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Contents

1.1 AES_MODES_SOURCE_CODE 23-07-09

1.1.1 Available under license

1.2 Arp 1.3.2

1.2.1 Available under license

1.3 base64.c 1.3

1.3.1 Available under license

1.4 bind 4.9.4

1.4.1 Available under license

1.5 Broadcom 57XX Ethernet Driver Unknown

1.5.1 Available under license

1.6 busybox 1.16.1

1.6.1 Available under license

1.7 clock_util.c 1992

1.7.1 Available under license

1.8 cracklib 2.8.18

1.8.1 Available under license

1.9 CRC32 1.222

1.9.1 Available under license

1.10 cryptsetup 1.6.2

1.10.1 Available under license

1.11 curl 7.20.0

1.11.1 Available under license

1.12 dante 1.2.0

1.12.1 Available under license

1.13 DAV Explorer 0.91

1.13.1 Notifications

- 1.13.2 Available under license
- 1.14 dmidecode 2.9.**
 - 1.14.1 Available under license
- 1.15 dmidecode 2.11**
 - 1.15.1 Available under license
- 1.16 dosfstools 2.11 :ASA**
 - 1.16.1 Available under license
- 1.17 errno.h 1.14**
 - 1.17.1 Available under license
- 1.18 expat 2.0.1 :ASA**
 - 1.18.1 Available under license
- 1.19 Expat XML Parser v1.2 :Production**
 - 1.19.1 Available under license
- 1.20 fnmatch.c 1.11**
 - 1.20.1 Available under license
- 1.21 fnmatch.h 1.7**
 - 1.21.1 Available under license
- 1.22 gcc 4.0.2**
 - 1.22.1 Available under license
- 1.23 genx beta5**
 - 1.23.1 Available under license
- 1.24 getline 1991**
 - 1.24.1 Available under license
- 1.25 glibc 2.9**
 - 1.25.1 Available under license
- 1.26 grub 0.94**
 - 1.26.1 Available under license
- 1.27 Intel GE Driver - FreeBSD 2.2.3**
 - 1.27.1 Available under license
- 1.28 IPMIutil 1.8.2**
 - 1.28.1 Available under license
- 1.29 ixgbe driver 1.7.5**
 - 1.29.1 Available under license
- 1.30 libcgroup 0.34 :ASA**
 - 1.30.1 Available under license
- 1.31 libgcc 4.3**
 - 1.31.1 Available under license
- 1.32 libgcc (gcc runtime library) 3.4.6**
 - 1.32.1 Available under license

1.33 libgcrypt 1.5.0

1.33.1 Available under license

1.34 libgpg-error 1.10

1.34.1 Available under license

1.35 libidn_libs 1.22

1.35.1 Available under license

1.36 libstdc++ 4.3

1.36.1 Available under license

1.37 libusb 0.1.12 :ASA

1.37.1 Available under license

1.38 linux kernel 2.6.29.6

1.38.1 Available under license

1.39 Linux-PAM 1.1.0

1.39.1 Available under license

1.40 lvm2 2.02.79

1.40.1 Available under license

1.41 lzma 4.43

1.41.1 Available under license

1.42 MD4 Encryption 1.6

1.42.1 Available under license

1.43 memchr.c 1.6

1.43.1 Available under license

1.44 microperl 5.8.9

1.44.1 Available under license

1.45 module-init-tools 3.10 :ASA

1.45.1 Available under license

1.46 ncurses 5.6 :ASA

1.46.1 Available under license

1.47 Ncurses 5.6

1.47.1 Available under license

1.48 netfs 6.0

1.48.1 Available under license

1.49 NRL IPsec key.h 1.1a

1.49.1 Available under license

1.50 NTP 3

1.50.1 Available under license

1.51 numactl 2.0.3 :ASA

1.51.1 Available under license

1.52 Opensource FreeBSD E1000 network driver - Intel Developed All file revisions are 1.3 under FreeBSD src/sys/dev/e1000/

- 1.52.1 Available under license
- 1.53 OpenSSH 2.3.0**
 - 1.53.1 Available under license
- 1.54 openssl 1.0.1e**
 - 1.54.1 Notifications
 - 1.54.2 Available under license
- 1.55 openwbem-3.2.2 3.2.2**
 - 1.55.1 Available under license
- 1.56 Packet allocation and deallocation routines 1.3.2**
 - 1.56.1 Available under license
- 1.57 pci.ids 2009.10.22 :ASA**
 - 1.57.1 Available under license
- 1.58 pciutils 2.2.5 :6.0.0.0801182**
 - 1.58.1 Available under license
- 1.59 pciutils 3.1.4 :ASA**
 - 1.59.1 Available under license
- 1.60 pcre 6.7**
 - 1.60.1 Available under license
- 1.61 popt 1.10**
 - 1.61.1 Available under license
- 1.62 PPP (Paul's PPP Package) 2.1.2b**
 - 1.62.1 Notifications
 - 1.62.2 Available under license
- 1.63 Qemu-KVM 0.12.5**
 - 1.63.1 Available under license
- 1.64 Qemu-KVM Inter-VM Shared Memory Patch 1.0**
 - 1.64.1 Available under license
- 1.65 qsort.c 1.1.1.1**
 - 1.65.1 Available under license
- 1.66 queue.h 1.18**
 - 1.66.1 Available under license
- 1.67 queue.h 1.32.2.7**
 - 1.67.1 Available under license
- 1.68 rand.c 1.6**
 - 1.68.1 Available under license
- 1.69 readline 5.2 :ASA**
 - 1.69.1 Available under license
- 1.70 regex book library**
 - 1.70.1 Available under license

1.71 RPC 4.0

1.71.1 Available under license

1.72 sblim-sfcb-1.2.4 1.2.4

1.72.1 Available under license

1.73 sblim-sfcb-1.3.3 1.3.3

1.73.1 Available under license

1.74 sblim-sfcc-2.0.2 2.0.2

1.74.1 Available under license

1.75 setjmp.S 1.1

1.75.1 Available under license

1.76 SHA-2 1.0

1.76.1 Available under license

1.77 smbfs 1.4

1.77.1 Available under license

1.78 SNACC 1.3

1.78.1 Available under license

1.79 stat.h 1.20

1.79.1 Available under license

1.80 strcasecmp.c 1.4

1.80.1 Available under license

1.81 strcat_end strcat_end.c 8.1 (Berkeley) 6/4/93

1.81.1 Available under license

1.82 strcasecmp.c 1.5

1.82.1 Available under license

1.83 strlcat.c 1.2

1.83.1 Available under license

1.84 strlcpy.c 1.4

1.84.1 Available under license

1.85 strnstr UNKNOWN

1.85.1 Available under license

1.86 strpbrk.c 1.7

1.86.1 Available under license

1.87 strsep.c 1.11

1.87.1 Available under license

1.88 strspn.c 1.5

1.88.1 Available under license

1.89 strstr.c 1.1.1.1

1.89.1 Available under license

1.90 strtod.c 1.50

- 1.90.1 Available under license
- 1.91 strtok.c 1.5**
 - 1.91.1 Available under license
- 1.92 strtol.c 1.10**
 - 1.92.1 Available under license
- 1.93 strtouq.c 1.10**
 - 1.93.1 Available under license
- 1.94 strtoul.c 1.10**
 - 1.94.1 Available under license
- 1.95 strtouq.c 1.9**
 - 1.95.1 Available under license
- 1.96 struct.h 1.1.1.2**
 - 1.96.1 Available under license
- 1.97 types.h 1.1**
 - 1.97.1 Available under license
- 1.98 udev 146 :ASA**
 - 1.98.1 Available under license
- 1.99 unzip 5.52**
 - 1.99.1 Available under license
- 1.100 usbutils 0.86 :ASA**
 - 1.100.1 Available under license
- 1.101 util-linux 2.16.1**
 - 1.101.1 Available under license
- 1.102 VMXNET3 driver 1.0.5.0-k :Linux kernel 2.6.32.33**
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 - 1.104.1 Available under license
- 1.105 zlib 1.2.3 1.2.3**
 - 1.105.1 Available under license

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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-endain system.

*/

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* 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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1.5 Broadcom 57XX Ethernet Driver Unknown

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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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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.7 clock_util.c 1992

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*

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*/

1.8 cracklib 2.8.18

1.8.1 Available under license :

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Version 2.1, February 1999

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[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,

> it was enough to just get it consistent and documented as to what it was

> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec
> directly

> > and see if he wants to relicense his code as LGPL... but at this
> point,

> > it was enough to just get it consistent and documented as to what

> it was
>> released under. This wasn't actually a license change, just a
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
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> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional code, so whatever licensing y'all come up with is fine
>> by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small

>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.
>>
>> I am sympathetic. Guys, what do you reckon?
>>
>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...
>
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> timeframe.
>
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> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

>>> In any case, I thank you both for working on sorting this out.

>>

>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
>> make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>

<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.9 CRC32 1.222

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- *

1.10 cryptsetup 1.6.2

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

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.11 curl 7.20.0

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1.14 dmidcode 2.9.

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1.15 dmidecode 2.11

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1.17 errno.h 1.14

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1.18 expat 2.0.1 :ASA

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1.20 fnmatch.c 1.11

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1.21 fnmatch.h 1.7

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*
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1.22 gcc 4.0.2

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Version 2, June 1991

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```
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```

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```
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```

<signature of Ty Coon>, 1 April 1989

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1.26 grub 0.94

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1.28 IPMIutil 1.8.2

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1.30 libcgroup 0.34 :ASA

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1.31 libgcc 4.3

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1.32 libgcc (gcc runtime library) 3.4.6

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1.34 libgpg-error 1.10

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1.35 libidn_libs 1.22

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Simon Josefsson

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1.36 libstdc++ 4.3

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1.37 libusb 0.1.12 :ASA

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1.38 linux kernel 2.6.29.6

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Version 1.0

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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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1.41 Izma 4.43

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/*

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```

```
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1.42 MD4 Encryption 1.6

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```

1.43 memchr.c 1.6

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```
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1.44 microp Perl 5.8.9

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The End

1.45 module-init-tools 3.10 :ASA

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1.46 ncurses 5.6 :ASA

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```

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1.47 Ncurses 5.6

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-----  
-- $Id: README,v 1.23 2006/04/22 22:19:37 tom Exp $  
-----
```

README file for the ncurses package

See the file ANNOUNCE for a summary of ncurses features and ports.
See the file INSTALL for instructions on how to build and install ncurses.
See the file NEWS for a release history and bug-fix notes.
See the file TO-DO for things that still need doing, including known bugs.

Browse the file misc/ncurses-intro.html for narrative descriptions of how to use ncurses and the panel, menu, and form libraries.

Browse the file doc/html/hackguide.html for a tour of the package internals.

ROADMAP AND PACKAGE OVERVIEW:

You should be reading this file in a directory called: ncurses-d.d, where d.d is the current version number (see the dist.mk file in this directory for that). There should be a number of subdirectories, including `c++', `form', `man', `menu', `misc', `ncurses', `panel', `progs', `test', `tack' and `Ada95'.

(The 'tack' program may be distributed separately).

A full build/install of this package typically installs several libraries, a handful of utilities, and a database hierarchy. Here is an inventory of the pieces:

The libraries are:

libncurses.a (normal)
libncurses.so (shared)
libncurses_g.a (debug and trace code enabled)
libncurses_p.a (profiling enabled)

libpanel.a (normal)
libpanel.so (shared)
libpanel_g.a (debug and trace code enabled)

libmenu.a (normal)
libmenu.so (shared)
libmenu_g.a (debug enabled)

libform.a (normal)
libform.so (shared)
libform_g.a (debug enabled)

If you configure using the `--enable-widex` option, a "w" is appended to the library names (e.g., `libncursesw.a`), and the resulting libraries support wide-characters, e.g., via a UTF-8 locale. The corresponding header files are compatible with the non-wide-character configuration; wide-character features are provided by `ifdef's` in the header files. The wide-character library interfaces are not binary-compatible with the non-wide-character version.

The ncurses libraries implement the curses API. The panel, menu and forms libraries implement clones of the SVr4 panel, menu and forms APIs. The source code for these lives in the ``ncurses'`, ``panel'`, ``menu'`, and ``form'` directories respectively.

In the ``c++'` directory, you'll find code that defines an interface to the curses, forms, menus and panels library packaged as C++ classes, and a demo program in C++ to test it. These class definition modules are not installed by the `'make install.libs'` rule as `libncurses++`.

In the ``Ada95'` directory, you'll find code and documentation for an Ada95 binding of the curses API, to be used with the GNAT compiler. This binding is built by a normal top-level `'make'` if `configure` detects an usable version of GNAT (3.11 or above). It is not installed automatically. See the Ada95 directory for more build and installation instructions and

for documentation of the binding.

To do its job, the ncurses code needs your terminal type to be set in the environment variable TERM (normally set by your OS; under UNIX, `getty(1)` typically does this, but you can override it in your `.profile`); and, it needs a database of terminal descriptions in which to look up your terminal type's capabilities.

In older (V7/BSD) versions of curses, the database was a flat text file, `/etc/termcap`; in newer (USG/USL) versions, the database is a hierarchy of fast-loading binary description blocks under `/usr/lib/terminfo`. These binary blocks are compiled from an improved editable text representation called ``terminfo'` format (documented in `man/terminfo.5`). The ncurses library can use either `/etc/termcap` or the compiled binary terminfo blocks, but prefers the second form.

In the ``misc'` directory, there is a text file `terminfo.src`, in editable terminfo format, which can be used to generate the terminfo binaries (that's what `install.data` does). If the package was built with the `--enable-termcap` option enabled, and the ncurses library cannot find a terminfo description for your terminal, it will fall back to the `termcap` file supplied with your system (which the ncurses package installation leaves strictly alone).

The utilities are as follows:

```
tic      -- terminfo source to binary compiler
infocmp  -- terminfo binary to source decompiler/comparator
clear    -- emits clear-screen for current terminal
tput     -- shell-script access to terminal capabilities.
toe     -- table of entries utility
tset     -- terminal-initialization utility
```

The first two (`tic` and `infocmp`) are used for manipulating terminfo descriptions; the next two (`clear` and `tput`) are for use in shell scripts. The last (`tset`) is provided for 4.4BSD compatibility. The source code for all of these lives in the ``progs'` directory.

Detailed documentation for all libraries and utilities can be found in the ``man'` and ``doc'` directories. An HTML introduction to ncurses, panels, and menus programming lives in the ``doc/html'` directory. Manpages in HTML format are under ``doc/html/man'`.

The ``test'` directory contains programs that can be used to verify or demonstrate the functions of the ncurses libraries. See `test/README` for descriptions of these programs. Notably, the ``ncurses'` utility is designed to help you systematically exercise the library functions.

AUTHORS:

Pavel Curtis:

wrote the original ncurses

Zeyd M. Ben-Halim:

port of original to Linux and many enhancements.

Thomas Dickey (maintainer for 1.9.9g through 4.1, resuming with FSF's 5.0):

configuration scripts, porting, mods to adhere to XSI Curses in the areas of background color, terminal modes. Also memory leak testing, the wresize, default colors and key definition extensions and numerous bug fixes (more than half of those enumerated in NEWS beginning with the internal release 1.8.9).

Florian La Roche (official maintainer for FSF's ncurses 4.2)

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Eric S. Raymond:

the man pages, infocmp(1), tput(1), clear(1), captinfo(1), tset(1), toe(1), most of tic(1), trace levels, the HTML intro, wgetnstr() and many other entry points, the cursor-movement optimization, the scroll-pack optimizer for vertical motions, the mouse interface and xterm mouse support, and the ncurses test program.

Juergen Pfeifer

The menu and form libraries, C++ bindings for ncurses, menus, forms and panels, as well as the Ada95 binding. Ongoing support for panel.

CONTRIBUTORS:

Alexander V. Lukyanov

for numerous fixes and improvements to the optimization logic.

David MacKenzie

for first-class bug-chasing and methodical testing.

Ross Ridge

for the code that hacks termcap parameterized strings into terminfo.

Warren Tucker and Gerhard Fuernkranz,

for writing and sending the panel library.

Hellmuth Michaelis,

for many patches and testing the optimization code.

Eric Newton, Ulrich Drepper, and Anatoly Ivasyuk:

the C++ code.

Jonathan Ross,
for lessons in using sed.

Keith Bostic (maintainer of 4.4BSD curses)
for help, criticism, comments, bug-finding, and being willing to
deep-six BSD curses for this one when it grew up.

Richard Stallman,
for his commitment to making ncurses free software.

Countless other people have contributed by reporting bugs, sending fixes,
suggesting improvements, and generally whining about ncurses :-)

BUGS:

See the INSTALL file for bug and developer-list addresses.
The Hacker's Guide in the doc directory includes some guidelines
on how to report bugs in ways that will get them fixed most quickly.

1.48 netfs 6.0

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```
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1.54 openssl 1.0.1e

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```

```
<signature of Ty Coon>, 1 April 1989  
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1.61 popt 1.10

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ppp-2.1.2b/386bsd/net/slcompress.h

ppp-2.1.2b/386bsd/new/slcompress.c

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

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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

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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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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(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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1.64 Qemu-KVM Inter-VM Shared Memory

Patch 1.0

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```
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```

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

```

1.66 queue.h 1.18

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```

/* $NetBSD: queue.h,v 1.18 1999/01/29 01:05:03 tv Exp $ */

```

```

/*

```

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*
* @(#)queue.h 8.5 (Berkeley) 8/20/94
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1.67 queue.h 1.32.2.7

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```
*
* @(#)queue.h 8.5 (Berkeley) 8/20/94
* $FreeBSD: src/sys/sys/queue.h,v 1.32.2.7 2002/04/17 14:21:02 des Exp $
*/
```

1.68 rand.c 1.6

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*/
```

1.69 readline 5.2 :ASA

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```

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1.72 sblim-sfcb-1.2.4 1.2.4

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1.73 sblim-sfcb-1.3.3 1.3.3

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1.74 sblim-sfcc-2.0.2 2.0.2

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1.75 setjmp.S 1.1

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1.79 stat.h 1.20

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* @(#)stat.h 8.12 (Berkeley) 6/16/95
* $FreeBSD: src/sys/stat.h,v 1.20 1999/12/29 04:24:47 peter Exp $
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1.80 strcasecmp.c 1.4

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1.81 strcat_end strcat_end.c 8.1 (Berkeley)

6/4/93

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1.82 strcspn.c 1.5

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1.83 strlcat.c 1.2

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1.84 strlcpy.c 1.4

1.84.1 Available under license :

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/* $OpenBSD: strlcpy.c,v 1.4 1999/05/01 18:56:41 millert Exp $ */
```

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1.85 strnstr UNKNOWN

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1.86 strpbrk.c 1.7

1.86.1 Available under license :

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

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1.87 strsep.c 1.11

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```

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1.88 strspn.c 1.5

1.88.1 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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1.89 strstr.c 1.1.1.1

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1.90 strtod.c 1.50

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1.91 strtok.c 1.5

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1.92 strtol.c 1.10

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1.94 strtoul.c 1.10

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1.95 strtouq.c 1.9

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1.96 struct.h 1.1.1.2

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* @(#)struct.h 8.1 (Berkeley) 6/2/93

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1.97 types.h 1.1

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1.98 udev 146 :ASA

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1.102 VMXNET3 driver 1.0.5.0-k :Linux kernel

2.6.32.33

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.104 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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1.105 zlib 1.2.3 1.2.3

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