
Ethernet System-Driver Matrix for HP-UX 11i v1, 11i v2, and 11i v3

Edition 20: July 2008

The drivers for the products shown in this document are distributed on HP-UX server Release Media and are installed along with an Operating Environment. However, some of the products and drivers listed may be *newer* than your system's Operating Environment.

Why use the System-Driver Matrix and the Driver Reference Table? You will find Table 1 useful if you are:

- *adding* a networking or I/O card to a system *and*
- that networking or I/O card is *newer* than your system's Operating Environment.

If you have a system that has HP-UX 11i v1, 11i v2 of September 2004 or later, or 11i v3, *and* your networking or I/O product was either factory installed or was shipped before your system's Operating Environment was released, *you can ignore Table 1.*

1. Use Table 1 if you want to verify that your card's driver is included with the Operating Environment or to check which driver you need when adding networking or I/O cards. You should be able to download any driver you need from a link off of <http://hp.com>; at the time of this writing, the link is called "Support & Drivers" (<http://welcome.hp.com/country/us/en/support.html>).
2. After you have used Table 1 to view the correct product configuration, check the driver release history on <http://docs.hp.com>, under I/O Cards and Networking Software, to see if any specific patches are required. . You can download needed patches by going to the online HP IT Resource Center at: <http://www2.itrc.hp.com/service/index.do?admit=-1335382922+1145478778332+28353475>. Select "patch database," and search for the needed patch number. If not already registered, you can register for free on the ITRC home page.
3. Use Subscriber's Choice for Latest Firmware Updates. HP recommends that you sign-up for Subscriber's Choice so you can automatically receive email notices for the latest firmware updates. Make sure you register all your products to receive the appropriate firmware update notices.

To get HP Integrity system firmware, go to the Business Support Center Web site at <http://www.hp.com/go/bizsupport> for the latest HP-UX 11i firmware updates.

The system firmware files, installation instructions, and release notes with detailed firmware version information can be obtained by selecting "Download Drivers and Software" <http://www.hp.com/bizsupport>. This provides a searchable database for various products or you can follow the "Server" link to select the latest FW download for your specific server product. Be sure to read the Release Notes for the firmware to ensure a successful update. In general, HP recommends that you update to the latest firmware available before installing or updating to HP-UX 11i v3.

For a matrix of system firmware for I/O adapters with HP-UX 11i v3 boot support, as well as the minimum system firmware requirements for HP-UX 11i v3, refer to the documents at <http://docs.hp.com/en/hw.html#System%20Firmware>

Please refer to <http://docs.hp.com> under I/O Cards and Networking Software for other matrixes on:

- I/O cards such as RAID, SCSI, and Fibre Channel. The other matrixes also tell the system and card firmware levels required for such cards as the AD193A/AD194A (combo FC and GigE) and AB290A (combo 2 U320 SCSI and 2 GigE).
- The single- and combination-technology cards that support LAN Boot. LAN Boot enables systems to load an HP-UX install kernel across a network. Products like HP-UX vPARs use it. For further information see the LAN Boot Overview and LAN Boot bootp Server Setup documents at: <http://docs.hp.com/en/netcom.html#Internet%20Transport>. In this matrix, the designation “Bootable” means the Ethernet port or ports of a card support LAN Boot.

Please provide any feedback on this document to: <http://docs.hp.com/en/feedback.html>

Table 1 HP-UX Ethernet Card System-Driver Matrix

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|--|---|--|--|
| LAN cards (10 Gigabit Ethernet, Gigabit Ethernet, Fast Ethernet, Combination cards) | | | | |
| 10 Gigabit Ethernet | | | | |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|---|--|---|--|
| AD385A ^e PCI-X 266 MHz 10 GbE SR Fiber (on Itanium) | Itanium-based cx2600 rx1600 rx1620 rx2600 rx2620 rx2660 ^f - X rx2660 ^f - Xe rx3600 ^g - X rx3600 ^g - Xe rx4640 - X rx4640 - Xe rx6600 ^g - X rx6600 ^g - Xe rx7620 rx7640 ^g - X rx7640 ^g - Xe rx8620 rx8640 - X rx8640 IOX - X rx8640 - Xe rx8640 IOX - Xe HP Integrity Superdome (Itanium 2 or sx2000 -X) 16-way, 32-way, 64-way HP Integrity Superdome (sx2000 -Xe) 16-way, 32-way, 64-way | 1 Bootable 1 Bootable 1 Bootable 1 Bootable 1 Bootable 1 Bootable ^f 1 Bootable ^f 2 Bootable ^g 2 Bootable ^g 2 Bootable 2 Bootable 2 Bootable ^g 2 Bootable ^g 4 Bootable 8 Bootable ^g 6 Bootable ^g 4 Bootable 8 Bootable 8 Bootable 6 Bootable 6 Bootable 16 64 192; all Bootable 24 48 96 all Bootable | 11i v3, 11i v2 (of Sept 2004 or later) - ixgbe | 10GigEther-00 |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|---|---|---|--|
| AD385A ^e PCI-X 133 MHz 10 GbE SR Fiber (on PA-RISC) | rp3410 rp3440 rp4410 ^g rp4440 ^g rp7420 ^g rp7440 ^g rp8420 rp8420 I/O Expansion unit (IOX); rp8440 rp8440 IOX; HP 9000 Superdome (PA8800/8900) 16-way, 32-way, 64-way HP 9000 Superdome with sx2000 chipset 16-way, 32-way, 64-way | 1 1 2 ^g 2 ^g 2 ^g 8 ^g 4 4 8 8 4 4 4 4 16 32 64; all Bootable | 11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11 of September 2005 or later) - ixgbe | 10GigEthr-00 |
| AD386A PCIe 10 GbE SR Fiber (on Itanium) | Itanium-based rx2660 rx3600 rx6600 rx7640 rx8640 rx8640 with IOX HP Integrity Superdome (sx2000) 16-way, 32-way, 64-way | 2 2 2 8 8 16 24 48 96 all Bootable | 11i v3, 11i v2 OE - icxgbe (web release driver of April 2008) | 10GigEthr-01 |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|---|---|--|--|
| AB287A ^h PCI-X 133 MHz 10 GbE SR Fiber (on Itanium) | Itanium-based rx1600 rx1620 ⁱ rx2600 rx2620 ⁱ rx2660 ^j rx3600 ^j rx6600 ^j rx7620 rx7640 rx8620 rx8620 IOX rx8640 rx8640 IOX HP Integrity Superdome (sx1000 chipset) 16-way, 32-way, 64-way, and 128-way; HP Integrity Superdome (sx2000) | 1 Bootable 1 Bootable ⁱ 1 Bootable 1 Bootable ⁱ 3 Bootable ^j 4 Bootable ^j 4 Bootable ^j 2 Bootable 4 Bootable 2 Bootable 2 Bootable 4 Bootable 4 Bootable 2 in each I/O chassis; all Bootable 4 in each I/O chassis; all Bootable | 11i v3, 11i v2 (of Sept 2004 or later) - ixgbe | 10GigEther-00 |
| AB287A ^k PCI-X 133 MHz 10 GbE SR Fiber (on PA-RISC) | rp3410 rp3440 rp7420 rp7440 rp8420 rp8420 I/O Expansion unit (IOX); rp8440 rp8440 IOX; HP 9000 Superdome (PA8800/8900) 16-way, 32-way, 64-way, and 128-way; HP 9000 Superdome with sx2000 chipset | 1 1 2 8 2 2 8 8 2 in each I/O chassis; 4 in each I/O chassis | 11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11 of September 2005 or later) - ixgbe | 10GigEther-00 |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|--|---|---|--|
| Gigabit Ethernet | | | | |
| AB545A ¹ 4-Port PCI-X 1000Base-T (copper) (on PA-RISC) | rp3410; rp3440; rp4410; rp4440; rp7420; rp7440; rp8420; rp8420 IOX; rp8440; rp8440 IOX; HP 9000 Superdome ^m | 2 Bootable 4 Bootable 6 Bootable 6 Bootable 15 Bootable 15 Bootable 16 Bootable 16 Bootable 16 Bootable 16 Bootable 16 (16-way) 32 (32-way) 64 (64-way) all bootable | 11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11 of December 2004 or later) - iether | IEther-00 |
| AB545A 4-Port PCI-X 1000Base-T (copper) (on Itanium) | Itanium-based rx1600; rx1620; rx2600 ⁿ ; rx2620 ⁿ ; rx2660 ^o ; rx3600 ^o ; rx4640 ⁿ rx6600 ^o rx7620 rx7640 rx8620 rx8620 IOX rx8640 HP Integrity Superdome (sx1000) HP Integrity Superdome (sx2000) | 1 Bootable 1 Bootable 4 Bootable ⁿ 4 Bootable ⁿ 3 Bootable ^o 8 Bootable ^o 6 Bootable ⁿ 8 Bootable ^o 15 Bootable 15 Bootable 16 Bootable 16 Bootable 16 Bootable 16 (16-way) 32 (32-way) 64 (64-way) all bootable 64 Bootable | 11i v3, 11i v2 (of Sept 2004 or later) - iether | IEther-00 |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|---|---|---|--|
| AD331A PCI-X 1000Base-T (copper) (on PA-RISC); AD332A PCI-X 1000Base-SX (fiber) (on PA-RISC) | rp3410; rp3440; rp4410; rp4440; rp7420; rp7440; rp8420; rp8440;; rp8440 IOX; HP 9000 Superdome (PA-8800, PA-8900) HP 9000 Superdome with sx2000 chipset | 2 Bootable 4 Bootable 8 Bootable 8 Bootable 15 Bootable 15 Bootable 16 Bootable 16 Bootable 16 Bootable 48 (16-way) 96 (32-way) 192 (64-way) all bootable 192 Bootable | 11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11) - iether | IEther-00 |
| AD331A PCI-X 1000Base-T (copper) (on Itanium); AD332A PCI-X 1000Base-SX (fiber) (on Itanium) | Itanium-based rx1620; cx2600; rx2620; rx2660 ^P ; rx3600 ^P ; rx4640 rx6600 ^P rx7620; rx7640 rx8620 rx8640 HP Integrity Superdome (sx1000) HP Integrity Superdome (sx2000) | 2 Bootable 4 Bootable 4 Bootable 3 Bootable ^P 8 Bootable ^P 8 Bootable 8 Bootable ^P 15 Bootable 15 Bootable 16 Bootable 16 Bootable 48 (16-way) 96 (32-way) 192 (64-way) all bootable 192 Bootable | 11i v3, 11i v2 (of Sept 2004 or later), - iether | IEther-00 |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|---|--|--|--|
| <p>AD337A PCIe 2-Port 1000Base-T (copper) (on Itanium);</p> <p>AD338A PCIe 2-Port 1000Base-SX (fiber) (on Itanium);</p> <p>AD339A PCIe 4-Port 1000Base-T (copper) (on Itanium)</p> | <p>Itanium-based rx2660 rx3600 rx6600</p> | <p>2 Bootable 4 Bootable 4 Bootable</p> | <p>11i v2 (of June 2007 or later), - iether</p> | <p>IEther-00</p> |
| <p>A7012A^q PCI-X 2-Port 1000Base-T (copper) (on PA-RISC);</p> <p>A7011A PCI-X 2-Port 1000Base-SX (fiber) (on PA-RISC)</p> | <p>rp3410^r rp3440 rp4410 rp4440 rp7410 rp7420 rp7440 rp8400 rp8420 rp8440 rp84xx IOX HP 9000 Superdome</p> | <p>2 Bootable^f 4 Bootable 6 Bootable 6 Bootable 15 15 Bootable 15 Bootable 16 Bootable 16 Bootable 16 Bootable 16 Bootable 16 (16-way) 32 (32-way) 64 (64-way) all bootable</p> | <p>11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11) - iether</p> | <p>IEther-00</p> |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|--|---|--|--|--|
| A7012A PCI-X 2-Port 1000Base-T (copper) (on Itanium) ^s ; A7011A PCI-X 2-Port 1000Base-SX (fiber) (on Itanium) | Itanium-based rx1600 rx1620 rx2600 ⁿ rx2620 ⁿ rx2660 ^o ; rx3600 ^o rx4640 ⁿ rx56xx ⁿ rx6600 ^o rx7620 rx7640 rx8620 rx8620 IOX rx8640 HP Integrity Superdome (sx1000) HP Integrity Superdome (sx2000) | 2 Bootable 2 Bootable 4 Bootable ⁿ 4 Bootable ⁿ 3 Bootable ^o 8 Bootable ^o 6 Bootable ⁿ 6 Bootable ⁿ 8 Bootable ^o 15 Bootable 15 Bootable 15 Bootable 16 Bootable 16 Bootable 16 (16-way) Bootable 32 (32-way) Bootable 64 (64-way) Bootable 64 Bootable | 11i v3, 11i v2 (of Sept 2004 or later) - iether | IEther-00 |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|--|---|---|--|--|
| <p>A6825A PCI 1000Base-T (copper) (on PA-RISC);</p> <p>A6847A PCI 1000Base-SX (fiber) (on PA-RISC)</p> | <p>rp2400 and rp2430 (formerly A400); rp2450 and rp2470 (formerly A500); rp3410; rp3440; rp4410; rp4440; rp5400 (formerly L1000); rp5430 (formerly L1500); rp5450 (formerly L2000); rp5470 (formerly L3000); rp7400 (formerly N4000); rp7410; rp7420; rp7440; rp8400; rp8420; rp8420 IOX; rp8440; HP 9000 Superdome</p> | <p>4</p> <p>4</p> <p>2 Bootable</p> <p>4 Bootable</p> <p>6 Bootable</p> <p>6 Bootable</p> <p>6 A6825=bootable</p> <p>10</p> <p>10</p> <p>10</p> <p>12</p> <p>15</p> <p>15 Bootable</p> <p>15 Bootable</p> <p>16 Bootable</p> <p>16 Bootable</p> <p>16 Bootable</p> <p>16 Bootable</p> <p>16 Bootable</p> <p>16 (16-way)</p> <p>32 (32-way)</p> <p>64 (64-way)</p> <p>all bootable</p> | <p>11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11) - igelan</p> | <p>GigEther-01</p> |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|--|--|---|--|
| A6825A PCI 1000Base-T (copper) (on Itanium); A6847A PCI 1000Base-SX (fiber) (on Itanium) | Itanium-based rx1600; rx1620; cx2600; rx2600; rx2620; rx2660 ^o ; rx3600 ^o ; rx4640; rx5670 ^t ; rx6600 ^o rx7620; rx7640 rx8620 rx8620 IOX rx8640 zx6000; HP Integrity Superdome (sx1000) HP Integrity Superdome (sx2000) | 2 2 4 4 4 3 ^o 8 ^o 6 Bootable 9 Bootable ^t 8 ^o 15 Bootable 15 Bootable 16 Bootable 16 Bootable 16 Bootable 4 16 (16-way) 32 (32-way) 64 (64-way) all bootable 64 Bootable | 11i v3, 11i v2 (of Sept 2004 or later), 11i v1.6 (11.22) - igelan | GigEther-01 |
| | zx2000; Base-T i870 | 3 8 | 11i v2 (of Sept 2004 or later) - iether | IEther-00 |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|---|--|--|--|
| A4929A ^u PCI 1000Base-T (copper) (on PA-RISC) | rp2400 and rp2430 (formerly A400); rp2450 and rp2470 (formerly A500); rp5400 (formerly L1000); rp5450 (formerly L2000), rp5470 (formerly L3000); rp7400 (formerly N4000); rp7410 rp7420 rp7440 rp8400 rp8420 rp8420 IOX rp8440 HP 9000 Superdome | 2 4 5 10 10 12 15 15 15 16 16 16 16 16 16 (16-way) 32 (32-way) 64 (64-way) | 11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11) - gelan | GigEther-00 |
| A4929A (on Itanium) | Itanium-based rx4610 rx4640 rx56xx rx7620 rx7640 rx8640 | 10 10 10 15 15 16 | 11i v3, 11i v2 (of Sept 2004 or later), - gelan | GigEther-00 |
| | Itanium-based HP Integrity Superdome | 16 (16-way) 32 (32-way) 64 (64-way) | 11i v2 (of Sept 2004 or later) - gelan | GigEther-00 |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|--|---|--|--|--|
| A4926A ^u PCI 1000Base-SX (fiber) (on PA-RISC) | rp2400 and rp2430 (formerly A400); rp2450 and rp2470 (formerly A500); rp5400 (formerly L1000); rp5450 (formerly L2000); rp5470 (formerly L3000); rp7400 (formerly N4000); rp7410 rp7420 rp7440 rp8400 rp8420 rp8420 IOX rp8440 HP 9000 Superdome | 2 4 5 10 10 12 15 15 15 16 16 16 16 16 (16-way) 32 (32-way) 64 (64-way) | 11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11) - gelan | GigEther-00 |
| A4926A PCI 1000Base-SX (fiber) (on Itanium) | Itanium-based rx4610 rx4640 rx56xx rx7620 rx7640 rx8620 rx8620 IOX rx8640 | 10 10 10 15 15 16 16 16 | 11i v3, 11i v2 (of Sept 2004 or later) - gelan | GigEther-00 |
| | Itanium-based HP Integrity Superdome | 16 (16-way) 32 (32-way) 64 (64-way) | 11i v2 (of Sept 2004 or later) - gelan | GigEther-00 |
| AB352-60001/60003 PCI-X 2-Port 1000Base-T Core I/O (copper) (on Itanium) | Itanium-based rx4640-8 core and PA-RISC-based rp4440 | 1 | 11i v2 (of Sept 2004 or later) - iether | not applicable - driver in core OE |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|---|---|---|--|
| A7109A PCI 1000Base-T/SCSI Core I/O (copper) (on PA-RISC) | rp8420 core, rp8420 IOX core | 1 1 | 11i v2 (of Sept 2004 or later), 11i v1 (11.11) - igelan | not applicable - driver in core OE |
| A7109A PCI 1000Base-T/SCSI Core I/O (copper) (on Itanium) | Itanium-based rx8620 core, rx8620 IOX core | 1 1 | 11i v2 (of Sept 2004 or later) - igelan | not applicable - driver in core OE |
| A6096A PCI 1000Base-T/SCSI Core I/O (copper) (on PA-RISC) | rp8400 core | 1 | 11i v2 (of Sept 2004 or later), 11i v1 (11.11) - igelan | GigEther-00 |
| NC364m Quad Port 1GbE BL-c x4 PCIe Mezzanine Card for Blades (order #447883-B21) (on Itanium) | Itanium-based BL860c, BL870c | 3 3 | 11i v3, 11i v2 (of Sept 2004 or later) - iether | IEther-00 |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|--|---|--|--|
| Fast Ethernet | | | | |
| A5230A ^u PCI 10/100Base-TX (copper) (on PA-RISC) | rp2400/rp2430 (formerly A400); rp2450/rp2470 (formerly A500); rp3410; rp3440; rp4410; rp4440; rp5400 (formerly L1000); rp5430 (formerly L1500); rp5450 (formerly L2000); rp5470 (formerly L3000); rp7400 (formerly N4000); rp7410; rp7420; rp7440; rp8400; rp8420; rp8420 IOX rp8440; HP 9000 Superdome | 2 4 2 4 6 6 5 6 10 10 12 15 15 15 16 16 16 16 24 (16-way) 48 (32-way) 96 (64-way) | 11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11) - btlan | not applicable - driver in core OE |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|---|---|--|--|
| A5230A PCI 10/100Base-TX (copper) (on Itanium) | Itanium-based i870; rx1600; rx2600; rx2620; rx4640 rx56XX; rx7620; rx7640; rx8620; rx8620 IOX rx8640; zx2000 for 1-way workstations; zx6000 for 2-way workstations; HP Integrity Superdome (sx1000) HP Integrity Superdome (sx2000) | 8 2 4 4 6 10 15 15 16 16 16 4 4 24 48 96 96 | 11i v3, 11i v2 (of Sept 2004 or later) - btlan | not applicable - driver in core OE |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|--|--|---|--|--|
| A5506B ^{uvaa} PCI 4-port 10/100Base-TX (copper) (on PA-RISC) | rp2400 and rp2430 (formerly A400); | 1 | 11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11) - btlan | not applicable - driver in core OE |
| | rp2450/rp2470 (formerly A500); | 4 | | |
| | rp3410; | 2 | | |
| | rp3440; | 4 | | |
| | rp4410; | 6 | | |
| | rp4440; | 6 | | |
| | rp5400 (formerly L1000); | 7 | | |
| | rp5430 (formerly L1500); | 7 | | |
| | rp5450 (formerly L2000); | 10 | | |
| | rp5470 (formerly L3000); | 10 | | |
| | rp7400 (formerly N4000); | 12 | | |
| | rp7410; | 15 | | |
| | rp7420; | 15 | | |
| | rp7440; | 15 | | |
| | rp8400 | 16 | | |
| | rp8420 | 16 | | |
| | IOX (of rp84xx) | 16 | | |
| | rp8440 | 16 | | |
| | HP 9000 Superdome | 8 (16-way) | | |
| | | 16 (32-way) | | |
| | 32 (64-way) | | | |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|--|---|---|---|--|
| A5506B ^{vaa} PCI 4-port 10/100Base-TX (copper) (on Itanium) | Itanium-based HP Integrity rx1600; cx2400 rx2600 rx2620; rx4640 rx56XX 4-way server; rx7620; rx7640; rx8620; rx8620 IOX; rx8640; HP Integrity Superdome (sx1000) HP Integrity Superdome (sx2000) | 2 4 4 4 6 10 15 15 16 16 16 8 (16-way) 16 (32-way) 32 (64-way) 32 | 11i v3, 11i v2 (of Sept 2004 or later) - btlan | not applicable - driver in core OE |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|---|---|---|--|
| Combination cards | | | | |
| AB290A ^k PCI-X Combo 2-port U320 SCSI / 2-port 1000Base-T (copper) (on PA-RISC) | rp3410 ^w ; rp3440; rp4410; rp4440; rp7420; rp7440; rp7620; rp8420; rp8420 IOX; rp8440; rp8440 IOX; HP 9000 Superdome (PA-8800, PA-8900) HP 9000 Superdome with sx2000 chipset | 2 Bootable ^w 3 Bootable 6 Bootable 6 Bootable 15 Bootable 15 Bootable 16 Bootable including 1 core 16 Bootable 16 Bootable 16 Bootable 16 Bootable 47 (16-way) 95 (32-way) 191 (64-way) all bootable 192 Bootable | 11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11 of December 2004 or later) - iether | IEther-00 |
| AB290A PCI-X Combo 2-port U320 SCSI / 2-port 1000Base-T (copper) (on Itanium) | Itanium-based rx1600 ^w ; rx1620; rx2600; rx2620; rx2660 ^x ; rx3600 ^{xy} rx4640 rx6600 ^{xy} rx7620; rx7640; rx8620 rx8620 IOX rx8640 HP Integrity Superdome (sx1000) HP Integrity Superdome (sx2000) | 1 Bootable ^w 1 Bootable 3 Bootable 3 Bootable 3 Bootable ^x 8 Bootable ^x 6 Bootable 8 Bootable ^x 15 Bootable 16 Bootable including 1 core 16 Bootable 16 Bootable 16 Bootable 47 (16-way) 95 (32-way) 191 (64-way) all bootable 192 Bootable | 11i v3, 11i v2 (of Sept 2004 or later) - iether | IEther-00 |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|--|--|---|--|--|
| AB465A ^k PCI-X Combo 2-port 2GB Fibre Channel and 2-port 1000Base-T (copper) (on PA-RISC) | rp3410; rp3440; rp4410; rp4440; rp7420; rp7440; rp7620; rp8420; rp8420 IOX; rp8440; rp8440 IOX; HP 9000 Superdome (PA-8800, PA-8900) HP 9000 Superdome with sx2000 chipset | 2 4 6 6 Bootable ^w 15 Bootable 15 Bootable 15 Bootable including 1 core 16 Bootable 16 Bootable 16 Bootable 16 Bootable 48 (16-way) 96 (32-way) 192 (64-way) all bootable 192 Bootable | 11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11 of December 2004 or later) - igelan | GigEther-01 |
| AB465A PCI-X Combo 2-port 2GB Fibre Channel and 2-port 1000Base-T (copper) (on Itanium) | Itanium-based rx1600 ^w ; rx1620; rx2600; rx2620 rx2660 ^o ; rx3600 ^o rx4640 rx6600 ^o rx7620; rx7640; rx8620 rx8620 IOX rx8640 HP Integrity Superdome (sx1000) HP Integrity Superdome (sx2000) | 1 Bootable ^w 1 Bootable 4 Bootable 4 Bootable 3 Bootable ^o 8 Bootable ^o 6 Bootable 8 Bootable ^o 15 Bootable 15 Bootable 16 Bootable 16 Bootable 16 Bootable 48 (16-way) 96 (32-way) 192 (64-way) all bootable 192 Bootable | 11i v3, 11i v2 (of Sept 2004 or later) - igelan | GigEther-01 |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|--|--|---|--|
| AD193A PCI-X Combo 1-port 4GB FC and 1-port 1000Base-T (copper) (on PA-RISC); AD194A PCI-X Combo 2-port 4GB FC and 2-port 1000Base-T (copper) (on PA-RISC) | rp3410; rp3440; rp4410; rp4440; rp7420; rp7440; rp8420 IOX; rp8440; rp8440 IOX; HP 9000 Superdome (PA-8800, PA-8900) HP 9000 Superdome (sx2000) | 2 Bootable 4 Bootable 8 Bootable 8 Bootable 15 Bootable 15 Bootable 16 Bootable 16 Bootable 16 Bootable 48 (16-way) 96 (32-way) 192 (64-way) all bootable 192 Bootable | 11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11) - iether | IEther-00 |
| AD193A PCI-X Combo 1-port 4GB FC and 1-port 1000Base-T (copper) (on Itanium); AD194A PCI-X Combo 2-port 4GB FC and 2-port 1000Base-T (copper) (on Itanium) | Itanium-based rx1600; rx1620; rx2600; rx2620; rx2660 ^z ; rx3600 ^z ; rx4640 rx6600 ^z rx7620 rx7620-IOX; rx7640 rx8620 rx8620-IOX rx8640 rx8640-IOX HP Integrity Superdome (sx1000) HP Integrity Superdome (sx2000) | 2 Bootable 2 Bootable 4 Bootable 4 Bootable 3 Bootable ^z 8 Bootable ^z 8 Bootable 8 Bootable ^z 15 Bootable 15 Bootable 15 Bootable 16 Bootable 16 Bootable 16 Bootable 16 Bootable 48 (16-way) 96 (32-way) 192 (64-way) all bootable 192 Bootable | 11i v3, 11i v2 (of Sept 2004 or later) - iether | IEther-00 |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|---|--|--|--|
| <p>AD221A PCIe Combo 1-port 4GB FC and 1-port 1000Base-T (copper) (on Itanium);</p> <p>AD222A PCIe Combo 2-port 4GB FC and 2-port 1000Base-T (copper) (on Itanium);</p> <p>AD393A PCIe Combo 2-port 4GB FC and 2-port 1000Base-SX (fiber) (on Itanium)</p> | <p>Itanium-based</p> <p>rx2660 rx3600 rx6600 rx7640 rx8640 HP Integrity Superdome (sx2000)</p> | <p>2 Bootable 4 Bootable 4 Bootable 8 Bootable 8 Bootable</p> <p>24 (16-way) 48 (32-way) 96 (64-way) all bootable</p> | <p>11i v3 (of March 2008 or later) - iether</p> | <p>IEther-00</p> |
| <p>A9784A^{aa} PCI-X Combo 2GB Fibre Channel and 1000Base-T (copper) (on PA-RISC);</p> <p>A9782A PCI-X Combo 2GB Fibre Channel and 1000Base-SX (fiber) (on PA-RISC)</p> | <p>rp3410^w rp3440 rp4440 rp7410 rp7420 rp7440 rp8400 rp8420 rp8440 IOX (of rp84xx) HP 9000 Superdome (PA-8800, PA-8900)</p> <p>HP 9000 Superdome with sx2000 chipset</p> | <p>2 Bootable^w 4 Bootable 6 Bootable 12 Bootable 15 Bootable 15 Bootable 12 Bootable 16 Bootable 16 Bootable 16 Bootable 16 Bootable 48 (16-way) 96 (32-way) 192 (64-way) all bootable 192 Bootable</p> | <p>11i v3, 11i v2 (of Sept 2004 or later), 11i v1 (11.11) - igelan</p> | <p>GigEther-01</p> |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|--|---|--|--|--|
| <p>A9784A^{aa} PCI-X Combo 2GB Fibre Channel and 1000Base-T (copper) (on Itanium)</p> <p>A9782A PCI-X Combo 2GB Fibre Channel and 1000Base-SX (fiber) (on Itanium)</p> | <p>Itanium-based</p> <p>rx2620</p> <p>rx2660^o</p> <p>rx3600^o</p> <p>rx4640</p> <p>rx56xx</p> <p>rx6600^o</p> <p>rx7620</p> <p>rx7640</p> <p>rx8620</p> <p>rx8620 IOX</p> <p>rx8640</p> <p>rx8640 IOX</p> <p>HP Integrity Superdome (sx1000)</p> <p>HP Integrity Superdome (sx2000)</p> | <p>4</p> <p>3 Bootable^o</p> <p>8 Bootable^o</p> <p>6 Bootable</p> <p>10</p> <p>8 Bootable^o</p> <p>15 Bootable</p> <p>15 Bootable</p> <p>16 Bootable</p> <p>16 Bootable</p> <p>16 Bootable</p> <p>16 Bootable</p> <p>48 (16-way)</p> <p>96 (32-way)</p> <p>192 (64-way)</p> <p>all bootable</p> <p>192 Bootable</p> | <p>11i v3, 11i v2 (of Sept 2004 or later) - igelan</p> | <p>GigEther-01</p> |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|--|--|--|--|--|
| A5838A ^u PCI Combo Dual port 10/100Base-TX and Wide Ultra2 SCSI (copper) (on PA-RISC) | rp2400/rp2430 ^w (formerly A400); rp2450 and rp2470 (formerly A500); rp3410; rp3440 ^{ab} ; rp4410; rp4440; rp5400 (formerly L1000); rp5430 (formerly L1500); rp5450 (formerly L2000); rp5470 (formerly L3000); rp7400 (formerly N4000); rp7410; rp7420; rp8400; rp8420; rp8420 IOX; rp8620; HP 9000 Superdome | 1 Bootable ^w 1 Bootable 1 Bootable 3 Bootable ^{ab} 6 Bootable 6 Bootable 8 Bootable 8 Bootable 8 Bootable 8 Bootable 8 Bootable 12 Bootable 15 Bootable 15 Bootable 16 Bootable 16 Bootable 16 Bootable 16 Bootable 16 8 (16-way) 16 (32-way) 32 (64-way) all bootable | 11i v2 (of Sept 2004 or later), 11i v1 (11.11) - btlan | not applicable - driver in core OE |

Table 1 HP-UX Ethernet Card System-Driver Matrix (Continued)

| Card | Systems ^a that Support Card | Max Cards ^b Installable Per System | HP-UX Release ^c - Driver Name | Software Bundle Name ^d (to load in swinstall) |
|---|--|---|--|--|
| A5838A PCI Combo Dual port 10/100Base-TX and Wide Ultra2 SCSI (copper) (on Itanium) | Itanium-based rx1600 rx1620 rx2600 ^{ab} rx2620 ^{ab} rx4640 rx56xx rx7620 rx7640 rx8620 rx8620 IOX rx8640 HP Integrity Superdome (sx1000) HP Integrity Superdome (sx2000) | 1 1 3 ^{ab} 3 ^{ab} 6 10 15 15 16 16 16 8 (16-way) 16 (32-way) 32 (64-way) 32 | 11i v2 (of Sept 2004 or later) - btlan | not applicable - driver in core OE |
| A6794A PCI Combo 1000Base-T/SCSI (on PA-RISC) | HP server rp7410; the A6794A is the built-in, or “core” card on the rp7410; rp7420 | 2 2 | 11i v2 (of Sept 2004 or later) - igelan | not applicable - driver in core OE |
| A6794A PCI Combo 1000Base-T/SCSI (on Itanium) | Itanium-based ; the A6794A is the built-in, or “core” card on the rx56xx; rx7620 | 1 2 | 11i v2 (of Sept 2004 or later) - igelan | not applicable - driver in core OE |

a. When using the Support Matrix, please be aware that some HP servers were *renamed*. Here is the list showing the old and new names:

Old Name New Name

A400 rp2400 and rp2430
A500 rp2450 and rp2470
L1000 rp5400
L1500 rp5430
L2000 rp5450
L3000 rp5470
N4000 rp7400

b. The maximum number of cards column shows the maximum number of cards that can be installed in a certain system. When using HP Serviceguard, the maximum number of *active* Gigabit Ethernet cards is half the total maximum installable cards per system. The secondary cards are not used until there is a failover. For example, if a server running Serviceguard can have 16 Gigabit Ethernet cards installed, only 8 can be active.

- c. To see which operating system version is on your system, type: `uname -a`. For patches, go to the HP Information Technology Resource Center (ITRC) at:
<http://www2.itrc.hp.com/service/index.do?admit=-1335382922+1120257265996+28353475>
- d. For HP-UX 11i v1, HP-UX 11i v2 (of Sept 2004 or later), and HP-UX 11i v3 there is no bundle name if the network card is a built-in LAN card or was factory installed because the driver is in the operating environment (OE). If adding (installing) the card yourself, just get the latest application release (AR) DVD to get the driver.
- e. Each AB287A or AD385A card needs 512MBytes & 1 CPU.
- f. Only 1 card allowed and card must be in slot 3.
- g. Not supported in shared slots.
- h. Each AB287A 10 GigE card needs 512MByte memory and 1 CPU. Dual-core systems support 1 AB287A per core. Servers using the SX1000 chipset (rp7420/rp8420, rx7620/rx8620) support 2 AB287A cards per IO chassis. Servers using the SX2000 chipset (rx7640/rx8640) support 4 AB287A cards per IO chassis. An 8-socket system has a max of 2 cells and 1 IO bay (chassis). A 16-socket system has a max of 4 cells and 4 IO bays (chassis). A 32-socket system has a max of 8 cells, 4 internal IO chassis, and capacity to connect to 1 IOX which adds another 4 IO chassis. A 64-socket system has a max of 16 cells, 8 internal IO chassis, and capacity to connect to 2 IOXs which add another 8 IO chassis.

HP recommends putting the 10 Gigabit Ethernet AB287A card only into one of the highest-performing (or “**dual-rope**”) PCI-X 133 Mhz slots. To identify which slots are the highest performing slots in a particular system, please refer to the hardware users’ guide for each system or to the *I/O Slot Matrix - Entry Level Integrity Servers* at <http://docs.hp.com/en/hw.html#System%20Administration>. The AB287A is not supported in PCI slots.

If installed in shared slots, other card must also be a PCI-X card in PCI-X mode. If other card is PCI only card, then 10GigE card will not get claimed (error should be logged in dmesg).

The AB287A is not supported on platforms that have all PCI slots or platforms that have all single rope PCI-X slots.

- As of August 1, 2006 the 10 Gigabit Ethernet AB287A is no longer supported on the rx4640, rp4410, or rp4440.
- i. The AB287A 10 GigE card as well as 2 HP Smart Array RAID cards, the 337972-B21 and A9890A, support the following maximum use in the rx1620 and rx2620 servers. Stated maximums cannot be combined. For example, if a system with (6) I/O slots states a maximum of (2) AB287A cards, then the other (4) slots must be left unpopulated -- you can not install (2) AB287A cards plus any other cards at all.
 - rx1620 (two I/O slots) with a maximum quantity for any I/O config using Smart Array RAID Controller 337972-B21, 10 Gigabit Ethernet AB287A, or RAID A9890A cards: (1) 337972-B21, or (1) AB287A, or (1) A9890A plus (1) other I/O card with 15W [total] maximum.
 - rx2620 (four I/O slots) with a maximum quantity for any I/O config using 337972-B21, AB287A, or A9890A cards: (2) 337972-B21 plus (2) unpopulated slots, or (1) AB287A plus (3) unpopulated slots, or (3) A9890A plus (1) unpopulated slot.
 - j. The rx2660 with all PCI-X slots supports 3 AB287A cards. The rx2660 with combined PCIe slots supports 1 AB287A card. The rx3600 or rx6600 with all PCI-X slots supports 4 AB287A cards. The rx3600 or rx6600 with PCIe slots supports 2 AB287A cards.
 - k. The 10 Gigabit Ethernet AB287A and the AB290A and AB465A combination cards are not supported on rp7410, rp8400, or on the *initial release* HP 9000 Superdomes -- those that have PA8600, PA8700, or PA8700+ PA-RISC processors inside. The newer **HP 9000 Superdomes** have PA8800 or newer PA-RISC processors inside. The **HP Integrity Superdomes** have Itanium or Itanium2 processors inside.
 - l. The AB545A card DOES NOT SUPPORT PCI 33 MHz operation. Therefore, do not place this card in the shared slot of a system where the card in the neighboring shared slot is a 33 MHz only card! Please see the *AB545A PCI-X 4-Port Gigabit Ethernet Card Installation Guide* for the list of 33 MHz only cards.
 - m. The AB545A 4-Port card is supported in HP 9000 Superdomes in 3.3 volt slots; the supported HP 9000 Superdomes must have PA 8700+ based 875Mhz processors and 8800-based processors or higher. HP also recommends placing these cards only in the high-speed 133 Mhz I/O slots.

- n. When an rx2600, rx2620, rx4640, or rx5670 system has a total of 18 or more LAN ports (for example, when 4 or more AB545A cards are installed), the EFI shell commands “info all”, “info io”, “lanaddress” and EFI Boot Manager Advanced System Information menus “Display ALL” and “I/O information” are not supported. The A7011A/A7012A 2-port cards when used in combination with a quantity of 3 AB545A 4-port cards on rx4640 or rx5670 could also cause a system to exceed 17 LAN ports.
- o. The rx2660 with all PCI-X slots supports 3 AB545A cards, 3 A7011A/A7012A cards, 3 A9782A/A9784A cards, or 3 AB465A cards. The rx2660 with combined PCIe slots supports 1 AB545A card, 1 A7011A/A7012A card, 1 A9782A card, or 1 AB465A card. The rx3600 or rx6600 with all PCI-X slots supports 8 AB545A cards, 8 A7011A/A7012A cards, 8 A9782A/A9784A cards, or 8 AB465A cards. The rx3600 or rx6600 with PCIe slots supports 4 AB545A cards, 4 A7011A/A7012A cards, 4 A9782A/A9784A cards, or 4 AB465A cards.
- p. The rx2660 with all PCI-X slots supports 3 AD331A/AD332A cards. The rx2660 with combined PCIe slots supports 1 AD331A/AD332A card. The rx3600 or rx6600 with all PCI-X slots supports 8 AD331A/AD332A cards. The rx3600 or rx6600 with PCIe slots supports 4 AD331A/AD332A cards.
- q. The following systems do not support the A7012A/A7011A 2-port GigE cards: PA-RISC servers : All A/D/E/K/L/N/R/T/V-class servers; All PCI-based PA-RISC workstations. Itanium-based servers: rx4610, rx9610; Itanium-based workstations: i2000, Itanium2-based zx2000.
- r. LAN Boot is supported on these cards as of June 2005.
LAN Boot enables a system to load an HP-UX install kernel across a network. LAN Boot code residing in firmware establishes linkages that allow you to issue commands for booting up the HP-UX install kernel. This provides a foundation upon which you can then install the HP-UX Operating Environment (OE) and applications via the LAN cards. HP Integrity Servers that run HP-UX Virtual Partitions (vPars) use LAN Boot to load and run their install kernel. LAN Boot is supported on HP Integrity systems running HP-UX 11i v2 and on select HP 9000 systems running HP-UX 11i v1 or 11i v2.
For further information see the LAN Boot Overview and LAN Boot bootp Server Setup documents at: <http://docs.hp.com/en/netcom.html#Internet%20Transport>
- s. Itanium®, Itanium®2, and Itanium Processor Family® (IPF) are registered trademarks of Intel Corp. Itanium-based systems use HP-UX 11.22 (11i v 1.6) or later. They do not run HP-UX 11i v1 or earlier.
- t. On the rx56xx, the A6825A and A6847A cannot be put into slot 2.
- u. The following cards were discontinued March 1, 2003: A4926A and A4929A, A5230A, A5506B, and A5838A.
- v. The A5506A card is supported in all the same systems as the A5506B, however hardware support for the A5506A ended on November 30, 2006.
- w. In this matrix, the designation “Bootable” is only referring to the Ethernet port on the combination networking and I/O cards. “Bootable” means the Ethernet port or ports of a card support LAN Boot, which is pre-OS network boot (using IODC or EFI firmware) for the purpose of OS installation (using HP-UX Ignite or Remote Installation Service - RIS).

The I/O ports are likely bootable from as well (though from a storage device), but the characteristics of the I/O ports are shown in the separate support matrixes for SCSI and Fibre Channel.

- x. The rx2660 with all PCI-X slots supports 3 AB290A cards. The rx2660 with combined PCIe slots supports 1 AB290A card. The rx3600 or rx6600 with all PCI-X slots supports 6 AB290A cards. The rx3600 or rx6600 with PCIe slots supports 2 AB290A cards.
- y. The AB290A card is not supported when with an AB551A graphics card on a shared rope on rx3600 or rx6600 servers. See server hardware manual for slots affected.
- z. The rx2660 with all PCI-X slots supports 3 AD193A/AD194A cards. The rx2660 with combined PCIe slots supports 1 AD193A/AD194A card. The rx3600 or rx6600 with all PCI-X slots supports 8 AD193A/AD194A cards. The rx3600 or rx6600 with PCIe slots supports 4 AD193A/AD194A cards.
- aa. For best performance, do not put the A9782A, A9784A, A5838A, or A5506B in a slot shared with other cards.

ab. The number of these cards allowed may be less than the number of open slots because enough space has to be left for adjacent connectors.

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