

IEther-00 (iether) B.11.31.1109 Ethernet Driver Release Notes HP-UX 11i v3

Abstract

This document provides information about the September 2011 release of the IEther-00 bundle for HP-UX 11i v3.



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1 IEther-00 overview

The IEther-00 bundle contains the `iether` version B.11.31.1109 driver, which supports the following Gigabit Ethernet cards and combination cards:

PCIe Ethernet Cards	PCIe Ethernet Mezzanine Cards	PCIe Combination Cards	PCI-X Ethernet Cards	PCI-X Combination Cards
AD337A, AD338A, AD339A	NC360m, NC364m	AD221A, AD222A, AD393A	A7011A, A7012A, AB545A, AD331A, AD332A	AB290A, AD193A, AD194A

2 New and changed features in this release

2.1 New features

The following feature is new with this version of IEther-00:

- **Support is added for MSI-X interrupts.**

AD221A, AD222A, AD393A and the core LAN card on the HP rx2800 server support MSI-X interrupts. With IEther-00 B.11.31.1109 and later, these cards use MSI-X interrupts instead of LBI (QXCR1001066061). This feature enables support for potential future products.

2.2 Changed features

The following feature is changed with this version of IEther-00:

- **The `nwmgr_iether(1m)` manpage is updated.**

The `nwmgr_iether(1m)` manpage now includes the newly-introduced `ifadmin` attribute. This attribute is introduced with patch PHNE_41971 for `nwmgr(1m)` (QXCR1001104156).

3 Problems fixed in this version

Table 1 HP-UX 11i v3 September 2011 fixes — IEther-00 B.11.31.1109

SR number	Description
QXCR1001116167	When the <code>iether</code> module is loaded and unloaded continuously, a card might be left in an unclaimed state with an error log message.
QXCR1001087501	When a guest VNIC is created over the <code>iether</code> interface, a synchronization issue between the host freeing used buffers and the guest shutting down causes the HPVM host to panic.

Problems fixed in recent versions

Table 2 HP-UX 11i v3 March 2011 fixes — IEther-00 B.11.31.1103

SR number	Description
QXCR1001043759	When heavy traffic is run on a NIC with the Intel 82546 chipset with TSO enabled, an MCA occurs. The problem is due to known errata with NICs with this chipset. This problem occurs with IEther-00 version B.11.31.0909. Affected products are AB352A, AB290A, AB545A, A7011A, A7012A.
QXCR1001086659	When traffic is run on a NIC with the Intel 82575 chipset with TSO enabled, a system panic occurs with " <code>iether_post_tdesc_tso</code> " function on top of the stack trace. This problem occurs with IEther-00 version B.11.31.1003. Affected products are AD221A, AD222A, AD393A.
QXCR1001062966	Typo error in the <code>nwmgr --st subsys -c <lanppa></code> output .

Table 2 HP-UX 11i v3 March 2011 fixes — IEther-00 B.11.31.1103 (continued)

SR number	Description
QXCR1001063280	The command <code>nwmgr -s -A all --sa --fr current -c lan<ppa></code> on a PCIe interface controlled by the <code>iether</code> driver fails with the following error message: <code>New 512byte transmit buffer size limit = ERROR: Unsupported attribute.</code>
QXCR1001062969	Typo error in the <code>nwmgr_iether(1M)</code> man page.
QXCR1001075909	When a guest vNIC is created over the <code>iether</code> interface, the <code>iether</code> driver holds lock too long during AVIO packet processing. This causes an HPVM host panic.
QXCR1001075915	When a guest vNIC is created over the <code>iether</code> interface, the <code>iether</code> driver receives packets from AVIO guest and handles reset request from the AVIO guest simultaneously. Due to a problem in the locking mechanism, interface pointers can be reset to null, which causes an HPVM host panic.
QXCR1001082383	When a guest vNIC is created over the <code>iether</code> interface, HPVM guests with AVIO networking receive duplicate multicast and broadcast packets from host.

4 Known problems and limitations

No known problems were identified for this version of IEther-00 at the time of this publication.

5 Compatibility and installation requirements

This section describes the compatibility information and installation requirements for this release.

- For specific installation instructions, see the installation procedure or overview document for your card.
- For detailed information on supported server platforms, operating systems, and firmware level requirements, see the *Ethernet Support Matrix*.

These documents are available at:

<http://www.hp.com/go/gigabit-ethernet-100bt-cards-docs>

5.1 Operating system and version compatibility

This release is specific for HP-UX 11i v3 (B.11.31).

5.2 Hardware requirements

This version of IEther-00 runs on HP Integrity and HP 9000 servers with the HP-UX 11i v3 (B.11.31) operating system.

6 Related information

The latest documentation for Ethernet cards is available in English at:

<http://www.hp.com/go/gigabit-ethernet-100bt-cards-docs>

Documents are organized as follows:

- Installation guides are listed alphabetically in the “Setup and install — general” section.
- Release notes are listed alphabetically in the “Getting started” section.
- Support guides are listed alphabetically in the “User guide” section.
- Support Matrix documents are listed alphabetically in the “General reference” section.

7 Software availability in native languages

The IEther-00 product is available only in the English language.