

GigEther-01 (igelan) Gigabit Ethernet Driver for HP-UX 11i v3 of September 2008

Release Notes

GigEther-01 Software Version B.11.31.0809



Legal Notices

© Copyright 2008 Hewlett-Packard Development Company, L.P.

Confidential computer software. Valid license from HP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing here should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Table of Contents

1 GigEther-01 (igelan) Gigabit Ethernet Driver for HP-UX 11i v3 of September 2008 Release Notes.....	5
What Is In this Version.....	5
Related Document.....	6

1 GigEther-01 (igelan) Gigabit Ethernet Driver for HP-UX 11i v3 of September 2008 Release Notes

This document discusses the most recent product information pertaining to GigEther-01 (igelan) Gigabit Ethernet Driver for HP-UX 11i v3 of September 2008 release.

This document addresses the following topics:

- “What Is In this Version” (page 5)
- “Related Document” (page 6)

What Is In this Version

The following information describes the updates to the HP-UX-based Gigabit Ethernet driver called *igelan*. The *GigEther-01* software bundle, which is loaded into the operating environment (OE), contains the *igelan* driver.

The September 2008 version of the HP-UX 11i v3 *GigEther-01* driver contains the following fixes:

QXCR1000771976 Support for 1000FD speed on IGELAN
A new configuration option `1000Fd` is introduced in the *nwmgr(1M)* and *lanadmin(1M)* commands to support this feature.



NOTE: This feature is available only in *igelan* and *iether* drivers, and not in the *gelan* driver.

QXCR1000771966 Support for accelerated virtual I/O (AVIO) to significantly improve HPVM I/O performance.

The new HPVM AVIO devices provide significant performance improvement (up to 60% decrease in Service Demand and up to 2X increase in throughput) over the existing (fully emulated) Virtual I/O (VIO) devices.

The Accelerated Virtual I/O (AVIO) solution is composed of the following four new products: *GuestAvioLan*, *HostAvioLan*, *GuestAvioStor*, and *HostAvioStor*.

The AVIO lan driver supports the following Ethernet drivers: *ixgbe* (10GbE), *igelan* (1GbE), and *iether* (1GbE).

The configuration process for the new AVIO devices is the same as the existing VIO devices. The only difference is the device names used in the *hpvmcreate* or *hpvmmodify* commands. The AVIO device names are *aviolan* (or *avio_lan*) and *aviostor* (or *avio_stor*).

QXCR1000772048 Fix provided for the NIC LED issue on BL860C and BL870C.

QXCR1000587489 The *nwmgr_igelan* manpage specifies `pktsize` default values as 100 bytes. The man page has been updated to reflect the correct value of current MTU - 3 bytes.

QXCR1000584138 Gigabit (*igelan*) card hangs.

Fix has been provided where cards supported by the *igelan* driver on HP-UX 11i v3 could occasionally hang. It required resetting the card with *lanadmin*. Cards affected were Gigabit Ethernet cards such as A6825A, A6847A, and core I/O card A6947A.

The problem could be verified with:

- Telnet/ping/linkloop to another system using this igelan interface does not work.
- Telnet/ping/linkloop in loopback using the igelan interface works fine.
- This problem occurs regardless of card settings.
- If a card hangs and you reset the card with lanadmin, everything works fine.
- Nothing is logged in dmesg/syslog/nettl.
- The lanadmin -g ppa command displays higher value for Outbound Queue Length counter.

Related Document

For some known command differences when igelan is used on the HP BL860c or BL870c Server Blades, see *HP-UX 11i v2 Network Command Differences when used with HP BL860c/BL870c Server Blades*.

For complete information on what is new or changed in GigEther-01 (igelan) for the HP-UX 11i v3 operating system, see the "I/O Subsystem" subsection of the *HP-UX 11i Version 3 Release Notes* at <http://www.docs.hp.com>.