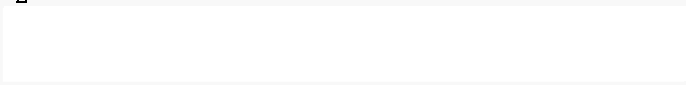


Myri10GE

From Documentation

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Myri10GE Documentation

Installation

Myricom-supported 10-Gigabit Ethernet software (Myri10GE) consists of two components: driver and firmware.

We provide WHQL-certified NDIS 5.0 drivers for Windows 2003, and WHQL-certified NDIS 6.0 drivers for Windows 7 and Windows Server 2008.

We provide RPMs which are KABI compliant on RHEL 5.5 and newer only. Binary RPMs are for x86_64 only.

Myricom actively supports Open Source software. Myricom has contributed Ethernet device drivers for Myri-10G Network Adapters Linux. These drivers are included beginning in Linux kernel 2.6.18.

However, the firmware required for optimal operation of your Myri-10G Network Adapter is **not** included in the Linux kernel. If you are using the myri10ge driver included in the Linux kernel, you will need to download and install the 10-Gigabit Ethernet firmware from the Myri10GE Firmware Only Download Page (http://www.myri.com/index.php?option=com_content&view=article&id=115&Itemid=133) .

Notes

The Myri10GE driver does **not** support timestamping.

For most workloads, the 10GbE switch to which the adapters are connected should have flow control enabled.

By default, the Linux and Windows Myri10GE drivers configure the Myri-10G Network Adapter with a 1500-byte MTU.

If the driver configures the adapter with a 9000-byte MTU, then the 10-Gigabit Ethernet switch to which the adapters are connected **must** support jumbo frames. Otherwise, the adapters must be configured with a 1500-byte MTU. Refer to the OS-specific instructions above.

Performance and Tuning

Performance Measurements (<http://www.myricom.com/solutions/10-gb-ethernet/performance.html>) using the Myri10GE software with Myri-10G Network Adapters on all supported operating systems are available.

For 10GbE performance tuning suggestions, please read [How do I troubleshoot slow Myri10GE or MX-10G performance?](#).

Here are two web pages listing PCIe2 motherboards and chip sets (http://www.myri.com/scs/performance/PCIe2_motherboards/) and PCIe motherboards and chip sets (http://www.myri.com/scs/performance/PCIe_motherboards/) for which Myricom has tested PCI-Express interoperability and performance.

Troubleshooting and Diagnostics

To obtain diagnostic information about the operation of the Myri-10G Network Adapters download the Myri-10G Network Adapter Tool Kit (<http://www.myri.com/support/downloads/tools/10g-tools.html>) .

To troubleshoot performance issues, please read [How do I troubleshoot slow Myri10GE or MX-10G performance?](#).

Frequently Asked Questions

[Myri10GE Frequently Asked Questions](#)

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Abbreviated Myri10GE Installation for Linux

From Documentation

Instructions

Download and Install the Linux 10GbE driver.

```
RHEL/Fedora: sudo rpm -Uvh kmod-myri10ge-1.5.3.pl-1.x86_64.rpm
```

or

```
$ gunzip -c myri10ge-linux.1.5.3.tgz | tar xvf -
$ cd myri10ge/linux
$ make clean
$ make
$ su root
# make install-only
```

To load the Myricom 10GbE driver, type the command

```
# modprobe myri10ge
```

A new ethernet interface, having a MAC address beginning with 00:60:DD, should now appear in the output of **ifconfig -a**. For example:

```
# ifconfig -a | grep 00:60:DD
```

```
eth2      Link encap:Ethernet  HWaddr 00:60:DD:47:E5:31
```

You should also see a message on the console, similar to the following, which indicates that the driver has loaded successfully.

```
myri10ge: eth1: MSI IRQ 233, tx boundary 4096, firmware eth_z8e.dat, WC Enabled
```

If hotplug firmware loading fails, or if write combining (WC) is disabled, please contact Myricom Technical Support (help@myricom.com) (<http://www.myri.com/support/contact-support.html>) .

If the driver fails to load, refer to the "Troubleshooting" section of the README (<http://www.myri.com/scs/README/README.myri10ge-linux>) . If an error occurs during the installation procedure or at run-time, please send the output of `myri10ge_bugreport.sh` (http://download.myri.com/pub/10g-tools/bugreport/linux/myri10ge_bugreport.sh) to Myricom Technical Support (help@myricom.com) (<http://www.myri.com/support/contact-support.html>) .

Important Linux performance tuning recommendations are provided in [How do I troubleshoot slow Myri10GE or MX-10G performance?](#) and the README (<http://www.myri.com/scs/README/README.myri10ge-linux>) .

Notes

For most workloads, the 10GbE switch to which the adapters are connected should have flow control enabled.

By default, the Linux Myri10GE driver configures the Myri-10G adapter with a 1500-byte MTU. It is possible to set the default MTU to 9000 bytes using the new MYRI10GE_JUMBO option. If you are currently using a 9000 byte MTU, you may wish to build and install the driver like this:

```
$ make MYRI10GE_JUMBO=1
$ su
# make install-only
```

Alternatively, Linux provides many ways to change the MTU at run time. The 10-Gigabit Ethernet switch to which the adapters are connected **must** support jumbo frames.

Refer to the README (<http://www.myri.com/scs/README/README.myri10ge-linux>) for further details.

Note for recent Linux versions: we try to support newer Linux versions within a few weeks of their official release. We also encourage customers to report any problem encountered with development Linux versions or release candidates.

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Abbreviated Myri10GE Installation for Windows

From Documentation

Instructions

Download the Windows 10GbE driver.

Invoke the **Device Manager** either from a command prompt or from the **Run** menu option from the **Start Bar**. The command is `%windir%\system32\devmgmt.msc`.

Right click on **Ethernet Controller** and select **Properties**.

From the **Properties** dialog box, select **Reinstall Driver**.

Navigate the dialog boxes until you are given the option to specify a location from which to install the driver.

Browse to the directory where the driver was extracted. Windows may display a warning saying that the driver is not signed. Select **OK** or **Continue Anyway**.

Set the IP address and other network settings as explained on the Microsoft website (<http://support.microsoft.com/default.aspx?scid=kb;en-us;308199&sd=tech>).

Windows performance tuning recommendations are listed in the FAQ How do I troubleshoot slow Myri10GE or MX-10G performance?.

Notes

For most workloads, the 10GbE switch to which the adapters are connected should have flow control enabled.

By default, the Windows Myri10GE driver configures the Myri-10G adapter with a 1500-byte MTU. If you would like to configure the adapters with a 9000-byte MTU, you must do the following:

Invoke the **Device Manager** either from a command prompt or from the **Run** menu option from the **Start Bar**. The command is `%windir%\system32\devmgmt.msc`. Under **Network adapters**, find the adapter to which you wish to configure. Right click on the adapter icon and select **Properties**. The **Properties** dialog box has multiple tabs. The **Advanced** tab contains multiple properties that can be changed, one of which is the MTU.

After configuring the adapter for jumbo frames, the 10-Gigabit Ethernet switch **must** also be configured to support jumbo frames.

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