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bridge 0.9.1

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*
* based on iptables-restore
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```
/* nicstar.c v0.22 Jawaidd Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaidd Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb-
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb-
 * combined, allow nicstar_free_rx_skb to be called to
```

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```

*      recycle large data buffers
*      2) skb_clone of received buffers
*      See nicstar_free_rx_skb and linearize_buffer for implementation
*      details.
*
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*/

```

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Written 1996-1999 by Donald Becker.

The driver also contains updates by different kernel developers
(see incomplete list below).

Current maintainer is Andrey V. Savochkin <saw@saw.sw.com.sg>
Please use this email address and linux-kernel mailing list for bug reports.

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This driver is for the Intel EtherExpress Pro100 (Speedo3) design.
It should work with all i82557/558/559 boards.

Version history:

1998 Apr - 2000 Feb Andrey V. Savochkin <saw@saw.sw.com.sg>
Serious fixes for multicast filter list setting, TX timeout routine;
RX ring refilling logic; other stuff
2000 Feb Jeff Garzik <jgarzik@mandrakesoft.com>
Convert to new PCI driver interface
2000 Mar 24 Dragan Stancevic <visitor@valinux.com>
Disabled FC and ER, to avoid lockups when we get FCP interrupts.
2000 Jul 17 Goutham Rao <goutham.rao@intel.com>
PCI DMA API fixes, adding pci_dma_sync_single calls where necessary
2000 Aug 31 David Mosberger <davidm@hpl.hp.com>
rx_align support: enables rx DMA without causing unaligned accesses.
*/

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Version 2, June 1991

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That's all there is to it!

milli_httpd 1.21**Available Under License**

```

/* milli_httpd - pretty small HTTP server
** A combination of
** micro_httpd - really small HTTP server
** and
** mini_httpd - small HTTP server
**
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*/

```

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ntpcient 345.0

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ntpcient is an NTP (RFC-1305) client for unix-alike computers. Its functionality is a small subset of xntpd, but IMHO performs better (or at least has the potential to function better) within that limited scope. Since it is much smaller than xntpd, it is also more relevant for embedded computers.

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ntpcient home page: <http://doolittle.faludi.com/ntpcient/>

To build on Linux, type "make". Solaris and other Unix users will probably need to adjust the Makefile slightly. It's not complicated.

Usage: ntpclient [options]

options:

- c count stop after count time measurements (default 0 means go forever)
- d print diagnostics (feature can be disabled at compile time)
- h hostname (mandatory) NTP server host, against which to measure system time
- i interval check time every interval seconds (default 600)
- l attempt to lock local clock to server using adjtimex(2)
- p port local NTP client UDP port (default 0 means "any available")
- r replay analysis code based on stdin
- s simple clock set (implies -c 1)

Mortal users can use this program for monitoring, but not clock setting (with the -s or -l switches). The -l switch has not been well tested. Simulation (with -r) actually looks halfway decent, so locking should be OK too, but it needs some tuning.

The test.dat file has 200 lines of sample output. Its first few lines, with the output column headers that are shown when the -d option is chosen, are:

```

day second elapsed stall skew dispersion freq
51785 180.386 1398.0 40.3 953773.9 793.5 -1240000
51785 780.382 1358.0 41.3 954329.0 915.5 -1240000
51785 1380.381 1439.0 56.0 954871.3 915.5 -1240000

```

day, second: time of measurement

elapsed: total time from query to response (microseconds)

stall: time the server reports that it sat on the request (microseconds)

skew: difference between local time and server time (microseconds)

dispersion: reported by server, see RFC-1305 (microseconds)

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freq: local clock frequency adjustment (Linux only, ppm*65536)

test.dat is suitable for piping into ntpclient -r. I have over 53000 samples (lines) archived for study, that I don't include here. They are spaced 10 minutes apart, representing over a year of data logging (not continuous, unfortunately).

envelope is a perl script that I have used for my lock studies. It's kind of a hack and not worth documenting here.

- Larry Doolittle <larry@doolittle.boa.org

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utelnetd 0.1.4

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