Sun PCI-Express Dual Gigabit Ethernet MMF/UTP Adapter

Release Notes

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Sun PCI-Express Dual Gigabit Ethernet MMF/UTP Adapter Release Notes

This document contains material not available when the *Sun PCI-Express Dual Gigabit Ethernet MMF/UTP Adapter Installation and User's Guide* was completed. Please read this carefully before installing and configuring your Sun PCI-Express Dual Gigabit Ethernet MMF/UTP Adapter Release Notes adapter from Oracle.

You can find the latest updates for the Sun PCI-E Dual GigE driver software at this web site:

http://www.sun.com/download

Select "Networking".

You can find the latest Sun PCI-Express Dual Gigabit Ethernet MMF/UTP Adapter Release Notesadapter documentation at this web site:

http://www.sun.com/products-n-solutions/hardware/docs/Network_Connectivity

Known Issues With the `ipge` Driver

TABLE 1 lists describes the known issues with the `ipge` driver at the time of this release.

TABLE 1   Known Issues

BugID	Synopsis
6337912	`ipge` jumbo-frame enabled stress test can cause server to hang.
6233824	`ipge` driver external loopback test (`netlbtest`) does not work.
6332746	VLAN is not supported currently with hardware checksumming.
6331252	Back to back connections are not currently supported. The adapters must be connected to a switch for reliable operation.

Updating Patches

BugID 6337912 and BugID 6332746 can corrected by installing Patch ID 120849-02.

Note – The number following the dash increases each time the patch is improved. At the time this document is being written, the dash is -02. The number may be higher when you download the patch.

Patches are available at the following web site:

`http://sunsolve.sun.com`

If the patch is not available on SunSolve, contact your local sales or service representative.

▼ To Install the Patch

1. Download the patch to your system.

2. Install the patch.

TABLE 0-1

```
# patchadd 120849-02
```

3. Reboot the system.

TABLE 0-2

```
# boot -r
```

Known Issues With Linux

Red Hat Linux 7.1—Creating an RPM from a tar / zipped File

When trying to generate an RPM from the `.tar.gz` file, a segmentation fault (core dump) occurs. This failure occurs because Red Hat Linux 7.1 uses version 4.0.2 of the RPM utility. This version does not have the ability to handle parameterized macros, which are used within the e100 and e1000 spec files to generate an RPM. Updating the RPM utility to a more current version resolves the issue. The utility can be obtained from `http://www.rpm.org`.

ACPI enable may cause Sun PCI-Express Dual Gigabit Ethernet MMF/UTP Adapter Release Notesadapters to fail

If ACPI is turned on in the kernel, dual port adapters may not work. This is due to a limitation in ACPI. Currently, this affects all new versions of SuSE.

Linux SNMP: Set operation fails on Red Hat Enterprise Linux 3

Running the set operation using Red Hat Enterprise Linux 3 fails when using the `net-snmp-5.0.8` package. This issue has been fixed in `net-snmp-5.0.9` package.

Red Hat Enterprise Linux 2.1 Distribution

If there are errors while compiling the driver, do the following:

1. Change to the kernel source directory.

2. **Perform all the required steps to build the kernel up to and including make dep.**

3. **Modify EXTRAVERSION in the Makefile in Red Hat kernel source directory to match the version of the running kernel.**

4. **Build the driver, using instructions located in the README file.**

While building the driver, ignore the warning:

TABLE 0-3

```
/lib/modules/2.4.9-e.34/build/include/linux/rhconfig.h:31:60:
operator '(' has no left operand
```

Note – For Red Hat's procedure for building a Linux kernel visit their web site at www.redhat.com.

Note – This problem is resolved in Red Hat Enterprise Linux 2.1 Update 4.

Loading and unloading modules with the Linux 2.6 Kernel

A new kernel API has been implemented within the Linux 2.6 kernel regarding the module reference count. This results in the e100, e1000 and ixgb drivers being used with a module reference count of zero. Consequently, our driver module can be removed from the system while still being used by other modules. Until the other modules within the Linux stack use the new API, unintended consequences may occur with module removal. This may result in system hangs and/or panics.