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* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
* 
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Written by: Philip Hazel <ph10@cam.ac.uk>

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

/*

For the expat xml parser component:

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* 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>, Aug. 6, 1997
*
* 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->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* 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> bytes empty at the start. Then
* 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->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     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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*
* M. Welsh, 6 July 1996
*
* /

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorgu.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)
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for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
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Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
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Ernst Peinlich <e.peinlich@inode.at>
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Peter Beutner <p.beutner@gmx.net>
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for the nxt2004 frontend driver

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid 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>, Aug. 6, 1997
 *
 * 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->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * 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> bytes empty at the start. Then
 * 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->destructor / skb->atm.recycle_buffer
 *    combined, allow nicstar_free_rx_skb to be called to
 *    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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M. Welsh, 6 July 1996

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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.uku.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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Michael Hunold <m.hunold@gmx.de>
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Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
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Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
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Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
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Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activity budget DVB-S
Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
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Michael Krufky <smkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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expected. Although updates may occur, no commitment exists.
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * * Hacked October, 1997 by Jawaid 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>, Aug. 6, 1997

* 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->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

* 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> bytes empty at the start. Then 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->destructor / skb->atm.recycle_buffer
    combined, allow nicstar_free_rx_skb to be called to 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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Version 2, June 1991

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Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Program
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The source code for a work means the preferred form of the work for
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associated interface definition files, plus the scripts used to
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anything that is normally distributed (in either source or binary
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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
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Mark Grosen
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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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FlashPoint Driver Developer's Kit
Version 1.0

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Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition
Alan Cox <alan@lxorg.uku.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

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Hardware I2C

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**1.10 kernel-linux 2.6.27**

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That's all there is to it!
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid 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>, Aug. 6, 1997
 *
 * 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->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * 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> bytes empty at the start. Then
 * 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->destructor / skb->atm.recycle_buffer
 *   combined, allow nicstar_free_rx_skb to be called to
 *   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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M. Welsh, 6 July 1996

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***********************************************************************

The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
2. [2]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [5]Michael Barone <michael.barone@lmco.com> GPSVME fixes
5. [6]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
8. [9]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
9. [10]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
12. [13]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
13. [14]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and
help with target configuration
14. [15]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference
clock driver, NT adj. residuals, integrated Greg’s Winnt port.
15. [16]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
16. [17]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux
port
17. [18]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for
NTP Version 2 as specified in RFC-1119
18. [19]John Hay <jhay@icontek.csir.co.za> IPv6 support and testing
19. [20]Dave Hart <davehart@davehart.com> General maintenance, Windows
port interpolation rewrite
20. [21]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
21. [22]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
22. [23]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
23. [24]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
24. [25]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping
overhaul
25. [26]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
[H.Lambermont@chello.nl] ntpsweep
26. [28]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original
author)
27. [29]Frank Kardel [30]<kardel (at) ntp (dot) org> PARSE <GENERIC>
driver (>14 reference clocks), STREAMS modules for PARSE, support
scripts, syslog cleanup, dynamic interface handling
28. [31]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX
modifications, HP/UX modifications
29. [32]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
30. [33]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
GPS clock driver
31. [34]George Lindholm <lindholm@acs.ubc.ca> SunOS 5.1 port
32. [35]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
33. [36]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
code for Version 3 as specified in RFC-1305
34. [37]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code
Maintenance
35. [38]David L. Mills <mills@udel.edu> Version 4 foundation: clock
discipline, authentication, precision kernel; clock drivers:
Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics;
audio clock drivers: CHU, WWV/H, IRIG
36. [39]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
37. [40]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
38. [41]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
39. [42]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
40. [43]Derek Mulcahy <derek@toybox.demon.co.uk> and [44]Damon
Hart-Davis <d@hd.org> ARCRON MSF clock driver
41. [45]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code
maintenance
42. [46]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
monitoring/trap scripts, statistics file handling
43. [47] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
44. [48] Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
45. [49] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
46. [50] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
47. [51] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
48. [52] Michael Shields <shields@tembel.org> USNO clock driver
49. [53] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
50. [54] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
51. [55] Kenneth Stone <ken@sdd.hp.com> HP-UX port
52. [56] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
53. [57] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
54. [58] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
55. [59] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References
1. mailto:mark_andrews@isc.org
2. mailto:altmeier@atsoft.de
3. mailto:vbaix@mailman1.intel.co
4. mailto:kirkwood@striderfm.intel.com
5. mailto:michael.barone@lmco.com
6. mailto:karl@owl.HQ.ileaf.com
7. mailto:greg.brackley@bigfoot.com
8. mailto:Marc.Brett@westgeo.com
9. mailto:Piete.Brooks@el.cam.ac.uk
10. mailto:nelson@bolyard.me
11. mailto:Jean-Francois.Boudreault@viagenie.qc.ca
12. mailto:reg@dwf.com
13. mailto:clift@ml.csiro.au
14. mailto:casey@csc.co.za
15. mailto:Sven_Dietrich@trimble.COM
16. mailto:dundas@salt.jpl.nasa.gov
17. mailto:duwe@immd4.informatik.uni-erlangen.de
18. mailto:dennis@mrbill.canet.ca
19. mailto:jhay@icomtek.csir.co.za
20. mailto:davehart@davehart.com
21. mailto:neoclock4x@linum.com
22. mailto:glenn@herald.usask.ca
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1.14 openldap 2.4.17 :r0

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1.15 openssh 6.2p2 :r0

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* 
* Optimised ANSI C code for the Rijndael cipher (now AES)
* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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