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Linux\* Driver Release Notes For Intel(R) Desktop Boards  
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PRODUCT  
Intel(R) Pro 1000 LAN Driver Version 5.2.16  
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DATE: February 26, 2004

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Purpose  
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This readme provides installation information for the Intel(R) Pro 1000 LAN Driver on Intel desktop boards.

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Text and Command Conventions for this Document  
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- Commands are listed either as stand-alone indented lines such as:  
    make install  
or surrounded by => \_\_\_\_ <= delimiters in sentences such as:  
    Enter the => make install <= command.
- Special callouts, buttons, and paths are placed within quote marks. For example:  
    Go to the "/root/test" directory and click on the "test.bin" file.  
    Always press the "Enter" key after each command entry.
- Bullet items are called out with a double dash "--" prefix at the left side of the page.

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Before Installation  
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1. Ensure the motherboard you are attempting to load this LAN driver on is an Intel(R) Desktop Board using an Intel(R) Pro 1000 LAN adapter. This LAN driver is intended for these products only.
2. Verify that the specific kernel version installed in the system meets the minimum required kernel version listed below for your distribution. (If needed, use the => uname -r <= command to check the current kernel version that the system is running.)
  - RedFlag\* (Hong Qi\*) 4.0,(2.4.20-3)
  - Red Hat\* 8.0,(2.4.18-4)
  - Red Hat\* 9.0,(2.4.20-6)
  - SuSE\* 8.2,(2.4.20)
3. Before installing this driver verify that your Linux installation has the appropriate tools to recompile source and that the Linux kernel source is in the default location, normally /usr/src/linux.
4. The driver installation requires kernel source and development tools. The kernel source is usually located at the "/usr/src/linux" path. Choose "Custom" or "Complete" Linux installation to ensure that all required libraries and tools are installed.
5. If you have more than one physical network card in your computer, you may specify which interface to install with the command:  
    ./intel-1000LAN-5.2.16.sh -i ethX  
    (Where X is your desired interface number)  
If you do not have more than one physical network card, the installer will select the default network interface (eht0).

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Installation Instructions  
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Use one of the following instruction methods to install the driver:  
-- Method 1 provides a simple script-controlled driver installation.  
-- Method 2 lets the user install the driver with manually entered commands.

Method 1 (script controlled installation)  
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1. Log into the system as the "root" user to ensure all necessary rights needed to compile and configure the LAN driver.
2. If you boot into the X-Windows GUI, open either a terminal or shell window.
3. Go to the directory where you downloaded the driver package file.
4. Decompress the downloaded file with the following command:  
    gunzip intel-100LAN.2.3.7.sh.gz
5. Run the downloaded package using the following command:  
    ./intel-1000LAN-5.2.16.sh

6. The script should auto-detect your hardware. Select "OK" to continue (with the "Enter" key).
7. Review and accept the license as follows:
  - Use the "Up" and "Down" arrow keys to scroll the license.
  - Use the "Left" and "Right" arrow keys to select.
  - Select "Exit".
  - Click either "Yes" or "No".
  - Then press the "Enter" key to complete the selection.
8. Then select "OK" at each dialog box to complete the installation.
9. Note that some installations must be configured to use the new network drivers. Do this by running the system configuration tool that comes with your specific Linux distribution.

#### Method 2 (manually controlled installation)

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1. Log into the system as the root user to ensure the necessary rights needed to compile and configure the LAN driver.
2. Move the base driver tar file to the directory of your choice. For example:  
/root/e1000
3. Decompress the downloaded file with the following command:  
gunzip intel-100LAN.2.3.7.sh.gz
4. Decompress the downloaded driver package:  
./intel-1000LAN-5.2.16.sh -d
5. Change to the driver src directory:  
cd /tmp/lan.<DIR>/e1000-5.2.16/src/  
(Note: <DIR> is the directory where the decompress wrote the install archive)
6. Compile the driver module using the following commands:  
make  
make install
7. The binary will be installed as:  
/lib/modules/[KERNEL\_VERSION]/kernel/drivers/net/e1000.0
8. Install the module: insmod e1000 (no additional parameters are normally needed, for additional details see the readme and install instructions bundled with the driver package).
9. Assign an IP address to the interface by entering the following, where x is the interface number (usually 0):  
ifconfig ethx <IP\_address>.  
Verify that the interface works. Enter the following, where <IP\_address> is the IP address for another machine on the same subnet as the interface that is being tested:  
ping <IP\_address>
10. Note that some installations must be configured to use the new network drivers. Do this by running the system configuration tool that comes with your specific Linux distribution.
11. For additional information visit:  
[www.intel.com](http://www.intel.com).

#### ===== Known Issues =====

None are listed at this time.

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