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acl

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attr

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Package revision: r0
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File name: generic_LGPLv2.1

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Version 2.1, February 1999

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avahi

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base-files

Package version: 3.0.14
Package revision: r89
Package license(s): GPLv2

File name: generic_GPLv2

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Package license(s): GPLv2+

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bash-completion

Package version: 2.4
Package revision: r0
Package license(s): GPLv2

File name: generic_GPLv2

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binutils-cross-arm

Package version: linaro-2.27

Package revision: r2016.10

Package license(s): GPLv3

File name: COPYING.LIB.0

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bluez5

Package version: 5.41

Package revision: r0

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boost

Package version: 1.61.0

Package revision: r0

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busybox

Package version: 1.24.1

Package revision: r0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

File name: generic_GPLv2

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bzip2

Package version: 1.0.6
Package revision: r5
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

File name: generic_bzip2

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c-ares

Package version: 1.12.0

Package revision: r0

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Package version: 4.0.6
Package revision: r0
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File name: generic_GPLv2

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connman

Package version: 1.33
Package revision: r0
Package license(s): GPLv2

File name: generic_GPLv2

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connman-conf

Package version: 1.0
Package revision: r2
Package license(s): GPLv2

File name: GPL-2.0

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console-seacloud-image

Package version: V2.7

Package revision: r0

Package license(s): MIT

coreutils

Package version: 8.25

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cpufrequtils

Package version: 008
Package revision: r5
Package license(s): GPLv2

File name: generic_GPLv2

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```
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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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cracklib

Package version: 2.9.5
Package revision: r0
Package license(s): LGPLv2.1+

File name: COPYING.LIB

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Package version: 1.8
Package revision: r0
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cryptsetup

Package version: 1.7.2

Package revision: r0

Package license(s): GPL-2.0-with-OpenSSL-exception

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*     (including a physical distribution medium), accompanied by a
*     written offer, valid for at least three years and valid for as
*     long as you offer spare parts or customer support for that product
*     model, to give anyone who possesses the object code either (1) a
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*     medium customarily used for software interchange, for a price no
*     more than your reasonable cost of physically performing this
*     conveying of source, or (2) access to copy the
*     Corresponding Source from a network server at no charge.
*
*     c) Convey individual copies of the object code with a copy of the
*     written offer to provide the Corresponding Source.  This
*     alternative is allowed only occasionally and noncommercially, and
*     only if you received the object code with such an offer, in accord
*     with subsection 6b.
*
*     d) Convey the object code by offering access from a designated
*     place (gratis or for a charge), and offer equivalent access to the
*     Corresponding Source in the same way through the same place at no
*     further charge.  You need not require recipients to copy the
*     Corresponding Source along with the object code.  If the place to
*     copy the object code is a network server, the Corresponding Source
*     may be on a different server (operated by you or a third party)
*     that supports equivalent copying facilities, provided you maintain
*     clear directions next to the object code saying where to find the
*     Corresponding Source.  Regardless of what server hosts the
*     Corresponding Source, you remain obligated to ensure that it is
*     available for as long as needed to satisfy these requirements.
*
*     e) Convey the object code using peer-to-peer transmission, provided
*     you inform other peers where the object code and Corresponding
*     Source of the work are being offered to the general public at no
*     charge under subsection 6d.
*
*   A separable portion of the object code, whose source code is excluded
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*
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*
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* a modified version of its Corresponding Source. The information must
* suffice to ensure that the continued functioning of the modified object
* code is in no case prevented or interfered with solely because
* modification has been made.
*
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* specifically for use in, a User Product, and the conveying occurs as
* part of a transaction in which the right of possession and use of the
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Package revision: r0
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depmodwrapper-cross

Package version: 1.0

Package revision: r0

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devmem2

Package version: 1.0
Package revision: r7
Package license(s): GPLv2+

File name: generic_GPLv2

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dosfstools

Package version: 4.0

Package revision: r0

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Version 3, 29 June 2007

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```
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e2fsprogs

Package version: 1.43

Package revision: r1

Package license(s): GPLv2 & LGPLv2 & BSD & MIT

File name: uuid.h.in

```
/*
 * Public include file for the UUID library
 *
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 *
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 * %End-Header%
 */

#ifndef _UUID_UUID_H
#define _UUID_UUID_H

#include <sys/types.h>
#ifndef _WIN32
#include <sys/time.h>
#endif
#include <time.h>

typedef unsigned char uuid_t[16];

/* UUID Variant definitions */
#define UUID_VARIANT_NCS  0
#define UUID_VARIANT_DCE  1
#define UUID_VARIANT_MICROSOFT 2
#define UUID_VARIANT_OTHER 3

/* UUID Type definitions */
#define UUID_TYPE_DCE_TIME   1
#define UUID_TYPE_DCE_RANDOM 4

/* Allow UUID constants to be defined */
#ifdef __GNUC__
#define UUID_DEFINE(name,u0,u1,u2,u3,u4,u5,u6,u7,u8,u9,u10,u11,u12,u13,u14,u15) \
 static const uuid_t name __attribute__ ((unused)) = {u0,u1,u2,u3,u4,u5,u6,u7,u8,u9,u10,u11,u12,u13,u14,u15}
#else
#define UUID_DEFINE(name,u0,u1,u2,u3,u4,u5,u6,u7,u8,u9,u10,u11,u12,u13,u14,u15) \
 static const uuid_t name = {u0,u1,u2,u3,u4,u5,u6,u7,u8,u9,u10,u11,u12,u13,u14,u15}
#endif

#ifdef __cplusplus
extern "C" {
#endif

/* clear.c */
void uuid_clear(uuid_t uu);

/* compare.c */
```

```
int uuid_compare(const uuid_t uu1, const uuid_t uu2);

/* copy.c */
void uuid_copy(uuid_t dst, const uuid_t src);

/* gen_uuid.c */
void uuid_generate(uuid_t out);
void uuid_generate_random(uuid_t out);
void uuid_generate_time(uuid_t out);

/* isnull.c */
int uuid_is_null(const uuid_t uu);

/* parse.c */
int uuid_parse(const char *in, uuid_t uu);

/* unparse.c */
void uuid_unparse(const uuid_t uu, char *out);
void uuid_unparse_lower(const uuid_t uu, char *out);
void uuid_unparse_upper(const uuid_t uu, char *out);

/* uuid_time.c */
time_t uuid_time(const uuid_t uu, struct timeval *ret_tv);
int uuid_type(const uuid_t uu);
int uuid_variant(const uuid_t uu);

#ifdef __cplusplus
}
#endif

#endif /* _UUID_UUID_H */
```

File name: generic_GPLv2

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Version 2, June 1991

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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

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That's all there is to it!

ecryptfs-utils

Package version: 111

Package revision: r0

Package license(s): GPL-2.0

File name: COPYING

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```
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eject

Package version: 2.1.5
Package revision: r1
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File name: generic_GPLv2

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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
under certain conditions; type `show c' for details.
```

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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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elfutils

Package version: 0.166

Package revision: r0

Package license(s): (GPLv3 & Elfutils-Exception)

File name: generic_Elfutils-Exception

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libelf.h
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Version 3, 29 June 2007

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ethtool

Package version: 4.6
Package revision: r0
Package license(s): GPLv2+

File name: generic_GPLv2

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gawk

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Version 3, 29 June 2007

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gcc-cross-arm

Package version: linaro-6.2

Package revision: r2016.11

Package license(s): GPL-3.0-with-GCC-exception & GPLv3

File name: COPYING3

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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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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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  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice
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File name: COPYING.RUNTIME

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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gcc-cross-initial-arm

Package version: linaro-6.2

Package revision: r2016.11

Package license(s): GPL-3.0-with-GCC-exception & GPLv3

File name: COPYING3

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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gcc-runtime

Package version: linaro-6.2

Package revision: r2016.11

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File name: COPYING3

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Package revision: r2014.09

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```
<one line to give the library's name and a brief idea of what it does.>
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necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
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Version 3, 29 June 2007

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gdb-cross-arm

Package version: linaro-7.8

Package revision: r2014.09

Package license(s): GPLv2 & GPLv3 & LGPLv2 & LGPLv3

File name: COPYING3

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```
<one line to give the program's name and a brief idea of what it does.>
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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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```
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`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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Version 3, 29 June 2007

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```
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Version 3, 29 June 2007

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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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That's all there is to it!

gdbm

Package version: 1.12

Package revision: r0

Package license(s): GPLv3

File name: COPYING

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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gettext

Package version: 0.19.8.1

Package revision: r0

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glib-2.0

Package version: 2.48.2

Package revision: r0

Package license(s): LGPLv2+ & BSD & PD

File name: generic_PD

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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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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 compile 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 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 source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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That's all there is to it!

glibc

Package version: 2.24

Package revision: r0

Package license(s): GPLv2 & LGPLv2.1

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the 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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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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glibc-initial

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function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(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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(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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gmp

Package version: 6.1.1

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gnutls

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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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.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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.

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.
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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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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Version 3, 29 June 2007

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```
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Version 2, June 1991

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Version 3, 29 June 2007

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```
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```
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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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hdparm

Package version: 9.48

Package revision: r0

Package license(s): BSD & GPLv2

File name: wiper.sh

```
#!/bin/bash
#
# SATA SSD free-space TRIM utility, by Mark Lord <mlord@pobox.com>

VERSION=3.6

# Copyright (C) 2009-2010 Mark Lord.  All rights reserved.
#
# Contains hfsplus and ntfs code contributed by Heiko Wegeler <heiko.wegeler@googlemail.com>.
# Package sleuthkit version >=3.1.1 is required for HFS+. Package ntfs-3g and ntfsprogs is required for NTFS.
#
# Requires gawk, a really-recent hdparm, and various other programs.
# This needs to be redone entirely in C, for 64-bit math, someday.
#
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# along with this program; if not, write to the Free Software Foundation,
# Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
#
# Note for OCZ Vertex-LE users:  the drive firmware will error when
# attempting to trim the final sector of the drive.  To avoid this,
# partition the drive such that the final sector is not used.

export LANG=C

## The usual terse usage information:
##
function usage_error(){
 echo >&2
 echo "Linux tune-up (TRIM) utility for SATA SSDs"
 echo "Usage:  $0 [--verbose] [--commit] <mount_point|block_device>" >&2
 echo "   Eg:  $0 /dev/sda1" >&2
 echo >&2
 exit 1
}

## Parameter parsing for the main script.
## Yeah, we could use getopt here instead, but what fun would that be?
##

echo
echo "${0##*/}: Linux SATA SSD TRIM utility, version $VERSION, by Mark Lord."

export verbose=0
commit=""
destroy_me=""
argc=$#
arg=""
while [ $argc -gt 0 ]; do
 if [ "$1" = "--commit" ]; then
  commit=yes
 elif [ "$1" = "--please-prematurely-wear-out-my-ssd" ]; then
  destroy_me=yes
 elif [ "$1" = "--verbose" ]; then
  verbose=$((verbose + 1))
 elif [ "$1" = "" ]; then
  usage_error
 else
  if [ "$arg" != "" ]; then
   echo "$1: too many arguments, aborting." >&2
   exit 1
  fi
  arg="$1"
 fi
```

```
 argc=$((argc - 1))
 shift
done
[ "$arg" = "" ] && usage_error

## Find a required program, or else give a nicer error message than we'd otherwise see:
##
function find_prog(){
 prog="$1"
 if [ ! -x "$prog" ]; then
  prog="${prog##*/}"
  p=`type -f -P "$prog" 2>/dev/null`
  if [ "$p" = "" ]; then
   [ "$2" != "quiet" ] && echo "$1: needed but not found, aborting." >&2
   exit 1
  fi
  prog="$p"
  [ $verbose -gt 0 ] && echo "  --> using $prog instead of $1" >&2
 fi
 echo "$prog"
}

## Ensure we have most of the necessary utilities available before trying to proceed:
##
hash -r  ## Refresh bash's cached PATH entries
HDPARM=`find_prog /sbin/hdparm` || exit 1
FIND=`find_prog /usr/bin/find` || exit 1
STAT=`find_prog /usr/bin/stat` || exit 1
GAWK=`find_prog /usr/bin/gawk` || exit 1
BLKID=`find_prog /sbin/blkid` || exit 1
GREP=`find_prog /bin/grep` || exit 1
ID=`find_prog /usr/bin/id` || exit 1
LS=`find_prog /bin/ls`  || exit 1
DF=`find_prog /bin/df`  || exit 1
RM=`find_prog /bin/rm`  || exit 1
STAT=`find_prog /usr/bin/stat` || exit 1

[ $verbose -gt 1 ] && HDPARM="$HDPARM --verbose"

## I suppose this will confuse the three SELinux users out there:
##
if [ `$ID -u` -ne 0 ]; then
 echo "Only the super-user can use this (try \"sudo $0\" instead), aborting." >&2
 exit 1
fi

## We need a very modern hdparm, for its --fallocate and --trim-sector-ranges-stdin flags:
## Version 9.25 added automatic determination of safe max-size of TRIM commands.
##
HDPVER=`$HDPARM -V | $GAWK '{gsub("[^0-9.]","",$2); if ($2 > 0) print ($2 * 100); else print 0; exit(0)}'`
if [ $HDPVER -lt 925 ]; then
 echo "$HDPARM: version >= 9.25 is required, aborting." >&2
 exit 1
fi

## Convert relative path "$1" into an absolute pathname, resolving all symlinks:
##
function get_realpath(){
 iter=0
 p="$1"
 while [ -e "$p" -a $iter -lt 100 ]; do
  ## Strip trailing slashes:
  while [ "$p" != "/" -a "$p" != "${p%%/}" ]; do
   p="${p%%/}"
  done
  ## Split into directory:leaf portions:
  d="${p%/*}"
  t="${p##*/}"
  ## If the split worked, then cd into the directory portion:
  if [ "$d" != "" -a "$d" != "$p" ]; then
   cd -P "$d" || exit
   p="$t"
  fi
  ## If what we have left is a directory, then cd to it and print realpath:
  if [ -d "$p" ]; then
   cd -P "$p" || exit
   pwd -P
   exit
  ## Otherwise if it is a symlink, read the link and loop again:
  elif [ -h "$p" ]; then
   p="`$LS -ld "$p" | awk '{sub("^[^>]*-[>] *","",""); print}'`"
  ## Otherwise, prefix $p with the cwd path and print it:
  elif [ -e "$p" ]; then
```

```
   [ "${p:0:1}" = "/" ] || p="`pwd -P`/$p"
   echo "$p"
   exit
  fi
  iter=$((iter + 1))
 done
}

function get_devpath(){
 dir="$1"
 kdev=`$STAT --format="%04D" "$dir" 2>/dev/null`
 [ "$kdev" = "" ] && exit 1
 major=$((0x${kdev:0:2}))
 minor=$((0x${kdev:2:2}))
 $FIND /dev -xdev -type b -exec $LS -ln {} \; | $GAWK -v major="$major," -v minor="$minor" \
  '($5 == major && $6 == minor){r=$NF}END{print r}'
}

## Convert "$arg" into an absolute pathname target, with no symlinks or embedded blanks:
target="`get_realpath "$arg"`"
if [ "$target" = "" ]; then
 [ "$arg" = "/dev/root" ] && target="`get_devpath /`"
 if [ "$target" = "" ]; then
  echo "$arg: unable to determine full pathname, aborting." >&2
  exit 1
 fi
fi
if [ "$target" != "${target##* }" ]; then
 echo "\"$target\": pathname has embedded blanks, aborting." >&2
 exit 1
fi

## Take a first cut at online/offline determination, based on the target:
##
if [ -d "$target" ]; then
 method=online
elif [ -b "$target" ]; then
 method=offline
else
 echo "$target: not a block device or mount point, aborting." >&2
 exit 1
fi

## Find the active mount-point (fsdir) associated with a device ($1: fsdev).
## This is complicated, and probably still buggy, because a single
## device can show up under *multiple* mount points in /proc/mounts.
##
function get_fsdir(){
 rw=""
 r=""
 while read -a m ; do
  pdev="${m[0]}"
  [ "$pdev" = "$1" ] || pdev="`get_realpath "$pdev"`"
  if [ "$pdev" = "$1" ]; then
   if [ "$rw" != "rw" ]; then
    rw="${m[3]:0:2}"
    r="${m[1]}"
   fi
  fi
  #echo "$pdev ${m[1]} ${m[2]} ${m[3]}"
 done
 echo -n "$r"
}

## Find the device (fsdev) associated with a mount point ($1: fsdir).
## Since mounts can be stacked on top of each other, we return the
## one from the last occurance in the list from /proc/mounts.
##
function get_fsdev(){   ## from fsdir
 get_realpath "`$GAWK -v p="$1" '{if ($2 == p) r=$1} END{print r}' < /proc/mounts`"
}

## Find the r/w or r/o status (fsmode) of a filesystem mount point  ($1: fsdir)
## We get it from the last occurance of the mount point in the list from /proc/mounts,
## and convert it to a longer human-readable string.
##
function get_fsmode(){  ## from fsdir
 mode="`$GAWK -v p="$1" '{if ($2 == p) r=substr($4,1,2)} END{print r}' < /proc/mounts`"
 if [ "$mode" = "ro" ]; then
  echo "read-only"
 elif [ "$mode" = "rw" ]; then
  echo "read-write"
 else
```

```
  echo "$fsdir: unable to determine mount status, aborting." >&2
  exit 1
 fi
}

## Try and determine the device name associated with the root filesystem.
## This is nearly impossible to do in any perfect fashion.
##
## Redhat/Fedora no longer have an rdev command.  Silly them.
## So we now implement it internally, below.
##
## match_rootdev *should* work, but on some distros it may find only "/dev/root",
## and "/dev/root" is not usually a real device.  We leave it like that for now,
## because that's the pattern such systems also use in /proc/mounts.
## Later, at time of use, we'll try harder to find the real rootdev.
##
## FIXME: apparently this doesn't work on SuSE Linux, though.
## So for there, we'll likely need to read /etc/mtab,
## or be a lot more clever and get it somehow from statfs or something.
## FIXME: or use target from /dev/root symlink for Gentoo as well.
##
function match_rootdev() {
 rdev=""
 rdevno="$1"
 while read bdev ; do
  if [ "$rdev" = "" -o "$bdev" != "/dev/root" ]; then
   devno=$($STAT -c "0x%t%02T" "$bdev" 2>/dev/null)
   [ "$devno" = "$rdevno" ] && rdev="$bdev"
  fi
 done
 echo -n "$rdev"
}

rootdev=$($FIND /dev/ -type b 2>/dev/null | match_rootdev $($STAT -c "0x%D" '/'))
[ $verbose -gt 0 ] && echo "rootdev=$rootdev"

## The user gave us a directory (mount point) to TRIM,
## which implies that we will be doing an online TRIM
## using --fallocate and --fibmap to find the free extents.
## Do some preliminary correctness/feasibility checks on fsdir:
##
if [ "$method" = "online" ]; then
 ## Ensure fsdir exists and is accessible to us:
 fsdir="$target"
 cd "$fsdir" || exit 1

 if [ "$fsdir" = "/" ]; then
  fsdev="$rootdev"
 else
  ## Figure out what device holds the filesystem.
  fsdev="`get_fsdev $fsdir`"
  if [ "$fsdev" = "" ]; then
   echo "$fsdir: not found in /proc/mounts, aborting." >&2
   exit 1
  fi
 fi

 ## The root filesystem may show up as the phoney "/dev/root" device
 ## in /proc/mounts (ugh).  So if we see that, then substitute the rootdev
 ## that $DF gave us earlier.  But $DF may have the same problem (double ugh).
 ##
 [ ! -e "$fsdev" -a "$fsdev" = "/dev/root" ] && fsdev="$rootdev"

 ## Ensure that fsdev exists and is a block device:
 if [ ! -e "$fsdev" ]; then
  if [ "$fsdev" != "/dev/root" ]; then
   echo "$fsdev: not found" >&2
   exit 1
  fi
  if [ "$rootdev" = "" ]; then
   echo "$fsdev: not found" >&2
   exit 1
  fi
  fsdev="$rootdev"
 fi
 if [ ! -b "$fsdev" ]; then
  echo "$fsdev: not a block device" >&2
  exit 1
 fi

 ## If it is mounted read-only, we must switch to doing an "offline" trim of fsdev:
 fsmode="`get_fsmode $fsdir`" || exit 1
 [ $verbose -gt 0 ] && echo "fsmode1: fsmode=$fsmode"
```

```
 [ "$fsmode" = "read-only" ] && method=offline
fi

## This is not an "else" clause from the above, because "method" may have changed.
## For offline TRIM, we need the block device, and it cannot be mounted read-write:
##
if [ "$method" = "offline" ]; then
 ## We might already have fsdev/fsdir from above; if not, we need to find them.
 if [ "$fsdev" = "" -o "$fsdir" = "" ]; then
  fsdev="$target"
  fsdir="`get_fsdir "$fsdev" < /proc/mounts`"
  ## More weirdness for /dev/root in /proc/mounts:
  if [ "$fsdir" = "" -a "$fsdev" = "$rootdev" ]; then
   fsdir="`get_fsdir /dev/root < /proc/mounts`"
   if [ "$fsdir" = "" ]; then
    rdev="`get_devpath /`"
    [ "$rdev" != "" ] && fsdir="`get_fsdir "$rdev" < /proc/mounts`"
   fi
  fi
 fi

 ## If the filesystem is truly not-mounted, then fsdir will still be empty here.
 ## It could be mounted, though.  Read-only is fine, but read-write means we need
 ## to switch gears and do an "online" TRIM instead of an "offline" TRIM.
 ##
 if [ "$fsdir" != "" ]; then
  fsmode="`get_fsmode $fsdir`" || exit 1
  [ $verbose -gt 0 ] && echo "fsmode2: fsmode=$fsmode"
  if [ "$fsmode" = "read-write" ]; then
   method=online
   cd "$fsdir" || exit 1
  fi
 fi
fi

## Use $LS to find the major number of a block device:
##
function get_major(){
 $LS -ln "$1" | $GAWK '{print gensub(",","",1,$5)}'
}

## At this point, we have finalized our selection of online vs. offline,
## and we definitely know the fsdev, as well as the fsdir (fsdir="" if not-mounted).
##
## Now guess at the underlying rawdev name, which could be exactly the same as fsdev.
## Then determine whether or not rawdev claims support for TRIM commands.
## Note that some devices lie about support, and later reject the TRIM commands.
##
rawdev=`echo $fsdev | $GAWK '{print gensub("[0-9]*$","","g")}'`
rawdev="`get_realpath "$rawdev"`"
if [ ! -e "$rawdev" ]; then
 rawdev=""
elif [ ! -b "$rawdev" ]; then
 rawdev=""
elif [ "`get_major $fsdev`" -ne "`get_major $rawdev`" ]; then  ## sanity check
 rawdev=""
else
 ## "SCSI" drives only; no LVM confusion for now:
 maj="$(get_major $fsdev)"
 maj_ok=0
 for scsi_major in 8 65 66 67 68 69 70 71 ; do
  [ "$maj" = "$scsi_major" ] && maj_ok=1
 done
 if [ $maj_ok -eq 0 ]; then
  echo "$rawdev: does not appear to be a SCSI/SATA SSD, aborting." >&2
  exit 1
 fi
 if ! $HDPARM -I $rawdev | $GREP -i '[  ][*][  ]*Data Set Management TRIM supported' &>/dev/null ; then
  if [ "$commit" = "yes" ]; then
   echo "$rawdev: DSM/TRIM command not supported, aborting." >&2
   exit 1
  fi
  echo "$rawdev: DSM/TRIM command not supported (continuing with dry-run)." >&2
 fi
fi
if [ "$rawdev" = "" ]; then
 echo "$fsdev: unable to reliably determine the underlying physical device name, aborting" >&2
 exit 1
fi

## We also need to know the offset of fsdev from the beginning of rawdev,
## because TRIM requires absolute sector numbers within rawdev:
##
```

```
fsoffset=`$HDPARM -g "$fsdev" | $GAWK 'END {print $NF}'`

## Next step is to determine what type of filesystem we are dealing with (fstype):
##
if [ "$fsdir" = "" ]; then
 ## Not mounted: use $BLKID to determine the fstype of fsdev:
 fstype=`$BLKID -w /dev/null -c /dev/null $fsdev 2>/dev/null | \
   $GAWK '/ TYPE=".*"/{sub("^.* TYPE=\"",""); sub("[\" ][\" ]*.*$",""); print}'`
 [ $verbose -gt 0 ] && echo "$fsdev: fstype=$fstype"
else
 ## Mounted: we could just use $BLKID here, too, but it's safer to use /proc/mounts directly:
 fstype="`$GAWK -v p="$fsdir" '{if ($2 == p) r=$3} END{print r}' < /proc/mounts`"
 [ $verbose -gt 0 ] && echo "$fsdir: fstype=$fstype"
fi
if [ "$fstype" = "" ]; then
 echo "$fsdev: unable to determine filesystem type, aborting." >&2
 exit 1
fi

## Some helper funcs and vars for use with the xfs filesystem tools:
##
function xfs_abort(){
 echo "$fsdev: unable to determine xfs filesystem ${1-parameters}, aborting." >&2
 exit 1
}
function xfs_trimlist(){
 $XFS_DB -r -c "freesp -d" "$fsdev"  ## couldn't get this to work inline
}
xfs_agoffsets=""
xfs_blksects=0

## We used to allow single-drive btrfs here, but it stopped working in linux-2.6.31,
## and Chris Mason says "unsafe at any speed" really.  So it's been dropped now.
##
if [ "$fstype" = "btrfs" ]; then  ## hdparm --fibmap fails, due to fake 0:xx device nodes
 echo "$target: btrfs filesystem type not supported (cannot determine physical devices), aborting." >&2
 exit 1
fi

## Now figure out whether we can actually do TRIM on this type of filesystem:
##
if [ "$method" = "online" ]; then
 ## Print sensible error messages for some common situations,
 ## rather than failing with more confusing messages later on..
 ##
 if [ "$fstype" = "ext2" -o "$fstype" = "ext3" ]; then  ## No --fallocate support
  echo "$target: cannot TRIM $fstype filesystem when mounted read-write, aborting." >&2
  exit 1
 fi

 ## Figure out if we have enough free space to even attempt TRIM:
 ##
 freesize=`$DF -P -B 1024 . | $GAWK '{r=$4}END{print r}'`
 if [ "$freesize" = "" ]; then
  echo "$fsdev: unknown to '$DF'"
  exit 1
 fi
 if [ $freesize -lt 15000 ]; then
  echo "$target: filesystem too full for TRIM, aborting." >&2
  exit 1
 fi

 ## Figure out how much space to --fallocate (later), keeping in mind
 ## that this is a live filesystem, and we need to leave some space for
 ## other concurrent activities, as well as for filesystem overhead (metadata).
 ## So, reserve at least 1% or 7500 KB, whichever is larger:
 ##
 reserved=$((freesize / 100))
 [ $reserved -lt 7500 ] && reserved=7500
 [ $verbose -gt 0 ] && echo "freesize = ${freesize} KB, reserved = ${reserved} KB"
 tmpsize=$((freesize - reserved))
 tmpfile="WIPER_TMPFILE.$$"
 get_trimlist="$HDPARM --fibmap $tmpfile"
else
 ## We can only do offline TRIM on filesystems that we "know" about here.
 ## Currently, this includes the ext2/3/4 family, xfs, and reiserfs.
 ## The first step for any of these is to ensure that the filesystem is "clean",
 ## and immediately abort if it is not.
 ##
 get_trimlist=""
 if [ "$fstype" = "ext2" -o "$fstype" = "ext3" -o "$fstype" = "ext4" ]; then
  DUMPE2FS=`find_prog /sbin/dumpe2fs` || exit 1
  fstate="`$DUMPE2FS $fsdev 2>/dev/null | $GAWK '/^[Ff]ilesystem state:/{print $NF}' 2>/dev/null`"
```

```
 if [ "$fstate" != "clean" ]; then
  echo "$target: filesystem not clean, please run \"e2fsck $fsdev\" first, aborting." >&2
  exit 1
 fi
 get_trimlist="$DUMPE2FS $fsdev"
elif [ "$fstype" = "xfs" ]; then
 XFS_DB=`find_prog /sbin/xfs_db` || exit 1
 XFS_REPAIR=`find_prog /sbin/xfs_repair` || exit 1
 if ! $XFS_REPAIR -n "$fsdev" &>/dev/null ; then
  echo "$fsdev: filesystem not clean, please run \"xfs_repair $fsdev\" first, aborting." >&2
  exit 1
 fi

 ## For xfs, life is more complex than with ext2/3/4 above.
 ## The $XFS_DB tool does not return absolute block numbers for freespace,
 ## but rather gives them as relative to it's allocation groups (ag's).
 ## So, we'll need to interogate it for the offset of each ag within the filesystem.
 ## The agoffsets are extracted from $XFS_DB as sector offsets within the fsdev.
 ##
 agcount=`$XFS_DB -r -c "sb" -c "print agcount" "$fsdev" | $GAWK '{print 0 + $NF}'`
 [ "$agcount" = "" -o "$agcount" = "0" ] && xfs_abort "agcount"
 xfs_agoffsets=
 i=0
 while [ $i -lt $agcount ]; do
  agoffset=`$XFS_DB -r -c "sb" -c "convert agno $i daddr" "$fsdev" \
   | $GAWK '{print 0 + gensub("[( )]","","g",$2)}'`
  [ "$agoffset" = "" ] && xfs_abort "agoffset-$i"
  [ $i -gt 0 ] && [ $agoffset -le ${xfs_agoffsets##* } ] && xfs_abort "agoffset[$i]"
  xfs_agoffsets="$xfs_agoffsets $agoffset"
  i=$((i + 1))
 done
 xfs_agoffsets="${xfs_agoffsets:1}" ## strip leading space

 ## We also need xfs_blksects for later, because freespace gets listed as block numbers.
 ##
 blksize=`$XFS_DB -r -c "sb" -c "print blocksize" "$fsdev" | $GAWK '{print 0 + $NF}'`
 [ "$blksize" = "" -o "$blksize" = "0" ] && xfs_abort "block size"
 xfs_blksects=$((blksize/512))
 get_trimlist="xfs_trimlist"
elif [ "$fstype" = "reiserfs" ]; then
 DEBUGREISERFS=`find_prog /sbin/debugreiserfs` || exit 1
 ( $DEBUGREISERFS $fsdev | $GREP '^Filesystem state:.consistent' ) &> /dev/null
 if [ $? -ne 0 ]; then
  echo "Please run fsck.reiserfs first, aborting." >&2
  exit 1
 fi
 get_trimlist="$DEBUGREISERFS -m $fsdev"
elif [ "$fstype" = "hfsplus" ]; then
 OD=`find_prog /usr/bin/od` || exit 1
 TR=`find_prog /usr/bin/tr` || exit 1
 #check sleuthkit
 FSSTAT=`find_prog /usr/local/bin/fsstat`
 if [ "$?" = "1" ]; then
  echo "fsstat and icat from package sleuthkit >= 3.1.1 is required for hfsplus."
  exit 1
 fi
 ICAT=`find_prog /usr/local/bin/icat`
 if [ "`$ICAT -f list 2>/dev/stdout|$GREP HFS+`" = "" ]; then
                 echo "Wrong icat, version from package sleuthkit >= 3.1.1 is required for hfsplus."
                 exit 1
            fi
 #check for unmounted properly
 if [ "`$FSSTAT -f hfs $fsdev | $GREP "Volume Unmounted Properly"`" = ""  ]; then
  echo "Hfsplus volume unmounted improperly!"
  exit 1
 fi
 #check $AllocationFile inode
 FFIND=`find_prog /usr/local/bin/ffind`
 if [ "`$FFIND -f hfs $fsdev 6`" != "/\$AllocationFile" ]; then
  echo "Hfsplus bitmap \$AllocationFile is not inode 6!"
  exit 1
 fi
 #get offset for hfsplus with a wrapper
 hfsoffset=`$FSSTAT -f hfs $fsdev | $GREP "File system is embedded in an HFS wrapper at offset "|$TR -d "\t"`
 if [ -n "$hfsoffset" ]; then
  hfsoffset=${hfsoffset:52}
  ((fsoffset=fsoffset+hfsoffset))
  echo "File system is embedded in an HFS wrapper at offset $hfsoffset"
 fi
 blksize=`$FSSTAT -f hfs $fsdev | $GREP "Allocation Block Size: "|$TR -d "\t"`
 blksize=${blksize:23}
 blksects=$((blksize / 512))
 #get count of used bytes in $AllocationFile
```

```
  blkcount=`$FSSTAT -f hfs $fsdev | $GREP "Block Range: 0 - "`
  blkcount=${blkcount:17}
  bytecount=$((blkcount/blksects))

  method="bitmap_offline"
  get_trimlist="echo $blksects hfsplus `$ICAT -f hfs $fsdev 6 | $OD -N $bytecount -An -vtu1 -j0 -w1`"
 elif [ "$fstype" = "ntfs" ]; then
  NTFSINFO=`find_prog /usr/bin/ntfsinfo` || exit 1
  NTFSCAT=`find_prog /usr/bin/ntfscat` || exit 1
  NTFSPROBE=`find_prog /usr/bin/ntfs-3g.probe` || exit 1
  OD=`find_prog /usr/bin/od` || exit 1
  TR=`find_prog /usr/bin/tr` || exit 1
  #check for unmounted properly
  $NTFSPROBE -w $fsdev 2>/dev/null
  if [ $? -ne 0 ]; then
   echo "$fsdev contains an unclean file system!"
   exit 1
  fi
  #check for volume version
  if [ "`$NTFSINFO -m -f $fsdev | $GREP "Volume Version: 3.1"`" = "" ]; then
   echo "NTFS volume version must be 3.1!"
   exit 1
  fi
  blksize=`$NTFSINFO -m -f $fsdev | $GREP "Cluster Size: " | $TR -d "\t"`
  blksize=${blksize:14}
  blksects=$((blksize / 512))
  #get count of used bytes in $Bitmap
  blkcount=`$NTFSINFO -m -f $fsdev | $GREP "Volume Size in Clusters: " | $TR -d "\t"`
  blkcount=${blkcount:25}
  bytecount=$((blkcount/blksects))

  method="bitmap_offline"
  get_trimlist="echo $blksects ntfs `$NTFSCAT $fsdev \\\$Bitmap | $OD -N $bytecount -An -vtu1 -j0 -w1`"
 fi
 if [ "$get_trimlist" = "" ]; then
  echo "$target: offline TRIM not supported for $fstype filesystems, aborting." >&2
  exit 1
 fi
fi

## All ready.  Now let the user know exactly what we intend to do:
##
mountstatus="$fstype non-mounted"
[ "$fsdir" = "" ] || mountstatus="$fstype mounted $fsmode at $fsdir"
echo "Preparing for $method TRIM of free space on $fsdev ($mountstatus)."

## If they specified "--commit" on the command line, then prompt for confirmation first:
##
if [ "$commit" = "yes" ]; then
 if [ "$destroy_me" = "" ]; then
  echo >/dev/tty
  echo -n "This operation could silently destroy your data.  Are you sure (y/N)? " >/dev/tty
  read yn < /dev/tty
  if [ "$yn" != "y" -a "$yn" != "Y" ]; then
   echo "Aborting." >&2
   exit 1
  fi
 fi
 TRIM="$HDPARM --please-destroy-my-drive --trim-sector-ranges-stdin $rawdev"
else
 echo "This will be a DRY-RUN only.  Use --commit to do it for real."
 TRIM="$GAWK {}"
fi

## Useful in a few places later on:
##
function sync_disks(){
 echo -n "Syncing disks.. "
 sync
 echo
}

## Clean up tmpfile (if any) and exit:
##
function do_cleanup(){
 if [ "$method" = "online" ]; then
  if [ -e $tmpfile ]; then
   echo "Removing temporary file.."
   $RM -f $tmpfile
  fi
  sync_disks
 fi
 [ $1 -eq 0 ] && echo "Done."
```

```
 [ $1 -eq 0 ] || echo "Aborted." >&2
 exit $1
}

## Prepare signal handling, in case we get interrupted while $tmpfile exists:
##
function do_abort(){
 echo
 do_cleanup 1
}
trap do_abort SIGTERM
trap do_abort SIGQUIT
trap do_abort SIGINT
trap do_abort SIGHUP
trap do_abort SIGPIPE

## For online TRIM, go ahead and create the huge temporary file.
## This is where we finally discover whether the filesystem actually
## supports --fallocate or not.  Some folks will be disappointed here.
##
## Note that --fallocate does not actually write any file data to fsdev,
## but rather simply allocates formerly-free space to the tmpfile.
##
if [ "$method" = "online" ]; then
 if [ -e "$tmpfile" ]; then
  if ! $RM -f "$tmpfile" ; then
   echo "$tmpfile: already exists and could not be removed, aborting." >&2
   exit 1
  fi
 fi
 echo -n "Allocating temporary file (${tmpsize} KB).. "
 if ! $HDPARM --fallocate "${tmpsize}" $tmpfile ; then
  echo "$target: this kernel may not support 'fallocate' on a $fstype filesystem, aborting." >&2
  exit 1
 fi
 echo
fi

## Finally, we are now ready to TRIM something!
##
## Feed the "get_trimlist" output into a gawk program which will
## extract the trimable lba-ranges (extents) and batch them together
## into huge --trim-sector-ranges calls.
##
## We are limited by at least one thing when doing this:
##   1. Some device drivers may not support more than 255 sectors
##      full of lba:count range data per TRIM command.
## The latest hdparm versions now take care of that automatically.
##
sync_disks
if [ "$commit" = "yes" ]; then
 echo "Beginning TRIM operations.."
else
 echo "Simulating TRIM operations.."
fi
[ $verbose -gt 0 ] && echo "get_trimlist=$get_trimlist"

## Begin gawk program
GAWKPROG='
 BEGIN {
  if (xfs_agoffsets != "") {
   method = "xfs_offline"
   agcount = split(xfs_agoffsets,agoffset," ");
  }
 }
 function append_range (lba,count  ,this_count){
  nsectors += count;
  while (count > 0) {
   this_count  = (count > 65535) ? 65535 : count
   printf "%u:%u ", lba, this_count
   if (verbose > 1)
    printf "%u:%u ", lba, this_count > "/dev/stderr"
   lba        += this_count
   count       -= this_count
   nranges++;
  }
 }
 (method == "online") { ## Output from "hdparm --fibmap", in absolute sectors:
  if (NF == 4 && $2 ~ "^[1-9][0-9]*$")
   append_range($2,$4)
  next
 }
 (method == "xfs_offline") { ## Output from xfs_db:
```

```
 if (NF == 3 && gensub("[0-9 ]","","g",$0) == "" && $1 < agcount) {
  lba   = agoffset[1 + $1] + ($2 * xfs_blksects) + fsoffset
  count = $3 * xfs_blksects
  append_range(lba,count)
 }
 next
}
(method == "bitmap_offline") {
 n = split($0,f)
 blksects = f[1]
 fstype = f[2]
 bitmap_start = 3
 range_first = -1 #clusters
 range_last = -1
 for (i = bitmap_start; i <= n-1; i++) {
  if (f[i] == 0) {
   if (range_first == -1)
    range_first = (i-bitmap_start) * 8
   range_last = (i-bitmap_start) * 8 + 7
  } else if (f[i] == 255 && range_first > -1){
   #printf range_first "-" range_last "\n" > "/dev/stderr"
   lba = (range_first * blksects) + fsoffset
   count = (range_last - range_first + 1) * blksects
   append_range(lba,count)
   range_first = -1
   range_last = -1
  } else {
   for (b = 0; b < 8; b++) {
    if (fstype == "ntfs")
     bit = and(f[i], lshift(1, b)) ? 1 : 0
    else #hfsplus
     bit = and(f[i], lshift(1, 7-b)) ? 1 : 0
    if (bit == 0) {
     if (range_first == -1) {
      range_first = (i-bitmap_start) * 8 + b
      range_last = (i-bitmap_start) * 8 + b
     } else
      range_last += 1
    } else if (range_first > -1) {
     #printf range_first "-" range_last " " > "/dev/stderr"
     lba = (range_first * blksects) + fsoffset
     count = (range_last - range_first + 1) * blksects
     if (fstype == "ntfs")
      append_range(lba,count)
     else if (count > (2 * blksects)) #faster for hfsplus
      append_range(lba,count)
     range_first = -1
     range_last = -1
    }
   }
  }
 }
 if (range_first > -1){
  #printf range_first "-" range_last " " > "/dev/stderr"
  lba = (range_first * blksects) + fsoffset
  count = (range_last - range_first + 1) * blksects
  append_range(lba,count)
 }
 next
}
/^Block size: *[1-9]/ { ## First stage output from dumpe2fs:
 blksects = $NF / 512
 next
}
/^Group [0-9][0-9]*:/ { ## Second stage output from dumpe2fs:
 in_groups = 1
 next
}
/^ *Free blocks: [0-9]/ { ## Bulk of output from dumpe2fs:
 if (blksects && in_groups) {
  n = split(substr($0,16),f,",",*  *")
  for (i = 1; i <= n; ++i) {
   if (f[i] ~ "^[1-9][0-9]*-[1-9][0-9]*$") {
    split(f[i],b,"-")
    lba   = (b[1] * blksects) + fsoffset
    count = (b[2] - b[1] + 1) * blksects
    append_range(lba,count)
   } else if (f[i] ~ "^[1-9][0-9]*$") {
    lba   = (f[i] * blksects) + fsoffset
    count = blksects
    append_range(lba,count)
   }
  }
```

```
  next
 }
}
/^Reiserfs super block/ {
 method = "reiserfs"
 next
}
/^Blocksize: / {
 if (method == "reiserfs") {
  blksects = $2 / 512
  next
 }
}
/^#[0-9][0-9]*:.*Free[(]/ { ## debugreiserfs
 if (method == "reiserfs" && blksects > 0) {
  n = split($0,f)
  for (i = 4; i <= n; ++i) {
   if (f[i] ~ "^ *Free[(]") {
    if (2 == split(gensub("[^-0-9]","","g",f[i]),b,"-")) {
     lba = (b[1] * blksects) + fsoffset
     count = (b[2] - b[1] + 1) * blksects
     append_range(lba, count)
    }
   }
  }
  next
 }
}
END {
 if (err == 0 && commit != "yes")
  printf "(dry-run) trimming %u sectors from %u ranges\n", nsectors, nranges > "/dev/stderr"
 exit err
}'
## End gawk program

$get_trimlist 2>/dev/null | $GAWK  \
 -v commit="$commit"   \
 -v method="$method"   \
 -v rawdev="$rawdev"   \
 -v fsoffset="$fsoffset"   \
 -v verbose="$verbose"   \
 -v xfs_blksects="$xfs_blksects"  \
 -v xfs_agoffsets="$xfs_agoffsets" \
 "$GAWKPROG" | $TRIM

do_cleanup $?
```

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Package revision: r0
Package license(s): GPLv2

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```
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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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i2c-tools

Package version: 3.1.2
Package revision: r0
Package license(s): GPLv2+

File name: generic_GPLv2

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Version 2, June 1991

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inputproto

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Package revision: r0
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iperf

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iproute2

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iptables

Package version: 1.6.0
Package revision: r0
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File name: generic_GPLv2

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iw

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kbd

Package version: 2.0.3
Package revision: r0
Package license(s): GPLv2+

File name: generic_GPLv2

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kbproto

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keyutils

Package version: 1.5.10
Package revision: r0
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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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kmod

Package version: 23+gitAUTOINC+65a885df5f
Package revision: r0
Package license(s): GPL-2.0+ & LGPL-2.1+

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```

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File name: generic_LGPL-2.1

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Also add information on how to contact you by electronic and paper mail.

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```
<program>  Copyright (C) <year>  <name of author>
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```

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Version 3, 29 June 2007

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libaio

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Version 2.1, February 1999

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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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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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libcap

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libcgroup

Package version: 0.41
Package revision: r0
Package license(s): LGPLv2.1

File name: generic_LGPLv2.1

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Version 2.1, February 1999

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(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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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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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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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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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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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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.

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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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libdaemon

Package version: 0.14

Package revision: r0

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Package version: 2.0.22

Package revision: r0

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Package version: 3.2.1
Package revision: r0
Package license(s): MIT

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libgcc

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Package revision: r2016.11

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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libgcc-initial

Package version: linaro-6.2

Package revision: r2016.11

Package license(s): GPL-3.0-with-GCC-exception

File name: COPYING3

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File name: COPYING.RUNTIME

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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libgcrypt

Package version: 1.7.3

Package revision: r0

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libgpg-error

Package version: 1.24

Package revision: r0

Package license(s): GPLv2+ & LGPLv2.1+

File name: COPYING.LIB

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 *
 * You should have received a copy of the GNU Lesser General Public
 * License along with this program; if not, see <https://www.gnu.org/licenses/>.
 *
 * @configure_input@
 */

#ifndef GPG_ERROR_H
#define GPG_ERROR_H 1

#include <stddef.h>
#include <stdio.h>
#include <stdarg.h>

/* The version string of this header. */
#define GPG_ERROR_VERSION @version@
#define GPGRT_VERSION     @version@

/* The version number of this header. */
#define GPG_ERROR_VERSION_NUMBER @version-number@
#define GPGRT_VERSION_NUMBER     @version-number@


#ifdef __GNUC__
# define GPG_ERR_INLINE __inline__
#elif defined(_MSC_VER) && _MSC_VER >= 1300
# define GPG_ERR_INLINE __inline
#elif defined (__STDC_VERSION__) && __STDC_VERSION__ >= 199901L
# define GPG_ERR_INLINE inline
#else
# ifndef GPG_ERR_INLINE
#  define GPG_ERR_INLINE
# endif
#endif

#ifdef __cplusplus
extern "C" {
#if 0 /* just to make Emacs auto-indent happy */
}
#endif
#endif /* __cplusplus */

/* The GnuPG project consists of many components.  Error codes are
   exchanged between all components.  The common error codes and their
   user-presentable descriptions are kept into a shared library to
   allow adding new error codes and components without recompiling any
   of the other components.  The interface will not change in a
   backward incompatible way.

   An error code together with an error source build up an error
   value.  As the error value is been passed from one component to
   another, it preserver the information about the source and nature
   of the error.

   A component of the GnuPG project can define the following macros to
   tune the behaviour of the library:

   GPG_ERR_SOURCE_DEFAULT: Define to an error source of type
   gpg_err_source_t to make that source the default for gpg_error().
   Otherwise GPG_ERR_SOURCE_UNKNOWN is used as default.

   GPG_ERR_ENABLE_GETTEXT_MACROS: Define to provide macros to map the
   internal gettext API to standard names.  This has only an effect on
   Windows platforms.

   GPGRT_ENABLE_ES_MACROS: Define to provide "es_" macros for the
   estream functions.

   In addition to the error codes, Libgpg-error also provides a set of
   functions used by most GnuPG components.  */


/* The error source type gpg_err_source_t.

   Where as the Poo out of a welle small
   Taketh his firste springing and his sours.
```

```
    --Chaucer.  */

/* Only use free slots, never change or reorder the existing
   entries.  */
typedef enum
  {
@include:err-sources@
    /* This is one more than the largest allowed entry.  */
    GPG_ERR_SOURCE_DIM = 128
  } gpg_err_source_t;


/* The error code type gpg_err_code_t.  */

/* Only use free slots, never change or reorder the existing
   entries.  */
typedef enum
  {
@include:err-codes@
    /* The following error codes are used to map system errors.  */
#define GPG_ERR_SYSTEM_ERROR (1 << 15)
@include:errnos@
    /* This is one more than the largest allowed entry.  */
    GPG_ERR_CODE_DIM = 65536
  } gpg_err_code_t;


/* The error value type gpg_error_t.  */

/* We would really like to use bit-fields in a struct, but using
   structs as return values can cause binary compatibility issues, in
   particular if you want to do it efficiently (also see
   -freg-struct-return option to GCC).  */
typedef unsigned int gpg_error_t;

/* We use the lowest 16 bits of gpg_error_t for error codes.  The 16th
   bit indicates system errors.  */
#define GPG_ERR_CODE_MASK (GPG_ERR_CODE_DIM - 1)

/* Bits 17 to 24 are reserved.  */

/* We use the upper 7 bits of gpg_error_t for error sources.  */
#define GPG_ERR_SOURCE_MASK (GPG_ERR_SOURCE_DIM - 1)
#define GPG_ERR_SOURCE_SHIFT 24

/* The highest bit is reserved.  It shouldn't be used to prevent
   potential negative numbers when transmitting error values as
   text.  */


/* GCC feature test.  */
#if __GNUC__
# define _GPG_ERR_GCC_VERSION (__GNUC__ * 10000 \
                               + __GNUC_MINOR__ * 100 \
                               + __GNUC_PATCHLEVEL__)
#else
# define _GPG_ERR_GCC_VERSION 0
#endif

#undef _GPG_ERR_HAVE_CONSTRUCTOR
#if _GPG_ERR_GCC_VERSION > 30100
# define _GPG_ERR_CONSTRUCTOR __attribute__ ((__constructor__))
# define _GPG_ERR_HAVE_CONSTRUCTOR
#else
# define _GPG_ERR_CONSTRUCTOR
#endif

#define GPGRT_GCC_VERSION  _GCC_ERR_GCC_VERSION

#if _GPG_ERR_GCC_VERSION >= 29200
# define _GPGRT__RESTRICT __restrict__
#else
# define _GPGRT__RESTRICT
#endif

/* The noreturn attribute.  */
#if _GPG_ERR_GCC_VERSION >= 20500
# define GPGRT_ATTR_NORETURN   __attribute__ ((noreturn))
#else
# define GPGRT_ATTR_NORETURN
#endif

/* The printf attributes.  */
```

```
#if _GPG_ERR_GCC_VERSION >= 40400
# define GPGRT_ATTR_PRINTF(f, a) \
                __attribute__ ((format(__gnu_printf__,f,a)))
# define GPGRT_ATTR_NR_PRINTF(f, a) \
                __attribute__ ((noreturn, format(__gnu_printf__,f,a)))
#elif _GPG_ERR_GCC_VERSION >= 20500
# define GPGRT_ATTR_PRINTF(f, a) \
                __attribute__ ((format(printf,f,a)))
# define GPGRT_ATTR_NR_PRINTF(f, a) \
                __attribute__ ((noreturn, format(printf,f,a)))
#else
# define GPGRT_ATTR_PRINTF(f, a)
# define GPGRT_ATTR_NR_PRINTF(f, a)
#endif
#if _GPG_ERR_GCC_VERSION >= 20800
# define GPGRT_ATTR_FORMAT_ARG(a)  __attribute__ ((__format_arg__ (a)))
#else
# define GPGRT_ATTR_FORMAT_ARG(a)
#endif

/* The sentinel attribute.  */
#if _GPG_ERR_GCC_VERSION >= 40000
# define GPGRT_ATTR_SENTINEL(a)  __attribute__ ((sentinel(a)))
#else
# define GPGRT_ATTR_SENTINEL(a)
#endif

/* The used and unused attributes.
   I am not sure since when the unused attribute is really supported.
   In any case it it only needed for gcc versions which print a
   warning.  Thus let us require gcc >= 3.5.  */
#if _GPG_ERR_GCC_VERSION >= 40000
# define GPGRT_ATTR_USED  __attribute__ ((used))
#else
# define GPGRT_ATTR_USED
#endif
#if _GPG_ERR_GCC_VERSION >= 30500
# define GPGRT_ATTR_UNUSED  __attribute__ ((unused))
#else
# define GPGRT_ATTR_UNUSED
#endif

/* The deprecated attribute.  */
#if _GPG_ERR_GCC_VERSION >= 30100
# define GPGRT_ATTR_DEPRECATED  __attribute__ ((__deprecated__))
#else
# define GPGRT_ATTR_DEPRECATED
#endif

/* The pure attribute.  */
#if _GPG_ERR_GCC_VERSION >= 29600
# define GPGRT_ATTR_PURE  __attribute__ ((__pure__))
#else
# define GPGRT_ATTR_PURE
#endif

/* The malloc attribute.  */
#if _GPG_ERR_GCC_VERSION >= 30200
# define GPGRT_ATTR_MALLOC  __attribute__ ((__malloc__))
#else
# define GPGRT_ATTR_MALLOC
#endif

/* A macro defined if a GCC style __FUNCTION__ macro is available.  */
#undef GPGRT_HAVE_MACRO_FUNCTION
#if _GPG_ERR_GCC_VERSION >= 20500
# define GPGRT_HAVE_MACRO_FUNCTION 1
#endif

/* A macro defined if the pragma GCC push_options is available.  */
#undef GPGRT_HAVE_PRAGMA_GCC_PUSH
#if _GPG_ERR_GCC_VERSION >= 40400
# define GPGRT_HAVE_PRAGMA_GCC_PUSH 1
#endif

/* Detect LeakSanitizer (LSan) support for GCC and Clang based on
 * whether AddressSanitizer (ASAN) is enabled via -fsanitize=address).
 * Note that -fsanitize=leak just affect the linker options which
 * cannot be detected here.  In that case you have to define the
 * GPGRT_HAVE_LEAK_SANITIZER macro manually.  */
#ifdef __GNUC__
# ifdef __SANITIZE_ADDRESS__
#  define GPGRT_HAVE_LEAK_SANITIZER
```

```
# elif defined(__has_feature)
#  if __has_feature(address_sanitizer)
#   define GPGRT_HAVE_LEAK_SANITIZER
#  endif
# endif
#endif


/* The new name for the inline macro.  */
#define GPGRT_INLINE GPG_ERR_INLINE

#ifdef GPGRT_HAVE_LEAK_SANITIZER
# include <sanitizer/lsan_interface.h>
#endif

/* Mark heap objects as non-leaked memory. */
static GPGRT_INLINE void
gpgrt_annotate_leaked_object (const void *p)
{
#ifdef GPGRT_HAVE_LEAK_SANITIZER
  __lsan_ignore_object(p);
#else
  (void)p;
#endif
}


/* Initialization function.  */

/* Initialize the library.  This function should be run early.  */
gpg_error_t gpg_err_init (void) _GPG_ERR_CONSTRUCTOR;

/* If this is defined, the library is already initialized by the
   constructor and does not need to be initialized explicitely.  */
#undef GPG_ERR_INITIALIZED
#ifdef _GPG_ERR_HAVE_CONSTRUCTOR
# define GPG_ERR_INITIALIZED 1
# define gpgrt_init() do { gpg_err_init (); } while (0)
#else
# define gpgrt_init() do { ; } while (0)
#endif

/* See the source on how to use the deinit function; it is usually not
   required.  */
void gpg_err_deinit (int mode);

/* Register blocking system I/O clamping functions.  */
void gpgrt_set_syscall_clamp (void (*pre)(void), void (*post)(void));

/* Register a custom malloc/realloc/free function.  */
void gpgrt_set_alloc_func  (void *(*f)(void *a, size_t n));



/* Constructor and accessor functions.  */

/* Construct an error value from an error code and source.  Within a
   subsystem, use gpg_error.  */
static GPG_ERR_INLINE gpg_error_t
gpg_err_make (gpg_err_source_t source, gpg_err_code_t code)
{
  return code == GPG_ERR_NO_ERROR ? GPG_ERR_NO_ERROR
    : (((source & GPG_ERR_SOURCE_MASK) << GPG_ERR_SOURCE_SHIFT)
       | (code & GPG_ERR_CODE_MASK));
}


/* The user should define GPG_ERR_SOURCE_DEFAULT before including this
   file to specify a default source for gpg_error.  */
#ifndef GPG_ERR_SOURCE_DEFAULT
#define GPG_ERR_SOURCE_DEFAULT GPG_ERR_SOURCE_UNKNOWN
#endif

static GPG_ERR_INLINE gpg_error_t
gpg_error (gpg_err_code_t code)
{
  return gpg_err_make (GPG_ERR_SOURCE_DEFAULT, code);
}


/* Retrieve the error code from an error value.  */
static GPG_ERR_INLINE gpg_err_code_t
gpg_err_code (gpg_error_t err)
```

```
{
  return (gpg_err_code_t) (err & GPG_ERR_CODE_MASK);
}


/* Retrieve the error source from an error value.  */
static GPG_ERR_INLINE gpg_err_source_t
gpg_err_source (gpg_error_t err)
{
  return (gpg_err_source_t) ((err >> GPG_ERR_SOURCE_SHIFT)
        & GPG_ERR_SOURCE_MASK);
}


/* String functions.  */

/* Return a pointer to a string containing a description of the error
   code in the error value ERR.  This function is not thread-safe.  */
const char *gpg_strerror (gpg_error_t err);

/* Return the error string for ERR in the user-supplied buffer BUF of
   size BUFLEN.  This function is, in contrast to gpg_strerror,
   thread-safe if a thread-safe strerror_r() function is provided by
   the system.  If the function succeeds, 0 is returned and BUF
   contains the string describing the error.  If the buffer was not
   large enough, ERANGE is returned and BUF contains as much of the
   beginning of the error string as fits into the buffer.  */
int gpg_strerror_r (gpg_error_t err, char *buf, size_t buflen);

/* Return a pointer to a string containing a description of the error
   source in the error value ERR.  */
const char *gpg_strsource (gpg_error_t err);


/* Mapping of system errors (errno).  */

/* Retrieve the error code for the system error ERR.  This returns
   GPG_ERR_UNKNOWN_ERRNO if the system error is not mapped (report
   this). */
gpg_err_code_t gpg_err_code_from_errno (int err);


/* Retrieve the system error for the error code CODE.  This returns 0
   if CODE is not a system error code.  */
int gpg_err_code_to_errno (gpg_err_code_t code);


/* Retrieve the error code directly from the ERRNO variable.  This
   returns GPG_ERR_UNKNOWN_ERRNO if the system error is not mapped
   (report this) and GPG_ERR_MISSING_ERRNO if ERRNO has the value 0. */
gpg_err_code_t gpg_err_code_from_syserror (void);


/* Set the ERRNO variable.  This function is the preferred way to set
   ERRNO due to peculiarities on WindowsCE.  */
void gpg_err_set_errno (int err);

/* Return or check the version.  Both functions are identical.  */
const char *gpgrt_check_version (const char *req_version);
const char *gpg_error_check_version (const char *req_version);

/* System specific type definitions.  */
@define:gpgrt_ssize_t@
@define:gpgrt_off_t@

@include:os-add@

/* Self-documenting convenience functions.  */

static GPG_ERR_INLINE gpg_error_t
gpg_err_make_from_errno (gpg_err_source_t source, int err)
{
  return gpg_err_make (source, gpg_err_code_from_errno (err));
}


static GPG_ERR_INLINE gpg_error_t
gpg_error_from_errno (int err)
{
  return gpg_error (gpg_err_code_from_errno (err));
}

static GPG_ERR_INLINE gpg_error_t
```

```
gpg_error_from_syserror (void)
{
  return gpg_error (gpg_err_code_from_syserror ());
}



/* Lock functions.  */

@include:lock-obj@

#define GPGRT_LOCK_DEFINE(name) \
  static gpgrt_lock_t name  = GPGRT_LOCK_INITIALIZER

/* NB: If GPGRT_LOCK_DEFINE is not used, zero out the lock variable
   before passing it to gpgrt_lock_init.  */
gpg_err_code_t gpgrt_lock_init (gpgrt_lock_t *lockhd);
gpg_err_code_t gpgrt_lock_lock (gpgrt_lock_t *lockhd);
gpg_err_code_t gpgrt_lock_trylock (gpgrt_lock_t *lockhd);
gpg_err_code_t gpgrt_lock_unlock (gpgrt_lock_t *lockhd);
gpg_err_code_t gpgrt_lock_destroy (gpgrt_lock_t *lockhd);



/* Thread functions.  */

gpg_err_code_t gpgrt_yield (void);



/* Estream */

/* The definition of this struct is entirely private.  You must not
   use it for anything.  It is only here so some functions can be
   implemented as macros.  */
struct _gpgrt_stream_internal;
struct _gpgrt__stream
{
  /* The layout of this struct must never change.  It may be grown,
     but only if all functions which access the new members are
     versioned.  */

  /* Various flags.  */
  struct {
    unsigned int magic: 16;
    unsigned int writing: 1;
    unsigned int reserved: 15;
  } flags;

  /* A pointer to the stream buffer.  */
  unsigned char *buffer;

  /* The size of the buffer in bytes.  */
  size_t buffer_size;

  /* The length of the usable data in the buffer, only valid when in
     read mode (see flags).  */
  size_t data_len;

  /* The current position of the offset pointer, valid in read and
     write mode.  */
  size_t data_offset;

  size_t data_flushed;
  unsigned char *unread_buffer;
  size_t unread_buffer_size;

  /* The number of unread bytes.  */
  size_t unread_data_len;

  /* A pointer to our internal data for this stream.  */
  struct _gpgrt_stream_internal *intern;
};

/* The opaque type for an estream.  */
typedef struct _gpgrt__stream *gpgrt_stream_t;
#ifdef GPGRT_ENABLE_ES_MACROS
typedef struct _gpgrt__stream *estream_t;
#endif

typedef @api_ssize_t@ (*gpgrt_cookie_read_function_t) (void *cookie,
                                                       void *buffer, size_t size);
```

```
typedef @api_ssize_t@ (*gpgrt_cookie_write_function_t) (void *cookie,
                                                        const void *buffer,
                                                        size_t size);
typedef int (*gpgrt_cookie_seek_function_t) (void *cookie,
                                             gpgrt_off_t *pos, int whence);
typedef int (*gpgrt_cookie_close_function_t) (void *cookie);

struct _gpgrt_cookie_io_functions
{
  gpgrt_cookie_read_function_t func_read;
  gpgrt_cookie_write_function_t func_write;
  gpgrt_cookie_seek_function_t func_seek;
  gpgrt_cookie_close_function_t func_close;
};
typedef struct _gpgrt_cookie_io_functions gpgrt_cookie_io_functions_t;
#ifdef GPGRT_ENABLE_ES_MACROS
typedef struct _gpgrt_cookie_io_functions  es_cookie_io_functions_t;
#define es_cookie_read_function_t  gpgrt_cookie_read_function_t
#define es_cookie_write_function_t gpgrt_cookie_read_function_t
#define es_cookie_seek_function_t  gpgrt_cookie_read_function_t
#define es_cookie_close_function_t gpgrt_cookie_read_function_t
#endif

enum gpgrt_syshd_types
  {
    GPGRT_SYSHD_NONE = 0,  /* No system handle available.                  */
    GPGRT_SYSHD_FD = 1,    /* A file descriptor as returned by open().     */
    GPGRT_SYSHD_SOCK = 2,  /* A socket as returned by socket().            */
    GPGRT_SYSHD_RVID = 3,  /* A rendezvous id (see libassuan's gpgcedev.c).  */
    GPGRT_SYSHD_HANDLE = 4 /* A HANDLE object (Windows).                   */
  };

struct _gpgrt_syshd
{
  enum gpgrt_syshd_types type;
  union {
    int fd;
    int sock;
    int rvid;
    void *handle;
  } u;
};
typedef struct _gpgrt_syshd gpgrt_syshd_t;
#ifdef GPGRT_ENABLE_ES_MACROS
typedef struct _gpgrt_syshd es_syshd_t;
#define ES_SYSHD_NONE   GPGRT_SYSHD_NONE
#define ES_SYSHD_FD     GPGRT_SYSHD_FD
#define ES_SYSHD_SOCK   GPGRT_SYSHD_SOCK
#define ES_SYSHD_RVID   GPGRT_SYSHD_RVID
#define ES_SYSHD_HANDLE GPGRT_SYSHD_HANDLE
#endif

/* The object used with gpgrt_poll.  */
struct _gpgrt_poll_s
{
  gpgrt_stream_t stream;
  unsigned int want_read:1;
  unsigned int want_write:1;
  unsigned int want_oob:1;
  unsigned int want_rdhup:1;
  unsigned int _reserv1:4;
  unsigned int got_read:1;
  unsigned int got_write:1;
  unsigned int got_oob:1;
  unsigned int got_rdhup:1;
  unsigned int _reserv2:4;
  unsigned int got_err:1;
  unsigned int got_hup:1;
  unsigned int got_nval:1;
  unsigned int _reserv3:4;
  unsigned int ignore:1;
  unsigned int user:8;       /* For application use.  */
};
typedef struct _gpgrt_poll_s gpgrt_poll_t;
#ifdef GPGRT_ENABLE_ES_MACROS
typedef struct _gpgrt_poll_s es_poll_t;
#endif

gpgrt_stream_t gpgrt_fopen (const char *_GPGRT__RESTRICT path,
                            const char *_GPGRT__RESTRICT mode);
gpgrt_stream_t gpgrt_mopen (void *_GPGRT__RESTRICT data,
                            size_t data_n, size_t data_len,
                            unsigned int grow,
```

```
                        void *(*func_realloc) (void *mem, size_t size),
                        void (*func_free) (void *mem),
                        const char *_GPGRT__RESTRICT mode);
gpgrt_stream_t gpgrt_fopenmem (size_t memlimit,
                          const char *_GPGRT__RESTRICT mode);
gpgrt_stream_t gpgrt_fopenmem_init (size_t memlimit,
                              const char *_GPGRT__RESTRICT mode,
                              const void *data, size_t datalen);
gpgrt_stream_t gpgrt_fdopen    (int filedes, const char *mode);
gpgrt_stream_t gpgrt_fdopen_nc (int filedes, const char *mode);
gpgrt_stream_t gpgrt_sysopen    (gpgrt_syshd_t *syshd, const char *mode);
gpgrt_stream_t gpgrt_sysopen_nc (gpgrt_syshd_t *syshd, const char *mode);
gpgrt_stream_t gpgrt_fpopen    (FILE *fp, const char *mode);
gpgrt_stream_t gpgrt_fpopen_nc (FILE *fp, const char *mode);
gpgrt_stream_t gpgrt_freopen (const char *_GPGRT__RESTRICT path,
                         const char *_GPGRT__RESTRICT mode,
                         gpgrt_stream_t _GPGRT__RESTRICT stream);
gpgrt_stream_t gpgrt_fopencookie (void *_GPGRT__RESTRICT cookie,
                            const char *_GPGRT__RESTRICT mode,
                            gpgrt_cookie_io_functions_t functions);
int gpgrt_fclose (gpgrt_stream_t stream);
int gpgrt_fclose_snatch (gpgrt_stream_t stream,
                       void **r_buffer, size_t *r_buflen);
int gpgrt_onclose (gpgrt_stream_t stream, int mode,
                 void (*fnc) (gpgrt_stream_t, void*), void *fnc_value);
int gpgrt_fileno (gpgrt_stream_t stream);
int gpgrt_fileno_unlocked (gpgrt_stream_t stream);
int gpgrt_syshd (gpgrt_stream_t stream, gpgrt_syshd_t *syshd);
int gpgrt_syshd_unlocked (gpgrt_stream_t stream, gpgrt_syshd_t *syshd);

void _gpgrt_set_std_fd (int no, int fd);
gpgrt_stream_t _gpgrt_get_std_stream (int fd);

#define gpgrt_stdin  _gpgrt_get_std_stream (0)
#define gpgrt_stdout _gpgrt_get_std_stream (1)
#define gpgrt_stderr _gpgrt_get_std_stream (2)


void gpgrt_flockfile (gpgrt_stream_t stream);
int  gpgrt_ftrylockfile (gpgrt_stream_t stream);
void gpgrt_funlockfile (gpgrt_stream_t stream);

int gpgrt_feof (gpgrt_stream_t stream);
int gpgrt_feof_unlocked (gpgrt_stream_t stream);
int gpgrt_ferror (gpgrt_stream_t stream);
int gpgrt_ferror_unlocked (gpgrt_stream_t stream);
void gpgrt_clearerr (gpgrt_stream_t stream);
void gpgrt_clearerr_unlocked (gpgrt_stream_t stream);

int _gpgrt_pending (gpgrt_stream_t stream);          /* (private) */
int _gpgrt_pending_unlocked (gpgrt_stream_t stream); /* (private) */

#define gpgrt_pending(stream) _gpgrt_pending (stream)

#define gpgrt_pending_unlocked(stream)    \
  (((!(stream)->flags.writing)     \
    && (((stream)->data_offset < (stream)->data_len)  \
        || ((stream)->unread_data_len)))                \
   ? 1 : _gpgrt_pending_unlocked ((stream)))

int gpgrt_fflush (gpgrt_stream_t stream);
int gpgrt_fseek (gpgrt_stream_t stream, long int offset, int whence);
int gpgrt_fseeko (gpgrt_stream_t stream, gpgrt_off_t offset, int whence);
long int gpgrt_ftell (gpgrt_stream_t stream);
gpgrt_off_t gpgrt_ftello (gpgrt_stream_t stream);
void gpgrt_rewind (gpgrt_stream_t stream);

int gpgrt_fgetc (gpgrt_stream_t stream);
int gpgrt_fputc (int c, gpgrt_stream_t stream);

int _gpgrt_getc_underflow (gpgrt_stream_t stream);       /* (private) */
int _gpgrt_putc_overflow (int c, gpgrt_stream_t stream); /* (private) */

#define gpgrt_getc_unlocked(stream)    \
  (((!(stream)->flags.writing)     \
    && ((stream)->data_offset < (stream)->data_len)  \
    && (! (stream)->unread_data_len))    \
   ? ((int) (stream)->buffer[((stream)->data_offset)++])  \
   : _gpgrt_getc_underflow ((stream)))

#define gpgrt_putc_unlocked(c, stream)    \
  (((stream)->flags.writing     \
    && ((stream)->data_offset < (stream)->buffer_size)  \
```

```
   && (c != '\n'))      \
  ? ((int) ((stream)->buffer[((stream)->data_offset)++] = (c))) \
  : _gpgrt_putc_overflow ((c), (stream)))

#define gpgrt_getc(stream)    gpgrt_fgetc (stream)
#define gpgrt_putc(c, stream) gpgrt_fputc (c, stream)

int gpgrt_ungetc (int c, gpgrt_stream_t stream);

int gpgrt_read (gpgrt_stream_t _GPGRT__RESTRICT stream,
              void *_GPGRT__RESTRICT buffer, size_t bytes_to_read,
              size_t *_GPGRT__RESTRICT bytes_read);
int gpgrt_write (gpgrt_stream_t _GPGRT__RESTRICT stream,
               const void *_GPGRT__RESTRICT buffer, size_t bytes_to_write,
               size_t *_GPGRT__RESTRICT bytes_written);
int gpgrt_write_sanitized (gpgrt_stream_t _GPGRT__RESTRICT stream,
                         const void *_GPGRT__RESTRICT buffer, size_t length,
                         const char *delimiters,
                         size_t *_GPGRT__RESTRICT bytes_written);
int gpgrt_write_hexstring (gpgrt_stream_t _GPGRT__RESTRICT stream,
                         const void *_GPGRT__RESTRICT buffer, size_t length,
                         int reserved,
                         size_t *_GPGRT__RESTRICT bytes_written);

size_t gpgrt_fread (void *_GPGRT__RESTRICT ptr, size_t size, size_t nitems,
                  gpgrt_stream_t _GPGRT__RESTRICT stream);
size_t gpgrt_fwrite (const void *_GPGRT__RESTRICT ptr, size_t size, size_t memb,
                   gpgrt_stream_t _GPGRT__RESTRICT stream);

char *gpgrt_fgets (char *_GPGRT__RESTRICT s, int n,
                 gpgrt_stream_t _GPGRT__RESTRICT stream);
int gpgrt_fputs (const char *_GPGRT__RESTRICT s,
               gpgrt_stream_t _GPGRT__RESTRICT stream);
int gpgrt_fputs_unlocked (const char *_GPGRT__RESTRICT s,
                        gpgrt_stream_t _GPGRT__RESTRICT stream);

@api_ssize_t@ gpgrt_getline (char *_GPGRT__RESTRICT *_GPGRT__RESTRICT lineptr,
                     size_t *_GPGRT__RESTRICT n,
                     gpgrt_stream_t stream);
@api_ssize_t@ gpgrt_read_line (gpgrt_stream_t stream,
                       char **addr_of_buffer, size_t *length_of_buffer,
                       size_t *max_length);
void gpgrt_free (void *a);

int gpgrt_fprintf (gpgrt_stream_t _GPGRT__RESTRICT stream,
                 const char *_GPGRT__RESTRICT format, ...)
                 GPGRT_ATTR_PRINTF(2,3);
int gpgrt_fprintf_unlocked (gpgrt_stream_t _GPGRT__RESTRICT stream,
                          const char *_GPGRT__RESTRICT format, ...)
                          GPGRT_ATTR_PRINTF(2,3);

int gpgrt_printf (const char *_GPGRT__RESTRICT format, ...)
                GPGRT_ATTR_PRINTF(1,2);
int gpgrt_printf_unlocked (const char *_GPGRT__RESTRICT format, ...)
                         GPGRT_ATTR_PRINTF(1,2);

int gpgrt_vfprintf (gpgrt_stream_t _GPGRT__RESTRICT stream,
                  const char *_GPGRT__RESTRICT format, va_list ap)
                  GPGRT_ATTR_PRINTF(2,0);
int gpgrt_vfprintf_unlocked (gpgrt_stream_t _GPGRT__RESTRICT stream,
                           const char *_GPGRT__RESTRICT format, va_list ap)
                           GPGRT_ATTR_PRINTF(2,0);

int gpgrt_setvbuf (gpgrt_stream_t _GPGRT__RESTRICT stream,
                 char *_GPGRT__RESTRICT buf, int mode, size_t size);
void gpgrt_setbuf (gpgrt_stream_t _GPGRT__RESTRICT stream,
                 char *_GPGRT__RESTRICT buf);

void gpgrt_set_binary (gpgrt_stream_t stream);
int  gpgrt_set_nonblock (gpgrt_stream_t stream, int onoff);
int  gpgrt_get_nonblock (gpgrt_stream_t stream);

int gpgrt_poll (gpgrt_poll_t *fdlist, unsigned int nfds, int timeout);

gpgrt_stream_t gpgrt_tmpfile (void);

void gpgrt_opaque_set (gpgrt_stream_t _GPGRT__RESTRICT stream,
                     void *_GPGRT__RESTRICT opaque);
void *gpgrt_opaque_get (gpgrt_stream_t stream);

void gpgrt_fname_set (gpgrt_stream_t stream, const char *fname);
const char *gpgrt_fname_get (gpgrt_stream_t stream);
```

```
int gpgrt_asprintf (char **r_buf, const char * _GPGRT__RESTRICT format, ...)
                GPGRT_ATTR_PRINTF(2,3);
int gpgrt_vasprintf (char **r_buf, const char * _GPGRT__RESTRICT format,
                 va_list ap)
                 GPGRT_ATTR_PRINTF(2,0);
char *gpgrt_bsprintf (const char * _GPGRT__RESTRICT format, ...)
                  GPGRT_ATTR_PRINTF(1,2);
char *gpgrt_vbsprintf (const char * _GPGRT__RESTRICT format, va_list ap)
                   GPGRT_ATTR_PRINTF(1,0);
int gpgrt_snprintf (char *buf, size_t bufsize,
                const char * _GPGRT__RESTRICT format, ...)
                GPGRT_ATTR_PRINTF(3,4);
int gpgrt_vsnprintf (char *buf,size_t bufsize,
                 const char * _GPGRT__RESTRICT format, va_list arg_ptr)
                 GPGRT_ATTR_PRINTF(3,0);


#ifdef GPGRT_ENABLE_ES_MACROS
# define es_fopen            gpgrt_fopen
# define es_mopen            gpgrt_mopen
# define es_fopenmem         gpgrt_fopenmem
# define es_fopenmem_init    gpgrt_fopenmem_init
# define es_fdopen           gpgrt_fdopen
# define es_fdopen_nc        gpgrt_fdopen_nc
# define es_sysopen          gpgrt_sysopen
# define es_sysopen_nc       gpgrt_sysopen_nc
# define es_fpopen           gpgrt_fpopen
# define es_fpopen_nc        gpgrt_fpopen_nc
# define es_freopen          gpgrt_freopen
# define es_fopencookie      gpgrt_fopencookie
# define es_fclose           gpgrt_fclose
# define es_fclose_snatch    gpgrt_fclose_snatch
# define es_onclose          gpgrt_onclose
# define es_fileno           gpgrt_fileno
# define es_fileno_unlocked  gpgrt_fileno_unlocked
# define es_syshd            gpgrt_syshd
# define es_syshd_unlocked   gpgrt_syshd_unlocked
# define es_stdin            _gpgrt_get_std_stream (0)
# define es_stdout           _gpgrt_get_std_stream (1)
# define es_stderr           _gpgrt_get_std_stream (2)
# define es_flockfile        gpgrt_flockfile
# define es_ftrylockfile     gpgrt_ftrylockfile
# define es_funlockfile      gpgrt_funlockfile
# define es_feof             gpgrt_feof
# define es_feof_unlocked    gpgrt_feof_unlocked
# define es_ferror           gpgrt_ferror
# define es_ferror_unlocked  gpgrt_ferror_unlocked
# define es_clearerr         gpgrt_clearerr
# define es_clearerr_unlocked gpgrt_clearerr_unlocked
# define es_pending          gpgrt_pending
# define es_pending_unlocked gpgrt_pending_unlocked
# define es_fflush           gpgrt_fflush
# define es_fseek            gpgrt_fseek
# define es_fseeko           gpgrt_fseeko
# define es_ftell            gpgrt_ftell
# define es_ftello           gpgrt_ftello
# define es_rewind           gpgrt_rewind
# define es_fgetc            gpgrt_fgetc
# define es_fputc            gpgrt_fputc
# define es_getc_unlocked    gpgrt_getc_unlocked
# define es_putc_unlocked    gpgrt_putc_unlocked
# define es_getc             gpgrt_getc
# define es_putc             gpgrt_putc
# define es_ungetc           gpgrt_ungetc
# define es_read             gpgrt_read
# define es_write            gpgrt_write
# define es_write_sanitized  gpgrt_write_sanitized
# define es_write_hexstring  gpgrt_write_hexstring
# define es_fread            gpgrt_fread
# define es_fwrite           gpgrt_fwrite
# define es_fgets            gpgrt_fgets
# define es_fputs            gpgrt_fputs
# define es_fputs_unlocked   gpgrt_fputs_unlocked
# define es_getline          gpgrt_getline
# define es_read_line        gpgrt_read_line
# define es_free             gpgrt_free
# define es_fprintf          gpgrt_fprintf
# define es_fprintf_unlocked gpgrt_fprintf_unlocked
# define es_printf           gpgrt_printf
# define es_printf_unlocked  gpgrt_printf_unlocked
# define es_vfprintf         gpgrt_vfprintf
# define es_vfprintf_unlocked gpgrt_vfprintf_unlocked
# define es_setvbuf          gpgrt_setvbuf
```

```
# define es_setbuf          gpgrt_setbuf
# define es_set_binary      gpgrt_set_binary
# define es_set_nonblock    gpgrt_set_nonblock
# define es_get_nonblock    gpgrt_get_nonblock
# define es_poll            gpgrt_poll
# define es_tmpfile         gpgrt_tmpfile
# define es_opaque_set      gpgrt_opaque_set
# define es_opaque_get      gpgrt_opaque_get
# define es_fname_set       gpgrt_fname_set
# define es_fname_get       gpgrt_fname_get
# define es_asprintf        gpgrt_asprintf
# define es_vasprintf       gpgrt_vasprintf
# define es_bsprintf        gpgrt_bsprintf
# define es_vbsprintf       gpgrt_vbsprintf
#endif /*GPGRT_ENABLE_ES_MACROS*/

#ifdef __cplusplus
}
#endif
#endif /* GPG_ERROR_H */
```

File name: generic_GPLv2

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Version 2, June 1991

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```
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libice

Package version: 1.0.9
Package revision: r0
Package license(s): MIT-style

File name: generic_MIT-style

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Author: Ralph Mor, X Consortium

libidn

Package version: 1.33

Package revision: r0

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libnfsidmap

Package version: 0.25

Package revision: r0

Package license(s): BSD

File name: COPYING

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libnl

Package version: 3.2.28
Package revision: r0
Package license(s): LGPLv2.1

File name: generic_LGPLv2.1

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Version 2.1, February 1999

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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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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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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.

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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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libpthread-stubs

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libsocketcan

Package version: 0.0.10
Package revision: r0
Package license(s): LGPLv2.1

File name: generic_LGPLv2.1

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libtool

Package version: 2.4.6

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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.

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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File name: generic_LGPLv2.1

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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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libtool-cross

Package version: 2.4.6

Package revision: r0

Package license(s): GPLv2 & LGPLv2.1

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liburcu

Package version: 0.9.2
Package revision: r0
Package license(s): LGPLv2.1+ & MIT-style

File name: LICENSE

Userspace RCU library licensing
Mathieu Desnoyers
September 3, 2012

* LGPLv2.1

The library part is distributed under LGPLv2.1 or later. See lgpl-2.1.txt for license details. Refer to the individual file headers for details.

LGPL-compatible source code can statically use the library header using :

```
#define _LGPL_SOURCE
#include <urcu.h>
```

Dynamic-only linking with the LGPL library is used if _LGPL_SOURCE is not defined. It permits relinking with newer versions of the library, which is required by the LGPL license.

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xchg() primitive has been rewritten from scratch starting from atomic_ops 1.2 which has a MIT-style license that is intended to allow use in both free and proprietary software:
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uatomic/gcc.h
uatomic/unknown.h
uatomic/generic.h
uatomic/sparc64.h
uatomic/arm.h
uatomic/ppc.h
uatomic/x86.h
uatomic.h

MIT/X11 (BSD like) license apply to:

compiler.h
arch/s390.h
uatomic/alpha.h
uatomic/mips.h
uatomic/nios2.h
uatomic/s390.h
system.h

* GPLv2

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The following build-related macro is under GPLv3 (or later):

m4/ax_tls.m4

File name: generic_MIT-style

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File name: generic_LGPLv2.1

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Version 2.1, February 1999

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libusb1

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Package revision: r0
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File name: generic_LGPLv2.1

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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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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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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.
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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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(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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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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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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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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.

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libx11

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libxau

Package version: 1.0.8
Package revision: r0
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libxcb

Package version: 1.12

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libxdmcp

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Package version: 2.9.4

Package revision: r0

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File name: generic_Firmware-agere

agere_sta_fw.bin -- 9.48 Hermes I
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File name: LICENCE.xc4000

The following XC4000 firmware file "dvb-fe-xc4000-1.4.1.fw" was
created based on version 1.4 of "xc4000_firmwares.h".

Firmware provided as part of an XC4000 Linux developers kit by Brian
Mathews <bmathews@xceive.com> to Devin Heitmueller
<dheitmueller@kernellabs.org> on July 1, 2009.

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File name: generic_Firmware-xc4000

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Firmware provided as part of an XC4000 Linux developers kit by Brian
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   iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

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File name: LICENCE.go7007

The README file from the original package from Micronas appears below. Only
the part about the firmware redistribution in section 0 is relevant, all
other sections are completely obsolete.

WIS GO7007SB Public Linux Driver

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format
video encoder. Only kernel version 2.6.x is supported. The video stream
is available through the Video4Linux2 API and the audio stream is available
through the ALSA API (or the OSS emulation layer of the ALSA system).

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The example applications in apps/ and C header files in include/ are
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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using
kernel 2.6.10 or later is recommended, as earlier kernels are known to have
unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be
linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this
link does not exist, an extra parameter will need to be passed to the
`make` command.

All vendor-built kernels should already be configured properly. However,
for custom-built kernels, the following options need to be enabled in the
kernel as built-in or modules:

```
CONFIG_HOTPLUG          - Support for hot-pluggable devices
CONFIG_MODULES          - Enable loadable module support
CONFIG_KMOD             - Automatic kernel module loading
CONFIG_FW_LOADER        - Hotplug firmware loading support
CONFIG_I2C              - I2C support
```

```
CONFIG_VIDEO_DEV        - Video For Linux
CONFIG_SOUND            - Sound card support
CONFIG_SND              - Advanced Linux Sound Architecture
CONFIG_USB              - Support for Host-side USB
CONFIG_USB_DEVICEFS     - USB device filesystem
CONFIG_USB_EHCI_HCD     - EHCI HCD (USB 2.0) support
```

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

```
CONFIG_SND_MIXER_OSS    - OSS Mixer API
CONFIG_SND_PCM_OSS      - OSS PCM (digital audio) API
```

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>. Hotplugging is used for loading firmware into the Cypruss EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be installed by running:

```
$ make install
```

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

TV band	force_band
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo

carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

TV band	Audio subcarrier	force_mpx_mode
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary

Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

```
__u32                   The maximum number of frames in each
  gop_size                Group Of Pictures; i.e. the maximum
                        number of frames minus one between
                        each key frame.

__u32                   The maximum number of sequential
  max_b_frames            bidirectionally-predicted frames.
                        (B-frames are not yet supported.)

enum go7007_aspect_ratio     The aspect ratio to be encoded in the
  aspect_ratio             meta-data of the compressed format.

                        Choices are:
                          GO7007_ASPECT_RATIO_1_1
                          GO7007_ASPECT_RATIO_4_3_NTSC
                          GO7007_ASPECT_RATIO_4_3_PAL
                          GO7007_ASPECT_RATIO_16_9_NTSC
                          GO7007_ASPECT_RATIO_16_9_PAL

__u32                   Bit-wise OR of control flags (below)
  flags
```

Flags in struct go7007_comp_params:

```
GO7007_COMP_CLOSED_GOP       Only produce self-contained GOPs, used
                        to produce streams appropriate for
                        random seeking.

GO7007_COMP_OMIT_SEQ_HEADER  Omit the stream sequence header.
```

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set

to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

```
enum go7007_mpeg_video_standard
  mpeg_video_standard       The MPEG video standard in which to
                            compress the video.

                            Choices are:
                              GO7007_MPEG_VIDEO_MPEG1
                              GO7007_MPEG_VIDEO_MPEG2
                              GO7007_MPEG_VIDEO_MPEG4

__u32                         Bit-wise OR of control flags (below)
  flags

__u32                         The profile and level indication to be
  pali                      stored in the sequence header. This
                            is only used as an indicator to the
                            decoder, and does not affect the MPEG
                            features used in the video stream.
                            Not valid for MPEG1.

                            Choices for MPEG2 are:
                              GO7007_MPEG2_PROFILE_MAIN_MAIN

                            Choices for MPEG4 are:
                              GO7007_MPEG4_PROFILE_S_L0
                              GO7007_MPEG4_PROFILE_S_L1
                              GO7007_MPEG4_PROFILE_S_L2
                              GO7007_MPEG4_PROFILE_S_L3
                              GO7007_MPEG4_PROFILE_ARTS_L1
                              GO7007_MPEG4_PROFILE_ARTS_L2
                              GO7007_MPEG4_PROFILE_ARTS_L3
                              GO7007_MPEG4_PROFILE_ARTS_L4
                              GO7007_MPEG4_PROFILE_AS_L0
                              GO7007_MPEG4_PROFILE_AS_L1
                              GO7007_MPEG4_PROFILE_AS_L2
                              GO7007_MPEG4_PROFILE_AS_L3
                              GO7007_MPEG4_PROFILE_AS_L4
                              GO7007_MPEG4_PROFILE_AS_L5
```

Flags in struct go7007_mpeg_params:

```
GO7007_MPEG_FORCE_DVD_MODE   Force all compression parameters and
                             bitrate control settings to comply
                             with DVD MPEG2 stream requirements.
                             This overrides most compression and
                             bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER  Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at
                             the start of each GOP.
```

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

```
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
```

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

File name: generic_Firmware-ueagle-atm4-firmware

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namely, the files eagleIV.fw DSP4p.bin*

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File name: generic_Firmware-dib0700

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Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.

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File: atmsar11.fw

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Driver: snd-korg1212 -- Korg 1212 IO audio device

File: korg/k1212.dsp

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Driver: snd-maestro3 -- ESS Allegro Maestro3 audio device

File: ess/maestro3_assp_kernel.fw
File: ess/maestro3_assp_minisrc.fw

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Driver: snd-ymfpci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/ds1_ctrl.fw
File: yamaha/ds1_dsp.fw

File: yamaha/ds1e_ctrl.fw

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Driver: advansys - AdvanSys SCSI

File: advansys/mcode.bin
File: advansys/3550.bin
File: advansys/38C0800.bin
File: advansys/38C1600.bin

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Found in hex form in kernel source.

Driver: qla1280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qlogic/1040.bin
File: qlogic/1280.bin
File: qlogic/12160.bin

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Driver: smctr -- SMC ISA/MCA Token Ring adapter

File: tr_smctr.bin
Version: 6.3C1
Info: MCT.BIN v6.3C1 03/01/95

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Driver: kaweth -- USB KLSI KL5USB101-based Ethernet device

File: kaweth/new_code.bin
File: kaweth/new_code_fix.bin
File: kaweth/trigger_code.bin
File: kaweth/trigger_code_fix.bin

Licence: Redistributable. See LICENCE.kaweth for details

Found in hex form in the kernel source.

Driver: dvb-ttusb-budget -- Technotrend/Hauppauge Nova-USB devices

File: ttusb-budget/dspbootcode.bin

Licence: Unknown

Found in hex form in the kernel source.

Driver: keyspan -- USB Keyspan USA-xxx serial device

File: keyspan/mpr.fw
File: keyspan/usa18x.fw
File: keyspan/usa19.fw
File: keyspan/usa19qi.fw
File: keyspan/usa19qw.fw
File: keyspan/usa19w.fw
File: keyspan/usa28.fw
File: keyspan/usa28xa.fw
File: keyspan/usa28xb.fw
File: keyspan/usa28x.fw
File: keyspan/usa49w.fw
File: keyspan/usa49wlc.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:

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Keyspan hardware. Distribution and/or Modification of the
keyspan.c driver which includes this firmware, in whole or in
part, requires the inclusion of this statement."

Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
Source: keyspan_pda/xircom_pgs.S

Source: keyspan_pda/Makefile

Licence: GPLv2+

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

Driver: emi26 -- EMI 2|6 USB Audio interface

File: emi26/bitstream.fw
Version: 1.1.1.131
Info: DATE=2001dec06

File: emi26/firmware.fw
Version: 1.0.2.916
Info: DATE=12.02.2002

File: emi26/loader.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:

/*
 * This firmware is for the Emagic EMI 2|6 Audio Interface
 *
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 *
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 * in text or binary form as required.
 *
 * This firmware may not be modified and may only be used with the
 * Emagic EMI 2|6 Audio Interface. Distribution and/or Modification of
 * any driver which includes this firmware, in whole or in part,
 * requires the inclusion of this statement.
 */

Driver: emi62 -- EMI 6|2m USB Audio interface

File: emi62/bitstream.fw
Version: 1.0.0.191
Info: DATE= 2002oct28

File: emi62/loader.fw
Source: EMILOAD.HEX
Version: 1.0.2.002
Info: DATE=10.01.2002

File: emi62/midi.fw
Source: EMI62MFW.HEX
Version: 1.04.062
Info: DATE=16.10.2002

File: emi62/spdif.fw
Source: EMI62SFW.HEX
Version: 1.04.062
Info: DATE=16.10.2002

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information: None

Driver: ti_usb_3410_5052 -- USB TI 3410/5052 serial device

File: ti_3410.fw
Info: firmware 9/10/04 FW3410_Special_StartWdogOnStartPort

File: ti_5052.fw
Info: firmware 9/18/04

Licence: Allegedly GPLv2+, but no source visible. Marked:
  Copyright (C) 2004 Texas Instruments

Found in hex form in kernel source.

Driver: ti_usb_3410_5052 -- Multi-Tech USB cell modems

File: mts_cdma.fw
File: mts_gsm.fw
File: mts_edge.fw

Licence: "all firmware components are redistributable in binary form"
        per support@multitech.com
  Copyright (C) 2005 Multi-Tech Systems, Inc.

Found in hex form in ftp://ftp.multitech.com/wireless/wireless_linux.zip

---

Driver: ti_usb_3410_5052 -- Multi-Tech USB fax modems

File: mts_mt9234mu.fw
File: mts_mt9234zba.fw

Licence: Unknown

Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device

File: whiteheat.fw
Version: 4.06

File: whiteheat_loader.fw

Licence: Allegedly GPLv2, but no source visible. Marked:
  Copyright (C) 2000-2002 ConnectTech Inc

Debug loader claims the following behaviour:
 Port 1 LED flashes when the vend_ax program is running
 Port 2 LED flashes when any SETUP command arrives
 Port 3 LED flashes when any valid VENDOR request occurs
 Port 4 LED flashes when the EXTERNAL RAM DOWNLOAD request occurs

Converted from Intel HEX files, used in our binary representation of ihex.

Driver: ip2 -- Computone IntelliPort Plus serial device

File: intelliport2.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: cpia2 -- cameras based on Vision's CPiA2

File: cpia2/stv0672_vp4.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:
 Copyright (C) 2001 STMicroelectronics, Inc.
 Contact: steve.miller@st.com
 Description: This file contains patch data for the CPiA2 (stv0672) VP4.

Found in hex form in kernel source.

Driver: dabusb -- Digital Audio Broadcasting (DAB) Receiver for USB and Linux

File: dabusb/firmware.fw
File: dabusb/bitstream.bin

Licence: Distributable

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 * modification, are permitted provided that redistributions of source
 * code retain the above copyright notice and this comment without
 * modification.

Driver: vicam -- USB 3com HomeConnect (aka vicam)

File: vicam/firmware.fw

Licence: Unknown

Found in hex form in kernel source.

Driver: io_edgeport - USB Inside Out Edgeport Serial Driver

File: edgeport/boot.fw
File: edgeport/boot2.fw
File: edgeport/down.fw
File: edgeport/down2.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:
//***
//* Edgeport/4 Binary Image
//* Generated by HEX2C v1.06
//* Copyright (C) 1998 Inside Out Networks, All rights reserved.
//***

Found in hex form in kernel source.

Driver: io_ti - USB Inside Out Edgeport Serial Driver
(TI Devices)

File: edgeport/down3.bin

Licence:
//***
//* Edgeport Binary Image (for TI based products)
//* Generated by TIBin2C v2.00 (watchport)
//* Copyright (C) 2001 Inside Out Networks, All rights reserved.
//***

Found in hex form in kernel source.

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin
Source: dsp56k/bootstrap.asm

Source: dsp56k/Makefile
Source: dsp56k/concat-bootstrap.pl

Licence: GPLv2 or later

DSP56001 assembler, buildable with a56 from
http://www.zdomain.com/a56.html

Driver: snd-sb16-csp - Sound Blaster 16/AWE CSP support

File: sb16/mulaw_main.csp
File: sb16/alaw_main.csp
File: sb16/ima_adpcm_init.csp
File: sb16/ima_adpcm_playback.csp
File: sb16/ima_adpcm_capture.csp

Licence: Allegedly GPLv2+, but no source visible. Marked:
```
/*
 *  Copyright (c) 1994 Creative Technology Ltd.
 *  Microcode files for SB16 Advanced Signal Processor
 */
```

Found in hex form in kernel source.

Driver: qla2xxx - QLogic QLA2XXX Fibre Channel

File: ql2100_fw.bin
Version: 1.19.38 TP
File: ql2200_fw.bin
Version: 2.02.08 TP
File: ql2300_fw.bin
Version: 3.03.28 IPX
File: ql2322_fw.bin
Version: 3.03.28 IPX
File: ql2400_fw.bin
Version: 8.03.00 MID
File: ql2500_fw.bin
Version: 8.03.00 MIDQ

Licence: Redistributable. See LICENCE.qla2xxx for details

Available from http://ldriver.qlogic.com/firmware/

Driver: orinoco - Agere/Prism/Symbol Orinoco support

File: agere_sta_fw.bin
Version: 9.48 Hermes I
File: agere_ap_fw.bin
Version: 9.48 Hermes I

Licence: Redistributable. See LICENCE.agere for details

Driver: ar9170 - Atheros 802.11n "otus" USB

File: ar9170-1.fw
File: ar9170-2.fw

Licence: Redistributable. See LICENCE.atheros_firmware for details

---

Driver: ath9k_htc - Atheros HTC devices (USB)

File: ar9271.fw
File: ar7010.fw
File: ar7010_1_1.fw
File: htc_9271.fw
Version: 1.3.1
File: htc_7010.fw
Version: 1.3.1

Licence: Redistributable. See LICENCE.atheros_firmware for details

File: ath9k_htc/htc_7010-1.4.0.fw
Version: 1.4.0

File: ath9k_htc/htc_9271-1.4.0.fw
Version: 1.4.0

Licence: Redistributable (full source code is available under free software licences). See LICENCE.open-ath9k-htc-firmware for details

---

Driver: cassini - Sun Cassini

File: sun/cassini.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: slicoss - Alacritech IS-NIC products

File: slicoss/gbdownload.sys
File: slicoss/gbrcvucode.sys
File: slicoss/oasisdbgdownload.sys
File: slicoss/oasisdownload.sys
File: slicoss/oasisrcvucode.sys

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Found in hex form in kernel source.

Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys
File: sxg/saharadbgdownloadB.sys

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Found in hex form in kernel source.

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/t3b_psram-1.1.0.bin
File: cxgb3/t3c_psram-1.1.0.bin
File: cxgb3/t3fw-7.0.0.bin
File: cxgb3/t3fw-7.1.0.bin
File: cxgb3/t3fw-7.4.0.bin
File: cxgb3/t3fw-7.10.0.bin
File: cxgb3/t3fw-7.12.0.bin

Licence: GPLv2 or OpenIB.org BSD license, no source visible

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/ael2005_opt_edc.bin
File: cxgb3/ael2005_twx_edc.bin
File: cxgb3/ael2020_twx_edc.bin

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Found in hex form in kernel source.

Driver: cxgb4 - Chelsio Terminator 4/5 1G/10/40G Ethernet adapter

File: cxgb4/t4fw-1.14.4.0.bin
File: cxgb4/t4fw-1.15.37.0.bin
Link: cxgb4/t4fw.bin -> t4fw-1.15.37.0.bin
File: cxgb4/t5fw-1.14.4.0.bin
File: cxgb4/t5fw-1.15.37.0.bin
Link: cxgb4/t5fw.bin -> t5fw-1.15.37.0.bin
File: cxgb4/aq1202_fw.cld
File: cxgb4/bcm8483.bin

Licence: Redistributable. See LICENCE.chelsio_firmware for details

---

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m_ucode.bin
File: e100/d101s_ucode.bin
File: e100/d102e_ucode.bin

Licence: Redistributable. See LICENCE.e100 for details

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin
File: acenic/tg2.bin

Licence: Unknown

Found in hex form in kernel source, but source allegedly available at
http://alteon.shareable.org/

Driver: tg3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin
File: tigon/tg3_tso.bin
File: tigon/tg3_tso5.bin
File: tigon/tg357766.bin

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Found in hex form in kernel source.

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin
File: adaptec/starfire_tx.bin

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Driver: i2400m-usb - Intel 2400 Wireless WiMAX Connection over USB

File: i2400m-fw-usb-1.4.sbcf
File: i2400m-fw-usb-1.5.sbcf
File: i6050-fw-usb-1.5.sbcf

Licence: Redistributable. See LICENCE.i2400m for details

Also available from http://linuxwimax.org/Download

Driver: libertas - Marvell Libertas fullmac-type 802.11b/g cards

File: libertas/cf8381.bin
File: libertas/cf8381_helper.bin
File: libertas/cf8385.bin
File: libertas/cf8385_helper.bin
File: libertas/gspi8682.bin
File: libertas/gspi8682_helper.bin
File: libertas/gspi8686_v9.bin
File: libertas/gspi8686_v9_helper.bin
File: libertas/gspi8688.bin
File: libertas/gspi8688_helper.bin
File: libertas/sd8385.bin
File: libertas/sd8385_helper.bin
File: libertas/sd8682.bin
File: libertas/sd8682_helper.bin
File: libertas/sd8686_v8.bin
File: libertas/sd8686_v8_helper.bin
File: libertas/sd8686_v9.bin
File: libertas/sd8686_v9_helper.bin
File: libertas/usb8388_v5.bin
File: libertas/usb8388_v9.bin
File: libertas/usb8682.bin
File: mrvl/sd8688.bin
Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin
File: mrvl/sd8688_helper.bin
Link: libertas/sd8688_helper.bin -> ../mrvl/sd8688_helper.bin

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Driver: libertas - Marvell Libertas 802.11b/g cards, OLPC firmware

File: libertas/lbtf_sdio.bin
Version: 9.0.7.p4

File: lbtf_usb.bin
Version: 5.132.3.p1

File: libertas/usb8388_olpc.bin
Version: 5.110.22.p23

Licence: Redistributable. See LICENCE.OLPC for details.

Available from http://dev.laptop.org/pub/firmware/libertas/

Driver: mwl8k - Marvell Libertas softmac-type 802.11b/g/n cards

File: mwl8k/fmimage_8687.fw
File: mwl8k/helper_8687.fw
File: mwl8k/fmimage_8366.fw
File: mwl8k/fmimage_8366_ap-1.fw
File: mwl8k/fmimage_8366_ap-2.fw
File: mwl8k/fmimage_8366_ap-3.fw
Version: 5.2.8.16
File: mwl8k/helper_8366.fw

File: mwl8k/fmimage_8764_ap-1.fw
Version: 7.4.0.9

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Driver: mwifiex - Marvell Wi-Fi fullmac-type 802.11n/ac cards

File: mrvl/sd8787_uapsta.bin
Version: 14.66.35.p52

File: mrvl/usb8766_uapsta.bin
Version: 14.68.22.p16

File: mrvl/sd8797_uapsta.bin
Version: 14.66.11.p151

File: mrvl/usb8797_uapsta.bin
Version: 14.68.29.p49

File: mrvl/sd8897_uapsta.bin
Version: 15.68.7.p77

File: mrvl/usb8897_uapsta.bin
Version: 15.68.4.p103

File: mrvl/pcie8897_uapsta.bin
Version: 15.68.7.p77

File: mrvl/sd8887_uapsta.bin
Version: 15.68.7.p5

File: mrvl/sd8801_uapsta.bin
Version: 14.68.36.p60

File: mrvl/usb8801_uapsta.bin
Version: 14.68.36.p60

File: mrvl/pcieuart8997_combo_v4.bin
Version: 16.68.1.p70

File: mrvl/pcieusb8997_combo_v4.bin
Version: 16.68.1.p70

Licence: Redistributable. See LICENCE.Marvell for details. Originates from http://git.marvell.com/?p=mwifiex-firmware.git

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Driver: iwlwifi - Intel Wireless Wifi

File: iwlwifi-3945-2.ucode
Version: 15.32.2.9

File: iwlwifi-4965-2.ucode
Version: 228.61.2.24

File: iwlwifi-5000-1.ucode
Version: 5.4.A.11 (aka 5.4.1.16)

File: iwlwifi-5000-2.ucode
Version: 8.24.2.12

File: iwlwifi-5000-5.ucode
Version: 8.83.5.1

File: iwlwifi-5150-2.ucode
Version: 8.24.2.2

File: iwlwifi-1000-3.ucode
Version: 128.50.3.1

File: iwlwifi-1000-5.ucode
Version: 39.31.5.1

File: iwlwifi-6000-4.ucode
Version: 9.221.4.1

File: iwlwifi-6050-4.ucode

Version: 9.201.4.1

File: iwlwifi-6050-5.ucode
Version: 41.28.5.1

File: iwlwifi-6000g2a-5.ucode
Version: 17.168.5.3

File: iwlwifi-6000g2a-6.ucode
Version: 18.168.6.1

File: iwlwifi-6000g2b-5.ucode
Version: 17.168.5.1

File: iwlwifi-6000g2b-6.ucode
Version: 18.168.6.1

File: iwlwifi-135-6.ucode
Version: 18.168.6.1

File: iwlwifi-100-5.ucode
Version: 39.31.5.1

File: iwlwifi-105-6.ucode
Version: 18.168.6.1

File: iwlwifi-2030-6.ucode
Version: 18.168.6.1

File: iwlwifi-2000-6.ucode
Version: 18.168.6.1

File: iwlwifi-7260-7.ucode
Version: 22.1.7.0

File: iwlwifi-7260-8.ucode
Version: 22.24.8.0

File: iwlwifi-7260-9.ucode
Version: 25.228.9.0

File: iwlwifi-7260-10.ucode
Version: 23.15.10.0

File: iwlwifi-7260-12.ucode
Version: 25.17.12.0

File: iwlwifi-7260-13.ucode
Version: 25.30.13.0

File: iwlwifi-7260-16.ucode
Version 16.242414.0

File: iwlwifi-7260-17.ucode
Version 17.352738.0

File: iwlwifi-3160-7.ucode
Version: 22.1.7.0

File: iwlwifi-3160-8.ucode
Version: 22.24.8.0

File: iwlwifi-3160-9.ucode
Version: 25.228.9.0

File: iwlwifi-3160-10.ucode
Version: 23.15.10.0

File: iwlwifi-3160-12.ucode
Version: 25.17.12.0

File: iwlwifi-3160-13.ucode
Version: 25.30.13.0

File: iwlwifi-3160-16.ucode
Version 16.242414.0

File: iwlwifi-3160-17.ucode
Version 17.352738.0

File: iwlwifi-7265-8.ucode
Version: 22.24.8.0

File: iwlwifi-7265-9.ucode
Version: 25.228.9.0

File: iwlwifi-7265-10.ucode
Version: 23.15.10.0

File: iwlwifi-7265-12.ucode
Version: 25.17.12.0

File: iwlwifi-7265-13.ucode
Version: 25.30.13.0

File: iwlwifi-7265-16.ucode
Version 16.242414.0

File: iwlwifi-7265-17.ucode
Version 17.352738.0

File: iwlwifi-7265D-10.ucode
Version: 23.15.10.0

File: iwlwifi-7265D-12.ucode
Version: 25.17.12.0

File: iwlwifi-7265D-13.ucode
Version: 25.30.13.0

File: iwlwifi-7265D-16.ucode
Version 16.242414.0

File: iwlwifi-7265D-17.ucode
Version 17.352738.0

File: iwlwifi-7265D-21.ucode
Version 21.302800.0

File: iwlwifi-7265D-22.ucode
Version 22.361476.0

File: iwlwifi-3168-21.ucode
Version 21.302800.0

File: iwlwifi-3168-22.ucode
Version 22.361476.0

File: iwlwifi-8000C-13.ucode
Version: 25.30.13.0

File: iwlwifi-8000C-16.ucode
Version 16.242414.0

File: iwlwifi-8000C-21.ucode
Version 21.302800.0

File: iwlwifi-8000C-22.ucode
Version 22.361476.0

File: iwlwifi-8265-21.ucode
Version 21.302800.0

File: iwlwifi-8265-22.ucode
Version 22.361476.0

Licence: Redistributable. See LICENCE.iwlwifi_firmware for details

Also available from http://wireless.kernel.org/en/users/Drivers/iwlwifi#Firmware

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Driver: cx231xx - Conexant Cx23100/101/102 USB broadcast A/V decoder

File: v4l-cx231xx-avcore-01.fw

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Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

Licence:

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Found in hex form in kernel source.

Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

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/*
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 */

Found in hex form in kernel source.

Driver: yam - YAM driver for AX.25

File: yam/1200.bin
File: yam/9600.bin

Licence:
* (C) F6FBB 1998

Found in hex form in kernel source.

Driver: 3c359 - 3Com 3C359 Token Link Velocity XL adapter

File: 3com/3C359.bin

Licence:
/*
 * The firmware this driver downloads into the tokenring card is a
 * separate program and is not GPL'd source code, even though the Linux
 * side driver and the routine that loads this data into the card are.
 *
 * This firmware is licensed to you strictly for use in conjunction

```
 * with the use of 3Com 3C359 TokenRing adapters. There is no
 * waranty expressed or implied about its fitness for any purpose.
 */
/* 3c359_microcode.mac: 3Com 3C359 Tokenring microcode.
 *
 * Notes:
 *  - Loaded from xl_init upon adapter initialization.
 *
 * Available from 3Com as part of their standard 3C359 driver.
 */
```

Found in hex form in kernel source.

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis
File: cis/PCMLM28.cis
File: cis/DP83903.cis
File: cis/NE2K.cis
File: cis/tamarack.cis
File: cis/PE-200.cis
File: cis/PE520.cis
Source: cis/src/LA-PCM.cis
Source: cis/src/PCMLM28.cis
Source: cis/src/DP83903.cis
Source: cis/src/NE2K.cis
Source: cis/src/tamarack.cis
Source: cis/src/PE-200.cis
Source: cis/src/PE520.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

Licence: Dual GPLv2/MPL

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Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

Licence: Dual GPLv2/MPL

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Driver: serial_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis
File: cis/COMpad2.cis
File: cis/COMpad4.cis
Source: cis/src/MT5634ZLX.cis
Source: cis/src/RS-COM-2P.cis
Source: cis/src/COMpad2.cis
Source: cis/src/COMpad4.cis

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Driver: serial_cs - Serial PCMCIA adapter

File: cis/SW_555_SER.cis
File: cis/SW_7xx_SER.cis
File: cis/SW_8xx_SER.cis

Licence: GPLv3

Copyright Sierra Wireless

Driver: smc91c92_cs - SMC 91Cxx PCMCIA

File: ositech/Xilinx7OD.bin

Licence: Allegedly GPL, but no source visible. Marked:
This file contains the firmware of Seven of Diamonds from OSITECH.
(Special thanks to Kevin MacPherson of OSITECH)

Found in hex form in kernel source.

Driver: cx23418 - Conexant PCI Broadcast A/V with MPEG encoder

File: v4l-cx23418-apu.fw
File: v4l-cx23418-cpu.fw
File: v4l-cx23418-dig.fw

Licence: Redistributable.

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Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder

File: v4l-cx23885-avcore-01.fw

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Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw

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Driver: qlogicpti - PTI Qlogic, ISP Driver

File: qlogic/isp1000.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: myri_sbus - MyriCOM Gigabit Ethernet

File: myricom/lanai.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: bnx2x: Broadcom Everest

File: bnx2x-e1-4.8.53.0.fw
File: bnx2x-e1h-4.8.53.0.fw
File: bnx2x-e1-5.2.7.0.fw
File: bnx2x-e1h-5.2.7.0.fw
File: bnx2x-e1-5.2.13.0.fw
File: bnx2x-e1h-5.2.13.0.fw
File: bnx2x/bnx2x-e1-6.0.34.0.fw
File: bnx2x/bnx2x-e1h-6.0.34.0.fw
File: bnx2x/bnx2x-e2-6.0.34.0.fw
File: bnx2x/bnx2x-e1-6.2.5.0.fw
File: bnx2x/bnx2x-e1h-6.2.5.0.fw
File: bnx2x/bnx2x-e2-6.2.5.0.fw
File: bnx2x/bnx2x-e1-6.2.9.0.fw
File: bnx2x/bnx2x-e1h-6.2.9.0.fw
File: bnx2x/bnx2x-e2-6.2.9.0.fw
File: bnx2x/bnx2x-e2-7.0.20.0.fw
File: bnx2x/bnx2x-e1-7.0.20.0.fw
File: bnx2x/bnx2x-e1h-7.0.20.0.fw
File: bnx2x/bnx2x-e2-7.0.23.0.fw
File: bnx2x/bnx2x-e1-7.0.23.0.fw
File: bnx2x/bnx2x-e1h-7.0.23.0.fw
File: bnx2x/bnx2x-e2-7.0.29.0.fw
File: bnx2x/bnx2x-e1-7.0.29.0.fw
File: bnx2x/bnx2x-e1h-7.0.29.0.fw
File: bnx2x/bnx2x-e2-7.2.16.0.fw
File: bnx2x/bnx2x-e1-7.2.16.0.fw
File: bnx2x/bnx2x-e1h-7.2.16.0.fw
File: bnx2x/bnx2x-e2-7.2.51.0.fw
File: bnx2x/bnx2x-e1-7.2.51.0.fw
File: bnx2x/bnx2x-e1h-7.2.51.0.fw
File: bnx2x/bnx2x-e1-7.8.2.0.fw
File: bnx2x/bnx2x-e1h-7.8.2.0.fw
File: bnx2x/bnx2x-e2-7.8.2.0.fw
File: bnx2x/bnx2x-e1-7.8.17.0.fw
File: bnx2x/bnx2x-e1h-7.8.17.0.fw
File: bnx2x/bnx2x-e2-7.8.17.0.fw
File: bnx2x/bnx2x-e1-7.8.19.0.fw
File: bnx2x/bnx2x-e1h-7.8.19.0.fw
File: bnx2x/bnx2x-e2-7.8.19.0.fw
File: bnx2x/bnx2x-e1-7.10.51.0.fw
File: bnx2x/bnx2x-e1h-7.10.51.0.fw
File: bnx2x/bnx2x-e2-7.10.51.0.fw
File: bnx2x/bnx2x-e1-7.12.30.0.fw
File: bnx2x/bnx2x-e1h-7.12.30.0.fw
File: bnx2x/bnx2x-e2-7.12.30.0.fw
File: bnx2x/bnx2x-e1-7.13.1.0.fw
File: bnx2x/bnx2x-e1h-7.13.1.0.fw
File: bnx2x/bnx2x-e2-7.13.1.0.fw

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Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-4.6.16.fw
File: bnx2/bnx2-mips-06-5.0.0.j3.fw
File: bnx2/bnx2-mips-06-5.0.0.j6.fw
File: bnx2/bnx2-mips-06-6.0.15.fw
File: bnx2/bnx2-mips-06-6.2.1.fw

File: bnx2/bnx2-mips-06-6.2.3.fw
File: bnx2/bnx2-mips-09-4.6.17.fw
File: bnx2/bnx2-mips-09-5.0.0.j3.fw
File: bnx2/bnx2-mips-09-5.0.0.j9.fw
File: bnx2/bnx2-mips-09-5.0.0.j15.fw
File: bnx2/bnx2-mips-09-6.0.17.fw
File: bnx2/bnx2-mips-09-6.2.1.fw
File: bnx2/bnx2-mips-09-6.2.1a.fw
File: bnx2/bnx2-mips-09-6.2.1b.fw
File: bnx2/bnx2-rv2p-06-4.6.16.fw
File: bnx2/bnx2-rv2p-06-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-06-6.0.15.fw
File: bnx2/bnx2-rv2p-09-4.6.15.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09-6.0.17.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09ax-6.0.17.fw

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Driver: netxen_nic - NetXen Multi port (1/10) Gigabit Ethernet NIC

File: phanfw.bin
Version: 4.0.590

Licence: Redistributable. See LICENCE.phanfw for details.

Available from http://ldriver.qlogic.com/firmware/netxen_nic/new/

Driver: dvb-ttpci -- AV7110 cards

File: av7110/bootcode.bin
Source: av7110/Boot.S
Source: av7110/Makefile

Licence: GPLv2 or later

ARM assembly source code from https://linuxtv.org/downloads/firmware/Boot.S

Driver: snd-wavefront - ISA WaveFront sound card

File: yamaha/yss225_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

Found in hex form in kernel source, with the following comment:
Copyright (c) 1998-2002 by Paul Davis <pbd@op.net>

Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs

File: rt2561.bin
File: rt2561s.bin
File: rt2661.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

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Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs

File: rt73.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

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Driver: mt7601u - MediaTek MT7601U Wireless MACs

File: mt7601u.bin
Version: 34

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Downloaded from http://www.mediatek.com/en/downloads/

Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs

File: rt2860.bin
Version: 40

File: rt3290.bin
Version: 37

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest
from http://www.mediatek.com/en/downloads1/downloads/

Driver: rt2860sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

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Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs

File: rt2870.bin
Version: 36

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest
from http://www.mediatek.com/en/downloads1/downloads/

Driver: rt2870sta - Ralink RT2870, RT3070, RT3071 wireless MACs

Link: rt3070.bin -> rt2870.bin
File: rt3071.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

rt3071.bin is a copy of bytes 4096-8191 of rt2870.bin for compatibility.

Driver: usbdux/usbduxfast/usbduxsigma - usbdux data acquisition cards

File: usbdux_firmware.bin
File: usbduxfast_firmware.bin
File: usbduxsigma_firmware.bin
Source: usbdux/fx2-include.asm
Source: usbdux/usbduxfast_firmware.asm
Source: usbdux/usbdux_firmware.asm
Source: usbdux/usbduxsigma_firmware.asm

Licence: GPLv2. See source code in usbdux/ subdirectory.

Provided from the author, Bernd Porr <BerndPorr@f2s.com>

Driver: xc4000 - Xceive 4000 Tuner driver

File: dvb-fe-xc4000-1.4.1.fw
Version: 1.4.1

Licence: Redistributable. See LICENCE.xc4000 for details

Driver: xc5000 - Xceive 5000 Tuner driver

File: dvb-fe-xc5000-1.6.114.fw
Version: 1.6.114

File: dvb-fe-xc5000c-4.1.30.7.fw
Version: 4.1.30.7

Licence: Redistributable. See LICENCE.xc5000 and LICENCE.xc5000c for details

---

Driver: dib0700 - DiBcom dib0700 USB DVB bridge driver

File: dvb-usb-dib0700-1.20.fw
Version: 1.20

Licence: Redistributable. See LICENSE.dib0700 for details

Driver: ath3k - DFU Driver for Atheros bluetooth chipset AR3011

File: ath3k-1.fw
Version: 1.0

Fix EEPROM radio table issue and change PID to 3005

Licence: Redistributable. See LICENCE.atheros_firmware for details

---

Driver: mga - Matrox G200/G400/G550

File: matrox/g200_warp.fw
File: matrox/g400_warp.fw

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Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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Found in decimal form in kernel source.

Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin
File: radeon/R200_cp.bin
File: radeon/R300_cp.bin
File: radeon/R420_cp.bin
File: radeon/RS600_cp.bin
File: radeon/RS690_cp.bin
File: radeon/R520_cp.bin
File: radeon/R600_pfp.bin
File: radeon/R600_me.bin
File: radeon/RV610_pfp.bin
File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin
File: radeon/RV620_me.bin
File: radeon/RV635_pfp.bin
File: radeon/RV635_me.bin
File: radeon/RV670_pfp.bin
File: radeon/RV670_me.bin
File: radeon/RS780_pfp.bin
File: radeon/RS780_me.bin
File: radeon/RV770_pfp.bin
File: radeon/RV770_me.bin
File: radeon/RV730_pfp.bin
File: radeon/RV730_me.bin
File: radeon/RV710_pfp.bin
File: radeon/RV710_me.bin

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Driver: radeon - ATI Radeon

File: radeon/R600_rlc.bin
File: radeon/R600_uvd.bin
File: radeon/RS780_uvd.bin
File: radeon/R700_rlc.bin
File: radeon/RV710_uvd.bin
File: radeon/RV710_smc.bin
File: radeon/RV730_smc.bin

File: radeon/RV740_smc.bin
File: radeon/RV770_smc.bin
File: radeon/RV770_uvd.bin
File: radeon/CEDAR_me.bin
File: radeon/CEDAR_pfp.bin
File: radeon/CEDAR_rlc.bin
File: radeon/CEDAR_smc.bin
File: radeon/CYPRESS_me.bin
File: radeon/CYPRESS_pfp.bin
File: radeon/CYPRESS_rlc.bin
File: radeon/CYPRESS_uvd.bin
File: radeon/CYPRESS_smc.bin
File: radeon/JUNIPER_me.bin
File: radeon/JUNIPER_pfp.bin
File: radeon/JUNIPER_rlc.bin
File: radeon/JUNIPER_smc.bin
File: radeon/REDWOOD_me.bin
File: radeon/REDWOOD_pfp.bin
File: radeon/REDWOOD_rlc.bin
File: radeon/REDWOOD_smc.bin
File: radeon/PALM_me.bin
File: radeon/PALM_pfp.bin
File: radeon/SUMO_rlc.bin
File: radeon/SUMO_uvd.bin
File: radeon/BARTS_mc.bin
File: radeon/BARTS_me.bin
File: radeon/BARTS_pfp.bin
File: radeon/BARTS_smc.bin
File: radeon/BTC_rlc.bin
File: radeon/CAICOS_mc.bin
File: radeon/CAICOS_me.bin
File: radeon/CAICOS_pfp.bin
File: radeon/CAICOS_smc.bin
File: radeon/TURKS_mc.bin
File: radeon/TURKS_me.bin
File: radeon/TURKS_pfp.bin
File: radeon/TURKS_smc.bin
File: radeon/CAYMAN_mc.bin
File: radeon/CAYMAN_me.bin
File: radeon/CAYMAN_pfp.bin
File: radeon/CAYMAN_rlc.bin
File: radeon/CAYMAN_smc.bin
File: radeon/SUMO_pfp.bin
File: radeon/SUMO_me.bin
File: radeon/SUMO2_pfp.bin
File: radeon/SUMO2_me.bin
File: radeon/ARUBA_me.bin
File: radeon/ARUBA_pfp.bin
File: radeon/ARUBA_rlc.bin
File: radeon/PITCAIRN_ce.bin
File: radeon/PITCAIRN_mc.bin
File: radeon/PITCAIRN_mc2.bin
File: radeon/PITCAIRN_me.bin
File: radeon/PITCAIRN_pfp.bin
File: radeon/PITCAIRN_rlc.bin
File: radeon/PITCAIRN_smc.bin
File: radeon/TAHITI_ce.bin
File: radeon/TAHITI_mc.bin
File: radeon/TAHITI_mc2.bin
File: radeon/TAHITI_me.bin
File: radeon/TAHITI_pfp.bin
File: radeon/TAHITI_rlc.bin
File: radeon/TAHITI_uvd.bin
File: radeon/TAHITI_smc.bin
File: radeon/TAHITI_vce.bin
File: radeon/VERDE_ce.bin
File: radeon/VERDE_mc.bin
File: radeon/VERDE_mc2.bin
File: radeon/VERDE_me.bin
File: radeon/VERDE_pfp.bin
File: radeon/VERDE_rlc.bin
File: radeon/VERDE_smc.bin
File: radeon/OLAND_ce.bin
File: radeon/OLAND_mc.bin
File: radeon/OLAND_mc2.bin
File: radeon/OLAND_me.bin
File: radeon/OLAND_pfp.bin
File: radeon/OLAND_rlc.bin
File: radeon/OLAND_smc.bin
File: radeon/HAINAN_ce.bin
File: radeon/HAINAN_mc.bin
File: radeon/HAINAN_mc2.bin
File: radeon/HAINAN_me.bin

File: radeon/HAINAN_pfp.bin
File: radeon/HAINAN_rlc.bin
File: radeon/HAINAN_smc.bin
File: radeon/BONAIRE_ce.bin
File: radeon/BONAIRE_mc.bin
File: radeon/BONAIRE_mc2.bin
File: radeon/BONAIRE_me.bin
File: radeon/BONAIRE_mec.bin
File: radeon/BONAIRE_pfp.bin
File: radeon/BONAIRE_rlc.bin
File: radeon/BONAIRE_sdma.bin
File: radeon/BONAIRE_uvd.bin
File: radeon/BONAIRE_smc.bin
File: radeon/BONAIRE_vce.bin
File: radeon/KABINI_ce.bin
File: radeon/KABINI_me.bin
File: radeon/KABINI_mec.bin
File: radeon/KABINI_pfp.bin
File: radeon/KABINI_rlc.bin
File: radeon/KABINI_sdma.bin
File: radeon/KAVERI_ce.bin
File: radeon/KAVERI_me.bin
File: radeon/KAVERI_mec.bin
File: radeon/KAVERI_pfp.bin
File: radeon/KAVERI_rlc.bin
File: radeon/KAVERI_sdma.bin
File: radeon/HAWAII_ce.bin
File: radeon/HAWAII_mc.bin
File: radeon/HAWAII_mc2.bin
File: radeon/HAWAII_me.bin
File: radeon/HAWAII_mec.bin
File: radeon/HAWAII_pfp.bin
File: radeon/HAWAII_rlc.bin
File: radeon/HAWAII_sdma.bin
File: radeon/HAWAII_smc.bin
File: radeon/MULLINS_ce.bin
File: radeon/MULLINS_me.bin
File: radeon/MULLINS_mec.bin
File: radeon/MULLINS_pfp.bin
File: radeon/MULLINS_rlc.bin
File: radeon/MULLINS_sdma.bin
File: radeon/pitcairn_ce.bin
File: radeon/pitcairn_mc.bin
File: radeon/pitcairn_me.bin
File: radeon/pitcairn_pfp.bin
File: radeon/pitcairn_rlc.bin
File: radeon/pitcairn_smc.bin
File: radeon/tahiti_ce.bin
File: radeon/tahiti_mc.bin
File: radeon/tahiti_me.bin
File: radeon/tahiti_pfp.bin
File: radeon/tahiti_rlc.bin
File: radeon/tahiti_smc.bin
File: radeon/verde_ce.bin
File: radeon/verde_mc.bin
File: radeon/verde_me.bin
File: radeon/verde_pfp.bin
File: radeon/verde_rlc.bin
File: radeon/verde_smc.bin
File: radeon/oland_ce.bin
File: radeon/oland_mc.bin
File: radeon/oland_me.bin
File: radeon/oland_pfp.bin
File: radeon/oland_rlc.bin
File: radeon/oland_smc.bin
File: radeon/hainan_ce.bin
File: radeon/hainan_mc.bin
File: radeon/hainan_me.bin
File: radeon/hainan_pfp.bin
File: radeon/hainan_rlc.bin
File: radeon/hainan_smc.bin
File: radeon/bonaire_ce.bin
File: radeon/bonaire_mc.bin
File: radeon/bonaire_me.bin
File: radeon/bonaire_mec.bin
File: radeon/bonaire_pfp.bin
File: radeon/bonaire_rlc.bin
File: radeon/bonaire_sdma.bin
File: radeon/bonaire_sdma1.bin
File: radeon/bonaire_smc.bin
File: radeon/bonaire_uvd.bin
File: radeon/bonaire_vce.bin
File: radeon/kabini_ce.bin

File: radeon/kabini_me.bin
File: radeon/kabini_mec.bin
File: radeon/kabini_pfp.bin
File: radeon/kabini_rlc.bin
File: radeon/kabini_sdma.bin
File: radeon/kabini_sdma1.bin
File: radeon/kabini_uvd.bin
File: radeon/kabini_vce.bin
File: radeon/kaveri_ce.bin
File: radeon/kaveri_me.bin
File: radeon/kaveri_mec.bin
File: radeon/kaveri_mec2.bin
File: radeon/kaveri_pfp.bin
File: radeon/kaveri_rlc.bin
File: radeon/kaveri_sdma.bin
File: radeon/kaveri_sdma1.bin
File: radeon/kaveri_uvd.bin
File: radeon/kaveri_vce.bin
File: radeon/hawaii_ce.bin
File: radeon/hawaii_mc.bin
File: radeon/hawaii_me.bin
File: radeon/hawaii_mec.bin
File: radeon/hawaii_pfp.bin
File: radeon/hawaii_rlc.bin
File: radeon/hawaii_sdma.bin
File: radeon/hawaii_sdma1.bin
File: radeon/hawaii_smc.bin
File: radeon/hawaii_uvd.bin
File: radeon/hawaii_vce.bin
File: radeon/mullins_ce.bin
File: radeon/mullins_me.bin
File: radeon/mullins_mec.bin
File: radeon/mullins_pfp.bin
File: radeon/mullins_rlc.bin
File: radeon/mullins_sdma.bin
File: radeon/mullins_sdma1.bin
File: radeon/mullins_uvd.bin
File: radeon/mullins_vce.bin

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Driver: amdgpu - AMD Radeon

File: amdgpu/topaz_ce.bin
File: amdgpu/topaz_mc.bin
File: amdgpu/topaz_me.bin
File: amdgpu/topaz_mec2.bin
File: amdgpu/topaz_mec.bin
File: amdgpu/topaz_pfp.bin
File: amdgpu/topaz_rlc.bin
File: amdgpu/topaz_sdma1.bin
File: amdgpu/topaz_sdma.bin
File: amdgpu/topaz_smc.bin
File: amdgpu/tonga_ce.bin
File: amdgpu/tonga_mc.bin
File: amdgpu/tonga_me.bin
File: amdgpu/tonga_mec2.bin
File: amdgpu/tonga_mec.bin
File: amdgpu/tonga_pfp.bin
File: amdgpu/tonga_rlc.bin
File: amdgpu/tonga_sdma1.bin
File: amdgpu/tonga_sdma.bin
File: amdgpu/tonga_smc.bin
File: amdgpu/tonga_uvd.bin
File: amdgpu/tonga_vce.bin
File: amdgpu/carrizo_ce.bin
File: amdgpu/carrizo_me.bin
File: amdgpu/carrizo_mec2.bin
File: amdgpu/carrizo_mec.bin
File: amdgpu/carrizo_pfp.bin
File: amdgpu/carrizo_rlc.bin
File: amdgpu/carrizo_sdma1.bin
File: amdgpu/carrizo_sdma.bin
File: amdgpu/carrizo_uvd.bin
File: amdgpu/carrizo_vce.bin
File: amdgpu/fiji_ce.bin
File: amdgpu/fiji_mc.bin
File: amdgpu/fiji_me.bin
File: amdgpu/fiji_mec2.bin
File: amdgpu/fiji_mec.bin
File: amdgpu/fiji_pfp.bin

File: amdgpu/fiji_rlc.bin
File: amdgpu/fiji_sdma1.bin
File: amdgpu/fiji_sdma.bin
File: amdgpu/fiji_smc.bin
File: amdgpu/fiji_uvd.bin
File: amdgpu/fiji_vce.bin
File: amdgpu/stoney_ce.bin
File: amdgpu/stoney_me.bin
File: amdgpu/stoney_mec.bin
File: amdgpu/stoney_pfp.bin
File: amdgpu/stoney_rlc.bin
File: amdgpu/stoney_sdma.bin
File: amdgpu/stoney_uvd.bin
File: amdgpu/stoney_vce.bin
File: amdgpu/polaris10_ce.bin
File: amdgpu/polaris10_mc.bin
File: amdgpu/polaris10_me.bin
File: amdgpu/polaris10_mec2.bin
File: amdgpu/polaris10_mec.bin
File: amdgpu/polaris10_pfp.bin
File: amdgpu/polaris10_rlc.bin
File: amdgpu/polaris10_sdma1.bin
File: amdgpu/polaris10_sdma.bin
File: amdgpu/polaris10_smc.bin
File: amdgpu/polaris10_smc_sk.bin
File: amdgpu/polaris10_uvd.bin
File: amdgpu/polaris10_vce.bin
File: amdgpu/polaris11_ce.bin
File: amdgpu/polaris11_mc.bin
File: amdgpu/polaris11_me.bin
File: amdgpu/polaris11_mec2.bin
File: amdgpu/polaris11_mec.bin
File: amdgpu/polaris11_pfp.bin
File: amdgpu/polaris11_rlc.bin
File: amdgpu/polaris11_sdma1.bin
File: amdgpu/polaris11_sdma.bin
File: amdgpu/polaris11_smc.bin
File: amdgpu/polaris11_smc_sk.bin
File: amdgpu/polaris11_uvd.bin
File: amdgpu/polaris11_vce.bin

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Driver: s2255drv

File: f2255usb.bin

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Driver: rtl8192e - Realtek 8192 PCI wireless driver

File: RTL8192E/boot.img
File: RTL8192E/data.img
File: RTL8192E/main.img

Licence: Redistributable, provided by Realtek in their driver
source download.

Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

Driver: ib_qib - QLogic Infiniband

File: qlogic/sd7220.fw

Licence:


```
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```


Found in hex form in kernel source.

Driver: qed - QLogic 4xxxx Ethernet Driver Core Module.

File: qed/qed_init_values_zipped-8.4.2.0.bin
File: qed/qed_init_values_zipped-8.7.3.0.bin
File: qed/qed_init_values_zipped-8.10.5.0.bin
File: qed/qed_init_values_zipped-8.10.10.0.bin

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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset

File: ueagle-atm/CMV4p.bin.v2
File: ueagle-atm/DSP4p.bin
File: ueagle-atm/eagleIV.fw
Version: 1.0

Licence: Redistributable. See LICENCE.ueagle-atm4-firmware for details

---

Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle I,II,III

File: ueagle-atm/930-fpga.bin
File: ueagle-atm/CMVeiWO.bin
File: ueagle-atm/CMVepFR10.bin
File: ueagle-atm/DSP9p.bin
File: ueagle-atm/eagleIII.fw
File: ueagle-atm/adi930.fw
File: ueagle-atm/CMVep.bin
File: ueagle-atm/CMVepFR.bin
File: ueagle-atm/DSPei.bin
File: ueagle-atm/CMV9i.bin
File: ueagle-atm/CMVepES03.bin
File: ueagle-atm/CMVepIT.bin
File: ueagle-atm/DSPep.bin
File: ueagle-atm/CMV9p.bin
File: ueagle-atm/CMVepES.bin

File: ueagle-atm/CMVepWO.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/CMVei.bin
File: ueagle-atm/CMVepFR04.bin
File: ueagle-atm/DSP9i.bin
File: ueagle-atm/eagleII.fw
Version: 1.1

Licence: Redistributable. Based on
https://mail.gna.org/public/eagleusb-dev/2004-11/msg00172.html

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Driver: vxge - Exar X3100 Series 10GbE PCIe I/O Virtualized Server Adapter

File: vxge/X3fw.ncf
File: vxge/X3fw-pxe.ncf
Version: 1.8.1

Licence:

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Driver: brcmsmac - Broadcom 802.11n softmac wireless LAN driver.

File: brcm/bcm43xx-0.fw
File: brcm/bcm43xx_hdr-0.fw
Version: 610.812

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

Driver: brcmfmac - Broadcom 802.11n fullmac wireless LAN driver.

File: brcm/bcm4329-fullmac-4.bin
File: brcm/brcmfmac43236b.bin
File: brcm/brcmfmac4329-sdio.bin
File: brcm/brcmfmac4330-sdio.bin
File: brcm/brcmfmac4334-sdio.bin
File: brcm/brcmfmac43340-sdio.bin
File: brcm/brcmfmac4335-sdio.bin
File: brcm/brcmfmac43362-sdio.bin
File: brcm/brcmfmac4339-sdio.bin
File: brcm/brcmfmac43241b0-sdio.bin
File: brcm/brcmfmac43241b4-sdio.bin
File: brcm/brcmfmac43241b5-sdio.bin
File: brcm/brcmfmac43242a.bin
File: brcm/brcmfmac43143.bin
File: brcm/brcmfmac43143-sdio.bin
File: brcm/brcmfmac43430-sdio.bin
File: brcm/brcmfmac43455-sdio.bin
File: brcm/brcmfmac4350c2-pcie.bin
File: brcm/brcmfmac4350-pcie.bin
File: brcm/brcmfmac4354-sdio.bin
File: brcm/brcmfmac4356-pcie.bin
File: brcm/brcmfmac43569.bin
File: brcm/brcmfmac43570-pcie.bin
File: brcm/brcmfmac43602-pcie.bin
File: brcm/brcmfmac43602-pcie.ap.bin
File: brcm/brcmfmac4366b-pcie.bin
File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

Driver: tda7706 - FM radio Highly integrated tuner for AM/FM car-radio

File: TDA7706_OM_v2.5.1_boot.txt
File: TDA7706_OM_v3.0.2_boot.txt

Licence: Redistributable. See LICENCE.tda7706-firmware.txt for details.
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Driver: wl1251 - Texas Instruments 802.11 WLAN driver for WiLink4 chips

File: ti-connectivity/wl1251-fw.bin
Version: 4.0.4.3.7

File: ti-connectivity/wl1251-nvs.bin

Licence: Redistributable. See LICENCE.wl1251 for details.

The published NVS files are for testing only. Every device needs to
have a unique NVS which is properly calibrated for best results.

The driver expects to find the firmwares under a ti-connectivity subdirectory.
So if your system looks for firmwares in /lib/firmware, the firmwares for
wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl12xx - Texas Instruments 802.11 WLAN driver for WiLink6/7 chips

File: ti-connectivity/wl1271-fw.bin
Version: 6.1.0.50.350 (STA-only)
File: ti-connectivity/wl1271-fw-2.bin
Version: 6.1.5.50.74 (STA-only)
File: ti-connectivity/wl1271-fw-ap.bin
Version: 6.2.1.0.54 (AP-only)
File: ti-connectivity/wl127x-fw-3.bin
Version: 6.3.0.0.77
File: ti-connectivity/wl127x-fw-plt-3.bin
Version: 6.3.0.0.77 (PLT-only)
File: ti-connectivity/wl127x-fw-4-sr.bin
Version: 6.3.5.0.98 (Single-role)
File: ti-connectivity/wl127x-fw-4-mr.bin
Version: 6.5.2.0.15 (Multi-role)
File: ti-connectivity/wl127x-fw-4-plt.bin
Version: 6.3.5.0.98 (PLT-only)
File: ti-connectivity/wl127x-fw-5-sr.bin
Version: 6.3.10.0.133 (Single-role)
File: ti-connectivity/wl127x-fw-5-mr.bin
Version: 6.5.7.0.42 (Multi-role)
File: ti-connectivity/wl127x-fw-5-plt.bin
Version: 6.3.10.0.133 (PLT-only)

File: ti-connectivity/wl128x-fw.bin
Version: 7.1.5.50.74 (STA-only)
File: ti-connectivity/wl128x-fw-ap.bin
Version: 7.2.1.0.54 (AP-only)
File: ti-connectivity/wl128x-fw-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-plt-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-4-sr.bin
Version: 7.3.5.0.98 (Single-role)
File: ti-connectivity/wl128x-fw-4-mr.bin
Version: 7.5.2.0.15 (Multi-role)
File: ti-connectivity/wl128x-fw-4-plt.bin
Version: 7.3.5.0.98 (PLT)
File: ti-connectivity/wl128x-fw-5-sr.bin
Version: 7.3.10.0.133 (Single-role)
File: ti-connectivity/wl128x-fw-5-mr.bin
Version: 7.5.7.0.42 (Multi-role)
File: ti-connectivity/wl128x-fw-5-plt.bin
Version: 7.3.10.2.133 (PLT-only)

File: ti-connectivity/wl127x-nvs.bin
File: ti-connectivity/wl128x-nvs.bin
Link: ti-connectivity/wl12xx-nvs.bin -> wl127x-nvs.bin
Link: ti-connectivity/wl1271-nvs.bin -> wl127x-nvs.bin

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The NVS file includes two parts:
- radio calibration
- HW configuration parameters (aka. INI values)

The published NVS files are for testing only. Every device needs to
hava a unique NVS which is properly calibrated for best results. You
can find more information about NVS generation for your device here:

http://wireless.kernel.org/en/users/Drivers/wl12xx/calibrator

If you're using a wl127x based device, use a symbolic link called

wl1271-nvs.bin that links to the wl127x-nvs.bin file. If you are
using wl128x, link to wl128x-nvs.bin instead.

The driver expects to find the firmwares under a ti-connectivity
subdirectory. So if your system looks for firmwares in /lib/firmware,
the firmwares for wl12xx chips must be located in
/lib/firmware/ti-connectivity/.

Driver: wl18xx - Texas Instruments 802.11 WLAN driver for WiLink8 chips

File: ti-connectivity/wl18xx-fw.bin
Version: 8.2.0.0.100
File: ti-connectivity/wl18xx-fw-2.bin
Version: 8.5.0.0.55
File: ti-connectivity/wl18xx-fw-3.bin
Version: 8.8.0.0.13
File: ti-connectivity/wl18xx-fw-4.bin
Version: 8.9.0.0.69

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The driver expects to find the firmwares under a ti-connectivity
subdirectory. So if your system looks for firmwares in /lib/firmware,
the firmwares for wl18xx chips must be located in
/lib/firmware/ti-connectivity/.

Driver: TI_ST - Texas Instruments bluetooth driver

File: ti-connectivity/TIInit_7.2.31.bts

Licence: Redistributable. See LICENCE.ti-connectivity for details.

TIInit_7.2.31.bts version 7.2.31

In order to use that file copy it to /lib/firmware/ti-connectivity.

Driver: tlg2300 - Telgent 2300 V4L/DVB driver.

File: tlg2300_firmware.bin

Licence: Redistributable.

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the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
PURPOSE.

Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/rtl8712u.bin
Info: From Vendor's rtl8712_8188_8191_8192SU_usb_linux_v7_0.20100831
Reverted rtl8188C_8192C_8192D_usb_linux_v3.4.2_3727.20120404

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cfw.bin
File: rtlwifi/rtl8192cfwU.bin
File: rtlwifi/rtl8192cfwU_B.bin
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cufw.bin

File: rtlwifi/rtl8192cufw_A.bin
File: rtlwifi/rtl8192cufw_B.bin
File: rtlwifi/rtl8192cufw_TMSC.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192se - Realtek 802.11n WLAN driver for RTL8192SE

Info: updated from rtl_92ce_92se_92de_linux_mac80211_0004.0816.2011 driver version
File: rtlwifi/rtl8192sefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192de - Realtek 802.11n WLAN driver for RTL8192DE

Info: Updated from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8192defw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723e - Realtek 802.11n WLAN driver for RTL8723E

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8723fw.bin
File: rtlwifi/rtl8723fw_B.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723be - Realtek 802.11n WLAN driver for RTL8723BE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8723befw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: r8723au - Realtek 802.11n WLAN driver for RTL8723AU

Info: Taken from Realtek driver rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8188ee - Realtek 802.11n WLAN driver for RTL8188EE

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_88ee_linux_mac80211_0010.0109.2013
File: rtlwifi/rtl8188efw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8188eu - Realtek 802.11n WLAN driver for RTL8188EU

Info: Taken from Realtek version RTL8188EUS_linux_v4.1.4_6773.20130222
File: rtlwifi/rtl8188eufw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8821aefw.bin
File: rtlwifi/rtl8821aefw_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

Info: Initial version taken from Realtek version
rtl_92ce_92se_92de_8723ae_88ee_8723be_92ee_linux_mac80211_0017.1224.2013
Updated Jan. 14, 2015 with file added by Realtek to
http://github.com/lwfinger/rtlwifi_new.git.
File: rtlwifi/rtl8192eefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver
rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Info: rtl8723bu taken from Realtek driver
rtl8723BU_WiFi_linux_v4.3.16_14189.20150519_BTCOEX20150119-5844
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723bu_nic.bin
File: rtlwifi/rtl8723bu_wowlan.bin
File: rtlwifi/rtl8723bu_ap_wowlan.bin

Info: rtl8192eu taken from Realtek driver
rtl8192EU_linux_v4.3.1.1_11320.20140505
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8192eu_nic.bin
File: rtlwifi/rtl8192eu_wowlan.bin
File: rtlwifi/rtl8192eu_ap_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl_nic/rtl8168d-1.fw
File: rtl_nic/rtl8168d-2.fw
File: rtl_nic/rtl8105e-1.fw
File: rtl_nic/rtl8168e-1.fw
File: rtl_nic/rtl8168e-2.fw

File: rtl_nic/rtl8168e-3.fw
Version: 0.0.4

File: rtl_nic/rtl8168f-1.fw
Version: 0.0.5

File: rtl_nic/rtl8168f-2.fw
Version: 0.0.4

File: rtl_nic/rtl8411-1.fw
Version: 0.0.3

File: rtl_nic/rtl8411-2.fw
Version: 0.0.1

File: rtl_nic/rtl8402-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-1.fw
Version: 0.0.3

File: rtl_nic/rtl8168g-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-3.fw
Version: 0.0.1

File: rtl_nic/rtl8168h-1.fw
Version: 0.0.2

File: rtl_nic/rtl8168h-2.fw
Version: 0.0.2

File: rtl_nic/rtl8107e-1.fw
Version: 0.0.2

File: rtl_nic/rtl8107e-2.fw
Version: 0.0.2

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Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusb.fw

Licence: Redistributable. See LICENCE.via_vt6656 for details.

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020001.dfu
File: ar3k/ramps_0x01020001_26.dfu
File: ar3k/AthrBT_0x01020200.dfu
File: ar3k/ramps_0x01020200_26.dfu
File: ar3k/ramps_0x01020200_40.dfu
File: ar3k/AthrBT_0x31010000.dfu
File: ar3k/ramps_0x31010000_40.dfu
File: ar3k/AthrBT_0x11020000.dfu
File: ar3k/ramps_0x11020000_40.dfu
File: ar3k/ramps_0x01020201_26.dfu
File: ar3k/ramps_0x01020201_40.dfu
File: ar3k/AthrBT_0x41020000.dfu
File: ar3k/ramps_0x41020000_40.dfu
File: ar3k/AthrBT_0x11020100.dfu
File: ar3k/ramps_0x11020100_40.dfu
File: ar3k/AthrBT_0x31010100.dfu
File: ar3k/ramps_0x31010100_40.dfu

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020201.dfu
File: ar3k/1020201coex/ramps_0x01020201_26_HighPriority.dfu

Licence: Redistributable. See LICENSE.QualcommAtheros_ar3k for details

---

Driver:Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS_ASIC.pst
File: ar3k/1020201/RamPatch.txt
File: ar3k/1020200/ar3kbdaddr.pst
File: ar3k/1020200/PS_ASIC.pst
File: ar3k/1020200/RamPatch.txt
File: ar3k/30101/ar3kbdaddr.pst
File: ar3k/30101/PS_ASIC.pst
File: ar3k/30101/RamPatch.txt
File: ar3k/30000/ar3kbdaddr.pst
File: ar3k/30000/PS_ASIC.pst
File: ar3k/30000/RamPatch.txt

Licence: Redistributable. See LICENCE.atheros_firmware for details

---

Driver: ath6kl - Atheros support for AR6003

File: ath6k/AR6004/hw1.3/fw-3.bin
File: ath6k/AR6004/hw1.3/bdata.bin
File: ath6k/AR6004/hw1.2/fw-2.bin
File: ath6k/AR6004/hw1.2/bdata.bin
File: ath6k/AR6003/hw1.0/otp.bin.z77
File: ath6k/AR6003/hw1.0/bdata.SD31.bin
File: ath6k/AR6003/hw1.0/bdata.SD32.bin
File: ath6k/AR6003/hw1.0/data.patch.bin
File: ath6k/AR6003/hw1.0/bdata.WB31.bin
File: ath6k/AR6003/hw1.0/athwlan.bin.z77
File: ath6k/AR6003/hw2.1.1/fw-2.bin
File: ath6k/AR6003/hw2.1.1/fw-3.bin
File: ath6k/AR6003/hw2.1.1/otp.bin
File: ath6k/AR6003/hw2.1.1/athwlan.bin
File: ath6k/AR6003/hw2.1.1/endpointping.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003/hw2.1.1/data.patch.bin
File: ath6k/AR6003/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/otp.bin.z77
File: ath6k/AR6003/hw2.0/bdata.SD31.bin
File: ath6k/AR6003/hw2.0/bdata.SD32.bin
File: ath6k/AR6003/hw2.0/data.patch.bin
File: ath6k/AR6003/hw2.0/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/athwlan.bin.z77
File: ath6k/AR6002/eeprom.data
File: ath6k/AR6002/eeprom.bin
File: ath6k/AR6002/athwlan.bin.z77
File: ath6k/AR6002/data.patch.hw2_0.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

---

Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

File: ath10k/QCA988X/hw2.0/board.bin
File: ath10k/QCA988X/hw2.0/firmware-4.bin
Version: 10.2.4.45
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA988X/hw2.0/firmware-5.bin
Version: 10.2.4.70.54
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw2.1/board.bin
File: ath10k/QCA6174/hw2.1/board-2.bin
File: ath10k/QCA6174/hw2.1/firmware-5.bin
Version: SW_RM.1.1.1-00157-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw2.1/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw3.0/board.bin
File: ath10k/QCA6174/hw3.0/board-2.bin
File: ath10k/QCA6174/hw3.0/firmware-4.bin
Version: WLAN.RM.2.0-00180-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA9377/hw1.0/board.bin
File: ath10k/QCA9377/hw1.0/board-2.bin
File: ath10k/QCA9377/hw1.0/firmware-5.bin
Version: WLAN.TF.1.0-00267-1
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA99X0/hw2.0/board.bin
File: ath10k/QCA99X0/hw2.0/firmware-5.bin
Version: 10.4.1.00030-1
Licence: ath10k/QCA99X0/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA4019/hw1.0/board-2.bin
File: ath10k/QCA4019/hw1.0/firmware-5.bin
Version: 10.4-3.2.1-00028
Licence: ath10k/QCA4019/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9887/hw1.0/board.bin
File: ath10k/QCA9887/hw1.0/firmware-5.bin
Version: 10.2.4-1.0-00013
Licence: ath10k/QCA9887/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9888/hw2.0/board-2.bin
File: ath10k/QCA9888/hw2.0/firmware-5.bin
Version: 10.4-3.2-00072
Licence: ath10k/QCA9888/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9984/hw1.0/board-2.bin
File: ath10k/QCA9984/hw1.0/firmware-5.bin
Version: 10.4-3.2-00072
Licence: ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

---

Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat
File: myri10ge_ethp_z8e.dat
File: myri10ge_rss_eth_z8e.dat
File: myri10ge_rss_ethp_z8e.dat
File: myri10ge_eth_big_z8e.dat
File: myri10ge_ethp_big_z8e.dat
File: myri10ge_rss_eth_big_z8e.dat
File: myri10ge_rss_ethp_big_z8e.dat
Version: 1.4.57

License: Redistributable. See LICENCE.myri10ge_firmware for details.

Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003.1/hw2.1.1/data.patch.bin
File: ath6k/AR6003.1/hw2.1.1/endpointping.bin
File: ath6k/AR6003.1/hw2.1.1/otp.bin

License: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath6kl - Atheros support for AR3001 WiFi-Bluetooth combo module

File: ar3k/30101coex/ar3kbdaddr.pst
File: ar3k/30101coex/PS_ASIC_aclLowPri.pst
File: ar3k/30101coex/PS_ASIC_aclHighPri.pst
File: ar3k/30101coex/PS_ASIC.pst
File: ar3k/30101coex/RamPatch.txt

License: Redistributable. See LICENCE.atheros_firmware for details

---

Driver: drxk - Micronas DRX-K demodulator driver

File: dvb-usb-terratec-h5-drxk.fw

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Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd_init1.bin
File: ene-ub6250/sd_init2.bin
File: ene-ub6250/sd_rdwr.bin
File: ene-ub6250/ms_init.bin
File: ene-ub6250/msp_rdwr.bin
File: ene-ub6250/ms_rdwr.bin

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Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin
Source: isci/create_fw.c
Source: isci/create_fw.h
Source: isci/probe_roms.h
Source: isci/Makefile

Licence: GPLv2

Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: s5p-mfc - Samsung MFC video encoder/decoder driver

File: s5p-mfc.fw
File: s5p-mfc-v6.fw
File: s5p-mfc-v6-v2.fw
File: s5p-mfc-v7.fw
File: s5p-mfc-v8.fw

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/

Downloaded from http://linuxwireless.org/en/users/Drivers/carl9170

Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence.

Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec

File: ctefx.bin
File: ctspeq.bin

Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsa-firmware package.

Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq
Version: 1316.02.00
File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_86_0001
File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_86_0001
File: intel/ibt-hw-37.7.10-fw-1.80.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_38_0001
File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_38_0001
File: intel/ibt-hw-37.8.bseq
Version: 1339_02.00
File: intel/ibt-hw-37.8.10-fw-1.10.2.27.d.bseq
Version: BT_StonePeak_C0_REL_58_0001
File: intel/ibt-hw-37.8.10-fw-1.10.3.11.e.bseq
Version: BT_StonePeak_D0_REL_37_0002
File: intel/ibt-hw-37.8.10-fw-22.50.19.14.f.bseq
Version: BT_StonePeak_D1_REL_20_0001
File: intel/ibt-11-5.ddc
Version: LnP/SfP_REL0257
File: intel/ibt-11-5.sfi
Version: BT_LightningPeak_REL0330
File: intel/ibt-12-16.ddc
Version: BT_WindStormPeak_REL0060
File: intel/ibt-12-16.sfi
Version: BT_WindStormPeak_REL0060

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File: rtl_bt/rtl8192ee_fw.bin
File: rtl_bt/rtl8192eu_fw.bin
File: rtl_bt/rtl8723a_fw.bin
File: rtl_bt/rtl8723b_fw.bin
File: rtl_bt/rtl8761a_fw.bin
File: rtl_bt/rtl8812ae_fw.bin
File: rtl_bt/rtl8821a_fw.bin
File: rtl_bt/rtl8822b_fw.bin
File: rtl_bt/rtl8822b_config.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b_* came directly from Realtek.

Driver: btmtk_usb - Bluetooth USB driver

File: mt7650.bin

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

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Driver: rp2 -- Comtrol RocketPort 2 serial driver

File: rp2.fw

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Driver: go7007

File: go7007/s2250-1.fw
File: go7007/s2250-2.fw
Link: s2250.fw -> go7007/s2250-2.fw
Link: s2250_loader.fw -> go7007/s2250-1.fw

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File: go7007/go7007fw.bin
File: go7007/go7007tv.bin
File: go7007/lr192.fw
File: go7007/px-m402u.fw
File: go7007/px-tv402u.fw
File: go7007/wis-startrek.fw

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Driver: microcode_amd - AMD CPU Microcode Update Driver for Linux

File: amd-ucode/microcode_amd.bin
Version: 2013-07-10
File: amd-ucode/microcode_amd_fam15h.bin
Version: 2016-03-16
File: amd-ucode/microcode_amd_fam16h.bin
Version: 2014-10-28

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Driver: mxu11x0 - MOXA UPort 11x0 USB Serial hub driver

File: moxa/moxa-1110.fw
File: moxa/moxa-1130.fw
File: moxa/moxa-1131.fw
File: moxa/moxa-1150.fw
File: moxa/moxa-1151.fw

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Driver: mxuport - MOXA UPort USB Serial hub driver

File: moxa/moxa-1250.fw
File: moxa/moxa-1251.fw
File: moxa/moxa-1410.fw
File: moxa/moxa-1450.fw
File: moxa/moxa-1451.fw
File: moxa/moxa-1613.fw
File: moxa/moxa-1618.fw
File: moxa/moxa-1653.fw
File: moxa/moxa-1658.fw

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Driver: cw1200 - ST-E CW1100/CW1200 WLAN driver

File: wsm_22.bin
Version: WSM395
Licence: Redistributable. See LICENCE.cw1200 for details.

File: sdd_sagrad_1091_1098.bin

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Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

File: cbfw-3.2.1.1.bin
File: ctfw-3.2.1.1.bin
File: ct2fw-3.2.1.1.bin
File: cbfw-3.2.3.0.bin
File: ctfw-3.2.3.0.bin
File: ct2fw-3.2.3.0.bin
File: cbfw-3.2.5.1.bin
File: ctfw-3.2.5.1.bin
File: ct2fw-3.2.5.1.bin

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Driver: qat - Intel(R) QAT crypto accelerator

File: qat_895xcc.bin
File: qat_895xcc_mmp.bin
File: qat_c3xxx.bin
File: qat_c3xxx_mmp.bin
File: qat_c62x.bin
File: qat_c62x_mmp.bin

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Driver: rsi -- Redpine Signals Inc 91x driver

File: rsi_91x.fw

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Driver: xhci-rcar -- Renesas R-Car Gen2/3 USB 3.0 host controller driver

File: r8a779x_usb3_v1.dlmem
File: r8a779x_usb3_v2.dlmem
File: r8a779x_usb3_v3.dlmem

Licence: Redistributable. See LICENCE.r8a779x_usb3 for details.

Driver: snd_soc_sst_acpi

File: intel/fw_sst_0f28.bin-48kHz_i2s_master

License: Redistributable. See LICENCE.fw_sst_0f28 for details

---

Driver: as102 - Abilis Systems Single DVB-T Receiver

File: as102_data1_st.hex
File: as102_data2_st.hex

License: Redistributable. See LICENCE.Abilis for details

Driver: it9135 -- ITEtech IT913x DVB-T USB driver

File: dvb-usb-it9135-01.fw
File: dvb-usb-it9135-02.fw

Licence: Redistributable. See LICENCE.it913x for details

Driver: snd_soc_sst_acpi

File: intel/IntcSST2.bin
Version: 8.4.1.77

License: Redistributable. See LICENCE.IntcSST2 for details

Driver: snd_intel_sst_core

File: intel/fw_sst_0f28.bin

License: Redistributable. See LICENCE.fw_sst_0f28 for details

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Driver: snd_intel_sst_core

File: intel/fw_sst_22a8.bin
Version: 01.0B.02.02

License: Redistributable. See LICENCE.fw_sst_0f28 for details

---

Driver: snd-soc-skl

File: intel/dsp_fw_release.bin
Version: 8.20.00.958
md5sum: 02bd300f5ef85ae04afffd7c0ef50c46

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_bxt.bin
Version: 9.22.00.1118
md5sum: 469dfcf5b2ebbc58505a0cca23303723

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_kbl.bin
Version: 09.21.00.1037
md5sum: e71a2421565fadae228b3924d9510bcb

License: Redistributable. See LICENCE.adsp_sst for details

Driver: smsmdtv - Siano MDTV Core module

File: cmmb_vega_12mhz.inp
File: cmmb_venice_12mhz.inp
File: dvb_nova_12mhz.inp
File: dvb_nova_12mhz_b0.inp
File: isdbt_nova_12mhz.inp
File: isdbt_nova_12mhz_b0.inp
File: isdbt_rio.inp
File: sms1xxx-hcw-55xxx-dvbt-02.fw
File: sms1xxx-hcw-55xxx-isdbt-02.fw
File: sms1xxx-nova-a-dvbt-01.fw
File: sms1xxx-nova-b-dvbt-01.fw
File: sms1xxx-stellar-dvbt-01.fw
File: tdmb_nova_12mhz.inp

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Driver: xhci-tegra -- NVIDIA Tegra XHCI driver

File: nvidia/tegra124/xusb.bin
Version: v45.46

File: nvidia/tegra210/xusb.bin
Version: v50.10

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Driver: atusb - ATUSB IEEE 802.15.4 transceiver driver

File: atusb/atusb-0.2.dfu
Version: 0.2
Info: atusb/ChangeLog

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Driver: qca - Qualcomm Atheros Bluetooth support for QCA61x4 chips

File: qca/nvm_usb_00000201.bin
File: qca/nvm_usb_00000200.bin
File: qca/nvm_usb_00000300.bin
File: qca/nvm_usb_00000302.bin
File: qca/nvm_00130300.bin

File: qca/nvm_00130302.bin
File: qca/rampatch_usb_00000200.bin
File: qca/rampatch_usb_00000201.bin
File: qca/rampatch_usb_00000300.bin
File: qca/rampatch_usb_00000302.bin
File: qca/rampatch_00130300.bin
File: qca/rampatch_00130302.bin

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Driver: liquidio -- Cavium LiquidIO driver

File: liquidio/lio_210nv_nic.bin
Version: v1.1.9

File: liquidio/lio_210sv_nic.bin
Version: v1.1.9

File: liquidio/lio_410nv_nic.bin
Version: v1.1.9

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Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl_dmc_ver1_23.bin
File: i915/skl_dmc_ver1_26.bin
File: i915/skl_dmc_ver1.bin
Version: DMC API/ABI ver 1 - release 26 for Skylake

File: i915/bxt_dmc_ver1_07.bin
File: i915/bxt_dmc_ver1.bin
Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl_dmc_ver1_01.bin
File: i915/kbl_dmc_ver1.bin
Version: DMC API/ABI ver 1 - release 01 for Kabylake

File: i915/skl_guc_ver1.bin
Version: Guc API/ABI ver 1 - release 1059 for Skylake

File: i915/skl_guc_ver4.bin
Version: Guc API/ABI ver 4 - release 3 for Skylake

File: i915/skl_guc_ver6_1.bin
File: i915/skl_guc_ver6.bin
Version: Guc API/ABI ver 6 - release 1 for Skylake

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Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs_data.bin
File: nvidia/gk20a/fecs_inst.bin
File: nvidia/gk20a/gpccs_data.bin
File: nvidia/gk20a/gpccs_inst.bin
File: nvidia/gk20a/sw_bundle_init.bin
File: nvidia/gk20a/sw_ctx.bin
File: nvidia/gk20a/sw_method_init.bin
File: nvidia/gk20a/sw_nonctx.bin
File: nvidia/gm200/acr/bl.bin
File: nvidia/gm200/acr/ucode_load.bin
File: nvidia/gm200/acr/ucode_unload.bin
File: nvidia/gm200/gr/fecs_bl.bin
File: nvidia/gm200/gr/fecs_data.bin
File: nvidia/gm200/gr/fecs_inst.bin
File: nvidia/gm200/gr/fecs_sig.bin
File: nvidia/gm200/gr/gpccs_bl.bin
File: nvidia/gm200/gr/gpccs_data.bin
File: nvidia/gm200/gr/gpccs_inst.bin
File: nvidia/gm200/gr/gpccs_sig.bin
File: nvidia/gm200/gr/sw_bundle_init.bin
File: nvidia/gm200/gr/sw_ctx.bin
File: nvidia/gm200/gr/sw_method_init.bin
File: nvidia/gm200/gr/sw_nonctx.bin
File: nvidia/gm204/acr/bl.bin
File: nvidia/gm204/acr/ucode_load.bin

File: nvidia/gm204/acr/ucode_unload.bin
File: nvidia/gm204/gr/fecs_bl.bin
File: nvidia/gm204/gr/fecs_data.bin
File: nvidia/gm204/gr/fecs_inst.bin
File: nvidia/gm204/gr/fecs_sig.bin
File: nvidia/gm204/gr/gpccs_bl.bin
File: nvidia/gm204/gr/gpccs_data.bin
File: nvidia/gm204/gr/gpccs_inst.bin
File: nvidia/gm204/gr/gpccs_sig.bin
File: nvidia/gm204/gr/sw_bundle_init.bin
File: nvidia/gm204/gr/sw_ctx.bin
File: nvidia/gm204/gr/sw_method_init.bin
File: nvidia/gm204/gr/sw_nonctx.bin
File: nvidia/gm206/acr/bl.bin
File: nvidia/gm206/acr/ucode_load.bin
File: nvidia/gm206/acr/ucode_unload.bin
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File: nvidia/gm206/gr/sw_ctx.bin
File: nvidia/gm206/gr/sw_method_init.bin
File: nvidia/gm206/gr/sw_nonctx.bin
File: nvidia/gm20b/acr/bl.bin
File: nvidia/gm20b/acr/ucode_load.bin
File: nvidia/gm20b/gr/fecs_bl.bin
File: nvidia/gm20b/gr/fecs_data.bin
File: nvidia/gm20b/gr/fecs_inst.bin
File: nvidia/gm20b/gr/fecs_sig.bin
File: nvidia/gm20b/gr/gpccs_bl.bin
File: nvidia/gm20b/gr/gpccs_data.bin
File: nvidia/gm20b/gr/gpccs_inst.bin
File: nvidia/gm20b/gr/gpccs_sig.bin
File: nvidia/gm20b/gr/sw_bundle_init.bin
File: nvidia/gm20b/gr/sw_ctx.bin
File: nvidia/gm20b/gr/sw_method_init.bin
File: nvidia/gm20b/gr/sw_nonctx.bin
File: nvidia/gp100/acr/bl.bin
File: nvidia/gp100/acr/ucode_load.bin
File: nvidia/gp100/acr/ucode_unload.bin
File: nvidia/gp100/gr/fecs_bl.bin
File: nvidia/gp100/gr/fecs_data.bin
File: nvidia/gp100/gr/fecs_inst.bin
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File: nvidia/gp100/gr/gpccs_data.bin
File: nvidia/gp100/gr/gpccs_inst.bin
File: nvidia/gp100/gr/gpccs_sig.bin
File: nvidia/gp100/gr/sw_bundle_init.bin
File: nvidia/gp100/gr/sw_ctx.bin
File: nvidia/gp100/gr/sw_method_init.bin
File: nvidia/gp100/gr/sw_nonctx.bin

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Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin
File: atmel/wilc1000_p2p_fw.bin

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Driver: hfi1 - Intel OPA Gen 1 adapter

File: hfi1_dc8051.fw
Version: 0.35
File: hfi1_fabric.fw
File: hfi1_pcie.fw
File: hfi1_sbus.fw
File: hfi1_platform.dat

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Driver: knav_qmss_queue - TI Keystone 2 QMSS driver

File: ti-keystone/ks2_qmss_pdsp_acc48_k2_le_1_0_0_9.bin

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Driver: mwlwifi - Marvell mac80211 driver for 80211ac cards.

File: mwlwifi/88W8864.bin
Version: 7.2.8.6

File: mwlwifi/88W8897.bin
Version: 8.2.0.10

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Driver: mtk-vpu - Mediatek VPU video processing unit driver

File: vpu_d.bin
File: vpu_p.bin

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Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin
Version: 2.9

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Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares <Ramon.Cazares@CrestaTech.com> to Devin Heitmueller dheitmueller@linuxtv.org

on July 25, 2012.

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File name: LICENSE.dib0700

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File name: generic_Firmware-fw_sst_0f28

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Chelsio Communication Terminator 4/5 ethernet controller firmware

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File name: LICENCE.agere

agere_sta_fw.bin -- 9.48 Hermes I
agere_ap_fw.bin -- 9.48 Hermes I

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File name: LICENCE.kaweth

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File name: LICENCE.it913x

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File name: generic_Firmware-ti-connectivity

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File name: LICENCE.tda7706-firmware.txt

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File name: LICENCE.xc5000

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Firmware provided as part of an XC5000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 1, 2009.

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File name: LICENCE.e100

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File name: generic_Firmware-ralink_a_mediatek_company_firmware

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Firmware provided by Pierrick Hascoet <pierrick.hascoet@abiliss.com> to Devin Heitmueller <dheitmueller@kernellabs.com> on January 15, 2010.

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QLogic Linux Fibre Channel Adapter Firmware

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File name: generic_Firmware-it913x

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The firmware files "dvb-usb-it9135-01.fw" and "dvb-usb-it9135-02.fw" are for ITEtech it9135 Ax and Bx chip versions.

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File name: generic_Firmware-go7007

The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

```
-----------------------------------------------------------------------------
                    WIS GO7007SB Public Linux Driver
-----------------------------------------------------------------------------


*** Please see the file RELEASE-NOTES for important last-minute updates ***


  0. OVERVIEW AND LICENSING/DISCLAIMER


This driver kit contains Linux drivers for the WIS GO7007SB multi-format
video encoder.  Only kernel version 2.6.x is supported.  The video stream
is available through the Video4Linux2 API and the audio stream is available
through the ALSA API (or the OSS emulation layer of the ALSA system).

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  1. SYSTEM REQUIREMENTS


This driver requires Linux kernel 2.6.  Kernel 2.4 is not supported.  Using
kernel 2.6.10 or later is recommended, as earlier kernels are known to have
unstable USB 2.0 support.

A fully built kernel source tree must be available.  Typically this will be
linked from "/lib/modules/<KERNEL VERSION>/build" for convenience.  If this
link does not exist, an extra parameter will need to be passed to the
`make` command.

All vendor-built kernels should already be configured properly.  However,
for custom-built kernels, the following options need to be enabled in the
kernel as built-in or modules:

      CONFIG_HOTPLUG          - Support for hot-pluggable devices
      CONFIG_MODULES          - Enable loadable module support
      CONFIG_KMOD             - Automatic kernel module loading
      CONFIG_FW_LOADER        - Hotplug firmware loading support
      CONFIG_I2C              - I2C support
      CONFIG_VIDEO_DEV        - Video For Linux
      CONFIG_SOUND            - Sound card support
      CONFIG_SND              - Advanced Linux Sound Architecture
      CONFIG_USB              - Support for Host-side USB
      CONFIG_USB_DEVICEFS     - USB device filesystem
      CONFIG_USB_EHCI_HCD     - EHCI HCD (USB 2.0) support

Additionally, to use the example application, the following options need to
be enabled in the ALSA section:

      CONFIG_SND_MIXER_OSS    - OSS Mixer API
```

CONFIG_SND_PCM_OSS - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>. Hotplugging is used for loading firmware into the Cypruss EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be installed by running:

```
$ make install
```

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

TV band	force_band
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

TV band	Audio subcarrier	force_mpx_mode
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6

PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio

compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

```
__u32                   The maximum number of frames in each
  gop_size                Group Of Pictures; i.e. the maximum
                        number of frames minus one between
                        each key frame.

__u32                   The maximum number of sequential
  max_b_frames            bidirectionally-predicted frames.
                        (B-frames are not yet supported.)

enum go7007_aspect_ratio    The aspect ratio to be encoded in the
  aspect_ratio            meta-data of the compressed format.

                        Choices are:
                          GO7007_ASPECT_RATIO_1_1
                          GO7007_ASPECT_RATIO_4_3_NTSC
                          GO7007_ASPECT_RATIO_4_3_PAL
                          GO7007_ASPECT_RATIO_16_9_NTSC
                          GO7007_ASPECT_RATIO_16_9_PAL

__u32                   Bit-wise OR of control flags (below)
  flags
```

Flags in struct go7007_comp_params:

```
GO7007_COMP_CLOSED_GOP      Only produce self-contained GOPs, used
                        to produce streams appropriate for
                        random seeking.

GO7007_COMP_OMIT_SEQ_HEADER  Omit the stream sequence header.
```

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

```
enum go7007_mpeg_video_standard
  mpeg_video_standard     The MPEG video standard in which to
                        compress the video.

                        Choices are:
                          GO7007_MPEG_VIDEO_MPEG1
```

GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4

__u32 flags — Bit-wise OR of control flags (below)

__u32 pali — The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream. Not valid for MPEG1.

Choices for MPEG2 are:
GO7007_MPEG2_PROFILE_MAIN_MAIN

Choices for MPEG4 are:
GO7007_MPEG4_PROFILE_S_L0
GO7007_MPEG4_PROFILE_S_L1
GO7007_MPEG4_PROFILE_S_L2
GO7007_MPEG4_PROFILE_S_L3
GO7007_MPEG4_PROFILE_ARTS_L1
GO7007_MPEG4_PROFILE_ARTS_L2
GO7007_MPEG4_PROFILE_ARTS_L3
GO7007_MPEG4_PROFILE_ARTS_L4
GO7007_MPEG4_PROFILE_AS_L0
GO7007_MPEG4_PROFILE_AS_L1
GO7007_MPEG4_PROFILE_AS_L2
GO7007_MPEG4_PROFILE_AS_L3
GO7007_MPEG4_PROFILE_AS_L4
GO7007_MPEG4_PROFILE_AS_L5

Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE — Force all compression parameters and bitrate control settings to comply with DVD MPEG2 stream requirements. This overrides most compression and bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER — Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER — Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

```
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
```

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

File name: generic_Firmware-radeon

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File name: generic_Firmware-myri10ge_firmware

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File name: generic_Firmware-xc5000

The following XC500 firmware file "dvb-fe-xc5000-1.6.114.fw" was created based on "xc5000_firmwares_32000Khz.h".

Firmware provided as part of an XC5000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 1, 2009.

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File name: LICENCE.cw1200

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File name: WHENCE

```
**********
* WHENCE *
**********
```

This file attempts to document the origin and licensing information,
if known, for each piece of firmware distributed for use with the Linux
kernel.

Driver: ambassador -- Madge Ambassador (Collage PCI 155 Server) ATM NIC.

File: atmsar11.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:

  Madge Ambassador ATM Adapter microcode.
  Copyright (C) 1995-1999 Madge Networks Ltd.

  This microcode data is placed under the terms of the GNU General
  Public License. The GPL is contained in /usr/doc/copyright/GPL on a
  Debian system and in the file COPYING in the Linux kernel source.

  We would prefer you not to distribute modified versions without
  consultation and not to ask for assembly/other microcode source.

Driver: snd-korg1212 -- Korg 1212 IO audio device

File: korg/k1212.dsp

Licence: Unknown

Found in alsa-firmware package in hex form; no licensing information.

Driver: snd-maestro3 -- ESS Allegro Maestro3 audio device

File: ess/maestro3_assp_kernel.fw
File: ess/maestro3_assp_minisrc.fw

Licence: Unknown

Found in alsa-firmware package in hex form with a comment claiming to be GPLv2+, but without source -- and with another comment saying "ESS drops binary dsp code images on our heads, but we don't get to see specs on the dsp."

Driver: snd-ymfpci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/ds1_ctrl.fw
File: yamaha/ds1_dsp.fw
File: yamaha/ds1e_ctrl.fw

Licence: Unknown

Found alsa-firmware package in hex form, with the following comment:
  Copyright (c) 1997-1999 Yamaha Corporation. All Rights Reserved.

Driver: advansys - AdvanSys SCSI

File: advansys/mcode.bin
File: advansys/3550.bin
File: advansys/38C0800.bin
File: advansys/38C1600.bin

Licence: BSD, no source available.

Found in hex form in kernel source.

Driver: qla1280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qlogic/1040.bin
File: qlogic/1280.bin
File: qlogic/12160.bin

Licence: Redistributable. See LICENCE.qla1280 for details

Driver: smctr -- SMC ISA/MCA Token Ring adapter

File: tr_smctr.bin
Version: 6.3C1
Info: MCT.BIN v6.3C1 03/01/95

Original licence info:

 * This firmware is licensed to you strictly for use in conjunction
 * with the use of SMC TokenRing adapters. There is no waranty
 * expressed or implied about its fitness for any purpose.

Driver: kaweth -- USB KLSI KL5USB101-based Ethernet device

File: kaweth/new_code.bin
File: kaweth/new_code_fix.bin
File: kaweth/trigger_code.bin
File: kaweth/trigger_code_fix.bin

Licence: Redistributable. See LICENCE.kaweth for details

Found in hex form in the kernel source.

Driver: dvb-ttusb-budget -- Technotrend/Hauppauge Nova-USB devices

File: ttusb-budget/dspbootcode.bin

Licence: Unknown

Found in hex form in the kernel source.

Driver: keyspan -- USB Keyspan USA-xxx serial device

File: keyspan/mpr.fw
File: keyspan/usa18x.fw
File: keyspan/usa19.fw
File: keyspan/usa19qi.fw
File: keyspan/usa19qw.fw
File: keyspan/usa19w.fw
File: keyspan/usa28.fw
File: keyspan/usa28xa.fw
File: keyspan/usa28xb.fw
File: keyspan/usa28x.fw
File: keyspan/usa49w.fw
File: keyspan/usa49wlc.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:

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keyspan.c driver which includes this firmware, in whole or in
part, requires the inclusion of this statement."

Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
Source: keyspan_pda/xircom_pgs.S

Source: keyspan_pda/Makefile

Licence: GPLv2+

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

Driver: emi26 -- EMI 2|6 USB Audio interface

File: emi26/bitstream.fw
Version: 1.1.1.131
Info: DATE=2001dec06

File: emi26/firmware.fw
Version: 1.0.2.916
Info: DATE=12.02.2002

File: emi26/loader.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:

/*
 * This firmware is for the Emagic EMI 2|6 Audio Interface
 *
 * The firmware contained herein is Copyright (c) 1999-2002 Emagic
 * as an unpublished work. This notice does not imply unrestricted

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 * any driver which includes this firmware, in whole or in part,
 * requires the inclusion of this statement.
 */
```

Driver: emi62 -- EMI 6|2m USB Audio interface

File: emi62/bitstream.fw
Version: 1.0.0.191
Info: DATE= 2002oct28

File: emi62/loader.fw
Source: EMILOAD.HEX
Version: 1.0.2.002
Info: DATE=10.01.2002

File: emi62/midi.fw
Source: EMI62MFW.HEX
Version: 1.04.062
Info: DATE=16.10.2002

File: emi62/spdif.fw
Source: EMI62SFW.HEX
Version: 1.04.062
Info: DATE=16.10.2002

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information: None

Driver: ti_usb_3410_5052 -- USB TI 3410/5052 serial device

File: ti_3410.fw
Info: firmware 9/10/04 FW3410_Special_StartWdogOnStartPort

File: ti_5052.fw
Info: firmware 9/18/04

Licence: Allegedly GPLv2+, but no source visible. Marked:
  Copyright (C) 2004 Texas Instruments

Found in hex form in kernel source.

Driver: ti_usb_3410_5052 -- Multi-Tech USB cell modems

File: mts_cdma.fw
File: mts_gsm.fw
File: mts_edge.fw

Licence: "all firmware components are redistributable in binary form"
        per support@multitech.com
  Copyright (C) 2005 Multi-Tech Systems, Inc.

Found in hex form in ftp://ftp.multitech.com/wireless/wireless_linux.zip

---

Driver: ti_usb_3410_5052 -- Multi-Tech USB fax modems

File: mts_mt9234mu.fw
File: mts_mt9234zba.fw

Licence: Unknown

Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device

File: whiteheat.fw
Version: 4.06

File: whiteheat_loader.fw

Licence: Allegedly GPLv2, but no source visible. Marked:
  Copyright (C) 2000-2002 ConnectTech Inc

Debug loader claims the following behaviour:
 Port 1 LED flashes when the vend_ax program is running
 Port 2 LED flashes when any SETUP command arrives
 Port 3 LED flashes when any valid VENDOR request occurs
 Port 4 LED flashes when the EXTERNAL RAM DOWNLOAD request occurs

Converted from Intel HEX files, used in our binary representation of ihex.

Driver: ip2 -- Computone IntelliPort Plus serial device

File: intelliport2.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: cpia2 -- cameras based on Vision's CPiA2

File: cpia2/stv0672_vp4.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:
 Copyright (C) 2001 STMicroelectronics, Inc.
 Contact: steve.miller@st.com
 Description: This file contains patch data for the CPiA2 (stv0672) VP4.

Found in hex form in kernel source.

Driver: dabusb -- Digital Audio Broadcasting (DAB) Receiver for USB and Linux

File: dabusb/firmware.fw
File: dabusb/bitstream.bin

Licence: Distributable

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 *
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 * modification.

Driver: vicam -- USB 3com HomeConnect (aka vicam)

File: vicam/firmware.fw

Licence: Unknown

Found in hex form in kernel source.

Driver: io_edgeport - USB Inside Out Edgeport Serial Driver

File: edgeport/boot.fw
File: edgeport/boot2.fw
File: edgeport/down.fw
File: edgeport/down2.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:
//***
//* Edgeport/4 Binary Image
//* Generated by HEX2C v1.06
//* Copyright (C) 1998 Inside Out Networks, All rights reserved.
//***

Found in hex form in kernel source.

Driver: io_ti - USB Inside Out Edgeport Serial Driver
(TI Devices)

File: edgeport/down3.bin

Licence:
```
//*****************************************************************
//* Edgeport Binary Image (for TI based products)
//* Generated by TIBin2C v2.00 (watchport)
//* Copyright (C) 2001 Inside Out Networks, All rights reserved.
//*****************************************************************
```

Found in hex form in kernel source.

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin
Source: dsp56k/bootstrap.asm
Source: dsp56k/Makefile
Source: dsp56k/concat-bootstrap.pl

Licence: GPLv2 or later

DSP56001 assembler, buildable with a56 from
http://www.zdomain.com/a56.html

Driver: snd-sb16-csp - Sound Blaster 16/AWE CSP support

File: sb16/mulaw_main.csp
File: sb16/alaw_main.csp
File: sb16/ima_adpcm_init.csp
File: sb16/ima_adpcm_playback.csp
File: sb16/ima_adpcm_capture.csp

Licence: Allegedly GPLv2+, but no source visible. Marked:
```
/*
 *  Copyright (c) 1994 Creative Technology Ltd.
 *  Microcode files for SB16 Advanced Signal Processor
 */
```

Found in hex form in kernel source.

Driver: qla2xxx - QLogic QLA2XXX Fibre Channel

File: ql2100_fw.bin
Version: 1.19.38 TP
File: ql2200_fw.bin
Version: 2.02.08 TP
File: ql2300_fw.bin
Version: 3.03.28 IPX
File: ql2322_fw.bin
Version: 3.03.28 IPX
File: ql2400_fw.bin
Version: 8.03.00 MID
File: ql2500_fw.bin
Version: 8.03.00 MIDQ

Licence: Redistributable. See LICENCE.qla2xxx for details

Available from http://ldriver.qlogic.com/firmware/

Driver: orinoco - Agere/Prism/Symbol Orinoco support

File: agere_sta_fw.bin
Version: 9.48 Hermes I
File: agere_ap_fw.bin
Version: 9.48 Hermes I

Licence: Redistributable. See LICENCE.agere for details

Driver: ar9170 - Atheros 802.11n "otus" USB

File: ar9170-1.fw
File: ar9170-2.fw

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath9k_htc - Atheros HTC devices (USB)

File: ar9271.fw
File: ar7010.fw
File: ar7010_1_1.fw
File: htc_9271.fw
Version: 1.3.1
File: htc_7010.fw
Version: 1.3.1

Licence: Redistributable. See LICENCE.atheros_firmware for details

File: ath9k_htc/htc_7010-1.4.0.fw
Version: 1.4.0
File: ath9k_htc/htc_9271-1.4.0.fw
Version: 1.4.0

Licence: Redistributable (full source code is available under free software licences). See LICENCE.open-ath9k-htc-firmware for details

---

Driver: cassini - Sun Cassini

File: sun/cassini.bin

Licence: Unknown

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Driver: slicoss - Alacritech IS-NIC products

File: slicoss/gbdownload.sys
File: slicoss/gbrcvucode.sys
File: slicoss/oasisdbgdownload.sys
File: slicoss/oasisdownload.sys
File: slicoss/oasisrcvucode.sys

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Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys
File: sxg/saharadbgdownloadB.sys

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Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/t3b_psram-1.1.0.bin
File: cxgb3/t3c_psram-1.1.0.bin
File: cxgb3/t3fw-7.0.0.bin
File: cxgb3/t3fw-7.1.0.bin
File: cxgb3/t3fw-7.4.0.bin
File: cxgb3/t3fw-7.10.0.bin
File: cxgb3/t3fw-7.12.0.bin

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Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/ael2005_opt_edc.bin
File: cxgb3/ael2005_twx_edc.bin
File: cxgb3/ael2020_twx_edc.bin

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Driver: cxgb4 - Chelsio Terminator 4/5 1G/10/40G Ethernet adapter

File: cxgb4/t4fw-1.14.4.0.bin
File: cxgb4/t4fw-1.15.37.0.bin
Link: cxgb4/t4fw.bin -> t4fw-1.15.37.0.bin
File: cxgb4/t5fw-1.14.4.0.bin
File: cxgb4/t5fw-1.15.37.0.bin
Link: cxgb4/t5fw.bin -> t5fw-1.15.37.0.bin
File: cxgb4/aq1202_fw.cld
File: cxgb4/bcm8483.bin

Licence: Redistributable. See LICENCE.chelsio_firmware for details

---

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m_ucode.bin
File: e100/d101s_ucode.bin
File: e100/d102e_ucode.bin

Licence: Redistributable. See LICENCE.e100 for details

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin
File: acenic/tg2.bin

Licence: Unknown

Found in hex form in kernel source, but source allegedly available at
http://alteon.shareable.org/

Driver: tg3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin
File: tigon/tg3_tso.bin
File: tigon/tg3_tso5.bin
File: tigon/tg357766.bin

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 *
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Found in hex form in kernel source.

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin
File: adaptec/starfire_tx.bin

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Driver: i2400m-usb - Intel 2400 Wireless WiMAX Connection over USB

File: i2400m-fw-usb-1.4.sbcf
File: i2400m-fw-usb-1.5.sbcf
File: i6050-fw-usb-1.5.sbcf

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Also available from http://linuxwimax.org/Download

Driver: libertas - Marvell Libertas fullmac-type 802.11b/g cards

File: libertas/cf8381.bin
File: libertas/cf8381_helper.bin
File: libertas/cf8385.bin
File: libertas/cf8385_helper.bin
File: libertas/gspi8682.bin
File: libertas/gspi8682_helper.bin
File: libertas/gspi8686_v9.bin
File: libertas/gspi8686_v9_helper.bin
File: libertas/gspi8688.bin
File: libertas/gspi8688_helper.bin
File: libertas/sd8385.bin
File: libertas/sd8385_helper.bin
File: libertas/sd8682.bin
File: libertas/sd8682_helper.bin
File: libertas/sd8686_v8.bin
File: libertas/sd8686_v8_helper.bin
File: libertas/sd8686_v9.bin
File: libertas/sd8686_v9_helper.bin
File: libertas/usb8388_v5.bin
File: libertas/usb8388_v9.bin
File: libertas/usb8682.bin
File: mrvl/sd8688.bin
Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin
File: mrvl/sd8688_helper.bin
Link: libertas/sd8688_helper.bin -> ../mrvl/sd8688_helper.bin

Licence: Redistributable. See LICENCE.Marvell for details. Extracted from
Linux driver tarballs downloaded from Marvell's "Extranet" with permission.

Driver: libertas - Marvell Libertas 802.11b/g cards, OLPC firmware

File: libertas/lbtf_sdio.bin
Version: 9.0.7.p4

File: lbtf_usb.bin

Version: 5.132.3.p1

File: libertas/usb8388_olpc.bin
Version: 5.110.22.p23

Licence: Redistributable. See LICENCE.OLPC for details.

Available from http://dev.laptop.org/pub/firmware/libertas/

Driver: mwl8k - Marvell Libertas softmac-type 802.11b/g/n cards

File: mwl8k/fmimage_8687.fw
File: mwl8k/helper_8687.fw
File: mwl8k/fmimage_8366.fw
File: mwl8k/fmimage_8366_ap-1.fw
File: mwl8k/fmimage_8366_ap-2.fw
File: mwl8k/fmimage_8366_ap-3.fw
Version: 5.2.8.16
File: mwl8k/helper_8366.fw

File: mwl8k/fmimage_8764_ap-1.fw
Version: 7.4.0.9

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Driver: mwifiex - Marvell Wi-Fi fullmac-type 802.11n/ac cards

File: mrvl/sd8787_uapsta.bin
Version: 14.66.35.p52

File: mrvl/usb8766_uapsta.bin
Version: 14.68.22.p16

File: mrvl/sd8797_uapsta.bin
Version: 14.66.11.p151

File: mrvl/usb8797_uapsta.bin
Version: 14.68.29.p49

File: mrvl/sd8897_uapsta.bin
Version: 15.68.7.p77

File: mrvl/usb8897_uapsta.bin
Version: 15.68.4.p103

File: mrvl/pcie8897_uapsta.bin
Version: 15.68.7.p77

File: mrvl/sd8887_uapsta.bin
Version: 15.68.7.p5

File: mrvl/sd8801_uapsta.bin
Version: 14.68.36.p60

File: mrvl/usb8801_uapsta.bin
Version: 14.68.36.p60

File: mrvl/pcieuart8997_combo_v4.bin
Version: 16.68.1.p70

File: mrvl/pcieusb8997_combo_v4.bin
Version: 16.68.1.p70

Licence: Redistributable. See LICENCE.Marvell for details. Originates from http://git.marvell.com/?p=mwifiex-firmware.git

---

Driver: iwlwifi - Intel Wireless Wifi

File: iwlwifi-3945-2.ucode
Version: 15.32.2.9

File: iwlwifi-4965-2.ucode
Version: 228.61.2.24

File: iwlwifi-5000-1.ucode
Version: 5.4.A.11 (aka 5.4.1.16)

File: iwlwifi-5000-2.ucode
Version: 8.24.2.12

File: iwlwifi-5000-5.ucode
Version: 8.83.5.1

File: iwlwifi-5150-2.ucode
Version: 8.24.2.2

File: iwlwifi-1000-3.ucode
Version: 128.50.3.1

File: iwlwifi-1000-5.ucode
Version: 39.31.5.1

File: iwlwifi-6000-4.ucode
Version: 9.221.4.1

File: iwlwifi-6050-4.ucode
Version: 9.201.4.1

File: iwlwifi-6050-5.ucode
Version: 41.28.5.1

File: iwlwifi-6000g2a-5.ucode
Version: 17.168.5.3

File: iwlwifi-6000g2a-6.ucode
Version: 18.168.6.1

File: iwlwifi-6000g2b-5.ucode
Version: 17.168.5.1

File: iwlwifi-6000g2b-6.ucode
Version: 18.168.6.1

File: iwlwifi-135-6.ucode
Version: 18.168.6.1

File: iwlwifi-100-5.ucode
Version: 39.31.5.1

File: iwlwifi-105-6.ucode
Version: 18.168.6.1

File: iwlwifi-2030-6.ucode
Version: 18.168.6.1

File: iwlwifi-2000-6.ucode
Version: 18.168.6.1

File: iwlwifi-7260-7.ucode
Version: 22.1.7.0

File: iwlwifi-7260-8.ucode
Version: 22.24.8.0

File: iwlwifi-7260-9.ucode
Version: 25.228.9.0

File: iwlwifi-7260-10.ucode
Version: 23.15.10.0

File: iwlwifi-7260-12.ucode
Version: 25.17.12.0

File: iwlwifi-7260-13.ucode
Version: 25.30.13.0

File: iwlwifi-7260-16.ucode
Version 16.242414.0

File: iwlwifi-7260-17.ucode
Version 17.352738.0

File: iwlwifi-3160-7.ucode
Version: 22.1.7.0

File: iwlwifi-3160-8.ucode
Version: 22.24.8.0

File: iwlwifi-3160-9.ucode
Version: 25.228.9.0

File: iwlwifi-3160-10.ucode
Version: 23.15.10.0

File: iwlwifi-3160-12.ucode
Version: 25.17.12.0

File: iwlwifi-3160-13.ucode
Version: 25.30.13.0

File: iwlwifi-3160-16.ucode
Version 16.242414.0

File: iwlwifi-3160-17.ucode
Version 17.352738.0

File: iwlwifi-7265-8.ucode
Version: 22.24.8.0

File: iwlwifi-7265-9.ucode
Version: 25.228.9.0

File: iwlwifi-7265-10.ucode
Version: 23.15.10.0

File: iwlwifi-7265-12.ucode
Version: 25.17.12.0

File: iwlwifi-7265-13.ucode
Version: 25.30.13.0

File: iwlwifi-7265-16.ucode
Version 16.242414.0

File: iwlwifi-7265-17.ucode
Version 17.352738.0

File: iwlwifi-7265D-10.ucode
Version: 23.15.10.0

File: iwlwifi-7265D-12.ucode
Version: 25.17.12.0

File: iwlwifi-7265D-13.ucode
Version: 25.30.13.0

File: iwlwifi-7265D-16.ucode
Version 16.242414.0

File: iwlwifi-7265D-17.ucode
Version 17.352738.0

File: iwlwifi-7265D-21.ucode
Version 21.302800.0

File: iwlwifi-7265D-22.ucode
Version 22.361476.0

File: iwlwifi-3168-21.ucode
Version 21.302800.0

File: iwlwifi-3168-22.ucode
Version 22.361476.0

File: iwlwifi-8000C-13.ucode
Version: 25.30.13.0

File: iwlwifi-8000C-16.ucode
Version 16.242414.0

File: iwlwifi-8000C-21.ucode
Version 21.302800.0

File: iwlwifi-8000C-22.ucode
Version 22.361476.0

File: iwlwifi-8265-21.ucode
Version 21.302800.0

File: iwlwifi-8265-22.ucode

Version 22.361476.0

Licence: Redistributable. See LICENCE.iwlwifi_firmware for details

Also available from http://wireless.kernel.org/en/users/Drivers/iwlwifi#Firmware

---

Driver: cx231xx - Conexant Cx23100/101/102 USB broadcast A/V decoder

File: v4l-cx231xx-avcore-01.fw

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Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

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Found in hex form in kernel source.

Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

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```
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 * COMBINATION WITH THE 3c990img.h MICROCODE SOFTWARE
 */
```

Found in hex form in kernel source.

Driver: yam - YAM driver for AX.25

File: yam/1200.bin
File: yam/9600.bin

Licence:
 * (C) F6FBB 1998

Found in hex form in kernel source.

Driver: 3c359 - 3Com 3C359 Token Link Velocity XL adapter

File: 3com/3C359.bin

Licence:
```
/*
 * The firmware this driver downloads into the tokenring card is a
 * separate program and is not GPL'd source code, even though the Linux
 * side driver and the routine that loads this data into the card are.
 *
 * This firmware is licensed to you strictly for use in conjunction
 * with the use of 3Com 3C359 TokenRing adapters. There is no
 * waranty expressed or implied about its fitness for any purpose.
 */
/* 3c359_microcode.mac: 3Com 3C359 Tokenring microcode.
 *
 * Notes:
 *  - Loaded from xl_init upon adapter initialization.
 *
 * Available from 3Com as part of their standard 3C359 driver.
 */
```

Found in hex form in kernel source.

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis
File: cis/PCMLM28.cis
File: cis/DP83903.cis
File: cis/NE2K.cis
File: cis/tamarack.cis
File: cis/PE-200.cis
File: cis/PE520.cis
Source: cis/src/LA-PCM.cis
Source: cis/src/PCMLM28.cis
Source: cis/src/DP83903.cis
Source: cis/src/NE2K.cis
Source: cis/src/tamarack.cis
Source: cis/src/PE-200.cis
Source: cis/src/PE520.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

Licence: Dual GPLv2/MPL

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Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

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Driver: serial_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis
File: cis/COMpad2.cis
File: cis/COMpad4.cis
Source: cis/src/MT5634ZLX.cis
Source: cis/src/RS-COM-2P.cis
Source: cis/src/COMpad2.cis
Source: cis/src/COMpad4.cis

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Driver: serial_cs - Serial PCMCIA adapter

File: cis/SW_555_SER.cis
File: cis/SW_7xx_SER.cis
File: cis/SW_8xx_SER.cis

Licence: GPLv3

Copyright Sierra Wireless

Driver: smc91c92_cs - SMC 91Cxx PCMCIA

File: ositech/Xilinx7OD.bin

Licence: Allegedly GPL, but no source visible. Marked:
This file contains the firmware of Seven of Diamonds from OSITECH.
(Special thanks to Kevin MacPherson of OSITECH)

Found in hex form in kernel source.

Driver: cx23418 - Conexant PCI Broadcast A/V with MPEG encoder

File: v4l-cx23418-apu.fw
File: v4l-cx23418-cpu.fw
File: v4l-cx23418-dig.fw

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Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder

File: v4l-cx23885-avcore-01.fw

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Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw

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Driver: qlogicpti - PTI Qlogic, ISP Driver

File: qlogic/isp1000.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: myri_sbus - MyriCOM Gigabit Ethernet

File: myricom/lanai.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: bnx2x: Broadcom Everest

File: bnx2x-e1-4.8.53.0.fw
File: bnx2x-e1h-4.8.53.0.fw
File: bnx2x-e1-5.2.7.0.fw
File: bnx2x-e1h-5.2.7.0.fw
File: bnx2x-e1-5.2.13.0.fw
File: bnx2x-e1h-5.2.13.0.fw
File: bnx2x/bnx2x-e1-6.0.34.0.fw
File: bnx2x/bnx2x-e1h-6.0.34.0.fw
File: bnx2x/bnx2x-e2-6.0.34.0.fw
File: bnx2x/bnx2x-e1-6.2.5.0.fw
File: bnx2x/bnx2x-e1h-6.2.5.0.fw
File: bnx2x/bnx2x-e2-6.2.5.0.fw
File: bnx2x/bnx2x-e1-6.2.9.0.fw
File: bnx2x/bnx2x-e1h-6.2.9.0.fw
File: bnx2x/bnx2x-e2-6.2.9.0.fw
File: bnx2x/bnx2x-e2-7.0.20.0.fw
File: bnx2x/bnx2x-e1-7.0.20.0.fw
File: bnx2x/bnx2x-e1h-7.0.20.0.fw
File: bnx2x/bnx2x-e2-7.0.23.0.fw
File: bnx2x/bnx2x-e1-7.0.23.0.fw
File: bnx2x/bnx2x-e1h-7.0.23.0.fw
File: bnx2x/bnx2x-e2-7.0.29.0.fw
File: bnx2x/bnx2x-e1-7.0.29.0.fw
File: bnx2x/bnx2x-e1h-7.0.29.0.fw
File: bnx2x/bnx2x-e2-7.2.16.0.fw
File: bnx2x/bnx2x-e1-7.2.16.0.fw
File: bnx2x/bnx2x-e1h-7.2.16.0.fw
File: bnx2x/bnx2x-e2-7.2.51.0.fw
File: bnx2x/bnx2x-e1-7.2.51.0.fw
File: bnx2x/bnx2x-e1h-7.2.51.0.fw
File: bnx2x/bnx2x-e1-7.8.2.0.fw
File: bnx2x/bnx2x-e1h-7.8.2.0.fw
File: bnx2x/bnx2x-e2-7.8.2.0.fw
File: bnx2x/bnx2x-e1-7.8.17.0.fw
File: bnx2x/bnx2x-e1h-7.8.17.0.fw
File: bnx2x/bnx2x-e2-7.8.17.0.fw
File: bnx2x/bnx2x-e1-7.8.19.0.fw
File: bnx2x/bnx2x-e1h-7.8.19.0.fw
File: bnx2x/bnx2x-e2-7.8.19.0.fw
File: bnx2x/bnx2x-e1-7.10.51.0.fw
File: bnx2x/bnx2x-e1h-7.10.51.0.fw
File: bnx2x/bnx2x-e2-7.10.51.0.fw
File: bnx2x/bnx2x-e1-7.12.30.0.fw
File: bnx2x/bnx2x-e1h-7.12.30.0.fw
File: bnx2x/bnx2x-e2-7.12.30.0.fw
File: bnx2x/bnx2x-e1-7.13.1.0.fw
File: bnx2x/bnx2x-e1h-7.13.1.0.fw
File: bnx2x/bnx2x-e2-7.13.1.0.fw

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Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-4.6.16.fw
File: bnx2/bnx2-mips-06-5.0.0.j3.fw
File: bnx2/bnx2-mips-06-5.0.0.j6.fw
File: bnx2/bnx2-mips-06-6.0.15.fw
File: bnx2/bnx2-mips-06-6.2.1.fw
File: bnx2/bnx2-mips-06-6.2.3.fw
File: bnx2/bnx2-mips-09-4.6.17.fw
File: bnx2/bnx2-mips-09-5.0.0.j3.fw
File: bnx2/bnx2-mips-09-5.0.0.j9.fw
File: bnx2/bnx2-mips-09-5.0.0.j15.fw
File: bnx2/bnx2-mips-09-6.0.17.fw
File: bnx2/bnx2-mips-09-6.2.1.fw
File: bnx2/bnx2-mips-09-6.2.1a.fw
File: bnx2/bnx2-mips-09-6.2.1b.fw
File: bnx2/bnx2-rv2p-06-4.6.16.fw
File: bnx2/bnx2-rv2p-06-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-06-6.0.15.fw
File: bnx2/bnx2-rv2p-09-4.6.15.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09-6.0.17.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09ax-6.0.17.fw

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Driver: netxen_nic - NetXen Multi port (1/10) Gigabit Ethernet NIC

File: phanfw.bin
Version: 4.0.590

Licence: Redistributable. See LICENCE.phanfw for details.

Available from http://ldriver.qlogic.com/firmware/netxen_nic/new/

Driver: dvb-ttpci -- AV7110 cards

File: av7110/bootcode.bin
Source: av7110/Boot.S
Source: av7110/Makefile

Licence: GPLv2 or later

ARM assembly source code from https://linuxtv.org/downloads/firmware/Boot.S

Driver: snd-wavefront - ISA WaveFront sound card

File: yamaha/yss225_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

Found in hex form in kernel source, with the following comment:
  Copyright (c) 1998-2002 by Paul Davis <pbd@op.net>

Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs

File: rt2561.bin
File: rt2561s.bin
File: rt2661.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

---

Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs

File: rt73.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

---

Driver: mt7601u - MediaTek MT7601U Wireless MACs

File: mt7601u.bin
Version: 34

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Downloaded from http://www.mediatek.com/en/downloads/

Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs

File: rt2860.bin
Version: 40

File: rt3290.bin
Version: 37

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Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest
from http://www.mediatek.com/en/downloads1/downloads/

Driver: rt2860sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

---

Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs

File: rt2870.bin
Version: 36

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Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest
from http://www.mediatek.com/en/downloads1/downloads/

Driver: rt2870sta - Ralink RT2870, RT3070, RT3071 wireless MACs

Link: rt3070.bin -> rt2870.bin
File: rt3071.bin

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rt3071.bin is a copy of bytes 4096-8191 of rt2870.bin for compatibility.

Driver: usbdux/usbduxfast/usbduxsigma - usbdux data acquisition cards

File: usbdux_firmware.bin
File: usbduxfast_firmware.bin
File: usbduxsigma_firmware.bin
Source: usbdux/fx2-include.asm
Source: usbdux/usbduxfast_firmware.asm
Source: usbdux/usbdux_firmware.asm
Source: usbdux/usbduxsigma_firmware.asm

Licence: GPLv2. See source code in usbdux/ subdirectory.

Provided from the author, Bernd Porr <BerndPorr@f2s.com>

Driver: xc4000 - Xceive 4000 Tuner driver

File: dvb-fe-xc4000-1.4.1.fw
Version: 1.4.1

Licence: Redistributable. See LICENCE.xc4000 for details

Driver: xc5000 - Xceive 5000 Tuner driver

File: dvb-fe-xc5000-1.6.114.fw
Version: 1.6.114

File: dvb-fe-xc5000c-4.1.30.7.fw
Version: 4.1.30.7

Licence: Redistributable. See LICENCE.xc5000 and LICENCE.xc5000c for details

---

Driver: dib0700 - DiBcom dib0700 USB DVB bridge driver

File: dvb-usb-dib0700-1.20.fw
Version: 1.20

Licence: Redistributable. See LICENSE.dib0700 for details

Driver: ath3k - DFU Driver for Atheros bluetooth chipset AR3011

File: ath3k-1.fw
Version: 1.0

Fix EEPROM radio table issue and change PID to 3005

Licence: Redistributable. See LICENCE.atheros_firmware for details

---

Driver: mga - Matrox G200/G400/G550

File: matrox/g200_warp.fw
File: matrox/g400_warp.fw

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Found in hex form in kernel source.

Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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```

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Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin
File: radeon/R200_cp.bin
File: radeon/R300_cp.bin
File: radeon/R420_cp.bin
File: radeon/RS600_cp.bin
File: radeon/RS690_cp.bin
File: radeon/R520_cp.bin
File: radeon/R600_pfp.bin
File: radeon/R600_me.bin
File: radeon/RV610_pfp.bin
File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin
File: radeon/RV620_me.bin
File: radeon/RV635_pfp.bin
File: radeon/RV635_me.bin
File: radeon/RV670_pfp.bin
File: radeon/RV670_me.bin
File: radeon/RS780_pfp.bin
File: radeon/RS780_me.bin
File: radeon/RV770_pfp.bin
File: radeon/RV770_me.bin
File: radeon/RV730_pfp.bin
File: radeon/RV730_me.bin
File: radeon/RV710_pfp.bin
File: radeon/RV710_me.bin

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Found in hex form in kernel source.

Driver: radeon - ATI Radeon

File: radeon/R600_rlc.bin
File: radeon/R600_uvd.bin
File: radeon/RS780_uvd.bin
File: radeon/R700_rlc.bin
File: radeon/RV710_uvd.bin
File: radeon/RV710_smc.bin
File: radeon/RV730_smc.bin
File: radeon/RV740_smc.bin
File: radeon/RV770_smc.bin
File: radeon/RV770_uvd.bin
File: radeon/CEDAR_me.bin
File: radeon/CEDAR_pfp.bin
File: radeon/CEDAR_rlc.bin
File: radeon/CEDAR_smc.bin
File: radeon/CYPRESS_me.bin
File: radeon/CYPRESS_pfp.bin
File: radeon/CYPRESS_rlc.bin
File: radeon/CYPRESS_uvd.bin
File: radeon/CYPRESS_smc.bin
File: radeon/JUNIPER_me.bin
File: radeon/JUNIPER_pfp.bin
File: radeon/JUNIPER_rlc.bin
File: radeon/JUNIPER_smc.bin
File: radeon/REDWOOD_me.bin
File: radeon/REDWOOD_pfp.bin
File: radeon/REDWOOD_rlc.bin
File: radeon/REDWOOD_smc.bin
File: radeon/PALM_me.bin
File: radeon/PALM_pfp.bin
File: radeon/SUMO_rlc.bin
File: radeon/SUMO_uvd.bin
File: radeon/BARTS_mc.bin
File: radeon/BARTS_me.bin
File: radeon/BARTS_pfp.bin
File: radeon/BARTS_smc.bin
File: radeon/BTC_rlc.bin
File: radeon/CAICOS_mc.bin
File: radeon/CAICOS_me.bin
File: radeon/CAICOS_pfp.bin
File: radeon/CAICOS_smc.bin
File: radeon/TURKS_mc.bin
File: radeon/TURKS_me.bin
File: radeon/TURKS_pfp.bin
File: radeon/TURKS_smc.bin
File: radeon/CAYMAN_mc.bin
File: radeon/CAYMAN_me.bin
File: radeon/CAYMAN_pfp.bin
File: radeon/CAYMAN_rlc.bin
File: radeon/CAYMAN_smc.bin
File: radeon/SUMO_pfp.bin
File: radeon/SUMO_me.bin
File: radeon/SUMO2_pfp.bin
File: radeon/SUMO2_me.bin
File: radeon/ARUBA_me.bin
File: radeon/ARUBA_pfp.bin
File: radeon/ARUBA_rlc.bin
File: radeon/PITCAIRN_ce.bin
File: radeon/PITCAIRN_mc.bin
File: radeon/PITCAIRN_mc2.bin
File: radeon/PITCAIRN_me.bin
File: radeon/PITCAIRN_pfp.bin
File: radeon/PITCAIRN_rlc.bin
File: radeon/PITCAIRN_smc.bin
File: radeon/TAHITI_ce.bin
File: radeon/TAHITI_mc.bin
File: radeon/TAHITI_mc2.bin
File: radeon/TAHITI_me.bin
File: radeon/TAHITI_pfp.bin

File: radeon/TAHITI_rlc.bin
File: radeon/TAHITI_uvd.bin
File: radeon/TAHITI_smc.bin
File: radeon/TAHITI_vce.bin
File: radeon/VERDE_ce.bin
File: radeon/VERDE_mc.bin
File: radeon/VERDE_mc2.bin
File: radeon/VERDE_me.bin
File: radeon/VERDE_pfp.bin
File: radeon/VERDE_rlc.bin
File: radeon/VERDE_smc.bin
File: radeon/OLAND_ce.bin
File: radeon/OLAND_mc.bin
File: radeon/OLAND_mc2.bin
File: radeon/OLAND_me.bin
File: radeon/OLAND_pfp.bin
File: radeon/OLAND_rlc.bin
File: radeon/OLAND_smc.bin
File: radeon/HAINAN_ce.bin
File: radeon/HAINAN_mc.bin
File: radeon/HAINAN_mc2.bin
File: radeon/HAINAN_me.bin
File: radeon/HAINAN_pfp.bin
File: radeon/HAINAN_rlc.bin
File: radeon/HAINAN_smc.bin
File: radeon/BONAIRE_ce.bin
File: radeon/BONAIRE_mc.bin
File: radeon/BONAIRE_mc2.bin
File: radeon/BONAIRE_me.bin
File: radeon/BONAIRE_mec.bin
File: radeon/BONAIRE_pfp.bin
File: radeon/BONAIRE_rlc.bin
File: radeon/BONAIRE_sdma.bin
File: radeon/BONAIRE_uvd.bin
File: radeon/BONAIRE_smc.bin
File: radeon/BONAIRE_vce.bin
File: radeon/KABINI_ce.bin
File: radeon/KABINI_me.bin
File: radeon/KABINI_mec.bin
File: radeon/KABINI_pfp.bin
File: radeon/KABINI_rlc.bin
File: radeon/KABINI_sdma.bin
File: radeon/KAVERI_ce.bin
File: radeon/KAVERI_me.bin
File: radeon/KAVERI_mec.bin
File: radeon/KAVERI_pfp.bin
File: radeon/KAVERI_rlc.bin
File: radeon/KAVERI_sdma.bin
File: radeon/HAWAII_ce.bin
File: radeon/HAWAII_mc.bin
File: radeon/HAWAII_mc2.bin
File: radeon/HAWAII_me.bin
File: radeon/HAWAII_mec.bin
File: radeon/HAWAII_pfp.bin
File: radeon/HAWAII_rlc.bin
File: radeon/HAWAII_sdma.bin
File: radeon/HAWAII_smc.bin
File: radeon/MULLINS_ce.bin
File: radeon/MULLINS_me.bin
File: radeon/MULLINS_mec.bin
File: radeon/MULLINS_pfp.bin
File: radeon/MULLINS_rlc.bin
File: radeon/MULLINS_sdma.bin
File: radeon/pitcairn_ce.bin
File: radeon/pitcairn_mc.bin
File: radeon/pitcairn_me.bin
File: radeon/pitcairn_pfp.bin
File: radeon/pitcairn_rlc.bin
File: radeon/pitcairn_smc.bin
File: radeon/tahiti_ce.bin
File: radeon/tahiti_mc.bin
File: radeon/tahiti_me.bin
File: radeon/tahiti_pfp.bin
File: radeon/tahiti_rlc.bin
File: radeon/tahiti_smc.bin
File: radeon/verde_ce.bin
File: radeon/verde_mc.bin
File: radeon/verde_me.bin
File: radeon/verde_pfp.bin
File: radeon/verde_rlc.bin
File: radeon/verde_smc.bin
File: radeon/oland_ce.bin
File: radeon/oland_mc.bin

File: radeon/oland_me.bin
File: radeon/oland_pfp.bin
File: radeon/oland_rlc.bin
File: radeon/oland_smc.bin
File: radeon/hainan_ce.bin
File: radeon/hainan_mc.bin
File: radeon/hainan_me.bin
File: radeon/hainan_pfp.bin
File: radeon/hainan_rlc.bin
File: radeon/hainan_smc.bin
File: radeon/bonaire_ce.bin
File: radeon/bonaire_mc.bin
File: radeon/bonaire_me.bin
File: radeon/bonaire_mec.bin
File: radeon/bonaire_pfp.bin
File: radeon/bonaire_rlc.bin
File: radeon/bonaire_sdma.bin
File: radeon/bonaire_sdma1.bin
File: radeon/bonaire_smc.bin
File: radeon/bonaire_uvd.bin
File: radeon/bonaire_vce.bin
File: radeon/kabini_ce.bin
File: radeon/kabini_me.bin
File: radeon/kabini_mec.bin
File: radeon/kabini_pfp.bin
File: radeon/kabini_rlc.bin
File: radeon/kabini_sdma.bin
File: radeon/kabini_sdma1.bin
File: radeon/kabini_uvd.bin
File: radeon/kabini_vce.bin
File: radeon/kaveri_ce.bin
File: radeon/kaveri_me.bin
File: radeon/kaveri_mec.bin
File: radeon/kaveri_mec2.bin
File: radeon/kaveri_pfp.bin
File: radeon/kaveri_rlc.bin
File: radeon/kaveri_sdma.bin
File: radeon/kaveri_sdma1.bin
File: radeon/kaveri_uvd.bin
File: radeon/kaveri_vce.bin
File: radeon/hawaii_ce.bin
File: radeon/hawaii_mc.bin
File: radeon/hawaii_me.bin
File: radeon/hawaii_mec.bin
File: radeon/hawaii_pfp.bin
File: radeon/hawaii_rlc.bin
File: radeon/hawaii_sdma.bin
File: radeon/hawaii_sdma1.bin
File: radeon/hawaii_smc.bin
File: radeon/hawaii_uvd.bin
File: radeon/hawaii_vce.bin
File: radeon/mullins_ce.bin
File: radeon/mullins_me.bin
File: radeon/mullins_mec.bin
File: radeon/mullins_pfp.bin
File: radeon/mullins_rlc.bin
File: radeon/mullins_sdma.bin
File: radeon/mullins_sdma1.bin
File: radeon/mullins_uvd.bin
File: radeon/mullins_vce.bin

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Driver: amdgpu - AMD Radeon

File: amdgpu/topaz_ce.bin
File: amdgpu/topaz_mc.bin
File: amdgpu/topaz_me.bin
File: amdgpu/topaz_mec2.bin
File: amdgpu/topaz_mec.bin
File: amdgpu/topaz_pfp.bin
File: amdgpu/topaz_rlc.bin
File: amdgpu/topaz_sdma1.bin
File: amdgpu/topaz_sdma.bin
File: amdgpu/topaz_smc.bin
File: amdgpu/tonga_ce.bin
File: amdgpu/tonga_mc.bin
File: amdgpu/tonga_me.bin
File: amdgpu/tonga_mec2.bin
File: amdgpu/tonga_mec.bin
File: amdgpu/tonga_pfp.bin

File: amdgpu/tonga_rlc.bin
File: amdgpu/tonga_sdma1.bin
File: amdgpu/tonga_sdma.bin
File: amdgpu/tonga_smc.bin
File: amdgpu/tonga_uvd.bin
File: amdgpu/tonga_vce.bin
File: amdgpu/carrizo_ce.bin
File: amdgpu/carrizo_me.bin
File: amdgpu/carrizo_mec2.bin
File: amdgpu/carrizo_mec.bin
File: amdgpu/carrizo_pfp.bin
File: amdgpu/carrizo_rlc.bin
File: amdgpu/carrizo_sdma1.bin
File: amdgpu/carrizo_sdma.bin
File: amdgpu/carrizo_uvd.bin
File: amdgpu/carrizo_vce.bin
File: amdgpu/fiji_ce.bin
File: amdgpu/fiji_mc.bin
File: amdgpu/fiji_me.bin
File: amdgpu/fiji_mec2.bin
File: amdgpu/fiji_mec.bin
File: amdgpu/fiji_pfp.bin
File: amdgpu/fiji_rlc.bin
File: amdgpu/fiji_sdma1.bin
File: amdgpu/fiji_sdma.bin
File: amdgpu/fiji_smc.bin
File: amdgpu/fiji_uvd.bin
File: amdgpu/fiji_vce.bin
File: amdgpu/stoney_ce.bin
File: amdgpu/stoney_me.bin
File: amdgpu/stoney_mec.bin
File: amdgpu/stoney_pfp.bin
File: amdgpu/stoney_rlc.bin
File: amdgpu/stoney_sdma.bin
File: amdgpu/stoney_uvd.bin
File: amdgpu/stoney_vce.bin
File: amdgpu/polaris10_ce.bin
File: amdgpu/polaris10_mc.bin
File: amdgpu/polaris10_me.bin
File: amdgpu/polaris10_mec2.bin
File: amdgpu/polaris10_mec.bin
File: amdgpu/polaris10_pfp.bin
File: amdgpu/polaris10_rlc.bin
File: amdgpu/polaris10_sdma1.bin
File: amdgpu/polaris10_sdma.bin
File: amdgpu/polaris10_smc.bin
File: amdgpu/polaris10_smc_sk.bin
File: amdgpu/polaris10_uvd.bin
File: amdgpu/polaris10_vce.bin
File: amdgpu/polaris11_ce.bin
File: amdgpu/polaris11_mc.bin
File: amdgpu/polaris11_me.bin
File: amdgpu/polaris11_mec2.bin
File: amdgpu/polaris11_mec.bin
File: amdgpu/polaris11_pfp.bin
File: amdgpu/polaris11_rlc.bin
File: amdgpu/polaris11_sdma1.bin
File: amdgpu/polaris11_sdma.bin
File: amdgpu/polaris11_smc.bin
File: amdgpu/polaris11_smc_sk.bin
File: amdgpu/polaris11_uvd.bin
File: amdgpu/polaris11_vce.bin

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Driver: s2255drv

File: f2255usb.bin

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Driver: rtl8192e - Realtek 8192 PCI wireless driver

File: RTL8192E/boot.img
File: RTL8192E/data.img
File: RTL8192E/main.img

Licence: Redistributable, provided by Realtek in their driver
source download.

Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

Driver: ib_qib - QLogic Infiniband

File: qlogic/sd7220.fw

Licence:

```
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```

Found in hex form in kernel source.

Driver: qed - QLogic 4xxxx Ethernet Driver Core Module.

File: qed/qed_init_values_zipped-8.4.2.0.bin
File: qed/qed_init_values_zipped-8.7.3.0.bin
File: qed/qed_init_values_zipped-8.10.5.0.bin
File: qed/qed_init_values_zipped-8.10.10.0.bin

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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset

File: ueagle-atm/CMV4p.bin.v2
File: ueagle-atm/DSP4p.bin
File: ueagle-atm/eagleIV.fw
Version: 1.0

Licence: Redistributable. See LICENCE.ueagle-atm4-firmware for details

---

Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle I,II,III

File: ueagle-atm/930-fpga.bin
File: ueagle-atm/CMVeiWO.bin
File: ueagle-atm/CMVepFR10.bin
File: ueagle-atm/DSP9p.bin
File: ueagle-atm/eagleIII.fw
File: ueagle-atm/adi930.fw
File: ueagle-atm/CMVep.bin
File: ueagle-atm/CMVepFR.bin
File: ueagle-atm/DSPei.bin
File: ueagle-atm/CMV9i.bin
File: ueagle-atm/CMVepES03.bin
File: ueagle-atm/CMVepIT.bin
File: ueagle-atm/DSPep.bin
File: ueagle-atm/CMV9p.bin
File: ueagle-atm/CMVepES.bin
File: ueagle-atm/CMVepWO.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/CMVei.bin
File: ueagle-atm/CMVepFR04.bin
File: ueagle-atm/DSP9i.bin
File: ueagle-atm/eagleII.fw
Version: 1.1

Licence: Redistributable. Based on
https://mail.gna.org/public/eagleusb-dev/2004-11/msg00172.html

---

Driver: vxge - Exar X3100 Series 10GbE PCIe I/O Virtualized Server Adapter

File: vxge/X3fw.ncf
File: vxge/X3fw-pxe.ncf
Version: 1.8.1

Licence:

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Driver: brcmsmac - Broadcom 802.11n softmac wireless LAN driver.

File: brcm/bcm43xx-0.fw
File: brcm/bcm43xx_hdr-0.fw
Version: 610.812

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

Driver: brcmfmac - Broadcom 802.11n fullmac wireless LAN driver.

File: brcm/bcm4329-fullmac-4.bin
File: brcm/brcmfmac43236b.bin
File: brcm/brcmfmac4329-sdio.bin
File: brcm/brcmfmac4330-sdio.bin
File: brcm/brcmfmac4334-sdio.bin
File: brcm/brcmfmac43340-sdio.bin
File: brcm/brcmfmac4335-sdio.bin
File: brcm/brcmfmac43362-sdio.bin
File: brcm/brcmfmac4339-sdio.bin
File: brcm/brcmfmac43241b0-sdio.bin
File: brcm/brcmfmac43241b4-sdio.bin
File: brcm/brcmfmac43241b5-sdio.bin
File: brcm/brcmfmac43242a.bin
File: brcm/brcmfmac43143.bin
File: brcm/brcmfmac43143-sdio.bin
File: brcm/brcmfmac43430-sdio.bin
File: brcm/brcmfmac43455-sdio.bin
File: brcm/brcmfmac4350c2-pcie.bin
File: brcm/brcmfmac4350-pcie.bin

File: brcm/brcmfmac4354-sdio.bin
File: brcm/brcmfmac4356-pcie.bin
File: brcm/brcmfmac43569.bin
File: brcm/brcmfmac43570-pcie.bin
File: brcm/brcmfmac43602-pcie.bin
File: brcm/brcmfmac43602-pcie.ap.bin
File: brcm/brcmfmac4366b-pcie.bin
File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

Driver: tda7706 - FM radio Highly integrated tuner for AM/FM car-radio

File: TDA7706_OM_v2.5.1_boot.txt
File: TDA7706_OM_v3.0.2_boot.txt

Licence: Redistributable. See LICENCE.tda7706-firmware.txt for details.
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Driver: wl1251 - Texas Instruments 802.11 WLAN driver for WiLink4 chips

File: ti-connectivity/wl1251-fw.bin
Version: 4.0.4.3.7

File: ti-connectivity/wl1251-nvs.bin

Licence: Redistributable. See LICENCE.wl1251 for details.

The published NVS files are for testing only. Every device needs to
have a unique NVS which is properly calibrated for best results.

The driver expects to find the firmwares under a ti-connectivity subdirectory.
So if your system looks for firmwares in /lib/firmware, the firmwares for
wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl12xx - Texas Instruments 802.11 WLAN driver for WiLink6/7 chips

File: ti-connectivity/wl1271-fw.bin
Version: 6.1.0.50.350 (STA-only)
File: ti-connectivity/wl1271-fw-2.bin
Version: 6.1.5.50.74 (STA-only)
File: ti-connectivity/wl1271-fw-ap.bin
Version: 6.2.1.0.54 (AP-only)
File: ti-connectivity/wl127x-fw-3.bin
Version: 6.3.0.0.77
File: ti-connectivity/wl127x-fw-plt-3.bin
Version: 6.3.0.0.77 (PLT-only)
File: ti-connectivity/wl127x-fw-4-sr.bin
Version: 6.3.5.0.98 (Single-role)
File: ti-connectivity/wl127x-fw-4-mr.bin
Version: 6.5.2.0.15 (Multi-role)
File: ti-connectivity/wl127x-fw-4-plt.bin
Version: 6.3.5.0.98 (PLT-only)
File: ti-connectivity/wl127x-fw-5-sr.bin
Version: 6.3.10.0.133 (Single-role)
File: ti-connectivity/wl127x-fw-5-mr.bin
Version: 6.5.7.0.42 (Multi-role)
File: ti-connectivity/wl127x-fw-5-plt.bin
Version: 6.3.10.0.133 (PLT-only)

File: ti-connectivity/wl128x-fw.bin
Version: 7.1.5.50.74 (STA-only)
File: ti-connectivity/wl128x-fw-ap.bin
Version: 7.2.1.0.54 (AP-only)
File: ti-connectivity/wl128x-fw-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-plt-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-4-sr.bin
Version: 7.3.5.0.98 (Single-role)
File: ti-connectivity/wl128x-fw-4-mr.bin
Version: 7.5.2.0.15 (Multi-role)
File: ti-connectivity/wl128x-fw-4-plt.bin
Version: 7.3.5.0.98 (PLT)
File: ti-connectivity/wl128x-fw-5-sr.bin
Version: 7.3.10.0.133 (Single-role)
File: ti-connectivity/wl128x-fw-5-mr.bin

Version: 7.5.7.0.42 (Multi-role)
File: ti-connectivity/wl128x-fw-5-plt.bin
Version: 7.3.10.2.133 (PLT-only)

File: ti-connectivity/wl127x-nvs.bin
File: ti-connectivity/wl128x-nvs.bin
Link: ti-connectivity/wl12xx-nvs.bin -> wl127x-nvs.bin
Link: ti-connectivity/wl1271-nvs.bin -> wl127x-nvs.bin

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The NVS file includes two parts:
- radio calibration
- HW configuration parameters (aka. INI values)

The published NVS files are for testing only. Every device needs to hava a unique NVS which is properly calibrated for best results. You can find more information about NVS generation for your device here:

http://wireless.kernel.org/en/users/Drivers/wl12xx/calibrator

If you're using a wl127x based device, use a symbolic link called wl1271-nvs.bin that links to the wl127x-nvs.bin file. If you are using wl128x, link to wl128x-nvs.bin instead.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl18xx - Texas Instruments 802.11 WLAN driver for WiLink8 chips

File: ti-connectivity/wl18xx-fw.bin
Version: 8.2.0.0.100
File: ti-connectivity/wl18xx-fw-2.bin
Version: 8.5.0.0.55
File: ti-connectivity/wl18xx-fw-3.bin
Version: 8.8.0.0.13
File: ti-connectivity/wl18xx-fw-4.bin
Version: 8.9.0.0.69

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl18xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: TI_ST - Texas Instruments bluetooth driver

File: ti-connectivity/TIInit_7.2.31.bts

Licence: Redistributable. See LICENCE.ti-connectivity for details.

TIInit_7.2.31.bts version 7.2.31

In order to use that file copy it to /lib/firmware/ti-connectivity.

Driver: tlg2300 - Telgent 2300 V4L/DVB driver.

File: tlg2300_firmware.bin

Licence: Redistributable.

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Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/rtl8712u.bin
Info: From Vendor's rtl8712_8188_8191_8192SU_usb_linux_v7_0.20100831
Reverted rtl8188C_8192C_8192D_usb_linux_v3.4.2_3727.20120404

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cfw.bin
File: rtlwifi/rtl8192cfwU.bin
File: rtlwifi/rtl8192cfwU_B.bin
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cufw.bin
File: rtlwifi/rtl8192cufw_A.bin
File: rtlwifi/rtl8192cufw_B.bin
File: rtlwifi/rtl8192cufw_TMSC.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192se - Realtek 802.11n WLAN driver for RTL8192SE

Info: updated from rtl_92ce_92se_92de_linux_mac80211_0004.0816.2011 driver version
File: rtlwifi/rtl8192sefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192de - Realtek 802.11n WLAN driver for RTL8192DE

Info: Updated from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8192defw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723e - Realtek 802.11n WLAN driver for RTL8723E

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8723fw.bin
File: rtlwifi/rtl8723fw_B.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723be - Realtek 802.11n WLAN driver for RTL8723BE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8723befw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: r8723au - Realtek 802.11n WLAN driver for RTL8723AU

Info: Taken from Realtek driver rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8188ee - Realtek 802.11n WLAN driver for RTL8188EE

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_88ee_linux_mac80211_0010.0109.2013

File: rtlwifi/rtl8188efw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8188eu - Realtek 802.11n WLAN driver for RTL8188EU

Info: Taken from Realtek version RTL8188EUS_linux_v4.1.4_6773.20130222
File: rtlwifi/rtl8188eufw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8821aefw.bin
File: rtlwifi/rtl8821aefw_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

Info: Initial version taken from Realtek version
rtl_92ce_92se_92de_8723ae_88ee_8723be_92ee_linux_mac80211_0017.1224.2013
Updated Jan. 14, 2015 with file added by Realtek to
http://github.com/lwfinger/rtlwifi_new.git.
File: rtlwifi/rtl8192eefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver
rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Info: rtl8723bu taken from Realtek driver
rtl8723BU_WiFi_linux_v4.3.16_14189.20150519_BTCOEX20150119-5844
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723bu_nic.bin
File: rtlwifi/rtl8723bu_wowlan.bin
File: rtlwifi/rtl8723bu_ap_wowlan.bin

Info: rtl8192eu taken from Realtek driver
rtl8192EU_linux_v4.3.1.1_11320.20140505
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8192eu_nic.bin
File: rtlwifi/rtl8192eu_wowlan.bin
File: rtlwifi/rtl8192eu_ap_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl_nic/rtl8168d-1.fw
File: rtl_nic/rtl8168d-2.fw
File: rtl_nic/rtl8105e-1.fw
File: rtl_nic/rtl8168e-1.fw
File: rtl_nic/rtl8168e-2.fw

File: rtl_nic/rtl8168e-3.fw
Version: 0.0.4

File: rtl_nic/rtl8168f-1.fw
Version: 0.0.5

File: rtl_nic/rtl8168f-2.fw
Version: 0.0.4

File: rtl_nic/rtl8411-1.fw
Version: 0.0.3

File: rtl_nic/rtl8411-2.fw
Version: 0.0.1

File: rtl_nic/rtl8402-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-1.fw
Version: 0.0.3

File: rtl_nic/rtl8168g-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-3.fw
Version: 0.0.1

File: rtl_nic/rtl8168h-1.fw
Version: 0.0.2

File: rtl_nic/rtl8168h-2.fw
Version: 0.0.2

File: rtl_nic/rtl8107e-1.fw
Version: 0.0.2

File: rtl_nic/rtl8107e-2.fw
Version: 0.0.2

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Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusb.fw

Licence: Redistributable. See LICENCE.via_vt6656 for details.

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020001.dfu
File: ar3k/ramps_0x01020001_26.dfu
File: ar3k/AthrBT_0x01020200.dfu
File: ar3k/ramps_0x01020200_26.dfu
File: ar3k/ramps_0x01020200_40.dfu
File: ar3k/AthrBT_0x31010000.dfu
File: ar3k/ramps_0x31010000_40.dfu
File: ar3k/AthrBT_0x11020000.dfu
File: ar3k/ramps_0x11020000_40.dfu
File: ar3k/ramps_0x01020201_26.dfu
File: ar3k/ramps_0x01020201_40.dfu
File: ar3k/AthrBT_0x41020000.dfu
File: ar3k/ramps_0x41020000_40.dfu
File: ar3k/AthrBT_0x11020100.dfu
File: ar3k/ramps_0x11020100_40.dfu
File: ar3k/AthrBT_0x31010100.dfu
File: ar3k/ramps_0x31010100_40.dfu

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020201.dfu
File: ar3k/1020201coex/ramps_0x01020201_26_HighPriority.dfu

Licence: Redistributable. See LICENSE.QualcommAtheros_ar3k for details

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Driver:Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS_ASIC.pst
File: ar3k/1020201/RamPatch.txt
File: ar3k/1020200/ar3kbdaddr.pst
File: ar3k/1020200/PS_ASIC.pst
File: ar3k/1020200/RamPatch.txt
File: ar3k/30101/ar3kbdaddr.pst
File: ar3k/30101/PS_ASIC.pst
File: ar3k/30101/RamPatch.txt
File: ar3k/30000/ar3kbdaddr.pst
File: ar3k/30000/PS_ASIC.pst
File: ar3k/30000/RamPatch.txt

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath6kl - Atheros support for AR6003

File: ath6k/AR6004/hw1.3/fw-3.bin
File: ath6k/AR6004/hw1.3/bdata.bin
File: ath6k/AR6004/hw1.2/fw-2.bin
File: ath6k/AR6004/hw1.2/bdata.bin
File: ath6k/AR6003/hw1.0/otp.bin.z77
File: ath6k/AR6003/hw1.0/bdata.SD31.bin
File: ath6k/AR6003/hw1.0/bdata.SD32.bin
File: ath6k/AR6003/hw1.0/data.patch.bin
File: ath6k/AR6003/hw1.0/bdata.WB31.bin
File: ath6k/AR6003/hw1.0/athwlan.bin.z77
File: ath6k/AR6003/hw2.1.1/fw-2.bin
File: ath6k/AR6003/hw2.1.1/fw-3.bin
File: ath6k/AR6003/hw2.1.1/otp.bin
File: ath6k/AR6003/hw2.1.1/athwlan.bin
File: ath6k/AR6003/hw2.1.1/endpointping.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003/hw2.1.1/data.patch.bin
File: ath6k/AR6003/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/otp.bin.z77
File: ath6k/AR6003/hw2.0/bdata.SD31.bin
File: ath6k/AR6003/hw2.0/bdata.SD32.bin
File: ath6k/AR6003/hw2.0/data.patch.bin
File: ath6k/AR6003/hw2.0/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/athwlan.bin.z77
File: ath6k/AR6002/eeprom.data
File: ath6k/AR6002/eeprom.bin
File: ath6k/AR6002/athwlan.bin.z77
File: ath6k/AR6002/data.patch.hw2_0.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

File: ath10k/QCA988X/hw2.0/board.bin
File: ath10k/QCA988X/hw2.0/firmware-4.bin
Version: 10.2.4.45
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA988X/hw2.0/firmware-5.bin
Version: 10.2.4.70.54
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw2.1/board.bin
File: ath10k/QCA6174/hw2.1/board-2.bin
File: ath10k/QCA6174/hw2.1/firmware-5.bin
Version: SW_RM.1.1.1-00157-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw2.1/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw3.0/board.bin
File: ath10k/QCA6174/hw3.0/board-2.bin
File: ath10k/QCA6174/hw3.0/firmware-4.bin
Version: WLAN.RM.2.0-00180-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA9377/hw1.0/board.bin
File: ath10k/QCA9377/hw1.0/board-2.bin
File: ath10k/QCA9377/hw1.0/firmware-5.bin
Version: WLAN.TF.1.0-00267-1
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA99X0/hw2.0/board.bin

File: ath10k/QCA99X0/hw2.0/firmware-5.bin
Version: 10.4.1.00030-1
Licence: ath10k/QCA99X0/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA4019/hw1.0/board-2.bin
File: ath10k/QCA4019/hw1.0/firmware-5.bin
Version: 10.4-3.2.1-00028
Licence: ath10k/QCA4019/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9887/hw1.0/board.bin
File: ath10k/QCA9887/hw1.0/firmware-5.bin
Version: 10.2.4-1.0-00013
Licence: ath10k/QCA9887/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9888/hw2.0/board-2.bin
File: ath10k/QCA9888/hw2.0/firmware-5.bin
Version: 10.4-3.2-00072
Licence: ath10k/QCA9888/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9984/hw1.0/board-2.bin
File: ath10k/QCA9984/hw1.0/firmware-5.bin
Version: 10.4-3.2-00072
Licence: ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

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Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat
File: myri10ge_ethp_z8e.dat
File: myri10ge_rss_eth_z8e.dat
File: myri10ge_rss_ethp_z8e.dat
File: myri10ge_eth_big_z8e.dat
File: myri10ge_ethp_big_z8e.dat
File: myri10ge_rss_eth_big_z8e.dat
File: myri10ge_rss_ethp_big_z8e.dat
Version: 1.4.57

License: Redistributable. See LICENCE.myri10ge_firmware for details.

Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003.1/hw2.1.1/data.patch.bin
File: ath6k/AR6003.1/hw2.1.1/endpointping.bin
File: ath6k/AR6003.1/hw2.1.1/otp.bin

License: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath6kl - Atheros support for AR3001 WiFi-Bluetooth combo module

File: ar3k/30101coex/ar3kbdaddr.pst
File: ar3k/30101coex/PS_ASIC_aclLowPri.pst
File: ar3k/30101coex/PS_ASIC_aclHighPri.pst
File: ar3k/30101coex/PS_ASIC.pst
File: ar3k/30101coex/RamPatch.txt

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Driver: drxk - Micronas DRX-K demodulator driver

File: dvb-usb-terratec-h5-drxk.fw

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Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd_init1.bin
File: ene-ub6250/sd_init2.bin
File: ene-ub6250/sd_rdwr.bin
File: ene-ub6250/ms_init.bin
File: ene-ub6250/msp_rdwr.bin
File: ene-ub6250/ms_rdwr.bin

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Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin
Source: isci/create_fw.c
Source: isci/create_fw.h
Source: isci/probe_roms.h
Source: isci/Makefile

Licence: GPLv2

Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: s5p-mfc - Samsung MFC video encoder/decoder driver

File: s5p-mfc.fw
File: s5p-mfc-v6.fw
File: s5p-mfc-v6-v2.fw
File: s5p-mfc-v7.fw
File: s5p-mfc-v8.fw

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/

Downloaded from http://linuxwireless.org/en/users/Drivers/carl9170

Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence.

Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec

File: ctefx.bin
File: ctspeq.bin

Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsa-firmware package.

Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq
Version: 1316.02.00
File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_86_0001

File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_86_0001
File: intel/ibt-hw-37.7.10-fw-1.80.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_38_0001
File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_38_0001
File: intel/ibt-hw-37.8.bseq
Version: 1339_02.00
File: intel/ibt-hw-37.8.10-fw-1.10.2.27.d.bseq
Version: BT_StonePeak_C0_REL_58_0001
File: intel/ibt-hw-37.8.10-fw-1.10.3.11.e.bseq
Version: BT_StonePeak_D0_REL_37_0002
File: intel/ibt-hw-37.8.10-fw-22.50.19.14.f.bseq
Version: BT_StonePeak_D1_REL_20_0001
File: intel/ibt-11-5.ddc
Version: LnP/SfP_REL0257
File: intel/ibt-11-5.sfi
Version: BT_LightningPeak_REL0330
File: intel/ibt-12-16.ddc
Version: BT_WindStormPeak_REL0060
File: intel/ibt-12-16.sfi
Version: BT_WindStormPeak_REL0060

Licence: Redistributable. See LICENCE.ibt_firmware for details

File: rtl_bt/rtl8192ee_fw.bin
File: rtl_bt/rtl8192eu_fw.bin
File: rtl_bt/rtl8723a_fw.bin
File: rtl_bt/rtl8723b_fw.bin
File: rtl_bt/rtl8761a_fw.bin
File: rtl_bt/rtl8812ae_fw.bin
File: rtl_bt/rtl8821a_fw.bin
File: rtl_bt/rtl8822b_fw.bin
File: rtl_bt/rtl8822b_config.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b_* came directly from Realtek.

Driver: btmtk_usb - Bluetooth USB driver

File: mt7650.bin

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

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Driver: rp2 -- Comtrol RocketPort 2 serial driver

File: rp2.fw

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Driver: go7007

File: go7007/s2250-1.fw
File: go7007/s2250-2.fw
Link: s2250.fw -> go7007/s2250-2.fw
Link: s2250_loader.fw -> go7007/s2250-1.fw

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File: go7007/go7007fw.bin
File: go7007/go7007tv.bin
File: go7007/lr192.fw
File: go7007/px-m402u.fw
File: go7007/px-tv402u.fw
File: go7007/wis-startrek.fw

Licence: Redistributable. See LICENCE.go7007 for details

Driver: microcode_amd - AMD CPU Microcode Update Driver for Linux

File: amd-ucode/microcode_amd.bin
Version: 2013-07-10
File: amd-ucode/microcode_amd_fam15h.bin
Version: 2016-03-16
File: amd-ucode/microcode_amd_fam16h.bin
Version: 2014-10-28

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Driver: mxu11x0 - MOXA UPort 11x0 USB Serial hub driver

File: moxa/moxa-1110.fw
File: moxa/moxa-1130.fw
File: moxa/moxa-1131.fw
File: moxa/moxa-1150.fw
File: moxa/moxa-1151.fw

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Driver: mxuport - MOXA UPort USB Serial hub driver

File: moxa/moxa-1250.fw
File: moxa/moxa-1251.fw
File: moxa/moxa-1410.fw
File: moxa/moxa-1450.fw
File: moxa/moxa-1451.fw
File: moxa/moxa-1613.fw
File: moxa/moxa-1618.fw
File: moxa/moxa-1653.fw
File: moxa/moxa-1658.fw

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Driver: cw1200 - ST-E CW1100/CW1200 WLAN driver

File: wsm_22.bin
Version: WSM395
Licence: Redistributable. See LICENCE.cw1200 for details.

File: sdd_sagrad_1091_1098.bin

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Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

File: cbfw-3.2.1.1.bin
File: ctfw-3.2.1.1.bin

File: ct2fw-3.2.1.1.bin
File: cbfw-3.2.3.0.bin
File: ctfw-3.2.3.0.bin
File: ct2fw-3.2.3.0.bin
File: cbfw-3.2.5.1.bin
File: ctfw-3.2.5.1.bin
File: ct2fw-3.2.5.1.bin

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Driver: qat - Intel(R) QAT crypto accelerator

File: qat_895xcc.bin
File: qat_895xcc_mmp.bin
File: qat_c3xxx.bin
File: qat_c3xxx_mmp.bin
File: qat_c62x.bin
File: qat_c62x_mmp.bin

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Driver: rsi -- Redpine Signals Inc 91x driver

File: rsi_91x.fw

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Driver: xhci-rcar -- Renesas R-Car Gen2/3 USB 3.0 host controller driver

File: r8a779x_usb3_v1.dlmem
File: r8a779x_usb3_v2.dlmem
File: r8a779x_usb3_v3.dlmem

Licence: Redistributable. See LICENCE.r8a779x_usb3 for details.

Driver: snd_soc_sst_acpi

File: intel/fw_sst_0f28.bin-48kHz_i2s_master

License: Redistributable. See LICENCE.fw_sst_0f28 for details

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Driver: as102 - Abilis Systems Single DVB-T Receiver

File: as102_data1_st.hex
File: as102_data2_st.hex

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Driver: it9135 -- ITEtech IT913x DVB-T USB driver

File: dvb-usb-it9135-01.fw
File: dvb-usb-it9135-02.fw

Licence: Redistributable. See LICENCE.it913x for details

Driver: snd_soc_sst_acpi

File: intel/IntcSST2.bin
Version: 8.4.1.77

License: Redistributable. See LICENCE.IntcSST2 for details

Driver: snd_intel_sst_core

File: intel/fw_sst_0f28.bin

License: Redistributable. See LICENCE.fw_sst_0f28 for details

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Driver: snd_intel_sst_core

File: intel/fw_sst_22a8.bin
Version: 01.0B.02.02

License: Redistributable. See LICENCE.fw_sst_0f28 for details

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Driver: snd-soc-skl

File: intel/dsp_fw_release.bin
Version: 8.20.00.958
md5sum: 02bd300f5ef85ae04afffd7c0ef50c46

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File: intel/dsp_fw_bxt.bin
Version: 9.22.00.1118
md5sum: 469dfcf5b2ebbc58505a0cca23303723

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File: intel/dsp_fw_kbl.bin
Version: 09.21.00.1037
md5sum: e71a2421565fadae228b3924d9510bcb

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Driver: smsmdtv - Siano MDTV Core module

File: cmmb_vega_12mhz.inp
File: cmmb_venice_12mhz.inp
File: dvb_nova_12mhz.inp
File: dvb_nova_12mhz_b0.inp
File: isdbt_nova_12mhz.inp
File: isdbt_nova_12mhz_b0.inp
File: isdbt_rio.inp
File: sms1xxx-hcw-55xxx-dvbt-02.fw
File: sms1xxx-hcw-55xxx-isdbt-02.fw
File: sms1xxx-nova-a-dvbt-01.fw
File: sms1xxx-nova-b-dvbt-01.fw
File: sms1xxx-stellar-dvbt-01.fw
File: tdmb_nova_12mhz.inp

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Driver: xhci-tegra -- NVIDIA Tegra XHCI driver

File: nvidia/tegra124/xusb.bin
Version: v45.46

File: nvidia/tegra210/xusb.bin
Version: v50.10

Licence: Redistributable. See LICENCE.nvidia for details

Driver: atusb - ATUSB IEEE 802.15.4 transceiver driver

File: atusb/atusb-0.2.dfu
Version: 0.2
Info: atusb/ChangeLog

Licence: GPLv2+

Driver: qca - Qualcomm Atheros Bluetooth support for QCA61x4 chips

File: qca/nvm_usb_00000201.bin
File: qca/nvm_usb_00000200.bin
File: qca/nvm_usb_00000300.bin
File: qca/nvm_usb_00000302.bin
File: qca/nvm_00130300.bin
File: qca/nvm_00130302.bin
File: qca/rampatch_usb_00000200.bin
File: qca/rampatch_usb_00000201.bin
File: qca/rampatch_usb_00000300.bin
File: qca/rampatch_usb_00000302.bin
File: qca/rampatch_00130300.bin
File: qca/rampatch_00130302.bin

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Driver: liquidio -- Cavium LiquidIO driver

File: liquidio/lio_210nv_nic.bin
Version: v1.1.9

File: liquidio/lio_210sv_nic.bin
Version: v1.1.9

File: liquidio/lio_410nv_nic.bin
Version: v1.1.9

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Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl_dmc_ver1_23.bin
File: i915/skl_dmc_ver1_26.bin
File: i915/skl_dmc_ver1.bin
Version: DMC API/ABI ver 1 - release 26 for Skylake

File: i915/bxt_dmc_ver1_07.bin
File: i915/bxt_dmc_ver1.bin
Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl_dmc_ver1_01.bin
File: i915/kbl_dmc_ver1.bin
Version: DMC API/ABI ver 1 - release 01 for Kabylake

File: i915/skl_guc_ver1.bin
Version: Guc API/ABI ver 1 - release 1059 for Skylake

File: i915/skl_guc_ver4.bin
Version: Guc API/ABI ver 4 - release 3 for Skylake

File: i915/skl_guc_ver6_1.bin
File: i915/skl_guc_ver6.bin
Version: Guc API/ABI ver 6 - release 1 for Skylake

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Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs_data.bin
File: nvidia/gk20a/fecs_inst.bin
File: nvidia/gk20a/gpccs_data.bin

File: nvidia/gk20a/gpccs_inst.bin
File: nvidia/gk20a/sw_bundle_init.bin
File: nvidia/gk20a/sw_ctx.bin
File: nvidia/gk20a/sw_method_init.bin
File: nvidia/gk20a/sw_nonctx.bin
File: nvidia/gm200/acr/bl.bin
File: nvidia/gm200/acr/ucode_load.bin
File: nvidia/gm200/acr/ucode_unload.bin
File: nvidia/gm200/gr/fecs_bl.bin
File: nvidia/gm200/gr/fecs_data.bin
File: nvidia/gm200/gr/fecs_inst.bin
File: nvidia/gm200/gr/fecs_sig.bin
File: nvidia/gm200/gr/gpccs_bl.bin
File: nvidia/gm200/gr/gpccs_data.bin
File: nvidia/gm200/gr/gpccs_inst.bin
File: nvidia/gm200/gr/gpccs_sig.bin
File: nvidia/gm200/gr/sw_bundle_init.bin
File: nvidia/gm200/gr/sw_ctx.bin
File: nvidia/gm200/gr/sw_method_init.bin
File: nvidia/gm200/gr/sw_nonctx.bin
File: nvidia/gm204/acr/bl.bin
File: nvidia/gm204/acr/ucode_load.bin
File: nvidia/gm204/acr/ucode_unload.bin
File: nvidia/gm204/gr/fecs_bl.bin
File: nvidia/gm204/gr/fecs_data.bin
File: nvidia/gm204/gr/fecs_inst.bin
File: nvidia/gm204/gr/fecs_sig.bin
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File: nvidia/gm204/gr/gpccs_data.bin
File: nvidia/gm204/gr/gpccs_inst.bin
File: nvidia/gm204/gr/gpccs_sig.bin
File: nvidia/gm204/gr/sw_bundle_init.bin
File: nvidia/gm204/gr/sw_ctx.bin
File: nvidia/gm204/gr/sw_method_init.bin
File: nvidia/gm204/gr/sw_nonctx.bin
File: nvidia/gm206/acr/bl.bin
File: nvidia/gm206/acr/ucode_load.bin
File: nvidia/gm206/acr/ucode_unload.bin
File: nvidia/gm206/gr/fecs_bl.bin
File: nvidia/gm206/gr/fecs_data.bin
File: nvidia/gm206/gr/fecs_inst.bin
File: nvidia/gm206/gr/fecs_sig.bin
File: nvidia/gm206/gr/gpccs_bl.bin
File: nvidia/gm206/gr/gpccs_data.bin
File: nvidia/gm206/gr/gpccs_inst.bin
File: nvidia/gm206/gr/gpccs_sig.bin
File: nvidia/gm206/gr/sw_bundle_init.bin
File: nvidia/gm206/gr/sw_ctx.bin
File: nvidia/gm206/gr/sw_method_init.bin
File: nvidia/gm206/gr/sw_nonctx.bin
File: nvidia/gm20b/acr/bl.bin
File: nvidia/gm20b/acr/ucode_load.bin
File: nvidia/gm20b/gr/fecs_bl.bin
File: nvidia/gm20b/gr/fecs_data.bin
File: nvidia/gm20b/gr/fecs_inst.bin
File: nvidia/gm20b/gr/fecs_sig.bin
File: nvidia/gm20b/gr/gpccs_bl.bin
File: nvidia/gm20b/gr/gpccs_data.bin
File: nvidia/gm20b/gr/gpccs_inst.bin
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File: nvidia/gm20b/gr/sw_nonctx.bin
File: nvidia/gp100/acr/bl.bin
File: nvidia/gp100/acr/ucode_load.bin
File: nvidia/gp100/acr/ucode_unload.bin
File: nvidia/gp100/gr/fecs_bl.bin
File: nvidia/gp100/gr/fecs_data.bin
File: nvidia/gp100/gr/fecs_inst.bin
File: nvidia/gp100/gr/fecs_sig.bin
File: nvidia/gp100/gr/gpccs_bl.bin
File: nvidia/gp100/gr/gpccs_data.bin
File: nvidia/gp100/gr/gpccs_inst.bin
File: nvidia/gp100/gr/gpccs_sig.bin
File: nvidia/gp100/gr/sw_bundle_init.bin
File: nvidia/gp100/gr/sw_ctx.bin
File: nvidia/gp100/gr/sw_method_init.bin
File: nvidia/gp100/gr/sw_nonctx.bin

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Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin
File: atmel/wilc1000_p2p_fw.bin

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Driver: hfi1 - Intel OPA Gen 1 adapter

File: hfi1_dc8051.fw
Version: 0.35
File: hfi1_fabric.fw
File: hfi1_pcie.fw
File: hfi1_sbus.fw
File: hfi1_platform.dat

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Driver: knav_qmss_queue - TI Keystone 2 QMSS driver

File: ti-keystone/ks2_qmss_pdsp_acc48_k2_le_1_0_0_9.bin

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Driver: mwlwifi - Marvell mac80211 driver for 80211ac cards.

File: mwlwifi/88W8864.bin
Version: 7.2.8.6

File: mwlwifi/88W8897.bin
Version: 8.2.0.10

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Driver: mtk-vpu - Mediatek VPU video processing unit driver

File: vpu_d.bin
File: vpu_p.bin

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Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin
Version: 2.9

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File name: generic_Firmware-xc5000c

The following XC500C firmware file "dvb-fe-xc5000C-4.1.30.7.fw" was created
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Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares
<Ramon.Cazares@CrestaTech.com> to Devin Heitmueller dheitmueller@linuxtv.org
on July 25, 2012.

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linux-libc-headers

Package version: 4.8
Package revision: r0
Package license(s): GPLv2

File name: generic_GPLv2

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==========

Rationale for the publication restrictions:

In summary:

a) LMbench is designed to measure enough of an OS that if you do well in
all catagories, you've covered latency and bandwidth in networking,
disks, file systems, VM systems, and memory systems.
b) Multiple times in the past people have wanted to report partial results.
Without exception, they were doing so to show a skewed view of whatever
it was they were measuring (for example, one OS fit small processes into
segments and used the segment register to switch them, getting good
results, but did not want to report large process context switches
because those didn't look as good).
c) We insist that if you formally report LMbench results, you have to
report all of them and make the raw results file easily available.
Reporting all of them means in that same publication, a pointer
does not count. Formally, in this context, means in a paper,
on a web site, etc., but does not mean the exchange of results
between OS developers who are tuning a particular subsystem.

We have a lot of history with benchmarking and feel strongly that there
is little to be gained and a lot to be lost if we allowed the results
to be published in isolation, without the complete story being told.

There has been a lot of discussion about this, with people not liking this
restriction, more or less on the freedom principle as far as I can tell.
We're not swayed by that, our position is that we are doing the right
thing for the OS community and will stick to our guns on this one.

It would be a different matter if there were 3 other competing
benchmarking systems out there that did what LMbench does and didn't have
the same reporting rules. There aren't and as long as that is the case,
I see no reason to change my mind and lots of reasons not to do so. I'm
sorry if I'm a pain in the ass on this topic, but I'm doing the right
thing for you and the sooner people realize that the sooner we can get on
to real work.

Operating system design is a largely an art of balancing tradeoffs.
In many cases improving one part of the system has negative effects
on other parts of the system. The art is choosing which parts to
optimize and which to not optimize. Just like in computer architecture,
you can optimize the common instructions (RISC) or the uncommon
instructions (CISC), but in either case there is usually a cost to
pay (in RISC uncommon instructions are more expensive than common
instructions, and in CISC common instructions are more expensive
than required). The art lies in knowing which operations are
important and optmizing those while minimizing the impact on the
rest of the system.

Since lmbench gives a good overview of many important system features,
users may see the performance of the system as a whole, and can
see where tradeoffs may have been made. This is the driving force
behind the publication restriction: any idiot can optimize certain
subsystems while completely destroying overall system performance.
If said idiot publishes *only* the numbers relating to the optimized
subsystem, then the costs of the optimization are hidden and readers
will mistakenly believe that the optimization is a good idea. By
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detect that the optimization improved the subsystem performance
while damaging the rest of the system performance and would be able
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However, the paper *must* also include the rest of the standard
lmbench numbers to show how your tweaks may (or may not) have
impacted the rest of the system. The full set of numbers may
be included in an appendix, but they *must* be included in the

paper.

This helps protect the community from adopting flawed technologies
based on incomplete data. It also helps protect the community from
misleading marketing which tries to sell systems based on partial
(skewed) lmbench performance results.

We have seen many cases in the past where partial or misleading
benchmark results have caused great harm to the community, and
we want to ensure that our benchmark is not used to perpetrate
further harm and support false or misleading claims.

File name: COPYING-2

%M% %I% %E%

The set of programs and documentation known as "lmbench" are distributed
under the Free Software Foundation's General Public License with the
following additional restrictions (which override any conflicting
restrictions in the GPL):

1. You may not distribute results in any public forum, in any publication,
   or in any other way if you have modified the benchmarks.

2. You may not distribute the results for a fee of any kind. This includes
   web sites which generate revenue from advertising.

If you have modifications or enhancements that you wish included in
future versions, please mail those to me, Larry McVoy, at lm@bitmover.com.

==========

Rationale for the publication restrictions:

In summary:

a) LMbench is designed to measure enough of an OS that if you do well in
   all catagories, you've covered latency and bandwidth in networking,
   disks, file systems, VM systems, and memory systems.
b) Multiple times in the past people have wanted to report partial results.
   Without exception, they were doing so to show a skewed view of whatever
   it was they were measuring (for example, one OS fit small processes into
   segments and used the segment register to switch them, getting good
   results, but did not want to report large process context switches
   because those didn't look as good).
c) We insist that if you formally report LMbench results, you have to
   report all of them and make the raw results file easily available.
   Reporting all of them means in that same publication, a pointer
   does not count. Formally, in this context, means in a paper,
   on a web site, etc., but does not mean the exchange of results
   between OS developers who are tuning a particular subsystem.

We have a lot of history with benchmarking and feel strongly that there
is little to be gained and a lot to be lost if we allowed the results
to be published in isolation, without the complete story being told.

There has been a lot of discussion about this, with people not liking this
restriction, more or less on the freedom principle as far as I can tell.
We're not swayed by that, our position is that we are doing the right
thing for the OS community and will stick to our guns on this one.

It would be a different matter if there were 3 other competing
benchmarking systems out there that did what LMbench does and didn't have
the same reporting rules. There aren't and as long as that is the case,
I see no reason to change my mind and lots of reasons not to do so. I'm
sorry if I'm a pain in the ass on this topic, but I'm doing the right
thing for you and the sooner people realize that the sooner we can get on
to real work.

Operating system design is a largely an art of balancing tradeoffs.
In many cases improving one part of the system has negative effects
on other parts of the system. The art is choosing which parts to
optimize and which to not optimize. Just like in computer architecture,
you can optimize the common instructions (RISC) or the uncommon
instructions (CISC), but in either case there is usually a cost to
pay (in RISC uncommon instructions are more expensive than common
instructions, and in CISC common instructions are more expensive
than required). The art lies in knowing which operations are
important and optmizing those while minimizing the impact on the
rest of the system.

Since lmbench gives a good overview of many important system features, users may see the performance of the system as a whole, and can see where tradeoffs may have been made. This is the driving force behind the publication restriction: any idiot can optimize certain subsystems while completely destroying overall system performance. If said idiot publishes *only* the numbers relating to the optimized subsystem, then the costs of the optimization are hidden and readers will mistakenly believe that the optimization is a good idea. By including the publication restriction readers would be able to detect that the optimization improved the subsystem performance while damaging the rest of the system performance and would be able to make an informed decision as to the merits of the optimization.

Note that these restrictions only apply to *publications*. We intend and encourage lmbench's use during design, development, and tweaking of systems and applications. If you are tuning the linux or BSD TCP stack, then by all means, use the networking benchmarks to evaluate the performance effects of various modifications; Swap results with other developers; use the networking numbers in isolation. The restrictions only kick in when you go to *publish* the results. If you sped up the TCP stack by a factor of 2 and want to publish a paper with the various tweaks or algorithms used to accomplish this goal, then you can publish the networking numbers to show the improvement. However, the paper *must* also include the rest of the standard lmbench numbers to show how your tweaks may (or may not) have impacted the rest of the system. The full set of numbers may be included in an appendix, but they *must* be included in the paper.

This helps protect the community from adopting flawed technologies based on incomplete data. It also helps protect the community from misleading marketing which tries to sell systems based on partial (skewed) lmbench performance results.

We have seen many cases in the past where partial or misleading benchmark results have caused great harm to the community, and we want to ensure that our benchmark is not used to perpetrate further harm and support false or misleading claims.

lsof

Package version: 4.89
Package revision: r0
Package license(s): BSD

File name: 00README

```
  Making and Installing lsof 4

*********************************************************************
| The latest release of lsof is always available via anonymous ftp |
| from lsof.itap.purdue.edu.  Look in pub/tools/unix/lsof.         |
*********************************************************************

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=======================
Pre-built Lsof Binaries
=======================

Avoid using pre-built lsof binaries if you can; build your own
instead.
```

I do not support lsof binaries built and packaged by third parties nor lsof binaries built from anything but the latest lsof revision. (See the Bug Reports section for more information on the details of lsof support.)

One important reasone for those support restrictions is that when lsof is built its Configure script tunes lsof to the features available on the building system, often embodied in supporting header files and libraries. If the building system doesn't have support for a particular feature, lsof won't be built to support the feature on any system.

The Veritas VxFS file system is a good example of a feature that requires build-time support.

UNIX dialect version differences -- Solaris 8 versus 9, AIX 4.3.3 vesus 5.2, etc. -- can also render a pre-built lsof binary useless on a different version. So can kernel bit size.

There are so many potential pitfalls to using an lsof binary improperly that I strongly recommend lsof be used only where it is built.

==========
Making Lsof
==========

```
 $ cd <lsof source directory>
 $ ./Configure <your dialect's abbreviation>
 $ make
```

(Consult the 00FAQ and 00XCONFIG files of the lsof distribution for information about using make command invocations and environment variables to override lsof default Makefile strings.)

This lsof distribution can be used with many UNIX dialects. However, it must be configured specifically for each dialect. Configuration is done in three ways: 1) by changing definitions in the machine.h header file of the UNIX dialect of interest; 2) by defining environment variable values prior to calling Configure (see the 00XCONFIG file, the Environment Variabls and Environment Variables Affecting the Configure Script sections of this file); and 3) by running the Configure shell script found in the top level of the distribution directory.

You may not need to change any machine.h definitions, but you might want to look at them anyway. Pay particular attention to the definitions that are discussed in the Security section of this file. Please read that section.

The Configure script calls three other scripts in the lsof distribution: AFSConfig; Inventory; and Customize. The AFSConfig script is called for selected dialects (AIX, HP-UX, NEXTSTEP, and Solaris) to locate AFS header files and determine the AFS version. See The AFSConfig Script section of this file for more information.

The Inventory script checks the completeness of the lsof distribution. Configure calls Inventory after it has accepted the dialect abbreviation, but before it configures the top-level directory for the dialect. See The Inventory Script section of this file for more information.

Configure calls the Customize script after it has configured the top-level lsof directory for the declared dialect. Customize helps you modify some of the important compile-time definitions of machine.h. See the The Customize Script section.

You should also think about where you will install lsof and its man page, and whom you will let execute lsof. Please read the Installing Lsof section of this file for information on installation considerations.

Once you have inspected the machine.h file for the dialect for which you want to build lsof, and made any changes you need, run the Configure script, supplying it with the abbreviation for the dialect. (See the following table.) Configure selects the appropriate options for the dialect and runs the Mksrc shell script in the dialect sub-directory to construct the appropriate source files in the top-level distribution directory.

Configure may also run the MkKernOpts script in the dialect sub-directory to propagate kernel build options to the dialect

Makefile. This is done for only a few dialects -- e.g., DC/OSx, and Reliant UNIX.

Configure creates a dialect-specific Makefile. You may want to inspect or edit this Makefile to make it conform to local conventions. If you want the Makefile to install lsof and its man page, you will have to create an appropriate install rule.

Lsof may be configured using UNIX dialect abbreviations from the following table. Alternative abbreviations are indicated by a separating `|'. For example, for SCO OpenServer you can use either the ``osr'' or the ``sco'' abbreviation:

```
$ Configure osr
  or
$ Configure sco
```

```
Abbreviations  UNIX Dialect
-------------  ------------

  aix   IBM AIX 5.[23] and 5.3-ML1 using IBM's C Compiler
  aixgcc  IBM AIX 5.[12] and 5.3-ML1 using gcc
  darwin  Apple Darwin 7.x and 8.x for Power Macintosh systems
  decosf  DEC OSF/1, Digital UNIX, Tru64 UNIX 4.0 and 5.1
  digital_unix Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1
  du   Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1
  freebsd  FreeBSD 4.x, 4.1x, 5.x and [67].x
  hpux  HP-UX 11.00, 11.11 and 11.23, using HP's C
 Compiler, both /dev/kmem-based and PSTAT-based
  hpuxgcc  HP-UX 11.00, 11.11 and 11.23, using gcc, both
 /dev/kmem-based and PSTAT-based
  linux  Linux 2.1.72 and above for x86-based systems
  netbsd  NetBSD 1.[456], 2.x and 3.x
  next  NEXTSTEP 3.[13]
  nextstep  NEXTSTEP 3.[13]
  ns   NEXTSTEP 3.[13]
  nxt   NEXTSTEP 3.[13]
  openbsd  OpenBSD 2.[89] and 3.[0-9]
  openstep  OPENSTEP 4.x
  os   OPENSTEP 4.x
  osr   SCO OpenServer Release 5.0.6, using the C compiler
 from the SCO developer's kit
  osrgcc  SCO OpenServer Release 5.0.6, using gcc
  osr6  SCO Openserver 6.0.0, using the SCO C compiler
  sco   SCO OpenServer Release 5.0.6, using the C compiler
 from the SCO developer's kit
  scogcc  SCO OpenServer Release 5.0.6, using gcc
  solaris  Solaris 2.x, 7, 8, 9 and 10 using gcc
  solariscc  Solaris 2.x, 7, 8, 9 and 10 using Sun's cc
  tru64  Tru64 UNIX, DEC OSF/1, Digital UNIX 4.0 and 5.1
  unixware  SCO|Caldera UnixWare 7.1.4
  uw   SCO|Caldera UnixWare 7.1.4
```

If you have an earlier version of a dialect not named in the above list, lsof may still work on your system. I have no way of testing that myself. Try configuring for the named dialect -- e.g., if you're using Solaris 2.1, try configuring for Solaris 2.5.1.

After you have configured lsof for your UNIX dialect and have selected options via the Customize script (See the The Customize Script section.) , use the make command to build lsof -- e.g.,

```
$ make
```

Other Configure Script Options

There are three other useful options to the Configure script besides the dialect abbreviation:

```
-clean        may be specified to remove all traces of
  a dialect configuration, including the
  Makefile, symbolic links, and library files.

-h            may be specified to obtain a list of
-help  Configure options, including dialect
  abbreviations.

-n            may be specified to stop the Configure
  script from calling the Customize and
  Inventory scripts.
```

Caution: -n also suppresses the AFSConfig
step.

Environment Variables

Lsof configuration, building, and execution may be affected by environment variable settings. See the Definitions That Affect Compilation section in the 00PORTING file, the General Environment Variables section in the 00XCONFIG file, the Dialect-Specific Environment Variables section in the 00XCONFIG file, and the Environment Variables Affecting the Configure Script section of this file for more information.

Note in the General Environment Variables section of the 00XCONFIG file that there are five environment variables that can be used to pre-define values in lsof's -v output: LSOF_BLDCMT, LSOF_HOST, LSOF_LOGNAME, LSOF_SYSINFO, and LSOF_USER.

Security

If the symbol HASSECURITY is defined, a security mode is enabled, and lsof will allow only the root user to list all open files. Non-root users may list only open files whose processes have the same user ID as the real user ID of the lsof process (the one that its user logged on with).

However, if HASNOSOCKSECURITY is also defined, anyone may list anyone else's open socket files, provided their listing is enabled with the "-i" option.

Lsof is distributed with the security mode disabled -- HASSECURITY is not defined. (When HASSECURITY is not defined, the definition of HASNOSOCKSECURITY has no meaning.) You can enable the security mode by defining HASSECURITY in the Makefile or in the machine.h header file for the specific dialect you're using -- e.g. dialects/aix/machine.h.

The Customize script, run by Configure when it has finished its work, gives you the opportunity to define HASSECURITY and HASNOSOCKSECURITY. (See the The Customize Script section.)

The lsof -h output indicates the state HASSECURITY and HASNOSOCKSECURITY had when lsof was built, reporting:

"Only root can list all files;"
if HASSECURITY was defined and HASNOSOCKSECURITY wasn't defined;

"Only root can list all files, but anyone can list socket files."
if HASSECURITY and HASNOSOCKSECURITY were both defined;

"Anyone can list all files;"
if HASSECURITY wasn't defined. (The definition of HASNOSOCKSECURITY doesn't matter when HASSECURITY isn't defined.)

You should carefully consider the implications of using the default security mode. When lsof is compiled in the absence of the HASSECURITY definition, anyone who can execute lsof may be able to see the presence of all open files. This may allow the lsof user to observe open files -- e.g., log files used to track intrusions -- whose presence you would rather not disclose.

As distributed, lsof writes a user-readable and user-writable device cache file in the home directory of the real user ID executing lsof. There are other options for constructing the device cache file path, and they each have security implications.

The 00DCACHE file in the lsof distribution discusses device cache file path construction in great detail. It tells how to disable the various device cache file path options, or how to disable the entire device cache file feature by removing the HASDCACHE definition from the dialect's machine.h file. There is also information on the device cache file feature in the 00FAQ file. (The 00DCACHE and 00FAQ files are part of the lsof distribution package.)

The Customize script, run by Configure after it has finished its work, gives you the opportunity to change the compile-time options

related to the device cache file. (See The Customize Script section.)

Since lsof may need setgid or setuid-root permission (See the Setgid Lsof Dialects and Setuid-root Lsof Dialects sections.), its security should always be viewed with skepticism. Lest the setgid and setuid-root permissions allow lsof to read kernel name list or memory files, declared with the -k and -m options, that the lsof user can't normally access, lsof uses access(2) to establish its real user's authority to read such files when it can't surrender its power before opening them. This change was added at the suggestion of Tim Ramsey.

Lsof surrenders setgid permission on most dialects when it has gained access to the kernel's memory devices. There are exceptions to this rule, and some lsof implementations need to run setuid-root. (The Setgid Lsof Dialects and Setuid-root Lsof Dialects sections contains a list of lsof implementations and the permissions recommended in the distribution's Makefiles.)

The surrendering of setgid permission is controlled by the WILLDROPGID definition in the dialect machine.h header files.

In the end you must judge for yourself and your installation the risks that lsof presents and restrict access to it according to your circumstances and judgement.

Run-time Warnings

Lsof can issue warning messages when it runs -- e.g., about the state of the device cache file, about an inability to access an NFS file system, etc. Issuance of warnings are enabled by default in the lsof distribution.

Issuance or warnings may be disabled by default by defining WARNINGSTATE in the dialect's machine.h. The Customize script may also be used to change the default warning message issuance state. (See The Customize Script section.)

The ``-w'' option description of the ``-h'' option (help) output will indicate the default warning issuance state. Whatever the state may be, it can be reversed with ``-w''.

Device Access Warnings

When lsof encounters a /dev (or /devices) directory, one of its sub-directories, or one of their files that it cannot access with opendir(3) or stat(2), it issues a warning message and continues. Lsof will be more likely to issue such a warning when it has been installed with setgid(<some group name>) permission; it won't have trouble if it has been installed with setuid(root) permission or is being run under the root login.

The lsof caller can inhibit or enable the warning with the -w option, depending on the issuance state of run-time warnings. (See the Run-time Warnings section.)

The warning messages do not appear when lsof obtains device information from a device cache file that it has built and believes to be current or when warning message issuance is disabled by default. (See the "Caches -- Name and Device" section for more information on the device cache file.)

The lsof builder can inhibit the warning by disabling the definition of WARNDEVACCESS in the dialect's machine.h or disable all warnings by defining WARNINGSTATE. WARNDEVACCESS is defined by default for most dialects. However, some dialects have some device directory elements that are private -- e.g., HP-UX -- and it is more convenient for the lsof user if warning messages about them are inhibited.

Output from lsof's -h option indicates the status of WARNDEVACCESS. If it was defined when lsof was compiled, this message will appear:

```
/dev warnings = enabled
```

If WARNDEVACCESS was not defined when lsof was compiled, this message will appear instead:

```
/dev warnings = disabled
```

The Customize script, run by Configure after it has finished its work, gives you the opportunity to change the WARNDEVACCESS definition. (See The Customize Script section.)

NFS Blocks

Lsof is susceptible to NFS blocks when it tries to lstat() mounted file systems and when it does further processing -- lstat() and readlink() -- on its optional file and file system arguments.

Lsof tries to avoid being stopped completely by NFS blocks by doing the lstat() and readlink() functions in a child process, which returns the function response via a pipe. The lsof parent limits the wait for data to arrive in the pipe with a SIGALRM, and, if the alarm trips, terminates the child process with a SIGINT and a SIGKILL.

This is as reliable and portable a method for breaking NFS deadlocks as I have found, although it still fails under some combinations of NFS version, UNIX dialect, and NFS file system mount options. It generally succeeds when the "intr" or "soft" mount options are used; it generally fails when the "hard" mount option is used.

When lsof cannot kill the child process, a second timeout causes it to stop waiting for the killed child to complete. While the second timeout allows lsof to complete, it may leave behind a hung child process. Unless warnings are inhibited by default or with the -w option, lsof reports the possible hung child.

NFS block handling was updated with suggestions made by Andreas Stolcke. Andreas suggested using the alternate device numbers that appear in the mount tables of some dialects when it is not possible to stat(2) the mount points.

The -b option was added to direct lsof to avoid the stat(2) and readlink(2) calls that might block on NFS mount points and always use the alternate device numbers. If warning message issuance is enabled and you don't want warning messages about what lsof is doing, use the -w option, too.

The -O option directs lsof to avoid doing the potentially blocking operations in child processes. Instead, when -O is specified, lsof does them directly. While this consumes far less system overhead, it can cause lsof to hang, so I advise you to use -O sparingly.

Caches -- Name and Device

Robert Ehrlich suggested that lsof obtain path name components for open files from the kernel's name cache. Where possible, lsof dialect implementations do that. The -C option inhibits kernel name cache examination.

Since AFS apparently does not use the kernel's name cache, where lsof supports AFS it is unable to identify AFS files with path name components.

Robert also suggested that lsof cache the information it obtains via stat(2) for nodes in /dev (or /devices) to reduce subsequent running time. Lsof does that, too.

In the default distribution the device cache file is stored in .lsof_hostname, mode 0600, in the home directory of the login of the user ID that executes lsof. The suffix, hostname, is the first component of the host's name returned by gethostname(2). If lsof is executed by a user ID whose home directory is NFS-mounted from several hosts, the user ID's home directory may collect several device cache files, one for each host from which it was executed.

Lsof senses accidental or malicious damage to the device cache file with extensive integrity checks, including the use of a 16 bit CRC. It also tries to sense changes in /dev (or /devices) that indicate the device cache file is out of date.

There are other options for forming the device cache file path. Methods the lsof builder can use to control and employ them are documented in the separate 00DCACHE file of the lsof distribution.

Raw Sockets

On many UNIX systems raw sockets use a separate network control block structure. Display of files for applications using raw sockets -- ping, using ICMP, for example -- need special support for displaying their information. This support is so dialect-specific and information to provide it so difficult to find that not all dialect revisions of lsof handle raw sockets completely.

Other Compile-time Definitions

The machine.h and dlsof.h header files for each dialect contains definitions that affect the compilation of lsof. Check the Definitions That Affect Compilation section of the 00PORTING file of the lsof distribution for their descriptions. (Also see The Customize Script section.)

The AFSConfig Script

Lsof supports AFS on some combinations of UNIX dialect and AFS version. See the AFS section of this document for a list of supported combinations.

When configuring for dialects where AFS is supported, the Configure script calls the AFSConfig script to determine the location of AFS header files and the AFS version. Configure will not call AFSConfig, even for the selected dialects, unless the file /usr/vice/etc/ThisCell exists.

The AFS header file location is recorded in the AFSHeaders file; version, AFSVersion. Once these values have been recorded, Configure can be told to skip the calling of AFSConfig by specifying its (Configure's) -n option.

The Inventory Script

The lsof distribution contains a script, called Inventory, that checks the distribution for completeness. It uses the file 00MANIFEST in the distribution as a reference point.

After the Configure script has accepted the dialect abbreviation, it normally calls the Inventory script to make sure the distribution is complete.

After Inventory has run, it creates the file ".ck00MAN" in the top-level directory to record for itself the fact that the inventory has been check. Should Inventory be called again, it senses this file and asks the caller if another check is in order, or if the check should be skipped.

The -n option may be supplied to Configure to make it bypass the calling of the Inventory script. (The option also causes Configure to avoid calling the Customize script.)

The lsof power user may want to define (touch) the file ".neverInv". Configure avoids calling the Inventory script when ".neverInv" exists.

The Customize Script

Normally when the Configure script has finished its work, it calls another shell script in the lsof distribution called Customize. (You can tell Configure to bypass Customize with its -n option.)

Customize leads you through the specification of these important compile-time definitions for the dialect's machine.h header file:

HASDCACHE device cache file control
HASENVDC device cache file environment variable name
HASPERSDC personal device cache file path format
HASPERSDCPATH name of environment variable that provides an additional component

```
   of the personal device cache file
   path
    HASSYSDC  system-wide device cache file path
 HASKERNIDCK  the build-time to run-time kernel
   identity check
 HASSECURITY  the security option
 HASNOSOCKSECURITY the open socket listing option whe
   HASSECURITY is defined
 WARNDEVACCESS  /dev (or /devices) warning message
   control
 WARNINGSTATE  warning message issuance state
```

The Customize script accompanies its prompting for entry of new values for these definitions with brief descriptions of each of them. More information on these definitions may be found in this file or in the 00DCACHE and 00FAQ files of the lsof distribution.

You don't need to run Customize after Configure. You can run it later or you can edit machine.h directly.

The -n option may be supplied to Configure to make it bypass the calling of the Customize script. (The option also causes Configure to avoid calling the Inventory script.)

The lsof power user may want to define (touch) the file ".neverCust". Configure avoids calling the Customize script when ".neverCust" exists.

Customize CAUTION: the Customize script works best when it is applied to a newly configured lsof source base -- i.e., the machine.h header file has not been previously modified by the Customize script. If you have previously configured lsof, and want to rerun the Customize script, I recommend you clean out the previous configuration and create a new one:

```
 $ Configure -clean
 $ Configure <dialect_abbreviation>
 ...
 Customize in response to the Customize script prompts.
```

Cautions
========

Lsof is a tool that is closely tied to the UNIX operating system version. It uses header files that describe kernel structures and reads kernel structures that typically change from OS version to OS version, and even within a version as vendor patches are applied.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION, ON ANOTHER. VENDOR PATCHES INFLUENCE THE VERSION IDENTITY.

On some UNIX dialects lsof versions may be even more restricted by architecture type.

The bottom line is use lsof where you built it. If you intend to use a common lsof binary on multiple systems, make sure all systems run exactly the same OS version and have exactly the same patches.

Warranty
========

Lsof is provided as-is without any warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The entire risk as to the quality and performance of lsof is with you. Should lsof prove defective, you assume the cost of all necessary servicing, repair, or correction.

License
=======

Lsof has no license. Its use and distribution are subject to these terms and conditions, found in each lsof source file. (The copyright year in or format of the notice may vary slightly.)

```
   /*
    * Copyright 2002 Purdue Research Foundation, West Lafayette,
    * Indiana 47907.  All rights reserved.
    *
    * Written by Victor A. Abell
```

```
 *
 * This software is not subject to any license of the American
 * Telephone and Telegraph Company or the Regents of the
 * University of California.
 *
 * Permission is granted to anyone to use this software for
 * any purpose on any computer system, and to alter it and
 * redistribute it freely, subject to the following
 * restrictions:
 *
 * 1. Neither the authors nor Purdue University are responsible
 *    for any consequences of the use of this software.
 *
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 *    either by explicit claim or by omission.  Credit to the
 *    authors and Purdue University must appear in documentation
 *    and sources.
 *
 * 3. Altered versions must be plainly marked as such, and must
 *    not be misrepresented as being the original software.
 *
 * 4. This notice may not be removed or altered.
 */
```

Bug Reports

Now that the obligatory disclaimer is out of the way, let me hasten to add that I accept lsof bug reports and try hard to respond to them. I will also consider and discuss requests for new features, ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF TO THE UNIX DIALECT OR DIALECT OPTION VENDOR.

At worst such bug reports will confuse the vendor; at best, the vendor will forward the bug report to me.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF BINARIES BUILT OR DISTRIBUTED BY SOMEONE ELSE, BECAUSE I CAN'T SUPPORT THEM.

Before you send me a bug report, please do these things:

* Make sure you try the latest lsof revision.

  + Download the latest revision from:

  ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof

  + Verify the signatures of what you have downloaded;

  + While connected to lsof.itap.purdue.edu, check for patches:

  ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/patches

  + If patches exist, install them in the latest revision you just downloaded. Then build the latest revision and see if it fixes your bug.

* If you're having trouble compiling lsof with gcc, try the UNIX dialect vendor's compiler. I don't have access to gcc on all test systems, so my support for it is hit-and-miss, and so is my ability to respond to gcc compilation problem reports.

* Check the lsof frequently asked questions file, 00FAQ, to see if there's a question and answer relevant to your problem.

* Make sure you're running the lsof you think you are by checking the path to it with which(1). When in doubt, use an absolute path to lsof. Make sure that lsof binary has sufficient permissions to do what you ask, including internal permissions given it (e.g., restrictions on what files lsof may report for whom) during its build.

When you send a bug report, make sure you include output from your running of lsof's Configure script. If you were able to compile a running lsof, please also include:

* Output from which(1) that shows the absolute path to the lsof binary in question;

* Output from running lsof with its -h and -v options at
  lsof's absolute path;

* Output from "ls -l" directed to lsof's absolute path.

If you weren't able to compile a running lsof, please send me: the compiler error output; identification of the lsof revision you're using (contents of the lsof version.c file); identification of your system (full uname output or output from whatever other tool identifies the system); and compiler identification (e.g., gcc -v output).

Either set of output will help me understand how lsof was configured and what UNIX dialect and lsof revision is involved.

Please send all bug reports, requests, etc. to me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

The 00FAQ File

The lsof distribution contains an extensive frequently asked questions file on lsof features and problems. I recommend you consult it before sending me e-mail. Use your favorite editor or pager to search 00FAQ -- e.g., supplying as a search argument some fixed text from an lsof error message.

The lsof-l Mailing List

Information about lsof, including notices about the availability of new revisions, may be found in mailings of the lsof-l listserv. For more information about it, including instructions on how to subscribe, read the 00LSOF-L file of the lsof distribution.

Field Output Example Scripts

Example AWK and Perl 4 or 5 scripts for post-processing lsof field output are locate in the scripts sub-directory of the lsof distribution. The scripts sub-directory contains a 00README file with information about the scripts.

Field Output C Library

The lsof test suite (See "Testing Lsof."), checks basic lsof operations using field output. The test suite has its own library of C functions for common test program operations, including processing of field output. The library or selections of its functions could be adapted for use by C programs that want to process lsof field output. See the library in the file LTlib.c in the tests/ sub-directory

Testing Lsof

Lsof has an automated test suite in the tests/ sub-directory that can be used to test some basic lsof features -- once lsof has been configured and made. Tests are arranged in three groups: basic tests that should run on all dialects; standard tests that should run on all dialects; and optional tests that may not run on all dialects or may need special resources to run. See 00TEST for more information.)

CAUTION!!! Before you attempt to use the test suite make sure that the lsof you want to test can access the necessary kernel resources -- e.g., /dev/mem, /dev/kmem, /proc, etc. Usually you want to test the lsof you just built, so this is an important check. (See 00TEST.)

To run the basic and standard tests, using the lsof in the parent directory of tests/, do this:

```
 $ cd tests
 $ make test
    or $ make std
    or $ make standard
```

The basic and standard tests may be run as silently as possible, using the lsof in the parent directory of tests/, with:

```
$ cd tests
$ make auto
```

This is the "automatic" test mode, designed for use by scripts that build lsof. The caller is expected to test the make exit code to determine if the tests succeeded. The caller should divert standard output and standard error to /dev/null to suppress make's error exit message.

The optional tests may be run, using the lsof in the parent directory of tests/, with:

```
$ cd tests
$ make opt
  or $ make optional
```

It's possible to excute individual tests, too. See the 00TEST file of this distribution for more informaiton on the tests, what they do, and how to run and possibly customize each test.

It's possible to run the tests, using an lsof other than the one in the parent directory of /tests, too. See 00TEST for information about using the LT_LSOF_PATH environment variable to do that.

==========
Dialect Notes
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AFS
===

Lsof recognizes AFS files on the following combinations of UNIX dialect and AFS versions:

AIX 4.1.4 (AFS 3.4a)
Linux 1.2.13 (AFS 3.3)
NEXTSTEP 3.2 (AFS 3.3) (untested on recent lsof revisions)
Solaris 2.6 (AFS 3.4a)
Ultrix 4.2 RISC (AFS 3.2b) (no longer available)

Lsof has not been tested under other combinations -- e.g. HP-UX 10.10 and AFS 3.4a -- and probably won't even compile there. Often when a UNIX dialect version or AFS version changes, the new header files come into conflict, causing compiler objections.

AIX
===

Specify the aix Configure abbreviation for AIX 4.1.[45], 4.2[.1], 4.3[.123], 5L, and 5.[123].

Specify aixgcc on AIX above 4.1 to use the gcc compiler. (Gcc can't be used to compile lsof on AIX 4.1 and below because of kernel structure alignment differences between it and xlc.) Gcc results sometimes depend on the version of the gcc compiler that is used.

Compilation of lsof with gcc on AIX 4.3[.123], 5L, and 5.[123] has been sparsely tested with varying degrees of success: it has been reported to succeed on AIX 4.3.3 and 32 bit Power AIX 5.1; to fail on ia64 AIX 5.1 and 64 bit Power AIX 5.1; and to succeed on 32 and 64 bit Power AIX 5.2. Lsof compilation with gcc hasn't been tested on AIX 5.3.

At revision 4.61 and above lsof is configured and built to match the bit size of the kernel of Power architecture AIX 5.1 systems. Lsof binaries built for 32 and 64 bit kernels are not interchangeable. See 00FAQ for more information.

The Configure script uses /usr/bin/oslevel to determine the AIX version for AIX less than 5 and ``uname -rv'' for AIX 5 and higher. If /usr/bin/oslevel isn't executable on AIX less than 5, the Configure script issues a warning message and uses ``uname -rv'' to determine the AIX version.

When Configure must use ``uname -rv'' on AIX less than 5 to determine the AIX version, the result will lack a correct third component -- e.g., the `4' of ``4.1.4''. If your AIX less than 5 system lacks lacks

an executable oslevel, I suggest you edit the Configure-produced
Makefile and complete the _AIXV definition in the CFGF string.

By default lsof avoids using the kernel's readx() function, causing
it to be unable to report information on some text and library file
references. The ``-X'' option allows the lsof user to ask for the
information readx() supplies.

Lsof avoids readx() to avoid the possibility of triggering a kernel
problem, known as the Stale Segment ID kernel bug. Kevin Ruderman
reported this bug to me. The bug shows up when the kernel's
dir_search() function hangs, hanging the application process that
called it so completely that the application process can neither
be killed nor stopped. The hang is the consequence of another
process (perhaps lsof) making legitimate use of the kernel's readx()
function to access the kernel memory that dir_search() is examining.
IBM has indicated they have no plans to fix the bug.

A fuller discussion of this bug may be found in the 00FAQ file of
the lsof distribution. There you will find a description of the
Stale Segment ID bug, the APAR on it, and a discussion of the
sequence of events that exposes it.

I added the ``-X'' function so you can tell lsof to use readx(),
but if you use ``-X'', you should be alert to its possibly serious
side effects. Although readx() is normally disabled, its state is
controlled with the HASXOPT, HASXOPT_ROOT, and HASXOPT_VALUE
definitions in dialects/aix/machine.h, and you can change its
default state by changing those definitions. You can also change
HASXOPT_ROOT via the Customize script.

You can also compile lsof with readx() use permanently enabled or
disabled -- see the comments about the definitions in the
dialects/aix/machine.h header file. You may want to permanently
disable lsof's use of readx() if you plan to make lsof publicly
executable. You can also restrict -X to processes whose real UID
is root by defining HASXOPT_ROOT.

I have never seen lsof cause the Stale Segment ID bug to occur and
haven't had a report that it has, but I believe there is a possibility
it could.

AFS support for AIX was added with help help from Bob Cook and Jan
Tax who provided test systems.

Henry Grebler and David J. Wilson helped with lsof for AIX 4.2.

Bill Pemberton provided an AIX 4.3 test system. Andrew Kephart
and Tom Weaver provided AIX 4.3 technical assistance. Niklas
Edmundsson did 4.3.1 testing. Doug Crabill provided an AIX 4.3.2
test system. Jeff W. Stewart provided an AIX 4.3.3 test system.

The SMT file type for AIX 4.1.[45], 4.2[.1], and 4.3[.12] is my
fabrication. See the 00FAQ file more information on it.

Loc Le and Nasser Momtaheni of IBM provided test systems for AIX 5L and
5.1. Lsof for AIX 5L and 5.1 needs setuid-root permission to process
the -X option on systems whose architecture type is ia64.

Dale Talcott of Purdue provided AIX 5.1 and 5.2 test systems. Dale and
John Jackson of Purdue provided an AIX 5.3 test system.

Apple Darwin

The Apple Darwin port was provided by Allan Nathanson for version
1.2. Allan also arranged for access to a test system for maintenance
and regression testing. Dale Talcott provided a test system, too.

Allan supplied patches for updates to 1.4, 5.x, 6.x, 7.x and 8.x.

BSDI BSD/OS

As of lsof revision 4.77 support for BSDI BSD/OS has been
discontinued. Lsof revision 4.76 with BSDI BSD/OS support may be found
on lsof.itap.purdue.edu in pub/tools/unix/lsof/src.

DEC OSF/1, Digital UNIX, Tru64 UNIX

Robert Benites, Dean Brock, Angel Li, Dwight McKay, Berkley Shands, Ron Young and Steve Wilson have kindly provided test systems. Jeffrey Mogul has provided technical assistance. Dave Morrison and Lawrence MacIntyre did Digital UNIX V3.2 testing.

Lsof supports the ADVFS/MSFS layered file system product. Lsof can locate all the open files of an ADVFS/MSFS file system when its path is specified, provided the file system is listed in /etc/fstab with an ``advfs'' type. (This /etc/fstab caveat applies only to Digital UNIX 2.0.) At Digital UNIX 4.0 and Tru64 UNIX, using code provided by David Brock, lsof 4.20 and above can locate ADVFS file paths.

Testing of lsof on DEC OSF/1 and Digital UNIX 4.0 ended with lsof revision 4.74. Hence, the lsof documentation has dropped the claim that it works there. For a distribution of lsof 4.74 that was tested on DEC OSF/1 and Digital UNIX 4.0, check pub/tools/unix/lsof/OLD/src on the lsof ftp home, lsof.itap.purdue.edu.

Lsof revisions past 4.74 have only been tested on Tru64 UNIX 5.1.

FreeBSD

Bill Bormann of Purdue University provided access to several FreeBSD test systems. Ade Barkah, John Clear, Ralph Forsythe, Michael Haro, Kurt Jaeger, and William McVey have also provided FreeBSD test systems.

The FreeBSD distribution header files are augmented by header files in the dialects/freebsd/include directory.

David O'Brien maintains the lsof FreeBSD port package.

HP-UX

Lsof has two HP-UX bases: /dev/kmem for HP-UX 11.0 and earlier; and PSTAT for HP-UX 11.11 and later. The lsof Configure script will pick the appropriate base.

To use the CCITT x.25 socket support for HP-UX, you must have the x.25 header files in /etc/conf/x25

Pasi Kaara helped with the HP-UX port, especially with its CCITT x.25 socket support.

Richard Allen provided HP-UX 10.x and 11.x test systems, as did Mark Bixby, and Elias Halldor Agustsson. Marc Winkler helped test the 10.20 port. Richard J. Rauenzahn provided a 64 bit HP-UX 11 test system and an HP-UX 11.11 development system.

AFS support for HP-UX was added thanks to help from Chaskiel Moses Grundman, who provided a test system.

The /dev/kmem-based HP-UX 11.00 support is extremely fragile. It depends on privately developed kernel structure definitions. (See .../dialects/hpux/hpux11 for the header files making the definitions.) Those header files and their definitions will not be updated by HP-UX 11.00 patches, making it likely that any patch changing a kernel structure critical to lsof will break lsof in some way.

It's possible to build a 64 bit lsof for 64 bit HP-UX 11.00 with gcc, but you must have a gcc compiler capable of producing 64 bit executables. See the 00FAQ file for more information.

The PSTAT-based lsof for HP-UX 11.11 and later is much more solid. I am indebted to the vision of HP for providing an lsof kernel API through the PSTAT implementation. Specifically I appreciate the help of HP staff members Carl Davidson, Louis Huemiller, Rich Rauenzahn, and Sailu Yallapragada that made PSTAT-based HP-UX lsof possible.

IPv6

Lsof has IPv6 support that has been tested for these UNIX dialects: AIX 4.3.x; Apple Darwin 5.[12] and 6.0; the INRIA and KAME FreeBSD IPv6 implementations; PSTAT-based HP-UX; /proc-based Linux; the INRIA and

KAME NetBSD implementations; and Solaris 8 and 9. Lsof has IPv6 support that hasn't been tested for: OpenBSD (KAME); OpenUNIX 8; Tru64 Unix 5.[01]; and UnixWare 7.1.[34].

Please let me know if your UNIX dialect has IPv6 support and I'll see if it can be supported by lsof.

Linux

Tim Korb, Steve Logue, Joseph J. Nuspl Jr., and Jonathan Sergent have provided Linux test systems.

Michael Shields helped add and test automatic handling of ELF/COFF form names in /System.map, Marty Leisner and Keith Parks have helped test many lsof revisions. Marty has provided valuable suggestions, Linux hints, and code, too.

The 00FAQ file gives some Linux tips, including information on coping with system map file problems.

To determine the state of the Linux 2.1.x C library lseek() function, the lsof Configure script runs a test program that must have permission to read /dev/kmem. The test determines if the lseek() function properly handles kernel offsets, which appear to be negative because their high order bit is set. If the lseek() test reveals a faulty lseek(), Configure activates the use of a private lseek() function for kernel offset positioning. See the Linux problems section of the 00FAQ file of the lsof distribution for more information.

NetBSD

Greg Earle and Paul Kranenburg have assisted with the NetBSD ports. Paul has provided test systems. Ray Phillips provided a NetBSA Alpha test system. Andrew Brown also provided a test system.

The NetBSD dialect version of lsof is compiled using the dialect sources it shares with OpenBSD in the n+obsd dialect sub-directory.

NEXTSTEP and OPENSTEP

Virtual memory header files that allow lsof to display text references were derived from the contents of /usr/include/vm of NEXTSTEP 2.0. NeXT did not ship the virtual memory header files with other NEXTSTEP or OPENSTEP versions.

You may use the RC_FLAGS environment variable to declare compiler options outside the Makefile. A common use of this variable is to define the architecture types to be included in a "fat" executable. See the comments in dialects/next/Makefile for an example.

OpenBSD

David Mazieres has provided OpenBSD test systems. The OpenBSD dialect version of lsof is compiled using the dialect sources it shares with NetBSD in the n+obsd dialect sub-directory.

Kenneth Stailey has provided OpenBSD testing and advice.

John Dzubera (Zube) reports, "lsof 4.33 compiles and runs on OpenBSD 2.3 for the pmax architecture (decstation 3100)."

I have not tested lsof on OpenBSD 3.8, but David Mazieres reports revision 4.76 worked on OpenBSD 3.8.

Pyramid DC/OSx and Reliant UNIX

As of lsof revision 4.52 support for all Pyramid dialects has been discontinued. Lsof revision 4.51 with Pyramid support may be obtained upon request. Send the request to abe@purdue.edu.

These two UNIX dialects are very similar and share dialect-specific source files from the pyramid sub-directory.

The Reliant Unix Pyramid C compiler issues warning messages that I haven't found a convenient way to suppress. You can ignore warning messages about casts and conversions that lose bits. The message "warning: undefining __STDC__" is intentionally caused by the lsof MkKernOpts configuration script to suppress warning messages about cast and conversion problems in standard system header files, such as <stdio.h> and <string.h>.

Bruce Beare and Kevin Smith provided test systems.

Caldera OpenUNIX

Larry Rosenman provided an OpenUNIX 8 test system. Matthew Thurmaier provided technical assistance, along with these people from Caldera: Jack Craig, Robert Lipe, and Bela Lubkin.

Robert Lipe supplied changes to lsof for OpenUNIX 8.0.1. Those changes were also incorporated in UnixWare 7.1.3 when it became the release name for OpenUNIX 8.0.1.

Support for lsof on OpenUNIX ended at lsof revision 4.74. The last lsof revision, 4.74, tested on OpenUNIX, may be found at the lsof "home" ftp site, lsof.itap.purdue.edu, in pub/tools/unix/lsof/OLD/src.

SCO OpenServer

Dion Johnson, Bela Lubkin, and Nathan Peterson of SCO gave me copies of SCO OpenServer and the SCO OpenServer Development System 3.0 and provided technical advice for the lsof port.

Hugh Dickins, Bela Lubkin, Craig B. Olofson, and Nathan Peterson provided version 5.0 and gave technical advice for porting lsof to it. Bela provided the 5.0.4 changes. D. Chris Daniels provided a 5.0.4 test system, Lee Penn provided one for 5.0.5, and John Dubois for 5.0.6.

The <netdb.h> header file was accidentally omitted from some SCO OpenServer Development System releases. The Configure script will sense its absence and substitute an equivalent from the BSD distribution. The BSD <netdb.h> and the <sys/cdefs.h> header file it includes are located in the dialects/os/include sub-directory tree.

To compile lsof from its distribution sources you must have the TCP/IP and NSF headers in /usr/include. While those are optional OpenServer packages, I have access to no system that doesn't have them, so I'm unable to build lsof for such a configuration. However, it should be possible to modify the lsof Configure script and sources so lsof would compile and work without those optional packages.

If you have an OpenServer system configured without the TCP/IP and NFS packages, and want to tackle the job of building lsof for it, contact me via e-mail at <abe@purdue.edu>. I'll identify the Configure script, header file, and source file changes you will need to make. (Caution: this is not a simple task, or I would have already done it.)

The optional osrgcc and scogcc Configure abbreviations construct Makefiles for compiling lsof with gcc.

The UnixWare 7.1.4 sources are used for OpenServer Release 6.0.0. Hence there is a separate Configure abbreviation for it, "osr6". Richard of SCO provided a test system and technical assistance.

SCO|Caldera UnixWare

D. Chris Daniels, John Hughes, Ken Laing, Andrew Merril, Lee Penn, and Matthew Thurmaier provided test systems. Bela Lubkin provided technical assistance. Larry Rosenman provided 7.1.[34] test systems.

Solaris 2.x, 7, 8, 9 and 10

SEE THE CAUTIONS SECTION OF THIS DOCUMENT.

The latest Solaris revision of lsof 4 might work under Solaris 2.[1-4] and 2.5[.1] and 7 but hasn't been tested there. I have no test systems for those Solaris versions.

Lsof will compile with gcc and the Sun C compiler under Solaris. If you want to use the Sun compiler, use the solariscc Configure abbreviation. If you use a gcc version less than 2.8 on Solaris, make sure the gcc-specific includes have been updated for your version of Solaris -- i.e., run the gcc fixincludes script.

Solaris 7, 8, 9 and 10 support for 64 bit kernels depends on a Sun WorkShop or Forte C compiler version that supports the "-xarch=v9" flag -- usually 5.0 or greater. Gcc versions 2.95 and above *may* be configured and built for 64 bit support, but it takes some extra work, the resulting compiler may be fragile, and the gcc developers discourage it. I've built 64 bit capable gcc compilers for Solaris 7, 8 and 9 from gcc versions 2.95 through 3.0.1 and produced working lsof executables with them. More information on 64 bit gcc for Solaris may be found in the 00FAQ file.

Solaris 10 ZFS support is questionable, because Sun does not distribute the ZFS kernel structure definition header files. The lsof Configure script and source code use some risky work-arounds. ZFS file system support was made possible with help from Horst Scheuermann.

Dave Curry and Steve Kirsch provided resources for Solaris 2.x ports. Casper Dik and Gerry Singleton consulted and provided valuable assistance.

Henry Katz, Joseph Kowalski, Charles Stephens, Mike Sullivan, and Mike Tracy provided technical assistance.

AFS support was added to Solaris lsof with help from Curt Freeland, Heidi Hornstein, Michael L. Lewis, Terry McCoy, Phillip Moore, and Sushila R. Subramanian.

Casper Dik provided valuable assistance for the Solaris 8 support.

Sun has graciously provided me access to BETA versions of Solaris 2.5, 2.6, 7, 8, and 9.

John Dzubera provided Solaris 7 and 8 test systems.

Mike Miscevic provided Solaris 10 test systems.

Ultrix

As of lsof revision 4.52 support for Ultrix is no longer available, because I no longer have an Ultrix test system.

Terry Friedrichsen, Dwight McKay, and Jeffrey Mogul helped me with this port.

DECnet support was added to Ultrix lsof with the help of John Beacom, who kindly provided a test system. The Configure script decides that DECnet support is available if /usr/lib/libdnet.a and /usr/include/netdnet/dn.h exist and are readable.

Veritas VxFS and VxVM

Lsof supports some versions of Veritas VxFS and VxVM on some UNIX dialects. Consult the lsof Configure script for the specific dialect, and consult the lsof dialect-specific source files for the UNIX dialect of interest. Veritas support will usually be found in a source file named dnode[1-9].c.

Since Veritas rarely has a version number that can be extracted with shell commands, lsof doesn't use it. Instead, when lsof supports Veritas, the Configure script will form compile-time definitions starting with HASVXFS. Check the lsof 00PORTING documentation file for more information.

Lsof Veritas support requires that the supporting Veritas header files be installed -- e.g., in /usr/include/sys/fs. (The location will depend in the dialect's header file conventions.)

Some information on lsof support for Veritas extensions may be found in the lsof 00DIST file. (The ChangeLog file points to

00DIST.)

Chris Kordish and Andy Thomas have provided Solaris VxFS test systems.

==========
User-contributed Dialect Support
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There are some user-contributed dialect versions of lsof; more information on them can be found at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/contrib

Check the 00INDEX file there for details.

==========
Dialects No Longer Supported
==========

Because I don't have access to test systems, these UNIX dialects are no longer supported by lsof:

CDC EP/IX
/dev/kmem-based Linux
MIPS RISC/os
Motorola V/88
Pyramid DC/OSx
Pyramid Reliant UNIX
Sequent DYNIX
SGI IRIX
SunOS 4.x
Ultrix
UnixWare below 7.0

Remnants of the support lsof once provided for these dialects may be found in:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD/dialects

==========
Installing Lsof
==========

The distributed Makefiles do not have actions that will install lsof. I've come to the conclusion there is no standard for installing lsof or its man page, so I no longer distribute make rules for installing them. You should adjust the Makefile for your local preferences.

The Makefile does have an install rule that will cause lsof to compile by virtue of its dependency clause. Some Makefiles also have a dependency that causes the production of a man page that is ready to install. However, the actions of the install rule will not cause the lsof executable or its man page to be installed in any UNIX system-wide directory.

Instead, after the compilation and optional man page production are completed, the install rule will produce a brief description of what actions you might add to the install rule. The description will suggest the possible modes, ownerships, permissions, and destinations your install rule might employ to install the lsof executable and man page.

As you form your install rule, keep in mind that lsof usually needs some type of special permission to do its job. That may be permission to read memory devices such as /dev/kmem, /dev/mem, or /dev/swap, or it may be authorization to read entries in the /proc file system.

Memory device access can usually be provided by setting the modes of the lsof executable so that it's effective group identifier when it runs is the same as the group that has permission to read the memory devices -- i.e., it is setgid-group. The privileged group is usually kmem, sys, or system.

Don't overlook using ACLs -- e.g., on AIX or Solaris 8 -- to give lsof permission to access memory devices. ACLs, coupled to a separate group like kmem, can be safer than giving lsof setgid authorization to a commonly used system group.

When lsof needs to read /proc file system entries, it must be installed with modes that make its effective user identifier root when it runs -- i.e., it must be setuid-root. If lsof must be installed setuid-root (only the AIX 5L, PSTAT-based HPUX, and /proc-based Linux, ports need such power.), then access to memory devices is automatic (or not needed in the case of /proc-based Linux).

Your choice of permissions for lsof may also be affected by your desire to allow anyone to use it or your need to restrict its usage to specific individuals. You will have to be guided by local policy and convention in this case.

The next two sections, Setgid Lsof Dialect Versions and Setuid-root Lsof Dialect Versions, list recommended install permissions.

The system directory where you install the lsof executable is also open to choice. A traditional place for a tool like lsof is /usr/local/etc, but recent changes in directory structure organization suggest that somewhere in /opt may be more suitable.

Bear one other factor in mind when choosing a location for the lsof executable -- it usually is a shared executable, requiring access to shared libraries. Thus, locations like /sbin or /usr/sbin are probably unsuitable.

Once you've chosen a location for the executable you may find that the location for the man page follows -- e.g., if the executable goes in /usr/local/etc, then the man page goes in /usr/local/man. If the executable location doesn't imply a location for the man page, you'll have to let local custom guide you.

Setuid-root Lsof Dialect Versions

These dialect versions should be installed with setuid-root permission -- i.e., the lsof binary should be owned by root and its setuid execution bit (04000) should be set.

AIX 5L and above for full use of the -X option
Apple Darwin 8.x for Power Macintosh systems
PSTAT-based HP-UX 11.11 and 11.23
/proc-based Linux (generally 2.1.72 and above)

Setgid Lsof Dialect Versions

These dialect versions should be installed with setgid permission, owned by the group that can read kernel memory devices such as /dev/drum, /dev/kmem, /dev/ksyms, /dev/mem, /dev/swap. ACLs may be another mechanism (e.g., under AIX or Solaris 8) you can use to grant read permission to the kernel memory devices.

AIX 4.1.[45], 4.2[.1], and 4.3[.123]
Apple Darwin 7.x for Power Macintosh systems
DEC OSF/1, Digital UNIX, Tru64 UNIX 2.0, 3.2, 4.0, and 5.[01]
FreeBSD 2.1.6, 2.2[.x], 3.x, 4.x, 5.x and [67].x
/dev/kmem-based 11.00
NetBSD 1.[456], 2.x and 3.x
NEXTSTEP 3.[13]
OpenBSD 2.[89] and 3.[0-9]
OPENSTEP 4.x
Caldera OpenUNIX 8
SCO OpenServer 5.0.[46]
SCO UnixWare 7.0 and 7.1.[0134]
Solaris 2.6, 8, 9 and 10
Ultrix 4.2 (no longer available)

Porting lsof 4 to a New UNIX Dialect

If you're brave enough to consider this, look at the 00PORTING file. Please contact me before you start. I might be able to help you or even do the port myself.

Don't overlook the contrib/ directory in pub/tools/unix/lsof on my ftp server, lsof.itap.purdue.edu. It contains user-contributed ports of lsof to dialects I don't distribute, because I can't test new revisions of lsof on them.

==========
Quick Start to Using lsof
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For information on how to get started quickly using lsof, consult the 00QUICKSTART file of the lsof distribution. It cuts past the formal density of the lsof man page to provide quick examples of using lsof to solve common open file display problems.

==========
Cross-configuring Lsof
==========

Using environment variables it is possible to Configure (and possibly build) lsof for one UNIX dialect on a different one -- e.g., you are running Configure on a Linux 2.3 system and you want to Configure and build lsof for Linux 2.4.

See the 00XCONFIG file of the lsof distribution for a discussion of how to do this.

==========
Environment Variables Affecting the Configure Script
==========

Configure script actions can be modified by introducing values to the script via environment variables. In many cases the environment variable values take the place of test operations the Configure script makes.

For more information on environment variables that can affect Configure, consult the 00XCONFIG file of the lsof distribution. See the General Environment Variables sections for descriptions of ones that affect all dialects. Consult the Dialect-Specific Environment Variables section for ones that might affect the dialect you are trying to configure.

Vic Abell <abe@purdue.edu>
January 2, 2013

File name: generic_BSD

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lttng-ust

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Package revision: r0
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File name: generic_LGPLv2.1

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Version 2.1, February 1999

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lvm2

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Package revision: r0

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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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lz4

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Package revision: r0

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lzo

Package version: 2.09
Package revision: r0
Package license(s): GPLv2+

File name: generic_GPLv2

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```
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memtester

Package version: 4.3.0
Package revision: r0
Package license(s): GPLv2

File name: generic_GPLv2

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mobile-broadband-provider-info

Package version: 20151214

Package revision: r0

Package license(s): PD

File name: generic_PD

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mtd-utils

Package version: 1.5.2
Package revision: r0
Package license(s): GPLv2+

File name: generic_GPLv2

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nbench-byte

Package version: 2.2.3

Package revision: r0

Package license(s): nbench-byte

File name: generic_nbench-byte

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File name: README

February 18, 2003

Bug-fix release.

December 9, 1997

This release is based on beta release 2 of BYTE Magazine's BYTEmark benchmark program (previously known as BYTE's Native Mode Benchmarks). This document covers the Native Mode (a.k.a. Algorithm Level) tests; benchmarks designed to expose the capabilities of a system's CPU, FPU, and memory system.

Running a "make" will create the binary if all goes well. It is called "nbench" and performs a suite of 10 tests and compares the results to a Dell Pentium 90 with 16 MB RAM and 256 KB L2 cache running MSDOS and compiling with the Watcom 10.0 C/C++ compiler. If you define -DLINUX during compilation (the default) then you also get a comparison to an AMD K6/233 with 32 MB RAM and 512 KB L2-cache running Linux 2.0.32 and using a binary which was compiled with GNU gcc version 2.7.2.3 and GNU libc-5.4.38.

For more verbose output specify -v as an argument.

The primary web site is: http://www.tux.org/~mayer/linux/bmark.html

The port to Linux/Unix was done by Uwe F. Mayer <mayer@tux.org>.

The index-split was done by Andrew D. Balsa, and reflects the realization that memory management is important in CPU design. The original tests have been left alone, however, the tests NUMERIC SORT, FP EMULATION, IDEA, and HUFFMAN now constitute the integer-arithmetic focused benchmark index, while the tests STRING SORT, BITFIELD, and ASSIGNMENT make up the new memory index.

The algorithms were not changed from the source which was obtained from the BYTE web site at http://www.byte.com/bmark/bmark.htm on December 14, 1996. However, the source was modified to better work with 64-bit machines (in particular the random number generator was modified to always work with 32 bit, no matter what kind of hardware you run it on). Furthermore, for some of the algorithms additional resettings of the data was added to increase the consistency across different hardware. Some extra debugging code was added, which has no impact on normal runs.

In case there is uneven system load due to other processes while this benchmark suite executes, it might take longer to run than on an unloaded system. This is because the benchmark does some statistical analysis to make sure that the reported results are statistically significant, and an increased variation in individual runs requires more runs to achieve the required statistical confidence.

This is a single-threaded benchmark and is not designed to measure the performance gain on multi-processor machines.

For details and customization read bdoc.txt.

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ncurses

Package version: 6.0+20160625

Package revision: r0

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netbase

Package version: 5.3
Package revision: r0
Package license(s): GPLv2

File name: copyright

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Wed, 24 Aug 1994 21:33:28 +0200 and maintained by Anthony Towns
<ajt@debian.org> until 2001.
It is currently maintained by Marco d'Itri <md@linux.it>.

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nettle

Package version: 3.2

Package revision: r0

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File name: COPYING.LESSERv3

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nfs-utils

Package version: 1.3.3
Package revision: r0
Package license(s): MIT & GPLv2+ & BSD

File name: generic_GPLv2

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Version 2, June 1991

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```

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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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nspr

Package version: 4.12

Package revision: r0

Package license(s): GPL-2.0 | MPL-2.0 | LGPL-2.1

File name: Makefile.in

```
#! gmake

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MOD_DEPTH = .
topsrcdir = @top_srcdir@
srcdir  = @srcdir@
VPATH  = @srcdir@

include $(MOD_DEPTH)/config/autoconf.mk

DIRS = config pr lib

ifdef MOZILLA_CLIENT
# Make nsinstall use absolute symlinks by default for Mozilla OSX builds
# http://bugzilla.mozilla.org/show_bug.cgi?id=193164
ifeq ($(OS_ARCH),Darwin)
ifndef NSDISTMODE
NSDISTMODE=absolute_symlink
export NSDISTMODE
endif
endif
endif

DIST_GARBAGE = config.cache config.log config.status

all:: config.status export

include $(topsrcdir)/config/rules.mk

config.status:: configure
ifeq ($(OS_ARCH),WINNT)
 sh $(srcdir)/configure --no-create --no-recursion
else
 ./config.status --recheck && ./config.status
endif

#
# The -ll option of zip converts CR LF to LF.
#
ifeq ($(OS_ARCH),WINNT)
ZIP_ASCII_OPT = -ll
endif

# Delete config/autoconf.mk last because it is included by every makefile.
distclean::
 @echo "cd pr/tests; $(MAKE) $@"
 @$(MAKE) -C pr/tests $@
 rm -f config/autoconf.mk
 rm -f `cat unallmakefiles` unallmakefiles

release::
 echo $(BUILD_NUMBER) > $(RELEASE_DIR)/$(BUILD_NUMBER)/version.df
 @if test -f imports.df; then \
     echo "cp -f imports.df $(RELEASE_DIR)/$(BUILD_NUMBER)/imports.df"; \
     cp -f imports.df $(RELEASE_DIR)/$(BUILD_NUMBER)/imports.df; \
 else \
     echo "echo > $(RELEASE_DIR)/$(BUILD_NUMBER)/imports.df"; \
     echo > $(RELEASE_DIR)/$(BUILD_NUMBER)/imports.df; \
 fi
 cd $(RELEASE_DIR)/$(BUILD_NUMBER)/$(OBJDIR_NAME); \
 rm -rf META-INF; mkdir META-INF; cd META-INF; \
 echo "Manifest-Version: 1.0" > MANIFEST.MF; \
 echo "" >> MANIFEST.MF; \
 cd ..; rm -f mdbinary.jar; zip -r mdbinary.jar META-INF bin lib; \
 rm -rf META-INF; \
 cd include; \
 rm -rf META-INF; mkdir META-INF; cd META-INF; \
```

```
 echo "Manifest-Version: 1.0" > MANIFEST.MF; \
 echo "" >> MANIFEST.MF; \
 cd ..; rm -f mdheader.jar; zip $(ZIP_ASCII_OPT) -r mdheader.jar *; \
 rm -rf META-INF
ifeq ($(OS_ARCH),WINNT)
 @if test ! -d $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER); then \
  rm -rf $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER); \
  echo "making directory $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)"; \
  mkdir -p $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER); \
 fi
 @if test ! -d $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/$(RELEASE_OBJDIR_NAME); then \
  rm -rf $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/$(RELEASE_OBJDIR_NAME); \
  echo "making directory $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/$(RELEASE_OBJDIR_NAME)"; \
  mkdir -p $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/$(RELEASE_OBJDIR_NAME); \
 fi
else
 @if test ! -d $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER); then \
  rm -rf $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER); \
  echo "making directory $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)"; \
  $(NSINSTALL) -D $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER); \
  chmod 775 $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER); \
 fi
 @if test ! -d $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/$(RELEASE_OBJDIR_NAME); then \
  rm -rf $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/$(RELEASE_OBJDIR_NAME); \
  echo "making directory $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/$(RELEASE_OBJDIR_NAME)"; \
  $(NSINSTALL) -D $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/$(RELEASE_OBJDIR_NAME); \
  chmod 775 $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/$(RELEASE_OBJDIR_NAME); \
 fi
endif
 cd $(RELEASE_DIR)/$(BUILD_NUMBER); \
 cp -f version.df imports.df $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER); \
 chmod 664 $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/version.df; \
 chmod 664 $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/imports.df; \
 cd $(OBJDIR_NAME); \
 cp -f mdbinary.jar $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/$(RELEASE_OBJDIR_NAME); \
 chmod 664 $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/$(RELEASE_OBJDIR_NAME)/mdbinary.jar; \
 cd include; \
 cp -f mdheader.jar $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/$(RELEASE_OBJDIR_NAME); \
 chmod 664 $(MDIST)/$(MOD_NAME)/$(BUILD_NUMBER)/$(RELEASE_OBJDIR_NAME)/mdheader.jar

package:
 @echo "cd pkg; $(MAKE) publish"
 $(MAKE) -C pkg publish

depend:
 @echo "NSPR20 has no dependencies.  Skipped."
```

File name: generic_MPL-2.0

```
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```
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AC_PREREQ(2.61)
AC_INIT
AC_CONFIG_SRCDIR([pr/include/nspr.h])

AC_CONFIG_AUX_DIR(build/autoconf)
AC_CANONICAL_TARGET

dnl ========================================================
dnl = Defaults
dnl ========================================================
MOD_MAJOR_VERSION=4
MOD_MINOR_VERSION=12
MOD_PATCH_VERSION=0
NSPR_MODNAME=nspr20
_HAVE_PTHREADS=
USE_PTHREADS=
USE_USER_PTHREADS=
USE_NSPR_THREADS=
USE_N32=
USE_X32=
USE_64=
USE_CPLUS=
USE_IPV6=
USE_MDUPDATE=
_MACOSX_DEPLOYMENT_TARGET=
_OPTIMIZE_FLAGS=-O
_DEBUG_FLAGS=-g
MOZ_DEBUG=1
MOZ_OPTIMIZE=
OBJDIR='$(OBJDIR_NAME)'
OBJDIR_NAME=.
OBJDIR_SUFFIX=OBJ
NSINSTALL='$(MOD_DEPTH)/config/$(OBJDIR_NAME)/nsinstall'
NOSUCHFILE=/no-such-file
LIBNSPR='-L$(dist_libdir) -lnspr$(MOD_MAJOR_VERSION)'
LIBPLC='-L$(dist_libdir) -lplc$(MOD_MAJOR_VERSION)'
CYGWIN_WRAPPER=
MACOS_SDK_DIR=
NEXT_ROOT=
MT=
MOZ_OS2_HIGH_MEMORY=1
PROFILE_GEN_CFLAGS=
PROFILE_GEN_LDFLAGS=
PROFILE_USE_CFLAGS=
PROFILE_USE_LDFLAGS=

dnl Link in libraries necessary to resolve all symbols for shared libs
RESOLVE_LINK_SYMBOLS=

dnl ========================================================
dnl =
dnl = Dont change the following lines.  Doing so breaks:
dnl =
dnl = CFLAGS="-foo" ./configure
dnl =
dnl ========================================================
CFLAGS="${CFLAGS=}"
CXXFLAGS="${CXXFLAGS=}"
LDFLAGS="${LDFLAGS=}"
DLLFLAGS="${DLLFLAGS=}"
HOST_CFLAGS="${HOST_CFLAGS=}"
HOST_LDFLAGS="${HOST_LDFLAGS=}"

case "$target" in
*-cygwin*|*-mingw*|*-msys*)
    # Check to see if we are really running in a msvc environemnt
    _WIN32_MSVC=
```

```
    AC_CHECK_PROGS(CC, cl)
    cat > conftest.c <<EOF
#ifdef _MSC_VER
COMPILER IS MSVC
#endif
EOF
    read dummy <<EOF
$($CC -E conftest.c 2>/dev/null | grep COMPILER)
EOF
    if test -n "$dummy"; then
        _WIN32_MSVC=1
        CXX=$CC
    fi
    rm -f conftest.c
    ;;
*-mks*)
    _WIN32_MSVC=1
    ;;
esac

if test -n "$_WIN32_MSVC"; then
    SKIP_PATH_CHECKS=1
    SKIP_COMPILER_CHECKS=1
    SKIP_LIBRARY_CHECKS=1
fi

dnl ====================================================
dnl = Android uses a very custom (hacky) toolchain; we need to do this
dnl = here, so that the compiler checks can succeed
dnl ====================================================

AC_ARG_WITH(android-ndk,
[  --with-android-ndk=DIR
                          location where the Android NDK can be found],
    android_ndk=$withval)

AC_ARG_WITH(android-toolchain,
[  --with-android-toolchain=DIR
                          location of the Android toolchain],
    android_toolchain=$withval)

dnl The default android_version is different for each target cpu.
case "$target_cpu" in
arm)
    android_version=5
    ;;
i?86|mipsel)
    android_version=9
    ;;
esac

AC_ARG_WITH(android-version,
[  --with-android-version=VER
                          Android platform version, default 5 for arm, 9 for x86/mips],
    android_version=$withval)

AC_ARG_WITH(android-platform,
[  --with-android-platform=DIR
                          location of platform dir],
    android_platform=$withval)

case "$target" in
arm-linux*-android*|*-linuxandroid*)
    android_tool_prefix="arm-linux-androideabi"
    ;;
i?86-*android*)
    android_tool_prefix="i686-linux-android"
    ;;
mipsel-*android*)
    android_tool_prefix="mipsel-linux-android"
    ;;
*)
    android_tool_prefix="$target_os"
    ;;
esac

dnl ====================================================
dnl = Gonk is a fork of Android used for Mozilla's B2G project.
dnl = Configuration is done largely by the top level config
dnl = and the specified gonk directory doesn't matter here.
dnl ====================================================

AC_ARG_WITH(gonk,
```

```
[  --with-gonk=DIR         location of gonk dir],
    gonkdir=$withval)

if test -n "$gonkdir" ; then
    dnl Most things are directly configured by env vars when building for gonk

    AC_DEFINE(ANDROID)
else
case "$target" in
*-android*|*-linuxandroid*)
    if test -z "$android_ndk" ; then
       AC_MSG_ERROR([You must specify --with-android-ndk=/path/to/ndk when targeting Android.])
    fi

    if test -z "$android_toolchain" ; then
        AC_MSG_CHECKING([for android toolchain directory])

        kernel_name=`uname -s | tr "[[:upper:]]" "[[:lower:]]"`

        case "$target_cpu" in
        arm)
            target_name=arm-linux-androideabi-4.4.3
            ;;
        i?86)
            target_name=x86-4.4.3
            ;;
        mipsel)
            target_name=mipsel-linux-android-4.4.3
            ;;
        esac
        android_toolchain="$android_ndk"/toolchains/$target_name/prebuilt/$kernel_name-x86

        if test -d "$android_toolchain" ; then
            AC_MSG_RESULT([$android_toolchain])
        else
            AC_MSG_ERROR([not found. You have to specify --with-android-toolchain=/path/to/ndk/toolchain.])
        fi
    fi

    if test -z "$android_platform" ; then
        AC_MSG_CHECKING([for android platform directory])

        case "$target_cpu" in
        arm)
            target_name=arm
            ;;
        i?86)
            target_name=x86
            ;;
        mipsel)
            target_name=mips
            ;;
        esac

        android_platform="$android_ndk"/platforms/android-"$android_version"/arch-"$target_name"

        if test -d "$android_platform" ; then
            AC_MSG_RESULT([$android_platform])
        else
            AC_MSG_ERROR([not found. You have to specify --with-android-platform=/path/to/ndk/platform.])
        fi
    fi

    dnl Old NDK support. If minimum requirement is changed to NDK r8b,
    dnl please remove this.
    case "$target_cpu" in
    i?86)
        if ! test -e "$android_toolchain"/bin/"$android_tool_prefix"-gcc; then
            dnl Old NDK toolchain name
            android_tool_prefix="i686-android-linux"
        fi
        ;;
    esac

    dnl set up compilers
    AS="$android_toolchain"/bin/"$android_tool_prefix"-as
    CC="$android_toolchain"/bin/"$android_tool_prefix"-gcc
    CXX="$android_toolchain"/bin/"$android_tool_prefix"-g++
    CPP="$android_toolchain"/bin/"$android_tool_prefix"-cpp
    LD="$android_toolchain"/bin/"$android_tool_prefix"-ld
    AR="$android_toolchain"/bin/"$android_tool_prefix"-ar
    RANLIB="$android_toolchain"/bin/"$android_tool_prefix"-ranlib
    STRIP="$android_toolchain"/bin/"$android_tool_prefix"-strip
```

```
    CPPFLAGS="-I$android_platform/usr/include $CPPFLAGS"
    CFLAGS="-mandroid -I$android_platform/usr/include -fno-short-enums -fno-exceptions $CFLAGS"
    CXXFLAGS="-mandroid -I$android_platform/usr/include -fpic -fno-short-enums -fno-exceptions $CXXFLAGS"
    LDFLAGS="-mandroid -L$android_platform/usr/lib -Wl,-rpath-link=$android_platform/usr/lib --sysroot=$android_platform $LDFLAGS"

    AC_DEFINE(ANDROID)
    ;;
esac
fi

dnl ========================================================
dnl =
dnl = Check options that may affect the compiler
dnl =
dnl ========================================================
dist_prefix='${MOD_DEPTH}/dist'
dist_bindir='${dist_prefix}/bin'
dist_includedir='${dist_prefix}/include/nspr'
dist_libdir='${dist_prefix}/lib'
dnl If the --includedir option was not specified, add '/nspr' to autoconf's
dnl default value of includedir.
if test "${includedir}" = '${prefix}/include'; then
    includedir='${prefix}/include/nspr'
fi

AC_ARG_WITH(dist-prefix,
    [  --with-dist-prefix=DIST_PREFIX
                          place build files in DIST_PREFIX [dist]],
    dist_prefix=$withval)

AC_ARG_WITH(dist-bindir,
    [  --with-dist-bindir=DIR  build execuatables in DIR [DIST_PREFIX/bin]],
    dist_bindir=$withval)

AC_ARG_WITH(dist-includedir,
    [  --with-dist-includedir=DIR
                          build include files in DIR [DIST_PREFIX/include/nspr]],
    dist_includedir=$withval)

AC_ARG_WITH(dist-libdir,
    [  --with-dist-libdir=DIR  build library files in DIR [DIST_PREFIX/lib]],
    dist_libdir=$withval)

AC_SUBST(dist_prefix)
AC_SUBST(dist_bindir)
AC_SUBST(dist_includedir)
AC_SUBST(dist_libdir)

dnl Check if NSPR is being compiled for Mozilla
dnl Let --with-arg override environment setting
dnl
AC_ARG_WITH(mozilla,
    [  --with-mozilla          Compile NSPR with Mozilla support],
    [   if test "$withval" = "yes"; then
            AC_DEFINE(MOZILLA_CLIENT)
            MOZILLA_CLIENT=1
     else
        MOZILLA_CLIENT=
     fi],
    [ if test -n "$MOZILLA_CLIENT"; then
        AC_DEFINE(MOZILLA_CLIENT)
     fi])

AC_ARG_ENABLE(optimize,
    [  --enable-optimize[=OPT] Enable code optimizations (ie. -O2) ],
    [ if test "$enableval" != "no"; then
          MOZ_OPTIMIZE=1
          if test -n "$enableval" -a "$enableval" != "yes"; then
            _OPTIMIZE_FLAGS=`echo $enableval | sed -e 's|\\\ | |g`
            _SAVE_OPTIMIZE_FLAGS=$_OPTIMIZE_FLAGS
          fi
      else
          MOZ_OPTIMIZE=
      fi ])

AC_ARG_ENABLE(debug,
    [  --enable-debug[=DBG]    Enable debugging (using compiler flags DBG)],
    [ if test "$enableval" != "no"; then
          MOZ_DEBUG=1
          MOZ_DEBUG_SYMBOLS=1
          if test -n "$enableval" -a "$enableval" != "yes"; then
              _DEBUG_FLAGS=`echo $enableval | sed -e 's|\\\ | |g`
```

```
            _SAVE_DEBUG_FLAGS=$_DEBUG_FLAGS
        fi
    else
        MOZ_DEBUG=
    fi ],
    MOZ_DEBUG_SYMBOLS=1)

AC_ARG_ENABLE(debug-symbols,
   [  --enable-debug-symbols[=DBG]    Enable debugging symbols
                                (using compiler flags DBG)],
   [ if test "$enableval" != "no"; then
        MOZ_DEBUG_SYMBOLS=1
        if test -n "$enableval" -a "$enableval" != "yes"; then
            if test -z "$_SAVE_DEBUG_FLAGS"; then
                _DEBUG_FLAGS=`echo $enableval | sed -e 's|\\\ | |g`
                _SAVE_DEBUG_FLAGS=$_DEBUG_FLAGS
            else
                AC_MSG_ERROR([--enable-debug-symbols flags cannot be used with --enable-debug flags])
            fi
        fi
    else
        MOZ_DEBUG_SYMBOLS=
    fi ])

AC_ARG_ENABLE(win32-target,
   [  --enable-win32-target=\$t
                        Specify win32 flavor. (WIN95 or WINNT)],
   OS_TARGET=`echo $enableval | tr a-z A-Z`)

AC_ARG_ENABLE(symbian-target,
   [  --enable-symbian-target=\$t
                        Specify symbian flavor. (WINSCW or GCCE)],
   OS_TARGET=`echo $enableval | tr a-z A-Z`)

AC_ARG_ENABLE(debug-rtl,
   [  --enable-debug-rtl      Use the MSVC debug runtime library],
   [ if test "$enableval" = "yes"; then
    USE_DEBUG_RTL=1
     else
    USE_DEBUG_RTL=0
     fi ])

AC_ARG_ENABLE(static-rtl,
   [  --enable-static-rtl     Use the MSVC static runtime library],
   [ if test "$enableval" = "yes"; then
    USE_STATIC_RTL=1
     fi ])

AC_ARG_ENABLE(n32,
   [  --enable-n32            Enable n32 ABI support (IRIX only)],
   [ if test "$enableval" = "yes"; then
 USE_N32=1
     else if test "$enableval" = "no"; then
 USE_N32=
     fi
   fi ])

AC_ARG_ENABLE(x32,
   [  --enable-x32            Enable x32 ABI support (x86_64 only)],
   [ if test "$enableval" = "yes"; then
       USE_X32=1
     else if test "$enableval" = "no"; then
       USE_X32=
     fi
   fi ])

AC_ARG_ENABLE(64bit,
   [  --enable-64bit          Enable 64-bit support (on certain platforms)],
   [ if test "$enableval" = "yes"; then
    USE_64=1
     fi ])

AC_ARG_ENABLE(mdupdate,
   [  --enable-mdupdate       Enable use of certain compilers' mdupdate feature],
   [ if test "$enableval" = "yes"; then
    USE_MDUPDATE=1
     fi ])

AC_ARG_ENABLE(cplus,
   [  --enable-cplus          Enable some c++ api routines],
   [ if test "$enableval" = "yes"; then
    USE_CPLUS=1
     fi])
```

```
AC_ARG_WITH(arm-kuser,
   [  --with-arm-kuser        Use kuser helpers (Linux/ARM only)
                      (Requires kernel 2.6.13 or later)],
   [ if test "$withval" = "yes"; then
    AC_DEFINE(_PR_ARM_KUSER)
     fi ])

dnl ===========================================================
dnl = Mac OS X SDK support
dnl ===========================================================
AC_ARG_WITH(macos-sdk,
   [  --with-macos-sdk=dir    Location of platform SDK to use (Mac OS X only)],
   MACOS_SDK_DIR=$withval)

AC_ARG_ENABLE(macos-target,
          [  --enable-macos-target=VER
                      Set the minimum MacOS version needed at runtime
                      [10.2 for ppc, 10.4 for x86]],
          [_MACOSX_DEPLOYMENT_TARGET=$enableval])

dnl ===========================================================
dnl =
dnl = Set the threading model
dnl =
dnl ===========================================================
case "$target" in

*-aix*)
   case "${target_os}" in
   aix3.2*)
      USE_NSPR_THREADS=1
      ;;
   *)
      USE_PTHREADS=1
      ;;
   esac
   ;;

esac

dnl ===========================================================
dnl =
dnl = Set the default C compiler
dnl =
dnl ===========================================================
if test -z "$CC"; then
   case "$target" in

   *-aix*)
      if test -z "$USE_NSPR_THREADS"; then
         CC=xlc_r
      else
         CC=xlc
      fi
   ;;

   *-hpux*)
      CC=cc
   ;;

   *-irix*)
      CC=cc
   ;;

   *-osf*)
      CC=cc
   ;;

   *-solaris*)
      CC=cc
   ;;

   esac
fi

dnl ===========================================================
dnl =
dnl = Set the default C++ compiler
dnl =
dnl ===========================================================
if test -z "$CXX"; then
   case "$target" in
```

```
    *-aix*)
        if test -z "$USE_NSPR_THREADS"; then
            CXX=xlC_r
        else
            CXX=xlC
        fi
    ;;

    *-hpux*)
        case "${target_os}" in
        hpux10.30)
            CXX=aCC
            ;;
        hpux11.*)
            CXX=aCC
            ;;
        *)
            CXX=CC
            ;;
        esac
    ;;

    *-irix*)
        CXX=CC
    ;;

    *-osf*)
        CXX=cxx
    ;;

    *-solaris*)
        CXX=CC
    ;;

    esac
fi

if test -z "$SKIP_PATH_CHECKS"; then
    AC_PATH_PROG(WHOAMI, $WHOAMI whoami, echo not_whoami)
fi

if test -n "$MOZ_DEBUG"; then
    AC_DEFINE(DEBUG)
    DEFINES="$DEFINES -UNDEBUG"

    case "${target_os}" in
    beos*)
        DEFINES="$DEFINES -DDEBUG_${USER}"
        ;;
    mks*|cygwin*|mingw*|msys*|os2*)
        DEFINES="$DEFINES -DDEBUG_`echo ${USERNAME} | sed -e 's| |_|g'`"
        ;;
    *)
        DEFINES="$DEFINES -DDEBUG_`$WHOAMI`"
        ;;
    esac
else
    AC_DEFINE(NDEBUG)
    DEFINES="$DEFINES -UDEBUG"
fi

if test -z "$SKIP_COMPILER_CHECKS"; then
dnl ========================================================
dnl Checks for compilers.
dnl ========================================================
if test "$target" != "$host"; then
    echo "cross compiling from $host to $target"
    cross_compiling=yes

    case "$build:$target" in
      powerpc-apple-darwin8*:i?86-apple-darwin*)
        dnl The Darwin cross compiler doesn't necessarily point itself at a
        dnl root that has libraries for the proper architecture, it defaults
        dnl to the system root.  The libraries in the system root on current
        dnl versions of PPC OS X 10.4 aren't fat, so these target compiler
        dnl checks will fail.  Fake a working SDK in that case.
        _SAVE_CFLAGS=$CFLAGS
        _SAVE_CXXFLAGS=$CXXFLAGS
        CFLAGS="-isysroot /Developer/SDKs/MacOSX10.4u.sdk $CFLAGS"
        CXXFLAGS="-isysroot /Developer/SDKs/MacOSX10.4u.sdk $CXXFLAGS"
        ;;
    esac
```

```
    AC_CHECK_PROGS(CC, $CC "${target_alias}-gcc" "${target}-gcc", echo)
    unset ac_cv_prog_CC
    dnl Now exit the conditional block to invoke AC_PROG_CC.
fi

dnl In the latest versions of autoconf, AC_PROG_CC is a one-shot macro,
dnl declared with AC_DEFUN_ONCE. So it must not be expanded inside a
dnl conditional block. Invoke AC_PROG_CC outside any conditional block
dnl and before invoking AC_TRY_COMPILE (which requires AC_PROG_CC).
AC_PROG_CC

dnl Reenter the conditional blocks after invoking AC_PROG_CC.
if test "$target" != "$host"; then
    if test -n "$USE_CPLUS"; then
        AC_CHECK_PROGS(CXX, $CXX "${target_alias}-g++" "${target}-g++", echo)
        unset ac_cv_prog_CXX
        AC_PROG_CXX
    fi

    case "$build:$target" in
      powerpc-apple-darwin8*:i?86-apple-darwin*|*:arm*-apple-darwin*)
        dnl Revert the changes made above.  From this point on, the target
        dnl compiler will never be used without applying the SDK to CFLAGS
        dnl (see --with-macos-sdk below).
        CFLAGS=$_SAVE_CFLAGS
        CXXFLAGS=$_SAVE_CXXFLAGS
        ;;
    esac

    AC_CHECK_PROGS(RANLIB, $RANLIB "${target_alias}-ranlib" "${target}-ranlib", echo)
    AC_CHECK_PROGS(AR, $AR "${target_alias}-ar" "${target}-ar", echo)
    AC_CHECK_PROGS(AS, $AS "${target_alias}-as" "${target}-as", echo)
    AC_CHECK_PROGS(LD, $LD "${target_alias}-ld" "${target}-ld", echo)
    AC_CHECK_PROGS(STRIP, $STRIP "${target_alias}-strip" "${target}-strip", echo)
    AC_CHECK_PROGS(WINDRES, $WINDRES "${target_alias}-windres" "${target}-windres", echo)

    _SAVE_CC="$CC"
    _SAVE_CFLAGS="$CFLAGS"
    _SAVE_LDFLAGS="$LDFLAGS"

    AC_MSG_CHECKING([for $host compiler])
    AC_CHECK_PROGS(HOST_CC, $HOST_CC gcc cc /usr/ucb/cc, "")
    if test -z "$HOST_CC"; then
        AC_MSG_ERROR([no acceptable cc found in \$PATH])
    fi
    AC_MSG_RESULT([$HOST_CC])

    CC="$HOST_CC"
    CFLAGS="$HOST_CFLAGS"
    LDFLAGS="$HOST_LDFLAGS"

    AC_MSG_CHECKING([whether the $host compiler ($HOST_CC $HOST_CFLAGS $HOST_LDFLAGS) works])
    AC_TRY_COMPILE([], [return 0;],
        [AC_MSG_RESULT([yes])],
        [AC_MSG_ERROR([installation or configuration problem: $host compiler $HOST_CC cannot create executables.])] )

    CC=$_SAVE_CC
    CFLAGS=$_SAVE_CFLAGS
    LDFLAGS=$_SAVE_LDFLAGS
else
    if test -n "$USE_CPLUS"; then
        if test "$CC" = "cl" -a -z "$CXX"; then
            CXX=$CC
        else
            AC_PROG_CXX
        fi
    fi
    AC_PROG_RANLIB
    AC_PATH_PROGS(AS, as, $CC)
    AC_PATH_PROGS(AR, ar, echo not_ar)
    AC_PATH_PROGS(LD, ld link, echo not_ld)
    AC_PATH_PROGS(STRIP, strip, echo not_strip)
    AC_PATH_PROGS(WINDRES, windres, echo not_windres)
    if test -z "$HOST_CC"; then
        HOST_CC="$CC"
    fi
    if test -z "$HOST_CFLAGS"; then
        HOST_CFLAGS="$CFLAGS"
    fi
fi

AC_PROG_CPP
```

```
if test "$GCC" = "yes"; then
   GNU_CC=1
fi
if test "$GXX" = "yes"; then
   GNU_CXX=1
fi
if test "`echo | $AS -v 2>&1 | grep -c GNU`" != "0"; then
   GNU_AS=1
fi
rm -f a.out

case "$build:$target" in
   i?86-apple-darwin*:powerpc-apple-darwin*)
      dnl cross_compiling will have erroneously been set to "no" in this
      dnl case, because the x86 build host is able to run ppc code in a
      dnl translated environment, making a cross compiler appear native.
      cross_compiling=yes
      ;;
esac

if test "$cross_compiling"  = "yes"; then
   CROSS_COMPILE=1
else
   CROSS_COMPILE=
fi

dnl ========================================================
dnl Check for gcc -pipe support
dnl ========================================================
AC_MSG_CHECKING([for gcc -pipe support])
if test -n "$GNU_CC" && test -n "$GNU_CXX" && test -n "$GNU_AS"; then
   echo '#include <stdio.h>' > dummy-hello.c
   echo 'int main() { printf("Hello World\n"); return 0; }' >> dummy-hello.c
   ${CC} -S dummy-hello.c -o dummy-hello.s 2>&5
   cat dummy-hello.s | ${AS} -o dummy-hello.S - 2>&5
   if test $? = 0; then
      _res_as_stdin="yes"
   else
      _res_as_stdin="no"
   fi
   if test "$_res_as_stdin" = "yes"; then
      _SAVE_CFLAGS=$CFLAGS
      CFLAGS="$CFLAGS -pipe"
      AC_TRY_COMPILE( [ #include <stdio.h> ],
         [printf("Hello World\n");],
         [_res_gcc_pipe="yes"],
         [_res_gcc_pipe="no"] )
      CFLAGS=$_SAVE_CFLAGS
   fi
   if test "$_res_as_stdin" = "yes" && test "$_res_gcc_pipe" = "yes"; then
      _res="yes";
      CFLAGS="$CFLAGS -pipe"
      CXXFLAGS="$CXXFLAGS -pipe"
   else
      _res="no"
   fi
   rm -f dummy-hello.c dummy-hello.s dummy-hello.S dummy-hello a.out
   AC_MSG_RESULT([$_res])
else
   AC_MSG_RESULT([no])
fi

dnl ========================================================
dnl Profile guided optimization
dnl ========================================================
dnl Test for profiling options
dnl Under gcc 3.4+, use -fprofile-generate/-fprofile-use

_SAVE_CFLAGS="$CFLAGS"
CFLAGS="$CFLAGS -fprofile-generate -fprofile-correction"

AC_MSG_CHECKING([whether C compiler supports -fprofile-generate])
AC_TRY_COMPILE([], [return 0;],
            [ PROFILE_GEN_CFLAGS="-fprofile-generate"
              result="yes" ], result="no")
AC_MSG_RESULT([$result])

if test $result = "yes"; then
  PROFILE_GEN_LDFLAGS="-fprofile-generate"
  PROFILE_USE_CFLAGS="-fprofile-use -fprofile-correction -Wcoverage-mismatch"
  PROFILE_USE_LDFLAGS="-fprofile-use"
fi
```

```
CFLAGS="$_SAVE_CFLAGS"

dnl ===============================================================
dnl Check for .hidden assembler directive and visibility attribute.
dnl Borrowed from glibc configure.in
dnl ===============================================================
if test "$GNU_CC"; then
    AC_CACHE_CHECK(for visibility(hidden) attribute,
        ac_cv_visibility_hidden,
        [cat > conftest.c <<EOF
        int foo __attribute__ ((visibility ("hidden"))) = 1;
EOF
        ac_cv_visibility_hidden=no
        if ${CC-cc} -Werror -S conftest.c -o conftest.s >/dev/null 2>&1; then
            if grep '\.hidden.*foo' conftest.s >/dev/null; then
                ac_cv_visibility_hidden=yes
            fi
        fi
        rm -f conftest.[cs]
        ])
    if test "$ac_cv_visibility_hidden" = "yes"; then
        AC_DEFINE(HAVE_VISIBILITY_HIDDEN_ATTRIBUTE)
        AC_CACHE_CHECK(for visibility pragma support,
            ac_cv_visibility_pragma,
            [cat > conftest.c <<EOF
#pragma GCC visibility push(hidden)
            int foo_hidden = 1;
#pragma GCC visibility push(default)
            int foo_default = 1;
EOF
            ac_cv_visibility_pragma=no
            if ${CC-cc} -Werror -S conftest.c -o conftest.s >/dev/null 2>&1; then
                if grep '\.hidden.*foo_hidden' conftest.s >/dev/null; then
                    if ! grep '\.hidden.*foo_default' conftest.s > /dev/null; then
                        ac_cv_visibility_pragma=yes
                    fi
                fi
            fi
            rm -f conftest.[cs]
            ])
        if test "$ac_cv_visibility_pragma" = "yes"; then
            AC_DEFINE(HAVE_VISIBILITY_PRAGMA)
            # To work around a build problem on Linux x86-64 (Bugzilla bug
            # 293438), we use the -fvisibility=hidden flag.  This flag is less
            # optimal than #pragma GCC visibility push(hidden) because the flag
            # assumes that symbols defined outside the current source file have
            # the default visibility.  This has the advantage that we don't need
            # to wrap system header files, but has the disadvantage that calls
            # to hidden symbols defined in other source files cannot be
            # optimized by the compiler.  The -fvisibility=hidden flag does
            # hide and export symbols correctly.
            #VISIBILITY_FLAGS='-I$(dist_includedir)/system_wrappers -include $(topsrcdir)/config/gcc_hidden.h'
            #WRAP_SYSTEM_INCLUDES=1
            VISIBILITY_FLAGS="-fvisibility=hidden"
            WRAP_SYSTEM_INCLUDES=
        fi
    fi
fi # GNU_CC

fi # SKIP_COMPILER_CHECKS

dnl =======================================================
dnl Checks for programs.
dnl =======================================================
if test -z "$SKIP_PATH_CHECKS"; then
    AC_PATH_PROGS(PERL, perl5 perl, echo not_perl)
elif test -z "$PERL"; then
    PERL=perl
fi

dnl =======================================================
dnl Default platform specific options
dnl =======================================================
OBJ_SUFFIX=o
LIB_SUFFIX=a
DLL_SUFFIX=so
ASM_SUFFIX=s
MKSHLIB='$(LD) $(DSO_LDOPTS) -o $@'
PR_MD_ASFILES=
PR_MD_CSRCS=
PR_MD_ARCH_DIR=unix
AR_FLAGS='cr $@'
```

```
AS='$(CC)'
ASFLAGS='$(CFLAGS)'

if test -n "$CROSS_COMPILE"; then
   OS_ARCH=`echo $target_os | sed -e 's|/|_|g'`
   OS_RELEASE=
   OS_TEST="${target_cpu}"
   case "${target_os}" in
      linux*)       OS_ARCH=Linux ;;
      solaris*)     OS_ARCH=SunOS OS_RELEASE=5 ;;
      mingw*)       OS_ARCH=WINNT CPU_ARCH=x86 ;;
      darwin*)      OS_ARCH=Darwin ;;
      riscos*)      OS_ARCH=RISCOS ;;
   esac
else
   OS_ARCH=`uname -s | sed -e 's|/|_|g'`
   OS_RELEASE=`uname -r`
   OS_TEST=`uname -m`
fi

if test "$OS_ARCH" = "IRIX64"; then
   OS_ARCH=IRIX
fi

if test "$OS_ARCH" = "AIX"; then
   OS_RELEASE=`uname -v`.`uname -r`
fi

if test "$OS_ARCH" = "FreeBSD"; then
   OS_RELEASE=`echo $OS_RELEASE | sed 's/-.*//'`
fi

if test "$OS_ARCH" = "Linux"; then
   OS_RELEASE=`echo $OS_RELEASE | sed 's/-.*//'`
   OS_RELEASE=`echo $OS_RELEASE | awk -F\. '{ print $1 "." $2 }'`
fi

##########################################################################
# Master "Core Components" macros for getting the OS target            #
##########################################################################

#
# Note: OS_TARGET should be specified on the command line for gmake.
# When OS_TARGET=WIN95 is specified, then a Windows 95 target is built.
# The difference between the Win95 target and the WinNT target is that
# the WinNT target uses Windows NT specific features not available
# in Windows 95. The Win95 target will run on Windows NT, but (supposedly)
# at lesser performance (the Win95 target uses threads; the WinNT target
# uses fibers).
#
# If OS_TARGET is not specified, it defaults to $(OS_ARCH), i.e., no
# cross-compilation.
#

#
# The following hack allows one to build on a WIN95 machine (as if
# s/he were cross-compiling on a WINNT host for a WIN95 target).
# It also accomodates for MKS's uname.exe.  If you never intend
# to do development on a WIN95 machine, you don't need this hack.
#
case "$OS_ARCH" in
Windows_95)
   OS_ARCH=Windows_NT
   OS_TARGET=WIN95
   ;;
Windows_98)
   OS_ARCH=Windows_NT
   OS_TARGET=WIN95
   ;;
CYGWIN_9*|CYGWIN_ME*)
   OS_ARCH='CYGWIN_NT-4.0'
   OS_TARGET=WIN95
   ;;
OS_2)
   OS_ARCH=OS2
   OS_TARGET=OS2
   ;;
esac

#
# On WIN32, we also define the variable CPU_ARCH.
#
```

```
case "$OS_ARCH" in
Windows_NT)
#
# If uname -s returns "Windows_NT", we assume that we are using
# the uname.exe in MKS toolkit.
#
# The -r option of MKS uname only returns the major version number.
# So we need to use its -v option to get the minor version number.
# Moreover, it doesn't have the -p option, so we need to use uname -m.
#
    OS_ARCH=WINNT
    OS_MINOR_RELEASE=`uname -v`
    if test "$OS_MINOR_RELEASE" = "00"; then
        OS_MINOR_RELEASE=0
    fi
    OS_RELEASE="${OS_RELEASE}.${OS_MINOR_RELEASE}"
    CPU_ARCH=`uname -m`
    #
    # MKS's uname -m returns "586" on a Pentium machine.
    #
    if echo "$CPU_ARCH" | grep -c 86 >/dev/null; then
        CPU_ARCH=x86
    fi
    ;;
CYGWIN_NT*|MINGW*_NT*|MSYS_NT*)
#
# If uname -s returns "CYGWIN_NT-4.0", we assume that we are using
# the uname.exe in the Cygwin tools.
# If uname -s returns "MINGW32_NT-5.1", we assume that we are using
# the uname.exe in the MSYS tools.
# If uname -s returns "MSYS_NT-6.3", we assume that we are using
# the uname.exe in the MSYS2 tools.
#
    OS_RELEASE=`expr $OS_ARCH : '.*NT-\(.*\)'`
    OS_ARCH=WINNT
    CPU_ARCH=`uname -m`
    #
    # Cygwin's uname -m returns "i686" on a Pentium Pro machine.
    #
    if echo "$CPU_ARCH" | grep -c 86 >/dev/null; then
        CPU_ARCH=x86
    fi
    ;;
esac

if test -n "$MOZILLA_CLIENT" && test "$OS_ARCH" = "WINNT"; then
    OS_TARGET=WIN95
    if test -n "$MOZ_DEBUG" -a -z "$USE_DEBUG_RTL"; then
        USE_DEBUG_RTL=1
    fi
fi
if test -z "$OS_TARGET"; then
    OS_TARGET=$OS_ARCH
fi
if test "$OS_TARGET" = "WIN95"; then
    OS_RELEASE="4.0"
fi
OS_CONFIG="${OS_TARGET}${OS_RELEASE}"

dnl ========================================================
dnl Enable high-memory support on OS/2 by default.
dnl ========================================================
AC_ARG_ENABLE(os2-high-mem,
    [  --disable-os2-high-mem  Disable high-memory support on OS/2],
    [ if test "$enableval" = "no"; then
        MOZ_OS2_HIGH_MEMORY=
      else
        MOZ_OS2_HIGH_MEMORY=1
      fi ])

dnl ========================================================
dnl = ARM toolchain tweaks
dnl ========================================================

dnl Defaults
MOZ_ALIGN=toolchain-default

case "$target" in
arm*-android*|arm*-linuxandroid*)
    MOZ_THUMB=yes
    MOZ_ARCH=armv7-a
    MOZ_FPU=vfp
    MOZ_FLOAT_ABI=softfp
```

```
    MOZ_SOFT_FLOAT=yes
    MOZ_ALIGN=no
    ;;
arm*-*)
    if test -n "$MOZ_PLATFORM_MAEMO"; then
        MOZ_THUMB=no
        MOZ_ARCH=armv7-a
        MOZ_FLOAT_ABI=softfp
    fi
    if test "$MOZ_PLATFORM_MAEMO" = 6; then
        MOZ_THUMB=yes
    fi
    ;;
esac

dnl Kept for compatibility with some buildbot mozconfig
AC_ARG_ENABLE(thumb2, [], MOZ_THUMB=$enableval)

AC_ARG_WITH(thumb,
[  --with-thumb[[=yes|no|toolchain-default]]]
[                          Use Thumb instruction set (-mthumb)],
    if test -z "$GNU_CC"; then
        AC_MSG_ERROR([--with-thumb is not supported on non-GNU toolchain-defaults])
    fi
    MOZ_THUMB=$withval)

AC_ARG_WITH(thumb-interwork,
[  --with-thumb-interwork[[=yes|no|toolchain-default]]
                          Use Thumb/ARM instuctions interwork (-mthumb-interwork)],
    if test -z "$GNU_CC"; then
        AC_MSG_ERROR([--with-thumb-interwork is not supported on non-GNU toolchain-defaults])
    fi
    MOZ_THUMB_INTERWORK=$withval)

AC_ARG_WITH(arch,
[  --with-arch=[[type|toolchain-default]]
                          Use specific CPU features (-march=type)],
    if test -z "$GNU_CC"; then
        AC_MSG_ERROR([--with-arch is not supported on non-GNU toolchain-defaults])
    fi
    MOZ_ARCH=$withval)

AC_ARG_WITH(fpu,
[  --with-fpu=[[type|toolchain-default]]
                          Use specific FPU type (-mfpu=type)],
    if test -z "$GNU_CC"; then
        AC_MSG_ERROR([--with-fpu is not supported on non-GNU toolchain-defaults])
    fi
    MOZ_FPU=$withval)

AC_ARG_WITH(float-abi,
[  --with-float-abi=[[type|toolchain-default]]
                          Use specific arm float ABI (-mfloat-abi=type)],
    if test -z "$GNU_CC"; then
        AC_MSG_ERROR([--with-float-abi is not supported on non-GNU toolchain-defaults])
    fi
    MOZ_FLOAT_ABI=$withval)

AC_ARG_WITH(soft-float,
[  --with-soft-float[[=yes|no|toolchain-default]]
                          Use soft float library (-msoft-float)],
    if test -z "$GNU_CC"; then
        AC_MSG_ERROR([--with-soft-float is not supported on non-GNU toolchain-defaults])
    fi
    MOZ_SOFT_FLOAT=$withval)

case "$MOZ_ARCH" in
toolchain-default|"")
    arch_flag=""
    ;;
*)
    arch_flag="-march=$MOZ_ARCH"
    ;;
esac

case "$MOZ_THUMB" in
yes)
    MOZ_THUMB2=1
    thumb_flag="-mthumb"
    ;;
no)
    MOZ_THUMB2=
    thumb_flag="-marm"
```

```
    ;;
*)
    _SAVE_CFLAGS="$CFLAGS"
    CFLAGS="$arch_flag"
    AC_TRY_COMPILE([],[return sizeof(__thumb2__);],
        MOZ_THUMB2=1,
        MOZ_THUMB2=)
    CFLAGS="$_SAVE_CFLAGS"
    thumb_flag=""
    ;;
esac

case "$MOZ_THUMB_INTERWORK" in
yes)
    thumb_interwork_flag="-mthumb-interwork"
    ;;
no)
    thumb_interwork_flag="-mno-thumb-interwork"
    ;;
*) # toolchain-default
    thumb_interwork_flag=""
    ;;
esac

case "$MOZ_FPU" in
toolchain-default|"")
    fpu_flag=""
    ;;
*)
    fpu_flag="-mfpu=$MOZ_FPU"
    ;;
esac

case "$MOZ_FLOAT_ABI" in
toolchain-default|"")
    float_abi_flag=""
    ;;
*)
    float_abi_flag="-mfloat-abi=$MOZ_FLOAT_ABI"
    ;;
esac

case "$MOZ_SOFT_FLOAT" in
yes)
    soft_float_flag="-msoft-float"
    ;;
no)
    soft_float_flag="-mno-soft-float"
    ;;
*) # toolchain-default
    soft_float_flag=""
    ;;
esac

case "$MOZ_ALIGN" in
toolchain-default|"")
    align_flag=""
    ;;
no)
    align_flag="-mno-unaligned-access"
    ;;
yes)
    align_flag="-munaligned-access"
    ;;
*)
    align_flag=""
    ;;
esac

if test -n "$align_flag"; then
  _SAVE_CFLAGS="$CFLAGS"
  CFLAGS="$CFLAGS $align_flag"
  AC_MSG_CHECKING(whether alignment flag ($align_flag) is supported)
  AC_TRY_COMPILE([],[],,align_flag="")
  CFLAGS="$_SAVE_CFLAGS"
fi

dnl Use echo to avoid accumulating space characters
all_flags=`echo $arch_flag $thumb_flag $thumb_interwork_flag $fpu_flag $float_abi_flag $soft_float_flag $align_flag`
if test -n "$all_flags"; then
    _SAVE_CFLAGS="$CFLAGS"
    CFLAGS="$all_flags"
    AC_MSG_CHECKING(whether the chosen combination of compiler flags ($all_flags) works)
```

```
    AC_TRY_COMPILE([],[return 0;],
        AC_MSG_RESULT([yes]),
        AC_MSG_ERROR([no]))

    CFLAGS="$_SAVE_CFLAGS $all_flags"
    CXXFLAGS="$CXXFLAGS $all_flags"
    ASFLAGS="$ASFLAGS $all_flags"
    if test -n "$thumb_flag"; then
        LDFLAGS="$LDFLAGS $thumb_flag"
    fi
fi

dnl ========================================================
dnl Override of system specific host options
dnl ========================================================
case "$host" in
*-mingw*|*-msys*)
    NSINSTALL=nsinstall
    ;;
*-cygwin*|*-mks*)
    NSINSTALL='$(CYGWIN_WRAPPER) nsinstall'
    if test `echo "${PATH}" | grep -c \;` = 0; then
        CYGWIN_WRAPPER='sh $(topsrcdir)/build/cygwin-wrapper'
    fi
    ;;
*-beos*)
    HOST_CFLAGS="$HOST_CFLAGS -DXP_BEOS -DBeOS -DBEOS -D_POSIX_SOURCE"
    ;;
*os2*)
    ;;
*)
    HOST_CFLAGS="$HOST_CFLAGS -DXP_UNIX"
    ;;
esac

dnl ========================================================
dnl Override of system specific target options
dnl ========================================================
case "$target" in

*-aix*)
    AC_DEFINE(XP_UNIX)
    AC_DEFINE(AIX)
    AC_DEFINE(SYSV)
    DSO_LDOPTS='-brtl -bnortllib -bM:SRE -bnoentry -bexpall -blibpath:/usr/lib:/lib'
    AC_CHECK_HEADER(sys/atomic_op.h, AC_DEFINE(AIX_HAVE_ATOMIC_OP_H))
    case "${target_os}" in
    aix3.2*)
        AC_DEFINE(AIX_RENAME_SELECT)
        AC_DEFINE(_PR_NO_LARGE_FILES)
        AIX_LINK_OPTS='-bnso -berok'
        PR_MD_ASFILES=os_AIX.s
        ;;
    aix4.1*)
        AC_DEFINE(AIX_TIMERS)
        AC_DEFINE(_PR_NO_LARGE_FILES)
        AC_DEFINE(AIX4_1)
        MKSHLIB=
        DSO_LDOPTS=
        AIX_LINK_OPTS='-bnso -berok'
        LIBNSPR='-L$(dist_libdir) -lnspr$(MOD_MAJOR_VERSION)_shr'
        LIBPLC='-L$(dist_libdir) -lplc$(MOD_MAJOR_VERSION)_shr'
        ;;
    aix4.2*)
        AC_DEFINE(AIX_TIMERS)
        AC_DEFINE(_PR_HAVE_OFF64_T)
        AIX_LINK_OPTS='-brtl -bnso -berok'
        ;;
    aix4.3*)
        AC_DEFINE(AIX_TIMERS)
        AC_DEFINE(_PR_HAVE_OFF64_T)
        AC_DEFINE(AIX4_3_PLUS)
        AC_DEFINE(HAVE_SOCKLEN_T)
        AC_DEFINE(HAVE_FCNTL_FILE_LOCKING)
        USE_IPV6=1
        AIX_LINK_OPTS='-brtl -bnso -berok'
        ;;
    *)
        AC_DEFINE(AIX_TIMERS)
        AC_DEFINE(_PR_HAVE_OFF64_T)
        AC_DEFINE(AIX4_3_PLUS)
        AC_DEFINE(HAVE_SOCKLEN_T)
        AC_DEFINE(HAVE_FCNTL_FILE_LOCKING)
```

```
        USE_IPV6=1
        AIX_LINK_OPTS='-brtl -bnso -berok'
        ;;
    esac
    CFLAGS="$CFLAGS -qro -qroconst"
    AIX_WRAP='$(DIST)/lib/aixwrap.o'
    AIX_TMP='./_aix_tmp.o'
    if test -n "$USE_64"; then
        MDCPUCFG_H=_aix64.cfg
        OBJECT_MODE=64
    else
        MDCPUCFG_H=_aix32.cfg
    fi
    PR_MD_CSRCS=aix.c
    RESOLVE_LINK_SYMBOLS=1
    ;;

*-beos*)
    AC_DEFINE(XP_BEOS)
    AC_DEFINE(BeOS)
    AC_DEFINE(BEOS)
    AC_DEFINE(_POSIX_SOURCE)
    DSO_LDOPTS=-nostart
    MDCPUCFG_H=_beos.cfg
    USE_BTHREADS=1
    PR_MD_ARCH_DIR=beos
    RESOLVE_LINK_SYMBOLS=1
    case "${target_cpu}" in
    i*86)
        _OPTIMIZE_FLAGS=-O2
        _DEBUG_FLAGS='-gdwarf-2 -O0'
        MKSHLIB='$(CCC) $(DSO_LDOPTS) -o $@'
        AC_CHECK_LIB(bind, gethostbyaddr, [OS_LIBS="$OS_LIBS -lbind -lsocket"])
        ;;
    powerpc)
        CC=mwcc
        CCC=mwcc
        LD=mwld
        DSO_LDOPTS='-xms -export pragma -init _init_routine_ -term _term_routine_ -lroot -lnet /boot/develop/lib/ppc/glue-noinit.a
/boot/develop/lib/ppc/init_term_dyn.o /boot/develop/lib/ppc/start_dyn.o'
        _OPTIMIZE_FLAGS=-O2
        _DEBUG_FLAGS='-g -O0'
        ;;
    esac
    ;;

*-bsdi*)
    AC_DEFINE(XP_UNIX)
    AC_DEFINE(BSDI)
    AC_DEFINE(NEED_BSDREGEX)

    CFLAGS="$CFLAGS -Wall -Wno-format"
    CXXFLAGS="$CXXFLAGS -Wall -Wno-format"

    if echo "$OS_TEST" | grep -c 86 >/dev/null; then
        CPU_ARCH=x86
    elif echo "$OS_TEST" | grep -c sparc >/dev/null; then
        CPU_ARCH=sparc
    fi

    MDCPUCFG_H=_bsdi.cfg
    PR_MD_CSRCS=bsdi.c

    DSO_LDOPTS=-r

    case "$target_os" in
    bsdi1.1*)
        AC_DEFINE(_PR_BSDI_JMPBUF_IS_ARRAY)
        AC_DEFINE(_PR_STAT_HAS_ONLY_ST_ATIME)
        AC_DEFINE(_PR_NEED_H_ERRNO)
        MKSHLIB=
        DSO_CFLAGS=
        DSO_LDOPTS=
        ;;

    bsdi2.1*)
        AC_DEFINE(_PR_TIMESPEC_HAS_TS_SEC)
        AC_DEFINE(_PR_BSDI_JMPBUF_IS_ARRAY)
        AC_DEFINE(HAVE_DLL)
        AC_DEFINE(USE_DLFCN)
        AC_DEFINE(_PR_STAT_HAS_ST_ATIMESPEC)
        PR_MD_ASFILES=os_BSD_OS_386_2.s
        ;;
```

```
    bsdi4.* | bsdi5.*)
        AC_DEFINE(_PR_SELECT_CONST_TIMEVAL)
        AC_DEFINE(_PR_BSDI_JMPBUF_IS_STRUCT)
        AC_DEFINE(HAVE_DLL)
        AC_DEFINE(USE_DLFCN)
        AC_DEFINE(_PR_STAT_HAS_ST_ATIMESPEC)
        MKSHLIB='$(CC) -o $@ $(DSO_LDOPTS)'
        DSO_CFLAGS=-fPIC
        DSO_LDOPTS='-shared -Wl,-soname,$(@:$(OBJDIR)/%.so=%.so)'
        STRIP="$STRIP -d"
        case "$target_os" in
        bsdi4.2* | bsdi4.3* | bsdi5.*)
            AC_DEFINE(_PR_HAVE_GETPROTO_R)
            AC_DEFINE(_PR_HAVE_GETPROTO_R_POINTER)
            ;;
        esac
        ;;
    *)
        AC_DEFINE(_PR_SELECT_CONST_TIMEVAL)
        AC_DEFINE(_PR_BSDI_JMPBUF_IS_STRUCT)
        AC_DEFINE(HAVE_DLL)
        AC_DEFINE(USE_DLFCN)
        AC_DEFINE(_PR_STAT_HAS_ST_ATIMESPEC)
        ;;
    esac

    ;;

*-darwin*)
    AC_DEFINE(XP_UNIX)
    AC_DEFINE(DARWIN)
    AC_DEFINE(HAVE_BSD_FLOCK)
    AC_DEFINE(HAVE_SOCKLEN_T)
    AS='$(CC) -x assembler-with-cpp'
    CFLAGS="$CFLAGS -Wall -fno-common"
    case "${target_cpu}" in
        arm*)
            CPU_ARCH=arm
            ;;
        i*86*|x86_64)
            if test -n "$USE_64"; then
                CPU_ARCH=x86_64
            else
                CPU_ARCH=i386
            fi
            ;;
        *)
            CPU_ARCH=ppc
            ;;
    esac
    if test "`echo $CC | grep -c '\-arch `" = "0"; then
        CC="$CC -arch $CPU_ARCH"
    fi
    AC_CHECK_HEADER(crt_externs.h, AC_DEFINE(HAVE_CRT_EXTERNS_H))
    DSO_CFLAGS=-fPIC
    DSO_LDOPTS='-dynamiclib -compatibility_version 1 -current_version 1 -all_load -install_name @executable_path/$@ -headerpad_max_install_names'
    _OPTIMIZE_FLAGS=-O2
    MKSHLIB='$(CC) $(DSO_LDOPTS) -o $@'
    STRIP="$STRIP -x -S"
    DLL_SUFFIX=dylib
    USE_PTHREADS=1
    MDCPUCFG_H=_darwin.cfg
    PR_MD_CSRCS=darwin.c
    PR_MD_ASFILES=os_Darwin.s

    # Add Mac OS X support for loading CFM & CFBundle plugins
    if test -f "${MACOS_SDK_DIR}/System/Library/Frameworks/Carbon.framework/Carbon"; then
        AC_DEFINE(XP_MACOSX)
        OS_TARGET=MacOSX

        if test -n "$_MACOSX_DEPLOYMENT_TARGET" ; then
            dnl Use the specified value
            export MACOSX_DEPLOYMENT_TARGET=$_MACOSX_DEPLOYMENT_TARGET
        elif test -z "$MACOSX_DEPLOYMENT_TARGET" ; then
            dnl No value specified on the command line or in the environment,
            dnl use the lesser of the library's minimum or the architecture's
            dnl minimum.
            case "${target_cpu}" in
                powerpc*)
                    dnl Architecture minimum 10.2
                    export MACOSX_DEPLOYMENT_TARGET=10.2
                    ;;
```

```
            i*86*)
                dnl Architecture minimum 10.4
                export MACOSX_DEPLOYMENT_TARGET=10.4
                ;;
        esac
    fi

    dnl MACOS_SDK_DIR will be set to the SDK location whenever one is
    dnl in use.  NEXT_ROOT will be set and exported if it's needed for
    dnl ld.

    if test "$MACOS_SDK_DIR"; then
        dnl Sync this section with the one in Mozilla's top level.

        if test ! -d "$MACOS_SDK_DIR"; then
            AC_MSG_ERROR([SDK not found.  When using --with-macos-sdk, you must
specify a valid SDK.  SDKs are installed when the optional cross-development
tools are selected during the Xcode/Developer Tools installation.])
        fi

        changequote(,)
        CC_VERSION=`$CC -v 2>&1 | grep 'gcc version'`
        GCC_VERSION_FULL=`echo $CC_VERSION | $PERL -pe 's/^.*gcc version ([^ ]*).*/$1/'`
        GCC_VERSION=`echo $GCC_VERSION_FULL | $PERL -pe '(split(/\./))[0]>=4&&s/(^\d*\.\d*).*/$1/;'`
        changequote([,])
        GCC_VERSION_MAJOR=`echo $GCC_VERSION_FULL | $PERL -pe 's/(^\d*).*/$1/;'`
        if test "$GCC_VERSION_MAJOR" -lt "4" ; then
            SDK_C_FRAMEWORK="-F${MACOS_SDK_DIR}/System/Library/Frameworks"
            if test -d "${MACOS_SDK_DIR}/Library/Frameworks" ; then
                SDK_C_FRAMEWORK="$SDK_C_FRAMEWORK -F${MACOS_SDK_DIR}/Library/Frameworks"
            fi

            SDK_C_INCLUDE="-isystem ${MACOS_SDK_DIR}/usr/include/gcc/darwin/${GCC_VERSION} -isystem ${MACOS_SDK_DIR}/usr/include
${SDK_C_FRAMEWORK}"

            CFLAGS="$CFLAGS -nostdinc ${SDK_C_INCLUDE}"

            dnl CPP needs to be set for AC_CHECK_HEADER.
            CPP="$CPP -nostdinc ${SDK_C_INCLUDE}"

            changequote(,)
            HOST_DARWIN_MAJOR=`echo "$build_os" | sed -E -e 's/^darwin([0-9]+).*$/\1/'`
            changequote([,])
            if test "$HOST_DARWIN_MAJOR" -lt 9 ; then
                dnl The build host is running Tiger (10.4) or earlier.
                dnl ld support for -syslibroot is compiler-agnostic, but
                dnl only available on Tiger and later.  On Tiger and
                dnl earlier build hosts, just rely on NEXT_ROOT, because
                dnl it's not been shown to cause any problems.
                MACOS_SDK_LIBS="-L${MACOS_SDK_DIR}/usr/lib/gcc/darwin -L${MACOS_SDK_DIR}/usr/lib/gcc/darwin/${GCC_VERSION_FULL}
-L${MACOS_SDK_DIR}/usr/lib ${SDK_C_FRAMEWORK}"
            else
                dnl The build host is running Leopard (10.5) or later.
                dnl With NEXT_ROOT set, the linker will still not apply
                dnl it when resolving dependencies.  This causes problems
                dnl on Leopard, where an SDK depends on frameworks which
                dnl were present in earlier OS releases (and the associated
                dnl SDK) but not in Leopard.  -syslibroot does not have
                dnl this problem, but it results in harmless warnings when
                dnl NEXT_ROOT is set.  NEXT_ROOT needs to remain set even
                dnl on Leopard because the compiler uses it too.
                MACOS_SDK_LIBS="-Wl,-syslibroot,${MACOS_SDK_DIR}"
            fi

            LDFLAGS="${MACOS_SDK_LIBS} $LDFLAGS"
            export NEXT_ROOT=$MACOS_SDK_DIR

            if test -n "$CROSS_COMPILE" ; then
                dnl NEXT_ROOT will be in the environment, but it
                dnl shouldn't be set for the build host.  HOST_CXX is
                dnl presently unused.
                HOST_CC="NEXT_ROOT= $HOST_CC"
                HOST_CXX="NEXT_ROOT= $HOST_CXX"
            fi
        else
            dnl gcc >= 4.0 uses different paths than above, but knows
            dnl how to find them itself.
            CFLAGS="$CFLAGS -isysroot ${MACOS_SDK_DIR}"

            dnl CPP needs to be set for AC_CHECK_HEADER.
            CPP="$CPP -isysroot ${MACOS_SDK_DIR}"

            dnl If gcc >= 4.0.0, we're guaranteed to be on Tiger, which
```

```
            dnl has an ld that supports -syslibroot.  Don't set
            dnl NEXT_ROOT because it will be ignored and cause
            dnl warnings when -syslibroot is specified.
            if test "$GCC_VERSION_FULL" != "4.0.0" ; then
               dnl gcc > 4.0.0 will pass -syslibroot to ld automatically
               dnl based on the -isysroot it receives.
               LDFLAGS="$LDFLAGS -isysroot ${MACOS_SDK_DIR}"
            else
               dnl gcc 4.0.0 doesn't pass -syslibroot to ld, it needs
               dnl to be explicit.
               LDFLAGS="$LDFLAGS -Wl,-syslibroot,${MACOS_SDK_DIR}"
            fi
         fi
      fi
   fi
   ;;

*-dgux*)
   AC_DEFINE(XP_UNIX)
   AC_DEFINE(_PR_LOCAL_THREADS_ONLY)
   AC_DEFINE(SVR4)
   AC_DEFINE(SYSV)
   AC_DEFINE(DGUX)
   AC_DEFINE(_DGUX_SOURCE)
   AC_DEFINE(_POSIX4A_DRAFT6_SOURCE)
   DSO_LDOPTS=-G
   _OPTIMIZE_FLAGS=-O2
   _DEBUG_FLAGS=
   MDCPUCFG_H=_dgux.cfg
   PR_MD_CSRCS=dgux.c
   ;;

*-freebsd*)
   if test -z "$USE_NSPR_THREADS"; then
      USE_PTHREADS=1
   fi
   AC_DEFINE(XP_UNIX)
   AC_DEFINE(FREEBSD)
   AC_DEFINE(HAVE_BSD_FLOCK)
   AC_DEFINE(HAVE_SOCKLEN_T)
   CFLAGS="$CFLAGS $(DSO_CFLAGS) -ansi -Wall"
   MOZ_OBJFORMAT=`test -x /usr/bin/objformat && /usr/bin/objformat || echo elf`
   if test "$MOZ_OBJFORMAT" = "elf"; then
      DLL_SUFFIX=so
   else
      DLL_SUFFIX=so.1.0
   fi
   MKSHLIB='$(CC) $(DSO_LDOPTS) -o $@'
   DSO_CFLAGS=-fPIC
   DSO_LDOPTS='-shared -Wl,-soname -Wl,$(notdir $@)'
   MDCPUCFG_H=_freebsd.cfg
   PR_MD_CSRCS=freebsd.c
   ;;

*-hpux*)
   AC_DEFINE(XP_UNIX)
   AC_DEFINE(HPUX)
   AC_DEFINE(_HPUX_SOURCE)
   # OSF1 and HPUX report the POLLHUP event for a socket when the
   # shutdown(SHUT_WR) operation is called for the remote end, even though
   # the socket is still writeable. Use select(), instead of poll(), to
   # workaround this problem.
   AC_DEFINE(_PR_POLL_WITH_SELECT)
   AC_DEFINE(_USE_BIG_FDS)
   DSO_LDOPTS='-b +h $(notdir $@)'
   PR_MD_CSRCS=hpux.c
   if test "$OS_TEST" = "ia64"; then
      DLL_SUFFIX=so
      DSO_LDOPTS="$DSO_LDOPTS +b '\$\$ORIGIN'"
      CPU_ARCH_TAG=_$OS_TEST
      if test -z "$USE_64"; then
         COMPILER_TAG=_32
      fi
      PR_MD_ASFILES=os_HPUX_ia64.s
   else
      AC_DEFINE(hppa)
      DLL_SUFFIX=sl
      PR_MD_ASFILES=os_HPUX.s
   fi
   if test -n "$USE_64"; then
      MDCPUCFG_H=_hpux64.cfg
   else
      MDCPUCFG_H=_hpux32.cfg
```

```
fi
if test -z "$GNU_CC"; then
    CC="$CC -Ae"
    CXX="$CXX -ext"
    DSO_CFLAGS=+Z
else
    DSO_CFLAGS=-fPIC
    ASFLAGS="$ASFLAGS -x assembler-with-cpp"
fi

if test -n "$MOZILLA_CLIENT"; then
    DEFAULT_IMPL_STRATEGY=_EMU
fi

if echo "$OS_RELEASE" | grep ^A.09 >/dev/null; then
    AC_DEFINE(_PR_NEED_H_ERRNO)
    AC_DEFINE(HPUX9)
    DEFAULT_IMPL_STRATEGY=_EMU
 USE_NSPR_THREADS=1
fi

if echo "$OS_RELEASE" | egrep '^(A.09|B.10)' >/dev/null; then
    AC_DEFINE(_PR_NO_LARGE_FILES)
fi

if echo "$OS_RELEASE" | egrep '^(B.10.10|B.10.20)' >/dev/null; then
    AC_DEFINE(_PR_NEED_H_ERRNO)
fi

if echo "$OS_RELEASE" | egrep '^(B.10.10|B.10.20)' >/dev/null; then
    AC_DEFINE(HAVE_INT_LOCALTIME_R)
fi

if echo "$OS_RELEASE" | egrep '^(B.10.30|B.11)' >/dev/null; then
    AC_DEFINE(HAVE_POINTER_LOCALTIME_R)
fi

# HP-UX 11i v2 (B.11.23) or higher
changequote(<<,>>)
case "$OS_RELEASE" in
[C-Z]*|B.[2-9]*|B.1[2-9]*|B.11.[3-9]*|B.11.2[3-9]*)
    USE_IPV6=1
    ;;
esac
changequote([,])

if test "$OS_RELEASE" = "B.10.01"; then
    AC_DEFINE(HPUX10)
    DEFAULT_IMPL_STRATEGY=_EMU
fi

if test "$OS_RELEASE" = "B.10.10"; then
    AC_DEFINE(HPUX10)
    AC_DEFINE(HPUX10_10)
    DEFAULT_IMPL_STRATEGY=_PTH
fi

if test "$OS_RELEASE" = "B.10.20"; then
    AC_DEFINE(HPUX10)
    AC_DEFINE(HPUX10_20)
    if test -z "$GNU_CC"; then
        CFLAGS="$CFLAGS +DAportable +DS1.1"
        CXXFLAGS="$CXXFLAGS +DAportable +DS1.1"
    fi
    DEFAULT_IMPL_STRATEGY=_PTH
fi

if test "$OS_RELEASE" = "B.10.30"; then
    AC_DEFINE(HPUX10)
    AC_DEFINE(HPUX10_30)
    if test -z "$GNU_CC"; then
        CFLAGS="$CFLAGS +DAportable +DS1.1"
        CXXFLAGS="$CXXFLAGS +DAportable +DS1.1"
    fi
    DEFAULT_IMPL_STRATEGY=_PTH
fi

if echo "$OS_RELEASE" | grep ^B.11 >/dev/null; then
    AC_DEFINE(HPUX10)
    AC_DEFINE(HPUX11)
    AC_DEFINE(_LARGEFILE64_SOURCE)
    AC_DEFINE(_PR_HAVE_OFF64_T)
    AC_DEFINE(HAVE_FCNTL_FILE_LOCKING)
```

```
        if test -z "$GNU_CC"; then
            if test -z "$USE_64"; then
                if test "$OS_TEST" = "ia64"; then
                    CFLAGS="$CFLAGS +DD32"
                    CXXFLAGS="$CXXFLAGS +DD32"
                else
                    CFLAGS="$CFLAGS +DAportable +DS2.0"
                    CXXFLAGS="$CXXFLAGS +DAportable +DS2.0"
                fi
            else
                if test "$OS_TEST" = "ia64"; then
                    CFLAGS="$CFLAGS +DD64"
                    CXXFLAGS="$CXXFLAGS +DD64"
                else
                    CFLAGS="$CFLAGS +DA2.0W +DS2.0"
                    CXXFLAGS="$CXXFLAGS +DA2.0W +DS2.0"
                fi
            fi
        fi
        DEFAULT_IMPL_STRATEGY=_PTH
    fi

    if test "$DEFAULT_IMPL_STRATEGY" = "_EMU"; then
        USE_NSPR_THREADS=1
        USE_PTHREADS=
        USE_USER_PTHREADS=
    elif test "$DEFAULT_IMPL_STRATEGY" = "_PTH"; then
        USE_PTHREADS=1
        if test "$USE_NSPR_THREADS"; then
            USE_PTHREADS=
        fi
        if test "$USE_USER_PTHREADS"; then
            USE_PTHREADS=
        fi
    fi
    ;;

*-irix*)
    AC_DEFINE(XP_UNIX)
    AC_DEFINE(IRIX)
    AC_DEFINE(SVR4)
    AC_DEFINE(_SGI_MP_SOURCE)
    AC_DEFINE(HAVE_FCNTL_FILE_LOCKING)
    PR_MD_CSRCS=irix.c
    PR_MD_ASFILES=os_Irix.s
    MKSHLIB='$(LD) $(DSO_LDOPTS) -rdata_shared -shared -soname $(notdir $@) -o $@'
    STRIP="$STRIP -f"
    RESOLVE_LINK_SYMBOLS=1
    if test -n "$USE_64"; then
        MDCPUCFG_H=_irix64.cfg
    else
        MDCPUCFG_H=_irix32.cfg
    fi
    case "${target_os}" in
    irix6*)
        AC_DEFINE(IRIX6)
        USE_PTHREADS=1
        USE_N32=1
        COMPILER_TAG=_n32
        IMPL_STRATEGY=_PTH
        ;;
    irix5*)
        AC_DEFINE(IRIX5)
        USE_NSPR_THREADS=1
        ;;
    *)
        USE_PTHREADS=1
        USE_N32=1
        ;;
    esac
    if test "$GNU_CC"; then
        dnl
        dnl If we are using gcc with native binutils, we need to
        dnl suppress the
        dnl #lineno "filename" num num
        dnl lines, which confuse IRIX native as.  Add -Wp,-P to the
        dnl gcc command line, which passes -P to the preprocessor.
        dnl
     AS='$(CC) -Wp,-P -x assembler-with-cpp -D_ASM -mips2 $(INCLUDES)'
     CFLAGS="$CFLAGS -Wall -Wno-format"
     _OPTIMIZE_FLAGS="-O6"
    else
     if test -n "$USE_N32"; then
```

```
 AS='as -D_ASM $(INCLUDES) -n32'
   else
 AS='as -D_ASM $(INCLUDES)'
   fi
   CFLAGS="$CFLAGS -fullwarn -xansi"
   if test "$USE_N32"; then
       _OPTIMIZE_FLAGS="-O -OPT:Olimit=4000"
   else
       _OPTIMIZE_FLAGS="-O -Olimit 4000"
   fi
   if test "$USE_MDUPDATE"; then
            CFLAGS="$CFLAGS -MDupdate \$(DEPENDENCIES)"
   fi
   case "${target}" in
   *-irix6.*)
       CFLAGS="$CFLAGS -multigot"
       DSO_LDOPTS="-no_unresolved"
       if test "$USE_N32"; then
        CFLAGS="$CFLAGS -n32 -woff 1209"
        DSO_LDOPTS="$DSO_LDOPTS -n32"
       else
        if test "$USE_64"; then
            CFLAGS="$CFLAGS -64"
        else
            CFLAGS="$CFLAGS -32"
        fi
       fi
       ;;
   *)
       CFLAGS="$CFLAGS -xgot"
       ;;
   esac
  fi
  if test "${target_os}" = "irix5.3"; then
   AC_DEFINE(IRIX5_3)
  fi
  case "${target_os}" in
irix6.5)
   if test -z "$GNU_CC"; then
    CFLAGS="$CFLAGS -mips3"
   fi
   AC_DEFINE(_PR_HAVE_GETPROTO_R)
   AC_DEFINE(_PR_HAVE_GETPROTO_R_POINTER)
   AC_DEFINE(_PR_HAVE_SGI_PRDA_PROCMASK)
   ;;
irix5*)
   ;;
*)
   AC_DEFINE(_PR_HAVE_SGI_PRDA_PROCMASK)
   ;;
esac
  ;;

*-linux*|*-gnu*|*-k*bsd*-gnu|*-android*|*-linuxandroid*)
  if test -z "$USE_NSPR_THREADS"; then
      USE_PTHREADS=1
      IMPL_STRATEGY=_PTH
  fi
  AC_DEFINE(XP_UNIX)
  AC_DEFINE(_GNU_SOURCE)
  AC_DEFINE(HAVE_FCNTL_FILE_LOCKING)
  case "${target}" in
  *-android*|*-linuxandroid*)
      OS_TARGET=Android
      AC_DEFINE(LINUX)
      ;;
  *-linux*)
      AC_DEFINE(LINUX)
      ;;
  esac
  CFLAGS="$CFLAGS -Wall"
  CXXFLAGS="$CXXFLAGS -Wall"
  MDCPUCFG_H=_linux.cfg
  PR_MD_CSRCS=linux.c
  MKSHLIB='$(CC) $(DSO_LDOPTS) -o $@'
  DSO_CFLAGS=-fPIC
  DSO_LDOPTS='-shared -Wl,-soname -Wl,$(notdir $@)'
  _OPTIMIZE_FLAGS=-O2
  _DEBUG_FLAGS="-g -fno-inline"  # most people on linux use gcc/gdb, and that
                                 # combo is not yet good at debugging inlined
                                 # functions (even when using DWARF2 as the
                                 # debugging format)
  COMPILER_TAG=_glibc
```

```
    if echo "$OS_TEST" | grep -c 86 >/dev/null; then
        CPU_ARCH=x86
    else
        CPU_ARCH=$OS_TEST
    fi
    CPU_ARCH_TAG=_${CPU_ARCH}
    case "${target_cpu}" in
    alpha)
        AC_DEFINE(_ALPHA_)
        AC_DEFINE(__alpha)
        CFLAGS="$CFLAGS -mieee"
        CXXFLAGS="$CXXFLAGS -mieee"
        ;;
    i*86)
        AC_DEFINE(i386)
        PR_MD_ASFILES=os_Linux_x86.s
        ;;
    ia64)
        PR_MD_ASFILES=os_Linux_ia64.s
        ;;
    x86_64)
        if test -n "$USE_X32"; then
            AC_DEFINE(i386)
            PR_MD_ASFILES=os_Linux_x86_64.s
            CC="$CC -mx32"
            CXX="$CXX -mx32"
        else
            PR_MD_ASFILES=os_Linux_x86_64.s
        fi
        ;;
    ppc|powerpc)
        PR_MD_ASFILES=os_Linux_ppc.s
        ;;
    powerpc64)
        if test -n "$USE_N32"; then
            PR_MD_ASFILES=os_Linux_ppc.s
        else
            CC="$CC -m64"
            CXX="$CXX -m64"
        fi
        ;;
    esac
    ;;

*-mingw*|*-msys*|*-cygwin*|*-mks*)
    AC_DEFINE(XP_PC)
    AC_DEFINE(WIN32)
    PR_MD_ARCH_DIR=windows
    RESOLVE_LINK_SYMBOLS=1

    if test -n "$GNU_CC"; then
        CC="$CC -mwindows"
        CXX="$CXX -mwindows"
        DLL_SUFFIX=dll
        MKSHLIB='$(CC) -shared -Wl,--export-all-symbols -Wl,--out-implib -Wl,$(IMPORT_LIBRARY) $(DLLBASE) -o $(subst
$(OBJDIR)/,,$(SHARED_LIBRARY))'
        RC=$WINDRES
        # Use temp file for windres (bug 213281)
        RCFLAGS='-O coff --use-temp-file'
    else
        LD=link
        AR='lib -NOLOGO -OUT:"$@"'
        AR_FLAGS=
        RANLIB='echo not_ranlib'
        STRIP='echo not_strip'
        RC=rc.exe
        GARBAGE='$(OBJDIR)/vc20.pdb $(OBJDIR)/vc40.pdb'
        OBJ_SUFFIX=obj
        LIB_SUFFIX=lib
        DLL_SUFFIX=dll

        # Determine compiler version
        changequote(,)
        _MSVC_VER_FILTER='s|.* \([0-9]\+\.[0-9]\+\.[0-9]\+\(\.[0-9]\+\)\?\).*|\1|p'
        changequote([,])
        CC_VERSION=`${CC} -v 2>&1 | sed -ne "$_MSVC_VER_FILTER"`
        if test -z "$CC_VERSION"; then
            AC_MSG_ERROR([Could not determine MSC version.])
        fi

        _CC_MAJOR_VERSION=`echo ${CC_VERSION} | awk -F\. '{ print $1 }'`
        _CC_MINOR_VERSION=`echo ${CC_VERSION} | awk -F\. '{ print $2 }'`
        _CC_RELEASE=`echo ${CC_VERSION} | awk -F\. '{ print $3 }'`
```

```
_CC_BUILD=`echo ${CC_VERSION} | awk -F\. '{ print $4 }'`
MSC_VER=${_CC_MAJOR_VERSION}${_CC_MINOR_VERSION}

if test "$_CC_MAJOR_VERSION" -eq "14"; then
  dnl -DYNAMICBASE is only supported on VC8SP1 or newer,
  dnl so be very specific here!
  dnl VC8 is 14.00.50727.42, VC8SP1 is 14.00.50727.762
  if test $_CC_RELEASE -gt 50727; then
    _USE_DYNAMICBASE=1
  elif test $_CC_BUILD -ge 762; then
    _USE_DYNAMICBASE=1
  fi
  AC_DEFINE(_CRT_SECURE_NO_DEPRECATE)
  AC_DEFINE(_CRT_NONSTDC_NO_DEPRECATE)
elif test $_CC_MAJOR_VERSION -ge 15; then
  _USE_DYNAMICBASE=1
  AC_DEFINE(_CRT_SECURE_NO_WARNINGS)
  AC_DEFINE(_CRT_NONSTDC_NO_WARNINGS)
fi

if test -n "$_USE_DYNAMICBASE"; then
  DLLFLAGS="$DLLFLAGS -DYNAMICBASE"
fi

# Ensure that mt is Microsoft (R) Manifest Tool and not magnetic
# tape manipulation utility (or something else)
if test "$MSC_VER" -ge "1400"; then
   changequote(,)
   _MSMT_VER_FILTER='s|.* \([0-9][0-9]*\.[0-9][0-9]*\.[0-9][0-9]*\.[0-9][0-9]*\).*|\1|p'
   changequote([,])

   MSMT_TOOL=`mt 2>&1|grep 'Microsoft (R) Manifest Tool'`
   if test -n "$MSMT_TOOL"; then
      MSMANIFEST_TOOL_VERSION=`echo ${MSMT_TOOL}|sed -ne "$_MSMT_VER_FILTER"`
      if test -z "$MSMANIFEST_TOOL_VERSION"; then
         AC_MSG_WARN([Unknown version of the Microsoft (R) Manifest Tool.])
      fi
      MT=mt
      unset MSMT_TOOL
   else
      AC_MSG_ERROR([Microsoft (R) Manifest Tool must be in your \$PATH.])
   fi
fi

CFLAGS="$CFLAGS -W3 -nologo -GF -Gy"
DLLFLAGS="$DLLFLAGS -OUT:\"\$@\""
_DEBUG_FLAGS=-Zi
_OPTIMIZE_FLAGS=-O2

PROFILE_GEN_CFLAGS="-GL"
PROFILE_GEN_LDFLAGS="-LTCG:PGINSTRUMENT"
PROFILE_USE_CFLAGS="-GL -wd4624 -wd4952"
PROFILE_USE_LDFLAGS="-LTCG:PGUPDATE"

if test "$MSC_VER" -ge "1800"; then
   dnl Visual C++ 2013 requires -FS when parallel building with
   dnl make -jN. If not specified, compiler sometimes emits C1041
   dnl error.
   CFLAGS="$CFLAGS -FS"
   dnl -Gw can benefit when using linker optimization on PGO.
   dnl http://blogs.msdn.com/b/vcblog/archive/2013/09/11/introducing-gw-compiler-switch.aspx
   PROFILE_GEN_CFLAGS="$PROFILE_GEN_CFLAGS -Gw"
   PROFILE_USE_CFLAGS="$PROFILE_USE_CFLAGS -Gw"
fi

if test -z "$MOZ_OPTIMIZE"; then
   CFLAGS="$CFLAGS -Od"
fi

if test "$USE_DEBUG_RTL" = 1; then
   if test -n "$USE_STATIC_RTL"; then
      CFLAGS="$CFLAGS -MTd"
   else
      CFLAGS="$CFLAGS -MDd"
   fi
else
   if test -n "$USE_STATIC_RTL"; then
      CFLAGS="$CFLAGS -MT"
   else
      CFLAGS="$CFLAGS -MD"
   fi
fi
```

```
        if test -n "$MOZ_DEBUG"; then
            AC_DEFINE(_DEBUG)
        else
            DEFINES="$DEFINES -U_DEBUG"
        fi

        if test -n "$MOZ_DEBUG_SYMBOLS"; then
            if test -n "$MOZ_OPTIMIZE"; then
                DLLFLAGS="$DLLFLAGS -DEBUG -OPT:REF"
                LDFLAGS="$LDFLAGS -DEBUG -OPT:REF"
            else
                DLLFLAGS="$DLLFLAGS -DEBUG"
                LDFLAGS="$LDFLAGS -DEBUG"
            fi
        fi

        OS_DLLFLAGS="-nologo -DLL -SUBSYSTEM:WINDOWS"
        if test "$MSC_VER" -le "1200" -a -z "$MOZ_DEBUG_SYMBOLS"; then
            OS_DLLFLAGS="$OS_DLLFLAGS -PDB:NONE"
        fi

        if test "$OS_TARGET" = "WINNT"; then
            CFLAGS="$CFLAGS -GT"
            LIBNSPR='$(dist_libdir)/libnspr$(MOD_MAJOR_VERSION).$(LIB_SUFFIX)'
            LIBPLC='$(dist_libdir)/libplc$(MOD_MAJOR_VERSION).$(LIB_SUFFIX)'
        else
            LIBNSPR='$(dist_libdir)/nspr$(MOD_MAJOR_VERSION).$(LIB_SUFFIX)'
            LIBPLC='$(dist_libdir)/plc$(MOD_MAJOR_VERSION).$(LIB_SUFFIX)'
        fi
    fi # GNU_CC

    if test -n "$USE_STATIC_TLS"; then
        AC_DEFINE(_PR_USE_STATIC_TLS)
    fi

    if test "$OS_TARGET" = "WINNT"; then
        AC_DEFINE(WINNT)
    else
        AC_DEFINE(WIN95)
        # undefine WINNT as some versions of mingw gcc define it by default
        DEFINES="$DEFINES -UWINNT"
        AC_DEFINE(_PR_GLOBAL_THREADS_ONLY)
    fi

    if test "$CPU_ARCH" = "x86"; then
        CPU_ARCH_TAG=
    else
        CPU_ARCH_TAG=$CPU_ARCH
    fi

    if test "$USE_DEBUG_RTL" = 1; then
        OBJDIR_SUFFIX=OBJD
    fi

    case "$OS_TARGET" in
    WINNT)
     MDCPUCFG_H=_winnt.cfg
     ;;
    WIN95)
     MDCPUCFG_H=_win95.cfg
     ;;
    *)
     AC_MSG_ERROR([Missing OS_TARGET for ${target}.  Use --enable-win32-target to set.])
    ;;
    esac

    case "$target_cpu" in
    i*86)
  if test -n "$USE_64"; then
     AC_DEFINE(_AMD64_)
  else
     AC_DEFINE(_X86_)
            if test -z "$GNU_CC" -a "$MSC_VER" -ge "1700"; then
                dnl Visual C++ 2012 defaults to -arch:SSE2. Use -arch:IA32
                dnl to avoid requiring SSE2.
                CFLAGS="$CFLAGS -arch:IA32"
            fi
  fi
        ;;
    x86_64)
     AC_DEFINE(_AMD64_)
     USE_64=1
     ;;
```

```
    ia64)
     AC_DEFINE(_IA64_)
     USE_64=1
     ;;
    *)
     AC_DEFINE(_CPU_ARCH_NOT_DEFINED)
     ;;
    esac
    ;;

*-netbsd*)
    AC_DEFINE(XP_UNIX)
    AC_DEFINE(NETBSD)
    AC_DEFINE(HAVE_BSD_FLOCK)
    AC_DEFINE(HAVE_SOCKLEN_T)
    if test -z "$USE_NSPR_THREADS"; then
        USE_PTHREADS=1
    fi
    MDCPUCFG_H=_netbsd.cfg
    PR_MD_CSRCS=netbsd.c

    DSO_CFLAGS='-fPIC -DPIC'
    CFLAGS="$CFLAGS -ansi -Wall"
    CXXFLAGS="$CXXFLAGS -ansi -Wall"
    MKSHLIB='$(CC) -o $@ $(DSO_LDOPTS)'

    if test -z "$OBJECT_FMT"; then
        if echo __ELF__ | ${CC-cc} -E - | grep -q __ELF__ 2>/dev/null; then
            OBJECT_FMT=a.out
            DLL_SUFFIX=so.1.0
            DSO_LDOPTS='-shared'
        else
            OBJECT_FMT=ELF
            DLL_SUFFIX=so
            DSO_LDOPTS='-shared -Wl,-soname,$(notdir $@)'
        fi
    fi

    if test "$LIBRUNPATH"; then
        DSO_LDOPTS="$DSO_LDOPTS -Wl,-R$LIBRUNPATH"
    fi
    ;;

*-nto*)
    AC_DEFINE(XP_UNIX)
    AC_DEFINE(NTO)
    AC_DEFINE(_QNX_SOURCE)
    AC_DEFINE(HAVE_POINTER_LOCALTIME_R)
    MDCPUCFG_H=_nto.cfg
    PR_MD_CSRCS=nto.c
    MKSHLIB='$(CC) $(DSO_LDOPTS) -Wl,-soname -Wl,$(notdir $@) -o $@'
    DSO_CFLAGS=-fPIC
    DSO_LDOPTS=-shared
    OS_LIBS="$OS_LIBS -lsocket"
    _OPTIMIZE_FLAGS="-O1"
    _DEBUG_FLAGS="-gstabs"
  ;;

*-openbsd*)
    AC_DEFINE(XP_UNIX)
    AC_DEFINE(OPENBSD)
    AC_DEFINE(HAVE_BSD_FLOCK)
    AC_DEFINE(HAVE_SOCKLEN_T)
    CFLAGS="$CFLAGS -ansi -Wall"
    CXXFLAGS="$CXXFLAGS -ansi -Wall"
    DLL_SUFFIX=so.1.0
    DSO_CFLAGS=-fPIC
    MDCPUCFG_H=_openbsd.cfg
    PR_MD_CSRCS=openbsd.c
    OS_LIBS="-lc"
    if test -z "$USE_NSPR_THREADS"; then
        USE_PTHREADS=1
    fi
    DSO_LDOPTS='-shared -fPIC -Wl,-soname,$(notdir $@)'
    MKSHLIB='$(CC) $(DSO_LDOPTS) -o $@'
    ;;

*-osf*)
    SHELL_OVERRIDE="SHELL  = /usr/bin/ksh"
    AC_DEFINE(XP_UNIX)
    AC_DEFINE(OSF1)
    AC_DEFINE(_REENTRANT)
    # OSF1 and HPUX report the POLLHUP event for a socket when the
```

```
    # shutdown(SHUT_WR) operation is called for the remote end, even though
    # the socket is still writeable. Use select(), instead of poll(), to
    # workaround this problem.
    AC_DEFINE(_PR_POLL_WITH_SELECT)

    if echo "$OS_RELEASE" | egrep -c '(V2.0|V3.2)' 2>/dev/null ; then
        USE_NSPR_THREADS=1
    fi

    if test -z "$GNU_CC"; then
        CC="$CC -std1 -ieee_with_inexact"
        if test "$OS_RELEASE" != "V2.0"; then
            CC="$CC -readonly_strings"
        fi
        _OPTIMIZE_FLAGS="$_OPTIMIZE_FLAGS -Olimit 4000"
        AC_CHECK_HEADER(machine/builtins.h, AC_DEFINE(OSF1_HAVE_MACHINE_BUILTINS_H))
    else
        CFLAGS="$CFLAGS -mieee"
        CXXFLAGS="$CXXFLAGS -mieee"
    fi

    if echo $OS_RELEASE | egrep -c '(V2.0|V3.2)' 2>/dev/null; then
        AC_DEFINE(HAVE_INT_LOCALTIME_R)
    else
        AC_DEFINE(HAVE_FCNTL_FILE_LOCKING)
        AC_DEFINE(HAVE_POINTER_LOCALTIME_R)
    fi
    if echo $OS_RELEASE | grep -c V4.0 >/dev/null; then
        AC_DEFINE(OSF1V4_MAP_PRIVATE_BUG)
    fi
    DSO_LDOPTS='-shared -all -expect_unresolved "*" -soname $(notdir $@)'
    MDCPUCFG_H=_osf1.cfg
    PR_MD_CSRCS=osf1.c
    ;;

*-qnx*)
    AC_DEFINE(XP_UNIX)
    AC_DEFINE(QNX)
    AC_DEFINE(_PR_NEED_H_ERRNO)
    USE_NSPR_THREADS=1
    MDCPUCFG_H=_qnx.cfg
    PR_MD_CSRCS=qnx.c
    ;;

*-riscos*)
    AC_DEFINE(XP_UNIX)
    AC_DEFINE(RISCOS)
    AC_DEFINE(_PR_NEED_H_ERRNO)
    USE_PTHREADS=1
    MDCPUCFG_H=_riscos.cfg
    PR_MD_CSRCS=riscos.c
    DSO_CFLAGS=-fPIC
    DSO_LDOPTS='-shared -Wl,-soname -Wl,$(notdir $@)'
    MKSHLIB='$(CC) $(DSO_LDOPTS) -o $@'
    ;;

*-*-sco*)
    AC_DEFINE(XP_UNIX)
    AC_DEFINE(SCO)
    AC_DEFINE(sco)
    AC_DEFINE(SYSV)
    AC_DEFINE(_SVID3)
    AC_DEFINE(_PR_NEED_H_ERRNO)
    CC='cc -b elf -KPIC'
    CXX='$(NSDEPTH)/build/hcpp CC +.cpp +w'
    USE_NSPR_THREADS=1
    CPU_ARCH=x86
    DSO_LDOPTS='-b elf -G'
    MDCPUCFG_H=_scoos.cfg
    PR_MD_SRCS=scoos.c
    ;;

*-solaris*)
    if test -z "$USE_NSPR_THREADS"; then
        USE_PTHREADS=1
    fi
    AC_DEFINE(XP_UNIX)
    AC_DEFINE(SVR4)
    AC_DEFINE(SYSV)
    AC_DEFINE(__svr4)
    AC_DEFINE(__svr4__)
    AC_DEFINE(SOLARIS)
    AC_DEFINE(HAVE_FCNTL_FILE_LOCKING)
```

```
CPU_ARCH=`uname -p`
MDCPUCFG_H=_solaris.cfg
PR_MD_CSRCS=solaris.c
LD=/usr/ccs/bin/ld
MKSHLIB='$(CC) $(DSO_LDOPTS) -o $@'
RESOLVE_LINK_SYMBOLS=1
case "${OS_RELEASE}" in
5.8|5.9)
    ;;
*)
    # It is safe to use the -Bdirect linker flag on Solaris 10 or later.
    USE_B_DIRECT=1
    ;;
esac
if test -n "$GNU_CC"; then
    DSO_CFLAGS=-fPIC
    if `$CC -print-prog-name=ld` -v 2>&1 | grep -c GNU >/dev/null; then
        GCC_USE_GNU_LD=1
    fi
    DSO_LDOPTS='-shared -Wl,-h,$(notdir $@),-z,combreloc,-z,defs,-z,ignore'
    if test -n "$USE_B_DIRECT"; then
        DSO_LDOPTS="$DSO_LDOPTS,-Bdirect"
    fi
else
    DSO_CFLAGS=-KPIC
    DSO_LDOPTS='-G -h $(notdir $@) -z combreloc -z defs -z ignore'
    if test -n "$USE_B_DIRECT"; then
        DSO_LDOPTS="$DSO_LDOPTS -Bdirect"
    fi
fi
if test -n "$GNU_CC"; then
    CFLAGS="$CFLAGS -Wall"
    CXXFLAGS="$CXXFLAGS -Wall"
    if test -n "$USE_MDUPDATE"; then
        CFLAGS="$CFLAGS -MDupdate \$(DEPENDENCIES)"
        CXXFLAGS="$CXXFLAGS -MDupdate \$(DEPENDENCIES)"
    fi
    GCC_AS=`$CC -print-prog-name=as`
    if test "`echo | $GCC_AS -v 2>&1 | grep -c GNU`" != "0"; then
        GNU_AS=1
    fi
else
    CFLAGS="$CFLAGS -xstrconst"
    CXXFLAGS="$CXXFLAGS -Qoption cg -xstrconst -features=tmplife"
    if test -z "$MOZ_OPTIMIZE"; then
        CFLAGS="$CFLAGS -xs"
        CXXFLAGS="$CXXFLAGS -xs"
    fi
    _OPTIMIZE_FLAGS=-xO4
fi
if test -z "$GNU_AS"; then
    ASFLAGS="$ASFLAGS -Wa,-P"
fi
if test -n "$USE_64"; then
    if test -n "$GNU_CC"; then
        CC="$CC -m64"
        CXX="$CXX -m64"
    else
        if test "$OS_TEST" = "i86pc"; then
            CC="$CC -xarch=amd64"
            CXX="$CXX -xarch=amd64"
        else
            CC="$CC -xarch=v9"
            CXX="$CXX -xarch=v9"
        fi
    fi
fi
if test "$OS_TEST" = "i86pc"; then
    if test -z "$USE_64"; then
        AC_DEFINE(i386)
    fi
    CPU_ARCH_TAG=_$OS_TEST
    # The default debug format, DWARF (-g), is not supported by gcc
    # on i386-ANY-sysv4/solaris, but the stabs format is.  It is
    # assumed that the Solaris assembler /usr/ccs/bin/as is used.
    # If your gcc uses GNU as, you do not need the -Wa,-s option.
    if test -n "$MOZ_DEBUG" && test -n "$GNU_CC"; then
        _DEBUG_FLAGS=-gstabs
        if test -z "$GNU_AS"; then
            _DEBUG_FLAGS="$_DEBUG_FLAGS -Wa,-s"
        fi
    fi
fi
```

```
    case "${target_os}" in
    solaris2.3*)
        AC_DEFINE(_PR_NO_LARGE_FILES)
        ;;
    solaris2.4*)
        AC_DEFINE(_PR_NO_LARGE_FILES)
        ;;
    solaris2.5*)
        AC_DEFINE(SOLARIS2_5)
        ;;
    *)
        AC_DEFINE(_PR_HAVE_OFF64_T)
        # The lfcompile64(5) man page on Solaris 2.6 says:
        #     For applications that do not wish to conform to the POSIX or
        #     X/Open  specifications,  the  64-bit transitional interfaces
        #     are available by default.  No compile-time flags need to  be
        #     set.
        # But gcc 2.7.2.x fails to define _LARGEFILE64_SOURCE by default.
        # The native compiler, gcc 2.8.x, and egcs don't have this problem.
        if test -n "$GNU_CC"; then
            AC_DEFINE(_LARGEFILE64_SOURCE)
        fi
        ;;
    esac
    case "${target_os}" in
    solaris2.3*)
        ;;
    solaris2.4*)
        ;;
    solaris2.5*)
        ;;
    solaris2.6*)
        ;;
    solaris2.7*)
        ;;
    *)
        # Solaris 8 or higher has IPv6.
        AC_DEFINE(_PR_INET6)
        ;;
    esac
    if test "$CPU_ARCH" = "sparc"; then
        # 64-bit Solaris SPARC requires V9 architecture, so the following
        # is not needed.
        if test -z "$USE_64"; then
            ULTRASPARC_LIBRARY=nspr_flt
        fi
    fi
    # Purify requires that binaries linked against nspr also
    # be linked against -lrt (or -lposix4) so add it to OS_LIBS
    _rev=`uname -r`
    _librt=`echo $_rev 5.6 | awk '{ if ($1 > $2) print "-lrt"; else print "-lposix4" }'`
    OS_LIBS="$OS_LIBS $_librt"
    ;;

*-sco-sysv5*)
    AC_DEFINE(XP_UNIX)
    AC_DEFINE(UNIXWARE)
    AC_DEFINE(SVR4)
    AC_DEFINE(SYSV)
    USE_NSPR_THREADS=1
    if echo $OS_RELEASE | grep -c 2.1 2>/dev/null; then
        AC_DEFINE(_PR_NO_LARGE_FILES)
        CC='$(NSDEPTH)/build/hcc cc'
        CXX='$(NSDEPTH)/build/hcpp CC'
        MDCPUCFG_H=_unixware.cfg
    else
        AC_DEFINE(_LARGEFILE64_SOURCE)
        AC_DEFINE(_PR_HAVE_OFF64_T)
        AC_DEFINE(_PR_HAVE_SOCKADDR_LEN)
        MDCPUCFG_H=_unixware7.cfg
    fi
    PR_MD_CSRCS=unixware.c
    DSO_LDOPTS=-G
    CPU_ARCH=x86
    ;;

*-symbian*)
    AC_ARG_WITH(symbian-sdk,
    [  --with-symbian-sdk=SYMBIAN_SDK_DIR
                        The path to the Symbian SDK],
    SYMBIAN_SDK_DIR=$withval)

    echo ----------------------------------------------------------------------
```

```
    echo Building with Symbian SDK in: $SYMBIAN_SDK_DIR
    echo ----------------------------------------------------------------------

    AC_DEFINE(XP_UNIX)
    AC_DEFINE(SYMBIAN)
    AC_DEFINE(__arm__)
    AC_DEFINE(__SYMBIAN32__)
    AC_DEFINE(_UNICODE)
    AC_DEFINE(NDEBUG)
    AC_DEFINE(__SUPPORT_CPP_EXCEPTIONS__)
    AC_DEFINE(MOZ_STDERR_TO_STDOUT)
    AC_DEFINE(HAVE_FCNTL_FILE_LOCKING)
    AC_DEFINE(HAVE_SOCKLEN_T)
    USE_PTHREADS=1
    LIB_SUFFIX=lib
    DLL_SUFFIX=dll
    MKSHLIB=
    DSO_LDOPTS=
    DSO_CFLAGS=
    VISIBILITY_FLAGS=
    MDCPUCFG_H=_symbian.cfg
    PR_MD_CSRCS=symbian.c
    NSINSTALL=nsinstall
    RANLIB='echo no ranlib '
    CPU_ARCH=ARM
    OS_ARCH=SYMBIAN
    OS_EXE_CFLAGS="$OS_EXE_CFLAGS -D__EXE__"
    CFLAGS="$CFLAGS -MD -nostdinc"
    SYMBIAN_SYS_INCLUDE="-I$SYMBIAN_SDK_DIR/Epoc32/include/variant -I$SYMBIAN_SDK_DIR/Epoc32/include
-I$SYMBIAN_SDK_DIR/Epoc32/include/stdapis"
    echo -----------------------------------------------------
    echo SYMBIAN_SYS_INCLUDE is: $SYMBIAN_SYS_INCLUDE
    echo -----------------------------------------------------
    case "$OS_TARGET" in
    WINSCW)
        CC=mwccsym2.exe
        CXX=mwccsym2.exe
        LD=mwldsym2.exe
        AR=mwldsym2.exe
        WINSCW_LD_DIR="\$(SYMBIAN_SDK_DIR)/EPOC32/RELEASE/WINSCW/UDEB"
        CFLAGS="$CFLAGS -O0 -inline off -wchar_t off -align 4 -warnings on -w nohidevirtual,nounusedexpr -msgstyle gcc -enum int -str pool -exc ms
-trigraphs on -nostderr -gccdep -cwd source -i- -I\$(VPATH)"
        SYMBIAN_SYS_INCLUDE="$SYMBIAN_SYS_INCLUDE -include Symbian_OS_v9.2.hrh"
        AR_FLAGS="-library -msgstyle gcc -stdlib -subsystem windows -noimplib -o \$@"
        AC_DEFINE(_DEBUG)
        AC_DEFINE(__CW32__)
        AC_DEFINE(__WINS__)
        AC_DEFINE(__WINSCW__)
        DEFINES="$DEFINES -U_WIN32"
     ;;
    GCCE)
        CFLAGS="$CFLAGS -Wall -Wno-unknown-pragmas -fexceptions -march=armv5t -mapcs -pipe -x c -msoft-float"
        CXXFLAGS="$CXXFLAGS $CFLAGS -Wno-ctor-dtor-privacy"
        SYMBIAN_SYS_INCLUDE="$SYMBIAN_SYS_INCLUDE -include $SYMBIAN_SDK_DIR/EPOC32/INCLUDE/GCCE/GCCE.h"
        AC_DEFINE(__GCCE__)
        AC_DEFINE(__EABI__)
        DEFINES="$DEFINES -D__PRODUCT_INCLUDE__=$SYMBIAN_SDK_DIR/Epoc32/include/variant/Symbian_OS_v9.2.hrh"
     ;;
    *)
     AC_MSG_ERROR([Missing OS_TARGET for ${target}. Set --enable-symbian-target to with 'WINSCW' or 'GCCE'.])
    ;;
    esac
    CFLAGS="$CFLAGS ${SYMBIAN_SYS_INCLUDE}"
    ;;

*-os2*)
    AC_DEFINE(XP_OS2)
    AC_DEFINE(XP_PC)
    AC_DEFINE(BSD_SELECT)
    AC_DEFINE(TCPV40HDRS)
    LIB_SUFFIX=lib
    DLL_SUFFIX=dll
    RC=rc.exe
    PR_MD_ARCH_DIR=os2
    PROG_SUFFIX=.exe
    NSINSTALL=nsinstall
    MDCPUCFG_H=_os2.cfg
    RESOLVE_LINK_SYMBOLS=1

    AC_DEFINE(OS2)
    AR=emxomfar
    AR_FLAGS='r $@'
    CFLAGS="$CFLAGS -Wall -Zomf"
```

```
    CXXFLAGS="$CFLAGS -Wall -Zomf"
    MKSHLIB='$(CC) $(DSO_LDOPTS) -o $@'
    DSO_CFLAGS=
    DSO_LDOPTS='-Zomf -Zdll'
    LDFLAGS='-Zmap'
    _OPTIMIZE_FLAGS="-O2 -s"
    _DEBUG_FLAGS="-g -fno-inline"
    if test -n "$MOZ_OPTIMIZE"; then
      DSO_LDOPTS="$DSO_LDOPTS -Zlinker /EXEPACK:2 -Zlinker /PACKCODE -Zlinker /PACKDATA"
    fi
    IMPLIB='emximp -o'
    FILTER='emxexp -o'
    if test -n "$MOZ_OS2_HIGH_MEMORY"; then
      LDFLAGS="$LDFLAGS -Zhigh-mem"
      AC_DEFINE(MOZ_OS2_HIGH_MEMORY)
    fi

    # GCC for OS/2 currently predefines these, but we don't want them
    DEFINES="$DEFINES -Uunix -U__unix -U__unix__"
    ;;

*)
    AC_DEFINE(XP_UNIX)
    ;;

esac

if test -z "$SKIP_LIBRARY_CHECKS"; then
dnl =======================================================
dnl Check for system libraries
dnl =======================================================


dnl We don't want anything to link with libdl even if it's present on OS X,
dnl since it's not used and not part of the default installation.
dnl The same goes for BeOS.
dnl OS/2 has dlfcn in libc.

case $target in
*-darwin*|*-beos*|*-os2*)
    ;;
*)
    AC_CHECK_LIB(dl, dlopen,
        [AC_CHECK_HEADER(dlfcn.h,
            OS_LIBS="-ldl $OS_LIBS")])
    ;;
esac


dnl =======================================================
dnl Check for system header files.
dnl =======================================================

dnl =======================================================
dnl Check for typedefs and structs
dnl =======================================================

dnl =======================================================
dnl Checks for library functions.
dnl =======================================================
AC_PROG_GCC_TRADITIONAL
_SAVE_LIBS="$LIBS"
LIBS="$LIBS $OS_LIBS"
AC_CHECK_FUNCS(dladdr gettid lchown setpriority strerror syscall dnl
 secure_getenv __secure_getenv)
LIBS="$_SAVE_LIBS"

dnl =======================================================
dnl Check options
dnl =======================================================

dnl ======================================================
dnl = Enable compiling with ccache
dnl ======================================================
AC_ARG_WITH(ccache,
[  --with-ccache[=path/to/ccache]
                          Enable compiling with ccache],
    CCACHE=$withval, CCACHE="no")

if test "$CCACHE" != "no"; then
    if test -n "$CCACHE"; then
        if test "$CCACHE" = "yes"; then
            CCACHE=
```

```
        else
            if test ! -e "$CCACHE"; then
                AC_MSG_ERROR([$CCACHE not found])
            fi
        fi
    fi
    AC_PATH_PROGS(CCACHE, $CCACHE ccache)
    if test -z "$CCACHE" -o "$CCACHE" = ":"; then
        AC_MSG_ERROR([ccache not found])
    elif test -x "$CCACHE"; then
        CC="$CCACHE $CC"
        CXX="$CCACHE $CXX"
    else
        AC_MSG_ERROR([$CCACHE is not executable])
    fi
fi

dnl ===========================================================
dnl =
dnl = --enable-strip
dnl =
dnl = Enable stripping of libs and executables
dnl =
dnl ===========================================================
AC_ARG_ENABLE(strip,
    [  --enable-strip          Enable stripping of shared libs and programs],
    [ if test "$enableval" = "yes"; then
     ENABLE_STRIP=1
      fi ])

dnl Check for hpux options
case "${target_os}" in
hpux*)
if test -z "$GNU_CC"; then

    AC_CACHE_CHECK(for +Olit support,
        ac_cv_hpux_usable_olit_option,
        dnl since aCC doesn't throw an error on invalid options,
        dnl we have to test this the hard way
        [ac_cv_hpux_usable_olit_option=no
        rm -f conftest*
        echo 'int main() { return 0; }' | cat > conftest.c
        ${CC-cc} ${CFLAGS} +Olit=all -o conftest conftest.c > conftest.out 2>&1
        if test $? -eq 0; then
            if test -z "`egrep -i '(unrecognize|unknown)' conftest.out`"; then
                ac_cv_hpux_usable_olit_option=yes
            fi
        fi
        rm -f conftest*
        ])

    if test "$ac_cv_hpux_usable_olit_option" = "yes"; then
        CFLAGS="$CFLAGS +Olit=all"
        CXXFLAGS="$CXXFLAGS +Olit=all"
    else
        CFLAGS="$CFLAGS +ESlit"
        CXXFLAGS="$CXXFLAGS +ESlit"
    fi
fi
;;
esac

case "$target_os" in
darwin*)
    _HAVE_PTHREADS=1
    ;;
*)
    AC_CHECK_LIB(pthreads, pthread_create,
        _HAVE_PTHREADS=1 _PTHREAD_LDFLAGS="-lpthreads",
        AC_CHECK_LIB(pthread, pthread_create,
            _HAVE_PTHREADS=1 _PTHREAD_LDFLAGS="-lpthread",
            AC_CHECK_LIB(c_r, pthread_create,
                _HAVE_PTHREADS=1 _PTHREAD_LDFLAGS="-lc_r",
                AC_CHECK_LIB(c, pthread_create,
                    _HAVE_PTHREADS=1
                )
            )
        )
    )
    ;;
esac

AC_ARG_WITH(pthreads,
```

```
    [  --with-pthreads         Use system pthreads library as thread subsystem],
    [ if test "$withval" = "yes"; then
     if test -n "$_HAVE_PTHREADS"; then
      USE_PTHREADS=1
      USE_USER_PTHREADS=
      USE_NSPR_THREADS=
     else
      AC_MSG_ERROR([ --with-pthreads specified for a system without pthread support ]);
     fi
   else
     USE_PTHREADS=
     _PTHREAD_LDFLAGS=
   fi],
 [ if test -n "$_HAVE_PTHREADS" && test -z "$USE_USER_PTHREADS" && test -z "$USE_NSPR_THREADS"; then
     USE_PTHREADS=1
     USE_USER_PTHREADS=
     USE_NSPR_THREADS=
   fi])

AC_ARG_ENABLE(user-pthreads,
    [  --enable-user-pthreads  Build using userland pthreads],
    [ if test "$enableval" = "yes"; then
        if test -n "$_HAVE_PTHREADS"; then
      USE_PTHREADS=
      USE_USER_PTHREADS=1
      USE_NSPR_THREADS=
     else
      AC_MSG_ERROR([ --enable-user-pthreads specified for a system without pthread support ]);
     fi
   fi])

AC_ARG_ENABLE(nspr-threads,
    [  --enable-nspr-threads   Build using classic nspr threads],
    [ if test "$enableval" = "yes"; then
     USE_PTHREADS=
     USE_USER_PTHREADS=
     USE_NSPR_THREADS=1
   fi])

case "$target" in
*-beos*)
    AC_ARG_WITH(bthreads,
    [  --with-bthreads         Use system bthreads library as thread subsystem
                          (BeOS only)],
    [ if test "$withval" = "yes"; then
        USE_BTHREADS=1
        USE_USER_PTHREADS=
        USE_PTHREADS=
     fi])
    ;;
esac

fi # SKIP_LIBRARY_CHECKS

AC_ARG_ENABLE(ipv6,
    [  --enable-ipv6           Compile ipv6 support],
    [ if test "$enableval" = "yes"; then
     USE_IPV6=1
      else
     USE_IPV6=
      fi])

if test -n "$USE_PTHREADS"; then
   dnl See if -pthread is supported.
   rm -f conftest*
   ac_cv_have_dash_pthread=no
   AC_MSG_CHECKING(whether ${CC-cc} accepts -pthread)
   echo 'int main() { return 0; }' | cat > conftest.c
   ${CC-cc} -pthread -o conftest conftest.c > conftest.out 2>&1
   if test $? -eq 0; then
 if test -z "`egrep -i '(unrecognize|unknown)' conftest.out | grep pthread`" && test -z "`egrep -i '(error|incorrect)' conftest.out`" ; then
     ac_cv_have_dash_pthread=yes
  case "$target_os" in
     freebsd*)
# Freebsd doesn't use -pthread for compiles, it uses them for linking
            ;;
      *)
            CFLAGS="$CFLAGS -pthread"
            CXXFLAGS="$CXXFLAGS -pthread"
            ;;
        esac
 fi
    fi
```

```
    rm -f conftest*
    AC_MSG_RESULT($ac_cv_have_dash_pthread)

  dnl
  dnl See if -pthreads is supported.
  dnl
    ac_cv_have_dash_pthreads=no
    if test "$ac_cv_have_dash_pthread" = "no"; then
     AC_MSG_CHECKING(whether ${CC-cc} accepts -pthreads)
     echo 'int main() { return 0; }' | cat > conftest.c
     ${CC-cc} -pthreads -o conftest conftest.c > conftest.out 2>&1
     if test $? -eq 0; then
      if test -z "`egrep -i '(unrecognize|unknown)' conftest.out | grep pthreads`" && test -z "`egrep -i '(error|incorrect)' conftest.out`" ; then
       ac_cv_have_dash_pthreads=yes
       CFLAGS="$CFLAGS -pthreads"
       CXXFLAGS="$CXXFLAGS -pthreads"
      fi
     fi
     rm -f conftest*
     AC_MSG_RESULT($ac_cv_have_dash_pthreads)
    fi

    case "$target" in
    *-solaris*)
        if test "$ac_cv_have_dash_pthreads" = "yes"; then
            _PTHREAD_LDFLAGS=
        fi
     ;;
    *-freebsd*)
     AC_DEFINE(_REENTRANT)
     AC_DEFINE(_THREAD_SAFE)
     dnl -pthread links in -lc_r, so don't specify it explicitly.
     if test "$ac_cv_have_dash_pthread" = "yes"; then
        _PTHREAD_LDFLAGS="-pthread"
     else
        _PTHREAD_LDFLAGS="-lc_r"
     fi
     ;;
    *-netbsd*)
     if test "$ac_cv_have_dash_pthread" = "yes"; then
        _PTHREAD_LDFLAGS="-pthread"
     fi
     ;;
    *-bsdi*)
     AC_DEFINE(_THREAD_SAFE)
     dnl -pthread links in -lc_r, so don't specify it explicitly.
     if test "$ac_cv_have_dash_pthread" = "yes"; then
        _PTHREAD_LDFLAGS=
     fi
     ;;
    *-openbsd*)
        if test "$ac_cv_have_dash_pthread" = "yes"; then
            _PTHREAD_LDFLAGS=-pthread
        fi
        ;;
    *-linux*|*-gnu*|*-k*bsd*-gnu)
        AC_DEFINE(_REENTRANT)
        ;;
    esac

  else
    if test -n "$USE_USER_PTHREADS"; then
     USE_PTHREADS=
     USE_NSPR_THREADS=
    else
        _PTHREAD_LDFLAGS=
    fi
  fi
  dnl Special thread exceptions

  case "$target" in
  *-aix*)
    if test -n "$USE_NSPR_THREADS"; then
        AC_DEFINE(_PR_LOCAL_THREADS_ONLY)
    fi
    case "$target_os" in
    aix4.1*)
        if test -z "$USE_PTHREADS"; then
            AC_DEFINE(AIX_RENAME_SELECT)
        fi
        ;;
    aix4.2*)
        if test -z "$USE_NSPR_THREADS"; then
```

```
            AC_DEFINE(HAVE_POINTER_LOCALTIME_R)
        fi
        ;;
    aix4.3*)
        if test -z "$USE_NSPR_THREADS"; then
            AC_DEFINE(HAVE_POINTER_LOCALTIME_R)
        fi
        if test -n "$USE_PTHREADS"; then
            AC_DEFINE(_PR_HAVE_THREADSAFE_GETHOST)
        fi
        ;;
    *)
        if test -z "$USE_NSPR_THREADS"; then
            AC_DEFINE(HAVE_POINTER_LOCALTIME_R)
        fi
        if test -n "$USE_PTHREADS"; then
            AC_DEFINE(_PR_HAVE_THREADSAFE_GETHOST)
        fi
        ;;
    esac
    ;;
*-bsdi*)
    if test -n "$USE_PTHREADS"; then
        AC_DEFINE(_PR_NEED_PTHREAD_INIT)
    fi
    ;;
*-freebsd*)
    if test -n "$USE_NSPR_THREADS"; then
        AC_DEFINE(_PR_LOCAL_THREADS_ONLY)
    fi
    ;;
*-hpux*)
    if test -n "$USE_NSPR_THREADS"; then
        AC_DEFINE(_PR_LOCAL_THREADS_ONLY)
    fi
    if test "$USE_PTHREADS"; then
        if echo "$OS_RELEASE" | egrep '^(B.10.10|B.10.20)' >/dev/null; then
            AC_DEFINE(_REENTRANT)
            AC_DEFINE(_PR_DCETHREADS)
        else
            AC_DEFINE_UNQUOTED(_POSIX_C_SOURCE,199506L)
            AC_DEFINE(_PR_HAVE_THREADSAFE_GETHOST)
        fi
    fi
    if test "$USE_USER_PTHREADS"; then
        AC_DEFINE_UNQUOTED(_POSIX_C_SOURCE,199506L)
    fi
    ;;
*-irix*)
    if test "${target_os}" = "irix6.5"; then
        if test -n "$USE_PTHREADS"; then
            AC_DEFINE(_PR_HAVE_GETHOST_R)
            AC_DEFINE(_PR_HAVE_GETHOST_R_POINTER)
        fi
    fi
    ;;
*-linux*|*-gnu*|*-k*bsd*-gnu)
    if test -n "$USE_NSPR_THREADS"; then
        AC_DEFINE(_PR_LOCAL_THREADS_ONLY)
    fi
    ;;
*-mingw*|*-msys*|*-cygwin*|*-mks*|*-os2*|*-beos*)
    dnl win32, os2 & beos cannot use pthreads
    USE_PTHREADS=
    _PTHREAD_LDFLAGS=
    USE_USER_PTHREADS=
    ;;
*-netbsd*|*-openbsd*)
    if test -n "$USE_NSPR_THREADS"; then
        AC_DEFINE(_PR_LOCAL_THREADS_ONLY)
    fi
    ;;
*-osf*)
    if test -n "$USE_NSPR_THREADS"; then
        AC_DEFINE(_PR_LOCAL_THREADS_ONLY)
    fi
    if test -n "$USE_PTHREADS"; then
        if echo $OS_RELEASE | egrep -c '(V2.0|V3.2)' 2>/dev/null; then
            :
        else
            AC_DEFINE(_PR_HAVE_THREADSAFE_GETHOST)
        fi
    fi
```

```
    ;;
*-solaris*)
    if test -n "$USE_NSPR_THREADS"; then
        AC_DEFINE(_PR_LOCAL_THREADS_ONLY)
    fi
    if test -n "$USE_PTHREADS"; then
        AC_DEFINE(_REENTRANT)
        AC_DEFINE(HAVE_POINTER_LOCALTIME_R)
        if test "$OS_TEST" = "i86pc"; then
            if test -n "$USE_64"; then
                PR_MD_ASFILES=os_SunOS_x86_64.s
            else
                PR_MD_ASFILES=os_SunOS_x86.s
            fi
        else
            if test -n "$USE_64"; then
                 PR_MD_ASFILES=os_SunOS_sparcv9.s
            fi
        fi
    fi
    ;;
*-nto*)
    if test -n "$USE_PTHREADS"; then
        AC_DEFINE(_PR_HAVE_GETHOST_R)
        AC_DEFINE(_PR_HAVE_GETHOST_R_POINTER)
    fi
    ;;
esac

OS_LIBS="$_PTHREAD_LDFLAGS $OS_LIBS"

dnl If the user passed in arg to --enable-optimize or --enable-debug,
dnl make sure that we use it.
if test -n "$_SAVE_OPTIMIZE_FLAGS"; then
    _OPTIMIZE_FLAGS="$_SAVE_OPTIMIZE_FLAGS"
fi

if test -n "$_SAVE_DEBUG_FLAGS"; then
    _DEBUG_FLAGS="$_SAVE_DEBUG_FLAGS"
fi

if test -n "$MOZ_OPTIMIZE"; then
    CFLAGS="$CFLAGS $_OPTIMIZE_FLAGS"
    CXXFLAGS="$CXXFLAGS $_OPTIMIZE_FLAGS"
fi

if test -n "$MOZ_DEBUG_SYMBOLS"; then
    CFLAGS="$CFLAGS $_DEBUG_FLAGS"
    CXXFLAGS="$CXXFLAGS $_DEBUG_FLAGS"
fi

if test -n "$MOZ_OPTIMIZE"; then
    OBJDIR_TAG=_OPT
else
    OBJDIR_TAG=_DBG
fi

if test -n "$USE_64"; then
    COMPILER_TAG=_64
fi

RELEASE_OBJDIR_NAME="${OS_CONFIG}${CPU_ARCH_TAG}${COMPILER_TAG}${IMPL_STRATEGY}${OBJDIR_TAG}.${OBJDIR_SUFFIX}"

dnl ========================================================
dnl Use cygwin wrapper for win32 builds, except MSYS/MinGW
dnl ========================================================
case "$target_os" in
cygwin*|mks*)
    CC="\$(CYGWIN_WRAPPER) $CC"
    CXX="\$(CYGWIN_WRAPPER) $CXX"
    RC="\$(CYGWIN_WRAPPER) $RC"
    ;;
esac

dnl ========================================================
dnl = Use malloc wrapper lib
dnl ========================================================
AC_ARG_ENABLE(wrap-malloc,
[  --enable-wrap-malloc     Wrap malloc calls (gnu linker only)],
[     if test "$enableval" = "yes"; then
      _WRAP_MALLOC=1
      fi ])
```

```
if test -n "$_WRAP_MALLOC"; then
    if test -n "$GNU_CC"; then
        WRAP_LDFLAGS="${WRAP_LDFLAGS} -Wl,--wrap=malloc,--wrap=calloc,--wrap=valloc,--wrap=free,--wrap=realloc,--wrap=memalign"
        WRAP_LDFLAGS="${WRAP_LDFLAGS} -Wl,--wrap=__builtin_new,--wrap=__builtin_vec_new,--wrap=__builtin_delete,--wrap=__builtin_vec_delete"
        WRAP_LDFLAGS="${WRAP_LDFLAGS} -Wl,--wrap=strdup,--wrap=strndup"
        WRAP_LDFLAGS="${WRAP_LDFLAGS} -Wl,--wrap=posix_memalign,--wrap=malloc_usable_size"
    else
        AC_MSG_ERROR([--enable-wrap-malloc is not supported for non-GNU toolchains])
    fi
fi

dnl ========================================================
dnl = Location of malloc wrapper lib
dnl ========================================================
AC_ARG_WITH(wrap-malloc,
[  --with-wrap-malloc=SHAREDLIB  Location of malloc wrapper library],
    WRAP_LDFLAGS="${WRAP_LDFLAGS} $withval")

dnl ========================================================
dnl Substitution of found variables.
dnl ========================================================
AC_SUBST(SHELL_OVERRIDE)

AC_SUBST(MOZILLA_CLIENT)
AC_SUBST(CC)
AC_SUBST(CXX)
AC_SUBST(CFLAGS)
AC_SUBST(CXXFLAGS)
AC_SUBST(CPPFLAGS)
AC_SUBST(HOST_CC)
AC_SUBST(HOST_CFLAGS)
AC_SUBST(LDFLAGS)
AC_SUBST(HOST_LDFLAGS)
AC_SUBST(GNU_CC)
AC_SUBST(GCC_USE_GNU_LD)
AC_SUBST(MSC_VER)
AC_SUBST(CROSS_COMPILE)

AC_SUBST(MOZ_OPTIMIZE)
AC_SUBST(MOZ_DEBUG)
AC_SUBST(MOZ_DEBUG_SYMBOLS)

AC_SUBST(USE_CPLUS)
AC_SUBST(USE_IPV6)
AC_SUBST(USE_N32)
AC_SUBST(USE_X32)
AC_SUBST(USE_64)
AC_SUBST(OBJECT_MODE)
AC_SUBST(ENABLE_STRIP)

AC_SUBST(USE_PTHREADS)
AC_SUBST(USE_BTHREADS)
AC_SUBST(USE_USER_PTHREADS)
AC_SUBST(USE_NSPR_THREADS)

AC_SUBST(LIBNSPR)
AC_SUBST(LIBPLC)

AC_SUBST(MOD_MAJOR_VERSION)
AC_SUBST(MOD_MINOR_VERSION)
AC_SUBST(MOD_PATCH_VERSION)
AC_SUBST(NSPR_MODNAME)
AC_SUBST(MDCPUCFG_H)
AC_SUBST(PR_MD_CSRCS)
AC_SUBST(PR_MD_ASFILES)
AC_SUBST(PR_MD_ARCH_DIR)
AC_SUBST(CPU_ARCH)

AC_SUBST(OBJ_SUFFIX)
AC_SUBST(LIB_SUFFIX)
AC_SUBST(DLL_SUFFIX)
AC_SUBST(ASM_SUFFIX)
AC_SUBST(WRAP_LDFLAGS)
AC_SUBST(MKSHLIB)
AC_SUBST(DSO_CFLAGS)
AC_SUBST(DSO_LDOPTS)

AC_SUBST(OS_TARGET)
AC_SUBST(OS_ARCH)
AC_SUBST(OS_RELEASE)
AC_SUBST(OS_TEST)
AC_SUBST(MACOSX_DEPLOYMENT_TARGET)
```

```
AC_SUBST(DEFINES)
AC_SUBST(DEFS)
AC_SUBST(AR)
AC_SUBST(AR_FLAGS)
AC_SUBST(AS)
AC_SUBST(ASFLAGS)
AC_SUBST(LD)
AC_SUBST(RANLIB)
AC_SUBST(PERL)
AC_SUBST(STRIP)
AC_SUBST(FILTER)
AC_SUBST(IMPLIB)

AC_SUBST(PROFILE_GEN_CFLAGS)
AC_SUBST(PROFILE_GEN_LDFLAGS)
AC_SUBST(PROFILE_USE_CFLAGS)
AC_SUBST(PROFILE_USE_LDFLAGS)

AC_SUBST(OS_LIBS)
AC_SUBST(RESOLVE_LINK_SYMBOLS)
AC_SUBST(AIX_LINK_OPTS)
AC_SUBST(NOSUCHFILE)
AC_SUBST(MOZ_OBJFORMAT)
AC_SUBST(ULTRASPARC_LIBRARY)

AC_SUBST(OBJDIR)
AC_SUBST(OBJDIR_NAME)
AC_SUBST(RELEASE_OBJDIR_NAME)
AC_SUBST(NSINSTALL)
AC_SUBST(OPTIMIZER)
AC_SUBST(RC)
AC_SUBST(RCFLAGS)
AC_SUBST(DLLFLAGS)
AC_SUBST(EXEFLAGS)
AC_SUBST(OS_DLLFLAGS)
AC_SUBST(CYGWIN_WRAPPER)
AC_SUBST(VISIBILITY_FLAGS)
AC_SUBST(WRAP_SYSTEM_INCLUDES)
AC_SUBST(MACOS_SDK_DIR)
AC_SUBST(SYMBIAN_SDK_DIR)
AC_SUBST(NEXT_ROOT)
AC_SUBST(MT)

dnl ========================================================
dnl Generate output files.
dnl ========================================================
MAKEFILES="
    Makefile
    config/Makefile
    config/autoconf.mk
    config/nsprincl.mk
    config/nsprincl.sh
    config/nspr-config
    config/nspr.pc
    lib/Makefile
    lib/ds/Makefile
    lib/libc/Makefile
    lib/libc/include/Makefile
    lib/libc/src/Makefile
    lib/tests/Makefile
    pkg/Makefile
    pr/Makefile
    pr/include/Makefile
    pr/include/md/Makefile
    pr/include/obsolete/Makefile
    pr/include/private/Makefile
    pr/src/Makefile
    pr/src/io/Makefile
    pr/src/linking/Makefile
    pr/src/malloc/Makefile
    pr/src/md/Makefile
    pr/src/md/${PR_MD_ARCH_DIR}/Makefile
    pr/src/memory/Makefile
    pr/src/misc/Makefile
    pr/src/threads/Makefile
    pr/tests/Makefile
    pr/tests/dll/Makefile
"

if test "$OS_TARGET" = "Linux"; then
    MAKEFILES="$MAKEFILES
        pkg/linux/Makefile
    "
```

```
elif test "$OS_TARGET" = "SunOS"; then
   MAKEFILES="$MAKEFILES
      pkg/solaris/Makefile
      pkg/solaris/SUNWpr/Makefile
      pkg/solaris/SUNWprd/Makefile
   "
fi

if test -z "$USE_PTHREADS" && test -z "$USE_BTHREADS"; then
   MAKEFILES="$MAKEFILES
      pr/src/threads/combined/Makefile
   "
elif test -n "$USE_PTHREADS"; then
   MAKEFILES="$MAKEFILES
      pr/src/pthreads/Makefile
   "
elif test -n "$USE_BTHREADS"; then
   MAKEFILES="$MAKEFILES
      pr/src/bthreads/Makefile
   "
fi

if test -n "$USE_CPLUS"; then
   MAKEFILES="$MAKEFILES
      pr/src/cplus/Makefile
      pr/src/cplus/tests/Makefile
   "
fi

echo $MAKEFILES > unallmakefiles

AC_CONFIG_FILES([$MAKEFILES])
AC_CONFIG_COMMANDS([default], [chmod +x config/nspr-config])
AC_OUTPUT
```

File name: generic_LGPL-2.1

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Version 2.1, February 1999

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File name: generic_GPL-2.0

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ofono

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Package revision: hach
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 *
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 *
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 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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openssl

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openvpn

Package version: 2.3.9
Package revision: r0
Package license(s): GPLv2

File name: generic_GPLv2

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Package version: 0.3.3
Package revision: r0
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File name: generic_GPLv2

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opkg-utils

Package version: 0.3.2+gitAUTOINC+3ffece9bf1
Package revision: r0
Package license(s): GPLv2+

File name: generic_GPLv2

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packagegroup-boot

Package version: 1.0

Package revision: r58

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perl

Package version: 5.22.1

Package revision: r0

Package license(s): Artistic-1.0 | GPL-1.0+

File name: generic_GPL-1.0

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```

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```
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```

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File name: Copying

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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```

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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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>
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popt

Package version: 1.16

Package revision: r3

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ppp-dialin

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Package revision: r8

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procps

Package version: 3.3.12

Package revision: r0

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signature of Ty Coon, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

ptpd

Package version: 2.3.1

Package revision: r0

Package license(s): BSD

File name: generic_BSD

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File name: README

README for PTPd Version 2.x

- Introduction -

This is the source code for the PTP daemon (PTPd) implementing the
Precision Time Protocol (PTP) version 2 as defined by 'IEEE Std 1588-2008'. PTP
provides precise time coordination of Ethernet LAN connected computers. It
was designed primarily for instrumentation and control systems.

- Use -

PTPd can coordinate the clocks of a group of LAN connected computers with each
other. It has been shown to achieve microsecond level coordination, even on
limited platforms.

The 'ptpd' program can be built from the included source code. To use
the program, run 'ptpd' on a group of LAN connected computers. Compile
with 'PTPD_DBG' defined and run with the '-c' argument to watch what's
going on.

If you are just looking for software to update the time on your desktop, you
probably want something that implements the Network Time Protocol. It can
coordinate computer clocks with an absolute time reference such as UTC.

Please refer to the INSTALL file for build instructions and configuration
options. Please refer to the README.repocheckout file for information
on how to build from source code repositories.

- Legal notice -

PTPd was written by using only information contained within 'IEEE Std
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python

Package version: 2.7.12

Package revision: r1

Package license(s): PSFv2

File name: LICENSE

A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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python-dbus

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Package revision: r0

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python-enum34

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Package revision: r0

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python-ipaddress

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Package revision: r0

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python-netifaces

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Package revision: r0

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python-pip

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python-pygobject

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File name: generic_LGPLv2.1

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Version 2.1, February 1999

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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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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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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.
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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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python-pyserial

Package version: 3.1.1

Package revision: r0

Package license(s): BSD

File name: generic_BSD

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Package version: 0.21.0
Package revision: r0
Package license(s): GPLv2

File name: generic_GPLv2

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python-setuptools

Package version: 22.0.5

Package revision: r0

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python-six

Package version: 1.10.0

Package revision: r0

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python3

Package version: 3.5.2

Package revision: r1.0

Package license(s): PSFv2

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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python3-dbus

Package version: 1.2.4

Package revision: r0

Package license(s): MIT

File name: COPYING

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python3-pygobject

Package version: 3.20.1

Package revision: r0

Package license(s): LGPLv2.1

File name: generic_LGPLv2.1

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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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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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That's all there is to it!

python3-setuptools

Package version: 22.0.5

Package revision: r0

Package license(s): MIT

File name: generic_MIT

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qemuwrapper-cross

Package version: 1.0

Package revision: r0

Package license(s): MIT

File name: generic_MIT

MIT License

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quota

Package version: 4.03

Package revision: r0

Package license(s): BSD & GPLv2+ & LGPLv2.1+

File name: generic_LGPLv2.1

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Version 2.1, February 1999

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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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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Version 3, 29 June 2007

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rng-tools

Package version: 5
Package revision: r0
Package license(s): GPLv2

File name: generic_GPLv2

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Package revision: r0

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run-postinsts

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shadow

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Package revision: r0
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shadow-securetty

Package version: 4.2.1

Package revision: r3

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shadow-sysroot

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File name: generic_Artistic-1.0

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The End

File name: login.defs_shadow-sysroot

#
/etc/login.defs - Configuration control definitions for the shadow package.

```
#
# $Id: login.defs 3038 2009-07-23 20:41:35Z nekral-guest $
#

#
# Delay in seconds before being allowed another attempt after a login failure
# Note: When PAM is used, some modules may enfore a minimal delay (e.g.
#       pam_unix enforces a 2s delay)
#
FAIL_DELAY  3

#
# Enable logging and display of /var/log/faillog login failure info.
#
#FAILLOG_ENAB  yes

#
# Enable display of unknown usernames when login failures are recorded.
#
LOG_UNKFAIL_ENAB no

#
# Enable logging of successful logins
#
LOG_OK_LOGINS  no

#
# Enable logging and display of /var/log/lastlog login time info.
#
#LASTLOG_ENAB  yes

#
# Enable checking and display of mailbox status upon login.
#
# Disable if the shell startup files already check for mail
# ("mailx -e" or equivalent).
#
##MAIL_CHECK_ENAB  yes

#
# Enable additional checks upon password changes.
#
#OBSCURE_CHECKS_ENAB yes

#
# Enable checking of time restrictions specified in /etc/porttime.
#
#PORTTIME_CHECKS_ENAB yes

#
# Enable setting of ulimit, umask, and niceness from passwd gecos field.
#
#QUOTAS_ENAB  yes

#
# Enable "syslog" logging of su activity - in addition to sulog file logging.
# SYSLOG_SG_ENAB does the same for newgrp and sg.
#
SYSLOG_SU_ENAB  yes
SYSLOG_SG_ENAB  yes

#
# If defined, either full pathname of a file containing device names or
# a ":" delimited list of device names.  Root logins will be allowed only
# upon these devices.
#
CONSOLE  /etc/securetty
#CONSOLE console:tty01:tty02:tty03:tty04

#
# If defined, all su activity is logged to this file.
#
#SULOG_FILE /var/log/sulog

#
# If defined, ":" delimited list of "message of the day" files to
# be displayed upon login.
#
#MOTD_FILE /etc/motd
#MOTD_FILE /etc/motd:/usr/lib/news/news-motd

#
# If defined, this file will be output before each login prompt.
```

```
#
#ISSUE_FILE /etc/issue

#
# If defined, file which maps tty line to TERM environment parameter.
# Each line of the file is in a format something like "vt100  tty01".
#
#TTYTYPE_FILE /etc/ttytype

#
# If defined, login failures will be logged here in a utmp format.
# last, when invoked as lastb, will read /var/log/btmp, so...
#
#FTMP_FILE /var/log/btmp

#
# If defined, name of file whose presence which will inhibit non-root
# logins.  The contents of this file should be a message indicating
# why logins are inhibited.
#
#NOLOGINS_FILE /etc/nologin

#
# If defined, the command name to display when running "su -".  For
# example, if this is defined as "su" then a "ps" will display the
# command is "-su".  If not defined, then "ps" would display the
# name of the shell actually being run, e.g. something like "-sh".
#
SU_NAME  su

#
# *REQUIRED*
#   Directory where mailboxes reside, _or_ name of file, relative to the
#   home directory.  If you _do_ define both, #MAIL_DIR takes precedence.
#
#MAIL_DIR /var/spool/mail
MAIL_FILE .mail

#
# If defined, file which inhibits all the usual chatter during the login
# sequence.  If a full pathname, then hushed mode will be enabled if the
# user's name or shell are found in the file.  If not a full pathname, then
# hushed mode will be enabled if the file exists in the user's home directory.
#
HUSHLOGIN_FILE .hushlogin
#HUSHLOGIN_FILE /etc/hushlogins

#
# If defined, either a TZ environment parameter spec or the
# fully-rooted pathname of a file containing such a spec.
#
#ENV_TZ  TZ=CST6CDT
#ENV_TZ  /etc/tzname

#
# If defined, an HZ environment parameter spec.
#
# for Linux/x86
#ENV_HZ  HZ=100
# For Linux/Alpha...
#ENV_HZ  HZ=1024

#
# *REQUIRED*  The default PATH settings, for superuser and normal users.
#
# (they are minimal, add the rest in the shell startup files)
ENV_SUPATH PATH=/sbin:/bin:/usr/sbin:/usr/bin
ENV_PATH PATH=/bin:/usr/bin

#
# Terminal permissions
#
# TTYGROUP Login tty will be assigned this group ownership.
# TTYPERM  Login tty will be set to this permission.
#
# If you have a "write" program which is "setgid" to a special group
# which owns the terminals, define TTYGROUP to the group number and
# TTYPERM to 0620.  Otherwise leave TTYGROUP commented out and assign
# TTYPERM to either 622 or 600.
#
TTYGROUP tty
TTYPERM  0600
```

```
#
# Login configuration initializations:
#
# ERASECHAR Terminal ERASE character ('\010' = backspace).
# KILLCHAR Terminal KILL character ('\025' = CTRL/U).
# ULIMIT  Default "ulimit" value.
#
# The ERASECHAR and KILLCHAR are used only on System V machines.
# The ULIMIT is used only if the system supports it.
# (now it works with setrlimit too; ulimit is in 512-byte units)
#
# Prefix these values with "0" to get octal, "0x" to get hexadecimal.
#
ERASECHAR 0177
KILLCHAR 025
#ULIMIT  2097152

# Default initial "umask" value for non-PAM enabled systems.
# UMASK is also used by useradd and newusers to set the mode of new home
# directories.
# 022 is the default value, but 027, or even 077, could be considered
# better for privacy. There is no One True Answer here: each sysadmin
# must make up her mind.
UMASK  022

#
# Password aging controls:
#
# PASS_MAX_DAYS Maximum number of days a password may be used.
# PASS_MIN_DAYS Minimum number of days allowed between password changes.
# PASS_MIN_LEN Minimum acceptable password length.
# PASS_WARN_AGE Number of days warning given before a password expires.
#
PASS_MAX_DAYS 99999
PASS_MIN_DAYS 0
#PASS_MIN_LEN 5
PASS_WARN_AGE 7

#
# If "yes", the user must be listed as a member of the first gid 0 group
# in /etc/group (called "root" on most Linux systems) to be able to "su"
# to uid 0 accounts.  If the group doesn't exist or is empty, no one
# will be able to "su" to uid 0.
#
#SU_WHEEL_ONLY no

#
# If compiled with cracklib support, where are the dictionaries
#
#CRACKLIB_DICTPATH /var/cache/cracklib/cracklib_dict

#
# Min/max values for automatic uid selection in useradd
#
UID_MIN    1000
UID_MAX   60000
# System accounts
SYS_UID_MIN    101
SYS_UID_MAX    999

#
# Min/max values for automatic gid selection in groupadd
#
GID_MIN    1000
GID_MAX   60000
# System accounts
SYS_GID_MIN    101
SYS_GID_MAX    999

#
# Max number of login retries if password is bad
#
LOGIN_RETRIES  5

#
# Max time in seconds for login
#
LOGIN_TIMEOUT  60

#
# Maximum number of attempts to change password if rejected (too easy)
#
#PASS_CHANGE_TRIES 5
```

```
#
# Warn about weak passwords (but still allow them) if you are root.
#
#PASS_ALWAYS_WARN yes

#
# Number of significant characters in the password for crypt().
# Default is 8, don't change unless your crypt() is better.
# Ignored if MD5_CRYPT_ENAB set to "yes".
#
#PASS_MAX_LEN  8

#
# Require password before chfn/chsh can make any changes.
#
#CHFN_AUTH  yes

#
# Which fields may be changed by regular users using chfn - use
# any combination of letters "frwh" (full name, room number, work
# phone, home phone).  If not defined, no changes are allowed.
# For backward compatibility, "yes" = "rwh" and "no" = "frwh".
#
CHFN_RESTRICT  rwh

#
# Password prompt (%s will be replaced by user name).
#
# XXX - it doesn't work correctly yet, for now leave it commented out
# to use the default which is just "Password: ".
#LOGIN_STRING  "%s's Password: "

#
# Only works if compiled with MD5_CRYPT defined:
# If set to "yes", new passwords will be encrypted using the MD5-based
# algorithm compatible with the one used by recent releases of FreeBSD.
# It supports passwords of unlimited length and longer salt strings.
# Set to "no" if you need to copy encrypted passwords to other systems
# which don't understand the new algorithm.  Default is "no".
#
# Note: If you use PAM, it is recommended to use a value consistent with
# the PAM modules configuration.
#
# This variable is deprecated. You should use ENCRYPT_METHOD.
#
#MD5_CRYPT_ENAB no

#
# Only works if compiled with ENCRYPTMETHOD_SELECT defined:
# If set to MD5 , MD5-based algorithm will be used for encrypting password
# If set to SHA256, SHA256-based algorithm will be used for encrypting password
# If set to SHA512, SHA512-based algorithm will be used for encrypting password
# If set to DES, DES-based algorithm will be used for encrypting password (default)
# Overrides the MD5_CRYPT_ENAB option
#
# Note: If you use PAM, it is recommended to use a value consistent with
# the PAM modules configuration.
#
#ENCRYPT_METHOD DES

#
# Only works if ENCRYPT_METHOD is set to SHA256 or SHA512.
#
# Define the number of SHA rounds.
# With a lot of rounds, it is more difficult to brute forcing the password.
# But note also that it more CPU resources will be needed to authenticate
# users.
#
# If not specified, the libc will choose the default number of rounds (5000).
# The values must be inside the 1000-999999999 range.
# If only one of the MIN or MAX values is set, then this value will be used.
# If MIN > MAX, the highest value will be used.
#
# SHA_CRYPT_MIN_ROUNDS 5000
# SHA_CRYPT_MAX_ROUNDS 5000

#
# List of groups to add to the user's supplementary group set
# when logging in on the console (as determined by the CONSOLE
# setting).  Default is none.
#
# Use with caution - it is possible for users to gain permanent
```

```
# access to these groups, even when not logged in on the console.
# How to do it is left as an exercise for the reader...
#
#CONSOLE_GROUPS  floppy:audio:cdrom

#
# Should login be allowed if we can't cd to the home directory?
# Default in no.
#
DEFAULT_HOME yes

#
# If this file exists and is readable, login environment will be
# read from it.  Every line should be in the form name=value.
#
#ENVIRON_FILE /etc/environment

#
# If defined, this command is run when removing a user.
# It should remove any at/cron/print jobs etc. owned by
# the user to be removed (passed as the first argument).
#
#USERDEL_CMD /usr/sbin/userdel_local

#
# Enable setting of the umask group bits to be the same as owner bits
# (examples: 022 -> 002, 077 -> 007) for non-root users, if the uid is
# the same as gid, and username is the same as the primary group name.
#
# This also enables userdel to remove user groups if no members exist.
#
USERGROUPS_ENAB yes

#
# If set to a non-nul number, the shadow utilities will make sure that
# groups never have more than this number of users on one line.
# This permit to support split groups (groups split into multiple lines,
# with the same group ID, to avoid limitation of the line length in the
# group file).
#
# 0 is the default value and disables this feature.
#
#MAX_MEMBERS_PER_GROUP 0

#
# If useradd should create home directories for users by default (non
# system users only)
# This option is overridden with the -M or -m flags on the useradd command
# line.
#
CREATE_HOME     yes
```

File name: generic_BSD

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sqlite3

Package version: 3.14.1

Package revision: r0

Package license(s): PD

File name: generic_PD

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stat

Package version: 3.3
Package revision: r0
Package license(s): GPLv2

File name: GPL

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Version 3, 29 June 2007

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sudo

Package version: 1.8.17p1

Package revision: r0

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sysfsutils

Package version: 2.1.0

Package revision: r5

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systemd

Package version: 230+gitAUTOINC+3a74d4fc90
Package revision: r0
Package license(s): GPLv2 & LGPLv2.1

File name: generic_LGPLv2.1

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Version 2.1, February 1999

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systemd-compat-units

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systemd-serialgetty

Package version: 1.0
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File name: GPL-2.0

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tcl

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tcp-wrappers

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thin-provisioning-tools

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timestamp-service

Package version: 1.0

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tinymembench

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u-boot-toradex

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File name: generic_GPLv2

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u-boot-toradex-fsl-fw-utils

Package version: 2016.11
Package revision: 2.7.3-gitrf0e4149
Package license(s): GPLv2+

File name: generic_GPLv2

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udev-extraconf

Package version: 1.1

Package revision: r0

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udev-rules-imx

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update-rc.d

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Package revision: r5
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File name: update-rc.d

```
#!/bin/sh
#
# update-rc.d Update the links in /etc/rc[0-9S].d/
#
# (c) 2003, 2004 Phil Blundell <pb@handhelds.org>
#
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initd="/etc/init.d"
etcd="/etc/rc"
notreally=0
force=0
dostart=0
verbose=0
```

```
usage()
{
 cat >&2 <<EOF
usage: update-rc.d [-n] [-f] [-r <root>] <basename> remove
       update-rc.d [-n] [-r <root>] [-s] <basename> defaults [NN | sNN kNN]
       update-rc.d [-n] [-r <root>] [-s] <basename> start|stop NN runlvl [runlvl] [...] .
  -n: not really
  -f: force
  -v: verbose
  -r: alternate root path (default is /)
  -s: invoke start methods if appropriate to current runlevel
EOF
}

checklinks()
{
 local i dn fn remove=0
 if [ "x$1" = "xremove" ]; then
  echo " Removing any system startup links for $bn ..."
  remove=1
 fi

 for i in 0 1 2 3 4 5 6 7 8 9 S; do
  dn="${etcd}${i}.d"
  if [ ! -d $dn ]; then
   continue;
  fi
  for f in ${dn}/[SK]??${bn}; do
   if [ -L $f ]; then
    if [ $remove -eq 0 ]; then
     return 1
    fi
    echo "  $f"
    if [ $notreally -eq 1 ]; then
     continue
    fi
    rm $f
   fi
  done
 done

 return 0
}

dolink()
{
 startstop=$1
 lev=`echo $2 | cut -d/ -f1`
 nn=`echo $2 | cut -d/ -f2`
 fn="${etcd}${lev}.d/${startstop}${nn}${bn}"
 [ $verbose -eq 1 ] && echo "  $fn -> ../init.d/$bn"
 if [ $notreally -eq 0 ]; then
  mkdir -p `dirname $fn`
   ln -s ../init.d/$bn $fn
 fi
 if [ $dostart -eq 1 ] && [ $startstop = "S" ] && [ $lev = $RUNLEVEL ]; then
  $fn start || true
 fi
}

makelinks()
{
 if ! checklinks; then
  echo " System startup links for $initd/$bn already exist."
  if [ $dostart -eq 1 ] && [ $notreally -eq 0 ] && [ -L ${etcd}${RUNLEVEL}.d/S??${bn} ]; then
   ${etcd}${RUNLEVEL}.d/S??${bn} restart || true
  fi
  exit 0
 fi

 echo " Adding system startup for $initd/$bn."

 for i in $startlinks; do
  dolink S $i
 done
 for i in $stoplinks; do
  dolink K $i
 done
}

while [ $# -gt 0 ]; do
 case $1 in
```

```
  -n) notreally=1
   shift
   continue
   ;;
  -v) verbose=1
   shift
   continue
   ;;
  -f) force=1
   shift
   continue
   ;;
  -s) if [ ! -e /bin/systemd ] ; then
    dostart=1
   fi
   shift
   continue
   ;;
  -r)     shift
   root=$1
   initd="${root}${initd}"
   etcd="${root}${etcd}"
   shift
   ;;
  -h | --help)
   usage
   exit 0
   ;;
  -*)
   usage
   exit 1
   ;;
  *)
   break
   ;;
 esac
done

if [ $# -lt 2 ]; then
 usage
 exit 1
fi

bn=$1
shift

sn=$initd/$bn
if [ -L "$sn" -a -n "$root" ]; then
 if which readlink >/dev/null; then
  while true; do
   linksn="$(readlink "$sn")"
   if [ -z "$linksn" ]; then
    break
   fi

   sn="$linksn"
   case "$sn" in
    /*) sn="$root$sn" ;;
    *)  sn="$initd/$sn" ;;
   esac
  done
 else
  echo "update-rc.d: readlink tool not present, cannot check whether \
    $sn symlink points to a valid file." >&2
 fi
fi

if [ $1 != "remove" ]; then
 if [ ! -f "$sn" ]; then
  echo "update-rc.d: $initd/$bn: file does not exist" >&2
  exit 1
 fi
else
 if [ -f "$sn" ]; then
  if [ $force -eq 1 ]; then
   echo "update-rc.d: $initd/$bn exists during rc.d purge (continuing)" >&2
  else
   echo "update-rc.d: $initd/$bn exists during rc.d purge (use -f to force)" >&2
   exit 1
  fi
 fi
fi
```

```
if [ $dostart -eq 1 ]; then
 #RUNLEVEL=`sed 's/.*\[\(.*\)\]/\1/' < /proc/1/cmdline`
 RUNLEVEL=`runlevel | cut -d" " -f2`
 if [ "x$RUNLEVEL" = "x" ]; then
  echo "Unable to determine current runlevel" >&2
  exit 1
 fi
fi

case $1 in
 remove)
  checklinks "remove"
  ;;

 defaults)
  if [ $# -gt 3 ]; then
   echo "defaults takes only one or two arguments" >&2
   usage
   exit 1
  fi
  start=20
  stop=20
  if [ $# -gt 1 ]; then
   start=$2
   stop=$2
  fi
  if [ $# -gt 2 ]; then
   stop=$3
  fi
  start=`printf %02d $start`
  stop=`printf %02d $stop`
  stoplinks="0/$stop 1/$stop 6/$stop"
  startlinks="2/$start 3/$start 4/$start 5/$start"
  makelinks
  ;;

 start | stop)
  while [ $# -gt 0 ]; do
   if [ $1 = "start" ]; then
    letter=S
   elif [ $1 = "stop" ]; then
    letter=K
   else
    echo "expected start or stop" >&2
    usage
    exit 1
   fi
   shift
   NN=`printf %02d $(expr $1 + 0)`
   shift
   while [ "x$1" != "x." ]; do
    if [ $# -eq 0 ]; then
     echo "action with list of runlevels not terminated by \`.'" >&2
     exit 1
    fi
    level=$1
    shift
    case $letter in
     S) startlinks="$startlinks $level/$NN" ;;
     K) stoplinks="$stoplinks $level/$NN" ;;
    esac
   done
   shift
  done
  makelinks
  ;;

 *)
  usage
  exit 1
  ;;
esac
```

usb-modeswitch

Package version: 2.5.2
Package revision: r0
Package license(s): GPLv2

File name: generic_GPLv2

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Version 2, June 1991

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usb-modeswitch-data

Package version: 20170806
Package revision: r0
Package license(s): GPLv2

File name: generic_GPLv2

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util-linux

Package version: 2.28.1
Package revision: r0
Package license(s): GPLv2+ & LGPLv2.1+ & BSD

File name: generic_LGPLv2.1

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Version 2.1, February 1999

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util-macros

Package version: 1.19.0
Package revision: r0
Package license(s): MIT & MIT-style

File name: generic_MIT-style

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volatile-binds

Package version: 1.0

Package revision: r0

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File name: generic_MIT

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wireless-tools

Package version: 30.pre9

Package revision: r0

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File name: generic_LGPLv2.1

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Source code files were moved around in v0.6.x releases and compared to earlier releases, the programs are now built by first going to a subdirectory (wpa_supplicant or hostapd) and creating build configuration (.config) and running 'make' there (for Linux/BSD/cygwin builds).

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wt

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Package revision: r0
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xcb-proto

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File name: dri2.xml

<?xml version="1.0" encoding="utf-8"?>
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-->

```
<xcb header="dri2" extension-xname="DRI2" extension-name="DRI2"
  major-version="1" minor-version="4">
  <import>xproto</import>

  <enum name="Attachment">
    <item name="BufferFrontLeft">      <value>0</value> </item>
    <item name="BufferBackLeft">       <value>1</value> </item>
    <item name="BufferFrontRight">     <value>2</value> </item>
    <item name="BufferBackRight">      <value>3</value> </item>
    <item name="BufferDepth">          <value>4</value> </item>
    <item name="BufferStencil">        <value>5</value> </item>
    <item name="BufferAccum">          <value>6</value> </item>
    <item name="BufferFakeFrontLeft">  <value>7</value> </item>
    <item name="BufferFakeFrontRight"> <value>8</value> </item>
    <item name="BufferDepthStencil">   <value>9</value> </item>
    <item name="BufferHiz">            <value>10</value> </item>
  </enum>

  <enum name="DriverType">
    <item name="DRI">   <value>0</value> </item>
    <item name="VDPAU"> <value>1</value> </item>
  </enum>

  <enum name="EventType">
    <item name="ExchangeComplete"><value>1</value></item>
    <item name="BlitComplete">    <value>2</value></item>
    <item name="FlipComplete">    <value>3</value></item>
  </enum>

  <!-- Types -->

  <struct name="DRI2Buffer">
    <field type="CARD32" name="attachment" enum="Attachment" />
    <field type="CARD32" name="name" />
    <field type="CARD32" name="pitch" />
    <field type="CARD32" name="cpp" />
    <field type="CARD32" name="flags" />
  </struct>

  <struct name="AttachFormat">
    <field type="CARD32" name="attachment" enum="Attachment" />
    <field type="CARD32" name="format" />
  </struct>

  <!-- Requests -->
  <request name="QueryVersion" opcode="0">
    <field type="CARD32" name="major_version" />
    <field type="CARD32" name="minor_version" />
    <reply>
      <pad bytes="1" />
      <field type="CARD32" name="major_version" />
      <field type="CARD32" name="minor_version" />
    </reply>
  </request>

  <request name="Connect" opcode="1">
    <field type="WINDOW" name="window" />
    <field type="CARD32" name="driver_type" enum="DriverType" />
    <reply>
      <pad bytes="1" />
      <field type="CARD32" name="driver_name_length" />
      <field type="CARD32" name="device_name_length" />
      <pad bytes="16" />
      <list type="char" name="driver_name">
        <fieldref>driver_name_length</fieldref>
      </list>
```

```
    <list type="void" name="alignment_pad">
  <op op="-">
      <op op="&amp;">
  <op op="+">
       <fieldref>driver_name_length</fieldref>
       <value>3</value>
  </op>
  <unop op="~">
       <value>3</value>
  </unop>
      </op>
      <fieldref>driver_name_length</fieldref>
  </op>
    </list>
    <list type="char" name="device_name">
      <fieldref>device_name_length</fieldref>
    </list>
  </reply>
</request>

<request name="Authenticate" opcode="2">
  <field type="WINDOW" name="window" />
  <field type="CARD32" name="magic" />
  <reply>
    <pad bytes="1" />
    <field type="CARD32" name="authenticated" />
  </reply>
</request>

<request name="CreateDrawable" opcode="3">
  <field type="DRAWABLE" name="drawable" />
</request>

<request name="DestroyDrawable" opcode="4">
  <field type="DRAWABLE" name="drawable" />
</request>

<request name="GetBuffers" opcode="5">
  <field type="DRAWABLE" name="drawable" />
  <field type="CARD32" name="count" />
  <list type="CARD32" name="attachments">
  <!-- The length field should be linked but we can't correct it without breaking API -->
  <!-- <fieldref>count</fieldref> -->
  </list>
  <reply>
    <pad bytes="1" />
    <field type="CARD32" name="width" />
    <field type="CARD32" name="height" />
    <field type="CARD32" name="count" />
    <pad bytes="12" />
    <list type="DRI2Buffer" name="buffers">
      <fieldref>count</fieldref>
    </list>
  </reply>
</request>

<request name="CopyRegion" opcode="6">
  <field type="DRAWABLE" name="drawable" />
  <field type="CARD32" name="region" />
  <field type="CARD32" name="dest" />
  <field type="CARD32" name="src" />
  <reply>
    <pad bytes="1" />
  </reply>
</request>

<request name="GetBuffersWithFormat" opcode="7">
  <field type="DRAWABLE" name="drawable" />
  <field type="CARD32" name="count" />
  <list type="AttachFormat" name="attachments">
  <!-- The length field should be linked but we can't correct it without breaking API -->
  <!-- <fieldref>count</fieldref> -->
  </list>
  <reply>
    <pad bytes="1" />
    <field type="CARD32" name="width" />
    <field type="CARD32" name="height" />
    <field type="CARD32" name="count" />
    <pad bytes="12" />
    <list type="DRI2Buffer" name="buffers">
      <fieldref>count</fieldref>
    </list>
  </reply>
```

```
</request>

<!-- Version 1.2 -->

<request name="SwapBuffers" opcode="8">
  <field type="DRAWABLE" name="drawable" />
  <field type="CARD32" name="target_msc_hi" />
  <field type="CARD32" name="target_msc_lo" />
  <field type="CARD32" name="divisor_hi" />
  <field type="CARD32" name="divisor_lo" />
  <field type="CARD32" name="remainder_hi" />
  <field type="CARD32" name="remainder_lo" />
  <reply>
    <pad bytes="1" />
    <field type="CARD32" name="swap_hi" />
    <field type="CARD32" name="swap_lo" />
  </reply>
</request>

<request name="GetMSC" opcode="9">
  <field type="DRAWABLE" name="drawable" />
  <reply>
    <pad bytes="1" />
    <field type="CARD32" name="ust_hi" />
    <field type="CARD32" name="ust_lo" />
    <field type="CARD32" name="msc_hi" />
    <field type="CARD32" name="msc_lo" />
    <field type="CARD32" name="sbc_hi" />
    <field type="CARD32" name="sbc_lo" />
  </reply>
</request>

<request name="WaitMSC" opcode="10">
  <field type="DRAWABLE" name="drawable" />
  <field type="CARD32" name="target_msc_hi" />
  <field type="CARD32" name="target_msc_lo" />
  <field type="CARD32" name="divisor_hi" />
  <field type="CARD32" name="divisor_lo" />
  <field type="CARD32" name="remainder_hi" />
  <field type="CARD32" name="remainder_lo" />
  <reply>
    <pad bytes="1" />
    <field type="CARD32" name="ust_hi" />
    <field type="CARD32" name="ust_lo" />
    <field type="CARD32" name="msc_hi" />
    <field type="CARD32" name="msc_lo" />
    <field type="CARD32" name="sbc_hi" />
    <field type="CARD32" name="sbc_lo" />
  </reply>
</request>

<request name="WaitSBC" opcode="11">
  <field type="DRAWABLE" name="drawable" />
  <field type="CARD32" name="target_sbc_hi" />
  <field type="CARD32" name="target_sbc_lo" />
  <reply>
    <pad bytes="1" />
    <field type="CARD32" name="ust_hi" />
    <field type="CARD32" name="ust_lo" />
    <field type="CARD32" name="msc_hi" />
    <field type="CARD32" name="msc_lo" />
    <field type="CARD32" name="sbc_hi" />
    <field type="CARD32" name="sbc_lo" />
  </reply>
</request>

<request name="SwapInterval" opcode="12">
  <field type="DRAWABLE" name="drawable" />
  <field type="CARD32" name="interval" />
</request>

<!-- Version 1.4 -->

<request name="GetParam" opcode="13">
  <field type="DRAWABLE" name="drawable" />
  <field type="CARD32" name="param" />
  <reply>
    <field type="BOOL" name="is_param_recognized" />
    <field type="CARD32" name="value_hi" />
    <field type="CARD32" name="value_lo" />
  </reply>
</request>
```

```
  <!-- Events -->

  <event name="BufferSwapComplete" number="0">
    <pad bytes="1" />
    <field type="CARD16" name="event_type" enum="EventType" />
    <pad bytes="2" />
    <field type="DRAWABLE" name="drawable" />
    <field type="CARD32" name="ust_hi" />
    <field type="CARD32" name="ust_lo" />
    <field type="CARD32" name="msc_hi" />
    <field type="CARD32" name="msc_lo" />
    <field type="CARD32" name="sbc" />
  </event>

  <!-- Version 1.3 -->

  <event name="InvalidateBuffers" number="1">
    <pad bytes="1" />
    <field type="DRAWABLE" name="drawable" />
  </event>
</xcb>
```

xextproto

Package version: 7.3.0
Package revision: r0
Package license(s): MIT & MIT-style

File name: generic_MIT-style

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xkeyboard-config

Package version: 2.18

Package revision: r0

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File name: generic_MIT-style

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xproto

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File name: generic_MIT-style

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xtrans

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File name: generic_MIT-style

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xz

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Package revision: r0
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File name: generic_PD

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==========

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```
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zlib

Package version: 1.2.8

Package revision: r0

Package license(s): Zlib

File name: generic_Zlib

zlib License

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