

**IEther-00 (iether)
Gigabit Ethernet Driver
for HP-UX 11i v2 and 11i v3
of December 2007
Release Notes**

IEther-00 Software Version B.11.23.0712 and B.11.31.0712

Printed in U.S.A.



i n v e n t

Legal Notices

The information in this document is subject to change without notice.

Hewlett-Packard makes no warranty of any kind with regard to this manual, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Hewlett-Packard shall not be held liable for errors contained herein or direct, indirect, special, incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Warranty

A copy of the specific warranty terms applicable to your Hewlett-Packard product and replacement parts can be obtained from your local Sales and Service Office.

Restricted Rights Legend

Use, duplication or disclosure by the U.S. Government is subject to restrictions as set forth in subparagraph (c) (1) (ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 for DOD agencies, and subparagraphs (c) (1) and (c) (2) of the Commercial Computer Software Restricted Rights clause at FAR 52.227-19 for other agencies.

HEWLETT-PACKARD DEVELOPMENT COMPANY L.P.
20555 S.H. 249
Houston, Texas 77070

Use of this document and any supporting software media supplied for this pack is restricted to this product only. Additional copies of the programs may be made for security and back-up purposes only. Resale of the programs, in their present form or with alterations, is expressly prohibited.

Copyright Notice

Copyright © 1997-2008 Hewlett-Packard Development Company L.P.
Reproduction, adaptation, or translation of this document without prior written permission is prohibited, except as allowed under the copyright laws.

IEther-00 (iether) Gigabit Ethernet Driver for HP-UX 11i v2 and 11i v3 of December 2007 Release Notes

What's in this Version

The following information describes the updates made to the HP-UX-based Gigabit Ethernet driver called **iether**. The **IEther-00** software bundle, which is loaded into the OE, contains the **iether** driver.

The December 2007 version of the HP-UX 11i v2 **IEther-00** driver has been modified to include the following *enhancements*:

- supports HP-UX 11i v2 based accelerated virtual I/O (AVIO) to significantly improve HPVM I/O performance on HP Integrity Servers.

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 HPVM 3.5 release will support 2 new Accelerated Virtual I/O device drivers (that is, storage and lan) that significantly improve HPVM I/O performance. The HPVM 3.5 product will be shipped via HP Independent Media and will not be included with the 0712 Fusion Release.

The Accelerated Virtual I/O (AVIO) solution is composed of 4 new products: GuestAvioLan, HostAvioLan, GuestAvioStor, and HostAvioStor. The initial version for these products will all be B.11.23.0712 and as stated above will be supported with the HPVM release 3.5.

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

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

- supports HP-UX 11i v2 based NC364m 4-port PCIe Mezzanine Card (order #447883-B21) on HP BL860c and BL870c server blades.

The December 2007 version of the HP-UX 11i v2 **IEther-00** driver contains the following *fixes*:

- JAGag34932 - fixed HP-UX 11i v2 based **iether** to eliminate A7011A card hangs during particular high traffic bus conditions.
- JAGag31955 - fixed all versions of HP-UX to correct an unsuitable description in the **/etc/rc.config.d/hpietherconf**. As a result, HP discourages changing the default values of the following **iether** tunables in any version of HP-UX:

- - send_max_bufs
- - recv_max_bufs
- - send_coal_ticks
- - recv_coal_ticks

HP does not support the option of changing these tunables for **iether** based PCI-Express cards.

