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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

#### HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

#### Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) Boost Software License - Version 1.0 - August 17th, 2003

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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
 <copyright>
  </copyright>
 <copyright>
  <year>2018</year> <holder>Joe Blow, John Coe</holder>
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

#### HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for

the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

#### Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

 $Al\ Dosser\ (dosser@src.dec.com)\ and\ Regis\ Cridlig\ (Regis.Cridlig@cl.cam.ac.uk)$  subsequently provided updates and information on variation between ULTRIX

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
```

```
</copyright>
<copyright>
<year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"</p>
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"</pre>
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
 <copyright>
  <year>1963</year> <year>1964</year> <year>1965
 </copyright>
 <copyright>
  <year>2018</year> <holder>Joe Blow, John Coe</holder>
 </copyright>
 <copyright>
  <year>1977</year> <year>1985</year> <holder>Someone else</holder>
 </copyright>
```

```
</articleinfo>
</article>
Software License, Version 1.0
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# 1.3 busybox 1.21.0

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Julian Seward, Cambridge, UK. jseward@bzip.org bzip2/libbzip2 version 1.0.4 of 20 December 2006

## 1.4 cjose 0.4.1

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## 1.5 cppformat 2.0.0

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Deriv	ed	Year	r	Own	ner	GPL-
	from				com	patibl	e? (1)
0.0.0.1	1.0		1001 1	005	CIVI	τ.	
0.9.0 thru			1991-1				yes
1.3 thru 1	.5.2 1.2		1995-	199	9 CN	<b>IRI</b>	yes
1.6	1.5.2	20	000	Cl	NRI	no	
2.0	1.6	20	00	Be	Open.	com 1	no
1.6.1	1.6	20	001	Cì	NRI	yes	(2)
2.1	2.0+1.6.	1	2001	]	PSF	no	,
2.0.1	2.0+1.6	5.1	2001		PSF	ye	es
2.1.1	2.1+2.0	.1	2001		PSF	ye	es
2.2	2.1.1	20	001	PS	F	yes	
2.1.2	2.1.1	2	002	P	SF	yes	
2.1.3	2.1.2	2	002	P	SF	yes	
2.2.1	2.2	20	002	PS	F	yes	
2.2.2	2.2.1	2	002	P	SF	yes	
2.2.3	2.2.2	2	003	P	SF	yes	
2.3	2.2.2	20	002-20	03	PSF	ye	es
2.3.1	2.3	20	002-20	03	PSF	ye	es
2.3.2	2.3.1	2	002-20	003	PSF	у	res
2.3.3	2.3.2	2	002-20	003	PSF	у	res
2.3.4	2.3.3	2	004	P	SF	yes	
2.3.5	2.3.4	2	005	P	SF	yes	
2.4	2.3	20	04	PS	F	yes	
2.4.1	2.4	20	005	PS	F	yes	
2.4.2	2.4.1	2	005	P	SF	yes	
2.4.3	2.4.2	2	006	P	SF	yes	
2.4.4	2.4.3	2	006	P	SF	yes	
2.5	2.4	20	06	PS	F	yes	

2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
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3.2.3	3.2.2	2012	PSF	yes
3.3.0	3.2	2012	PSF	yes

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## 1.6 curl 7.26.0

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## README

Curl is a command line tool for transferring data specified with URL syntax. Find out how to use curl by reading the curl.1 man page or the MANUAL document. Find out how to install Curl by reading the INSTALL document.

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If you have problems, questions, ideas or suggestions, please contact us

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Visit the curl web site for the latest news and downloads:

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To download the very latest source off the GIT server do this:

git clone git://github.com/bagder/curl.git

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## 1.9 flite 2.0.0

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```
src/cg/cst_mlpg.h
src/cg/cst_mlpg.c
src/cg/cst_mlsa.h
src/cg/cst_mlsa.c
src/cg/cst_vc.h
src/cg/cst vc.c
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```
src/audio/au_wince.c
src/utils/cst_file_stdio.c
src/utils/cst_mmap_posix.c
src/utils/cst_mmap_win32.c
src/utils/cst_mmap_none.c
src/utils/cst_file_wince.c
sapi/
```

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src/regex/regsub.c

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lang/usenglish/us\_durz\_cart.h
lang/usenglish/us\_int\_accent\_cart.c
lang/usenglish/us\_int\_accent\_cart.h
lang/usenglish/us\_int\_tone\_cart.c
lang/usenglish/us\_int\_tone\_cart.h
lang/usenglish/us\_phoneset.c
lang/usenglish/us\_f0lr.c

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configure
```

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configure.sub

config.guess

missing

install-sh

mkinstalldirs

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```
src/speech/g72x.h
src/speech/g721.c
src/speech/g72x.c
src/speech/g723_24.c
src/speech/g723_40.c
```

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lang/cmu\_grapheme\_lex/grapheme\_unitran\_tables.c

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- /\* Ported for Festvox by Gopala Anumachipalli gopalakr@cs.cmu.edu Sep 2012 \*/
- /\* Then converted to C for CMU Flite (cmuflite.org)

# 1.10 glibc 2.13

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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.)

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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# 1.11 jansson 2.9

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# 1.12 json-c 0.12.1

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### 1.13 libdbus-c++ 0.9.0

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

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(in case you are wondering where CyberLogin is, EON changed its login
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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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# 1.18 linux for cygnus 3.10.94 :MxC-2.1 Beta1

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\*

<sup>\*</sup> nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

<sup>\*</sup> Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

<sup>\*</sup> http://www.hypermall.com/

```
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
```

- \* 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 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.

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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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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the IR code for the ttusb-dec driver

Wilson Michaels < wilsonmichaels@earthlink.net> for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@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

Kirk Lapray <a href="mailto:kirk.lapray@gmail.com">kirk Lapray@gmail.com</a> 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 line to the DVB mailing list)

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

<sup>\*</sup> 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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## 1.19 linux kernel 3.4

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* @version 3.0 (December 2000)
```

\*

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\*

- \* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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That's all there is to it! Qjson version xxxx, Date

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## 1.31 websocketpp 0.7.0 :2015-02-27

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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<b

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### 1.33 zlib 1.2.8 1.2.8

### 1.33.1 Available under license:

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