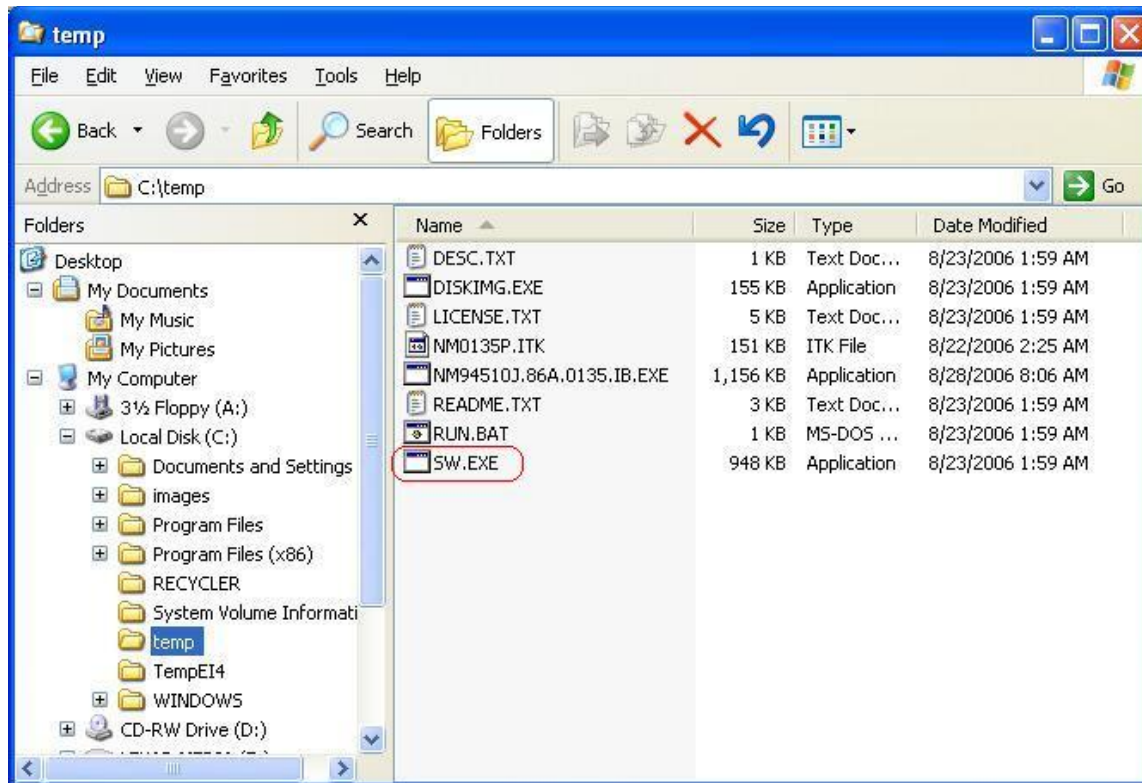
Status: Latest

Size: 1.13 MB

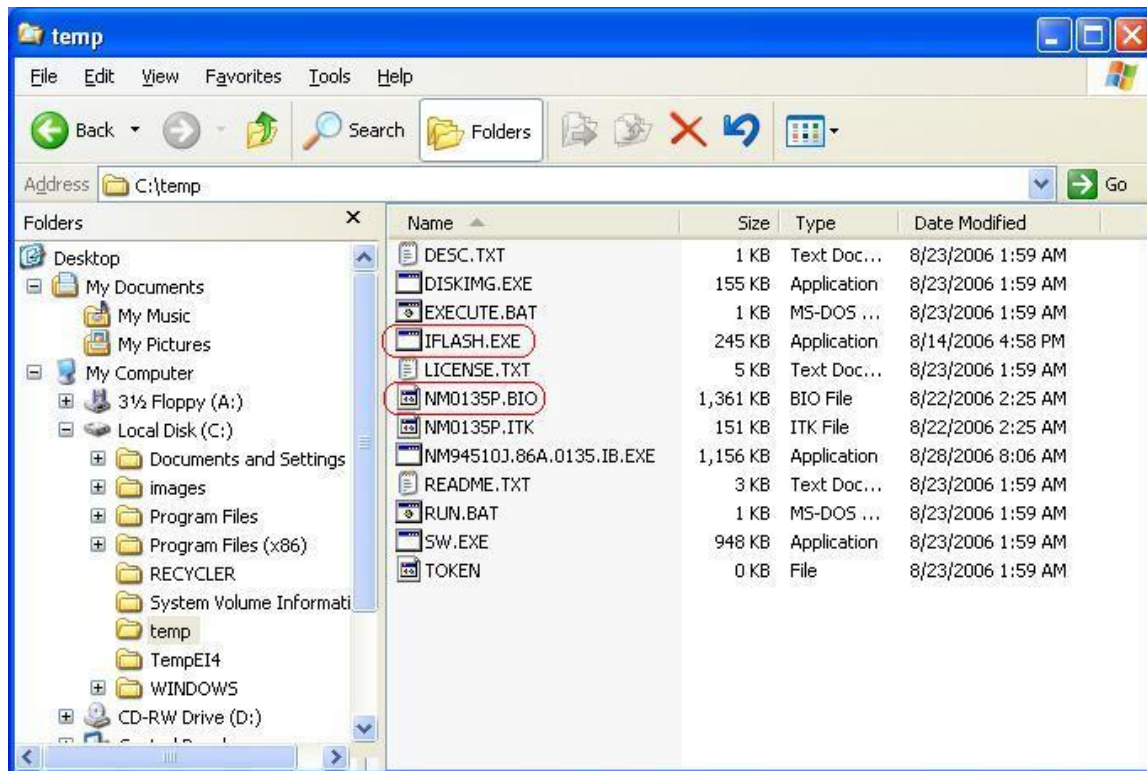
Language: English

Operating Systems: Linux*, OS Independent, Windows 2000*, Windows XP Home Edition*, Windows XP Professional x64 Edition*, Windows XP Professional*

2. Double-click the *.EXE to extract necessary files.
3. Double-click the **SW.EXE** file to extract additional files.



4. Copy IFLASH.EXE (or IFLASH2.EXE, depending on your board model) and the .BIO file to the bootable USB device.



5. Configure the BIOS of the target computer to boot to the USB device:
 - a. Press F2 during boot to enter BIOS Setup.
 - b. Go to the Boot menu.
 - c. Enable USB Boot.
 - d. Save by pressing F10 and exit the BIOS Setup.

Part 2: Update the BIOS of the target computer

1. Configure the BIOS of the target computer to boot to the USB device:
 - a. Press F2 during boot to enter BIOS Setup.
 - b. Go to the Boot menu.
 - c. Enable USB Boot.
 - d. Save by pressing F10 and exit the BIOS Setup.
2. Boot the target computer with the USB device connected.
3. At the prompt, type **IFLASH /PF XXX.BIO**, where XXX.BIO is the filename of the .BIO file (or **IFLASH2 /PF XXX.BIO**, depending on the version of iFlash you have) to launch the iFlash BIOS update process. Follow all prompts.

If Using a Bootable CD-ROM

Use this method if the iFlash files are too large to fit on a floppy disk or if the desktop board does not include floppy drive support. You will need a bootable CD-ROM. (Information on how to create a bootable CD is listed at the end of this document.)

Part 1: Create the bootable media (CD) containing the BIOS update

1. Download and save the iFlash BIOS update file to a temporary directory. Example:

File name: NM94510J.86A.0135.IB.EXE

Version: 0135

Date: 08/22/2006

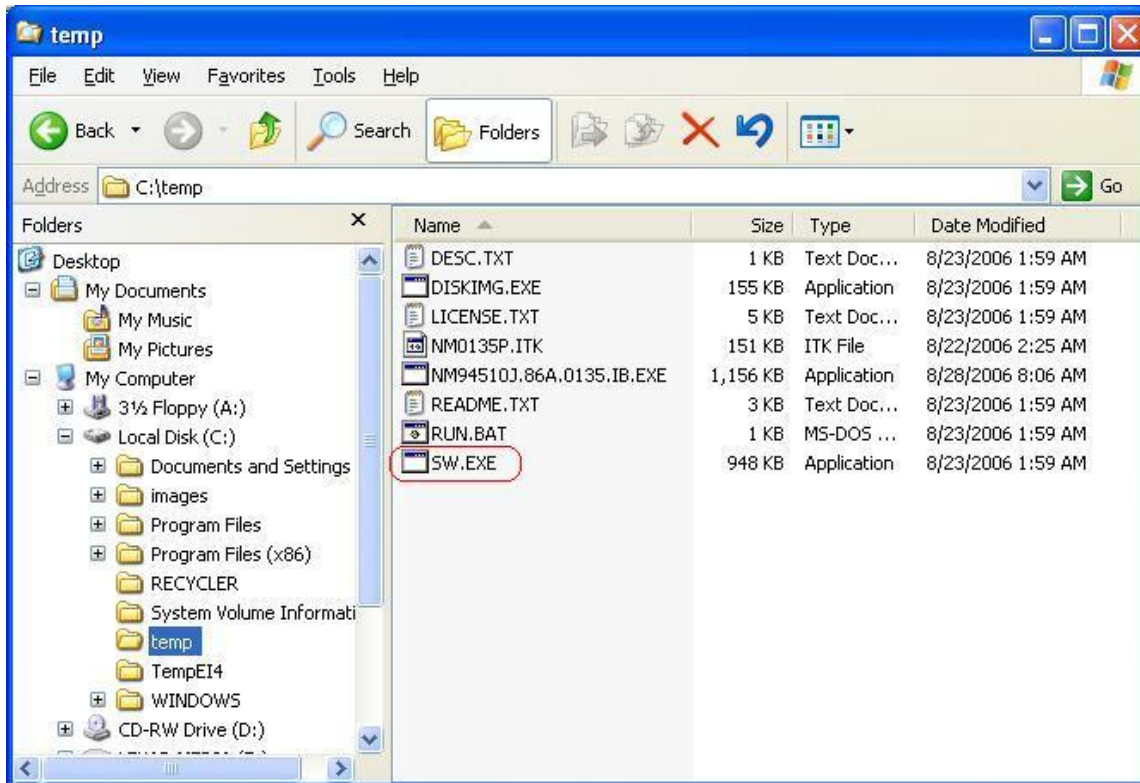
Status: Latest

Size: 1.13 MB

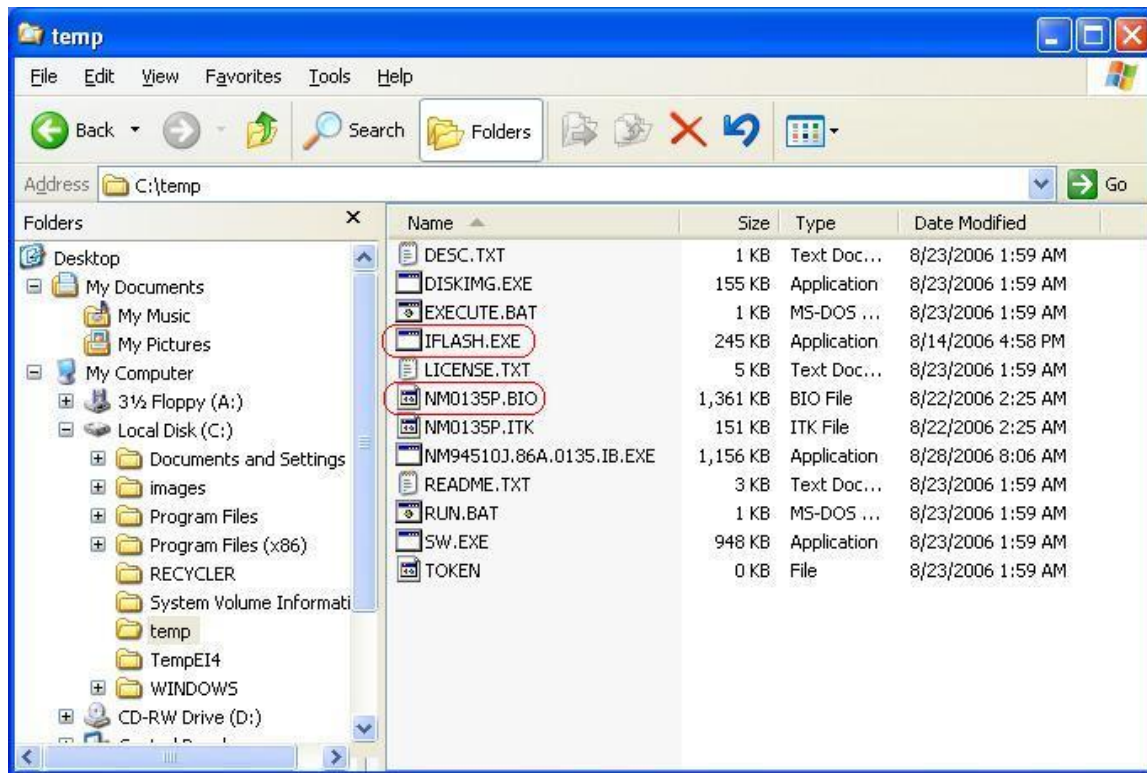
Language: English

Operating Systems: Linux*, OS Independent, Windows 2000*, Windows XP Home Edition*, Windows XP Professional x64 Edition*, Windows XP Professional*

2. Double-click the *.EXE to extract necessary files.
3. Double-click the **SW.EXE** file to extract additional files.



4. Copy IFLASH.EXE (or IFLASH2.EXE, depending on your board model) and the .BIO file to the bootable CD.



Part 2: Update the BIOS of the target computer

1. Configure the BIOS of the target computer to boot to the CD-ROM drive:
 - a. Press F2 during boot to enter BIOS Setup.
 - b. Go to the Boot menu.
 - c. In Boot Device Priority, set the CD-ROM drive to be the first boot device.
 - d. Save by pressing F10 and exit the BIOS Setup.
2. Boot the target computer with the CD in the drive.
3. At the prompt, type **IFLASH /PF XXX.BIO**, where XXX.BIO is the filename of the .BIO file (or **IFLASH2 /PF XXX.BIO**, depending on the version of iFlash you have) to launch the iFlash BIOS update process. Follow all prompts.

Creating a Bootable USB Device

Making a USB flash device into a bootable drive is not as simple as creating bootable floppy disks. Please refer to the documentation provided by the manufacturer of your USB device for information on how to create a bootable USB device. Additionally, you may refer to any of the following websites for tips on creating bootable USB devices. Intel is unable to assist with the creation of bootable devices.

- Make your Thumb Drive Bootable at <http://www.computermag.com/article2/0,1895,1846793,00.asp>
- How to Boot from a USB Device at http://www.weethet.nl/english/hardware_bootfromusbstick.php

You can also search for additional resources on the web for creating bootable USB devices. Search on "How to create bootable USB drives".

Creating a Bootable CD

Creating a bootable CD is not as simple as creating bootable floppy disks. Refer to any of the following websites for tips on creating bootable CDs. Intel is unable to assist with the creation of bootable devices.

- Bart's Way to Create Bootable CD-ROMs at <http://www.nu2.nu/bootcd/>
- How to Create a Bootable CD-ROM at <http://www.hardwaresecrets.com/article/75>
- How to Create Bootable CDs at <http://www.techsupportalert.com/search/t1214.pdf>

You can also search for additional resources on the web for creating bootable CDs. Search on "How to create a bootable CD".

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