

UNIX System Administration Handbook

Corrections to Printing 3

In the following updates, changed words are italicized. Sometimes, changes are just described rather than written literally.

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Page xxxiv

Paul Kooros, a significant contributor, was inadvertently omitted from the Acknowledgments section.

Page 20

Erich Boleyn's GRand Unified Bootloader (GRUB), now maintained as part of the GNU project, is gaining popularity as an alternative to LILO and the Windows boot loaders. It offers a variety of advanced features. See www.gnu.org/software/grub for more information.

Page 131

There is some confusion in this chapter between the Veritas Volume Manager and the Veritas File System, both of which are available for HP-UX. However, only the Veritas File System is bundled with HP-UX. The default logical volume manager that is included with HP-UX (and that is described in this chapter) is a proprietary volume manager called LVM.

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Page 172

Tape drive manufacturer OnStream has gone out of business. Its assets have been acquired by a Dutch group that plans to continue selling ADR drives under the OnStream brand name. Nevertheless, the future prospects for this product are extremely uncertain.

Page 205

Some GNU utilities (in particular, **zgrep**) can make it a lot more convenient to keep log files in a compressed format. It is also faster on some machines to read compressed data from the disk and decompress it on the fly; compressing old log files can be a double win.

Page 233

After copying the new kernel to **/boot**, you must also copy **/usr/src/linux/arch/i386/boot/System.map** to **/boot/System.map**.

Page 250

In the middle of the page, **devices/net/Space.c** should be **drivers/net/Space.c**

Page 255

The Linux loadable kernel module configuration file is **/etc/modules.conf**, not **/etc/conf.modules**.

Page 256

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Page 267

The full name of the IEEE 802.2 LLC is the "Logical Link Control Layer", not the "Link Layer Control" as stated in the footnote.

Page 270

The URL given for the IANA assigned Ethernet numbers table is obsolete. Use www.iana.org/assignments/ethernet-numbers.

Page 276

The CIDR address breakdown on this page is messed up. Please substitute the following text:

"For example, suppose a site has been given a block of 8 class C addresses numbered 192.144.0.0 through 192.144.7.0 (in CIDR notation, 192.144.0.0/21). Internally, the site could use them as

- 1 network of length /21, 2,046 hosts, netmask 255.255.248.0
 - 8 networks of length /24, 254 hosts each, netmask 255.255.255.0
 - 16 networks of length /25, 126 hosts each, netmask 255.255.255.128
 - 32 networks of length /26, 62 hosts each, netmask 255.255.255.192"
-

Page 277

The URL referred to in the footnote, www.telstra.net/ops/bgptable.html, no longer exists. Check www.telstra.net/ops/bgp/index.html for current information.

Page 279

The correct URL for the CAIDA IPv4 address space utilization map is <http://www.caida.org/outreach/resources/learn/ipv4space>

Page 307

In footnote a of Table 13.15, `/etc/inet/inodes` should be `/etc/inet/ipnodes`.

Page 317

The output of `netstat -nr` should show the gateway for the destination 127.0.0.1 as 127.0.0.1, not 127.0.0.

Page 326

In Table 13.21, `ip_echo_ignore_broadcasts` should be `icmp_echo_ignore_broadcasts`.

At the end of the first text paragraph, "The **defaults** subdirectory contains the default values as shipped," **defaults** should actually be **default**.

Page 331

The second excerpt on the page is missing a closing double quote on the last line. The last line should read:

```
route_212="-net 132.236.212.64 -netmask 255.255.255.192 132.236.212.6"
```

Page 388

Regarding the expandability of fiber installations, we received this interesting report from a person at the University of Utah: "The University of Utah was the first large installation of air-blown fiber technology in North America. The technology was developed by British researchers and then commercialized by Sumitomo of Japan. Instead of buried fiber cables, we have buried hoses about 5cm in diameter; four of these enter the

math.utah.edu machine room. Each hose contains 6 or 8 transparent tubes, each of which holds 6 or more cladded fiber cables, each of which can contain 6 to 18 fibers (depending on whether single-mode or multi-mode fibers are used). A new fiber cable can be blown in or out of the transparent tube at a speed up about 1m/s, over a distance of up to 5000m. The result is massive expandability without ever digging another trench, and we are supremely glad that we chose this excellent technology."

Page 518

When used with an rsync server, rsync requires a module name as the first component of the destination, not a path name. The example rsync command should read:

```
rsync -gopt --password-file=/etc/rsync.pwd
      /etc/passwd lollipop::sysfiles
```

Page 519

The example **rsynd.conf** file is missing some relevant options. The complete example should be:

```
[sysfiles]
path = /etc
secrets file = /etc/rsyncd.secrets
read only = false
uid = root
gid = root
hosts allow = distribution_master_hostname
```

The file shown as **rsynd.conf** is really called **rsyncd.conf**

Page 610

The feature referred to as `lmtip` is actually named `local_lmtip`:

```
FEATURE(`local_lmtip', `path-to-mail.local')
```

Page 633

The collision rate on interface `hme1` is 0.13%, not 1.3%.

Page 731

An example at the top of the page shows the **-p** option to the **lp** command being used to select a destination for the print job. This should actually be the **-d** option.

Page 746

We shouldn't have used the word "isolate" in the sentence "A ground strap worn on the wrist and attached to a special mat that you kneel on (most computers require you to show proper respect!) will isolate you properly." The purpose of a grounding strap is of course to *ground* you, which is the opposite of being electrically isolated.

Page 830

A final word on the origin of the name **comsat**, from Kirk McKusick: "...**comsat** and **biff** were written by Bill Joy one day when Heidi Stettner came in told him that her dog barked when the postman came, so why couldn't she get the same thing for email? **comsat** stands for 'communications satellite' (e.g., beaming down email?) and uses the same name as the ITS program with a similar function."