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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 \$Revision: 1.1 \$ \$Date: 1999/08/20 11:00:11 \$

*

* 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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

```

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

That's all there is to it!
Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and it's recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>

Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holz <kju@debian.org>
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.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

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for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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for his LIRC infrared handler

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for maintaining v4l/dvb inter-tree dependencies

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for the nxt2002 frontend driver

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

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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1.2 expat 2.0.1

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1.3 uclibc 0.9.30

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```
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*
 * This is an original implementation of the DES and the crypt(3) interfaces
 * by David Burren <davidb@werj.com.au>.

*
 * An excellent reference on the underlying algorithm (and related
 * algorithms) is:

*
 * B. Schneier, Applied Cryptography: protocols, algorithms,
 * and source code in C, John Wiley & Sons, 1994.

*
 * Note that in that book's description of DES the lookups for the initial,
 * pbox, and final permutations are inverted (this has been brought to the
 * attention of the author). A list of errata for this book has been
 * posted to the sci.crypt newsgroup by the author and is available for FTP.

*
 * ARCHITECTURE ASSUMPTIONS:
 * It is assumed that the 8-byte arrays passed by reference can be
 * addressed as arrays of u_int32_t's (ie. the CPU is not picky about
 * alignment).

*/
 /*
 * MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm
 *
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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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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K 14

svn:executable

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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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1.7 pjsip 1.8.10

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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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```
>>>>>
```

```
/*
```

```
* PortAudio Portable Real-Time Audio Library
```

```
* PortAudio API Header File
```

```
* Latest version available at: http://www.portaudio.com
```

```
*
```

```
* Copyright (c) 1999-2006 Ross Bencina and Phil Burk
```

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*
```

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*/
```

```
/*
```

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```
*/
```

```
<<<<<
```

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>>>>>

/*

* PortAudio Portable Real-Time Audio Library

* Latest version at: <http://www.portaudio.com>

* <platform> Implementation

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1.8 pjnath 1.8.1

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* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/docs/doc_samples.h

* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/docs/doc_turn.h

* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/docs/doc_stun.h

* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/docs/doc_ice.h

* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/docs/doc_mainpage.h

* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/docs/doc_nat.h

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- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath/turn_sock.c
- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjturn-srv/allocation.c
- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/stun_sock_test.c
- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath/ice_session.c
- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath/stun_msg_dump.c
- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjturn-srv/auth.c
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- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/nat_detect.h
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- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath/nat_detect.c
- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjturn-srv/server.c
- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/main.c
- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/stun_config.h
- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/test.c
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- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/turn_sock_test.c
- * /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath/stun_auth.c

1.9 busybox 1.2.2

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```

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```

```
<p>
```

```
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```

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1.10 unzip 6.00

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

- * MoreFiles
- *
- * A collection of File Manager and related routines
- *
- * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
- * with significant code contributions by Nitin Ganatra
- * (Apple Macintosh Developer Technical Support Emeritus)
- * Copyright 1992-1998 Apple Computer, Inc.
- * Portions copyright 1995 Jim Luther
- * All rights reserved.

* The Package "More Files" is distributed under the following
* license terms:
*
* "You may incorporate this sample code into your
* applications without restriction, though the
* sample code has been provided "AS IS" and the
* responsibility for its operation is 100% yours.
* However, what you are not permitted to do is to
* redistribute the source as "DSC Sample Code" after
* having made changes. If you're going to
* redistribute the source, we require that you make
* it clear in the source that the code was descended
* from Apple Sample Code, but that you've made
* changes."

The usage terms of this copyright note are compatible with the
Info-ZIP license, they do not add further restrictions.

The following copyright applies to the Mac OS "macbin3" decoding code
(extra field compatibility with ZipIt):

* MacBinaryIII.h
*
* Copyright 1997 Christopher Evans (cevens@poppybank.com)
*
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* -----
* This source is copyrighted by Christopher Evans (cevens@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthol leonardr@netcom.com)

This copyright note does not contain any usage terms. So, we assume
that this code is freely reusable until we are proved wrong...

The remaining copyright notes have been superseded by the new
Info-ZIP license, with explicit permission from the respective
original authors. They are cited here for historical reasons,
only:

The following copyright applies to the full-featured unreduce.c
(now distributed separately):

* Copyright 1989 Samuel H. Smith; All rights reserved
*

- * Do not distribute modified versions without my permission.
- * Do not remove or alter this notice or any other copyright notice.
- * If you use this in your own program you must distribute source code.
- * Do not use any of this in a commercial product.

Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

The following copyright applied to most of the VMS code in vms.c, distributed with UnZip version 4.2 and later:

- * Copyright (c) 1992-93 Igor Mandrichenko.
- * Permission is granted to any individual or institution to use, copy,
- * or redistribute this software so long as all of the original files
- * are included unmodified and that this copyright notice is retained.

The following copyright applied to the new version of unshrink.c, distributed with UnZip version 5.2 and later:

- * Copyright (c) 1994 Greg Roelofs.
- * Permission is granted to any individual/institution/corporate
- * entity to use, copy, redistribute or modify this software for
- * any purpose whatsoever, subject to the conditions noted in the
- * Frequently Asked Questions section below, plus one additional
- * condition: namely, that my name not be removed from the source
- * code. (Other names may, of course, be added as modifications
- * are made.) Corporate legal staff (like at IBM :-)) who have
- * problems understanding this can contact me through Zip-Bugs...

The following copyright applied to the Windows DLL code (windll/*), distributed with UnZip version 5.2 and later:

- * Copyright (c) 1996 Mike White.
- * Permission is granted to any individual or institution to use,
- * copy, or redistribute this software so long as all of the original
- * files are included, that it is not sold for profit, and that this
- * copyright notice is retained.

The following copyright applied to the Windows CE GUI port, ``Pocket UnZip," distributed with UnZip version 5.3 and later:

- * All the source files for Pocket UnZip, except for components
- * written by the Info-ZIP group, are copyrighted 1997 by Steve P.
- * Miller. The product "Pocket UnZip" itself is property of the
- * author and cannot be altered in any way without written consent
- * from Steve P. Miller.

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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