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Issue Date: 17/07/2009

My thanks to Colin Sinclair for finding an error and suggesting a number of improvements to this code. My thanks also to John Viega and David McGrew for their support in developing this code and to David for testing it on a big-endian system.

*/

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*

* source in this file came from

* the Mach ethernet boot written by Leendert van Doorn.

*

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*

* Description: ROMMON ARP processing module. Inherited from PIX Monitor-Mode

* Code base.

*

* This code was originally taken from the NetBSD 1.3.2 distribution.

* It has been rather extensively modified, including removing RARP

* and fixing a lot of bugs.

*

*-----

* \$Id: //depot/acmilan/main/Xpix/boot/rommon/nb_arp.c#2 \$

* \$Source: \$

*/

1.3 base64.c 1.3

1.3.1 Available under license :

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```

```
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 * __FBSDID("$FreeBSD: /repoman/r/ncvs/src/sys/dev/bce/if_bce.c,
 * v 1.18 2006/10/31 03:28:25 scottl Exp $");
 */

```

1.6 busybox 1.16.1

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1.11 errno.h 1.14

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1.12 expat 2.0.1 ASA

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1.14 fnmatch.c 1.11

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*/

1.15 fnmatch.h 1.7

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```


*
*@(##)fnmatch.h8.1 (Berkeley) 6/2/93
*/

1.16 gcc 4.0.2

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1.23 libxml2 2.7.5 ASA

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1.25 linux kernel 2.6.29.6

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```
<one line to give the program's name and a brief idea of what it does.>
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```

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```
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This is free software, and you are welcome to redistribute it
```

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

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FlashPoint Driver Developer's Kit

Version 1.0

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Version 2, June 1991

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<signature of Ty Coon> , 1 April 1990

Ty Coon, President of Vice

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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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.

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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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that

uses the Library", as object code and/or source code, so that the 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.)

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.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be 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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^L

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1.27 Izma 4.43

1.27.1 Available under license :

/*

LzmaDecode.c

LZMA Decoder (optimized for Speed version)

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ppp-2.1.2b/386bsd/net/if_types.h
 ppp-2.1.2b/386bsd/net/slcompress.h
 ppp-2.1.2b/386bsd/new/slcompress.c
 ppp-2.1.2b/netbsd-current/slcompress.c
 ppp-2.1.2b/netbsd-current/slcompress.h

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ppp-2.1.2b/netbsd-current/if_ppp.c

ppp-2.1.2b/ultrix/if_ppp.c

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ppp-2.1.2b/netbsd-current/if_ppp.h

ppp-2.1.2b/pppd/fsm.c

ppp-2.1.2b/pppd/fsm.h

ppp-2.1.2b/pppd/ipcp.c

ppp-2.1.2b/pppd/ipcp.h

ppp-2.1.2b/pppd/lcp.c

ppp-2.1.2b/pppd/lcp.h

ppp-2.1.2b/pppd/magic.c

ppp-2.1.2b/pppd/magic.h

ppp-2.1.2b/pppd/main.c

ppp-2.1.2b/pppd/options.c

ppp-2.1.2b/pppd/ppp.h

ppp-2.1.2b/pppd/pppd.h

ppp-2.1.2b/pppd/sys-bsd.c

ppp-2.1.2b/pppd/sys-linux.c

ppp-2.1.2b/pppd/sys-str.c

ppp-2.1.2b/pppd/sys-ultrix.c

ppp-2.1.2b/pppd/upap.c

ppp-2.1.2b/pppd/upap.h

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ppp-2.1.2b/net/ppp_str.h

ppp-2.1.2b/sunos/ppp_async.c

ppp-2.1.2b/sunos/ppp_if.c

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ppp-2.1.2b/pppd/auth.c

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ppp-2.1.2b/pppd/chap.h

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ppp-2.1.2b/net/slcompress.h

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1.46 qsort.c 1.1.1.1

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1.47 queue.h 1.18

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*@(#)queue.h8.5 (Berkeley) 8/20/94

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1.48 queue.h 1.32.2.7

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*@(#)queue.h8.5 (Berkeley) 8/20/94

* \$FreeBSD: src/sys/sys/queue.h,v 1.32.2.7 2002/04/17 14:21:02 des Exp \$

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1.49 rand.c 1.6

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1.50 readline 5.2 ASA

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1.51 regex book library

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 * precedence is structured in regular expressions.  Serious changes in
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 */

```

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*/

1.60 strcspn.c 1.5

1.60.1 Available under license :

```
/*$NetBSD: strcspn.c,v 1.5 1997/07/13 20:24:24 christos Exp $*/
```

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1.61 strlcat.c 1.2

1.61.1 Available under license :

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1.62 strcpy.c 1.4

1.62.1 Available under license :

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/*$OpenBSD: strcpy.c,v 1.4 1999/05/01 18:56:41 millert Exp $*/
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1.63 strnstr UNKNOWN

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1.64 strpbrk.c 1.7

1.64.1 Available under license :

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/*$NetBSD: strpbrk.c,v 1.7 1998/02/03 18:49:22 perry Exp $*/
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1.65 strsep.c 1.11

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1.66 strspn.c 1.5

1.66.1 Available under license :

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/*$NetBSD: strspn.c,v 1.5 1997/07/13 20:24:33 christos Exp $*/
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1.67 strstr.c 1.1.1.1

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1.68 strtod.c 1.50

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1.69 strtok.c 1.5

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1.70 strtol.c 1.10

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1.71 strtq.c 1.10

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1.72 strtoul.c 1.10

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1.73 strtouq.c 1.9

1.73.1 Available under license :

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1.74 struct.h 1.1.1.2

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*

*@(#)struct.h8.1 (Berkeley) 6/2/93

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1.75 types.h 1.1

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.81 zlib 1.2.3 ASA

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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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1.82 zlib 1.2.3 1.2.3

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