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1.3 Android Bluetooth App 1.0 :froyo

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```

```
LOCAL_PATH := $(call my-dir)
```

```
include $(CLEAR_VARS)
LOCAL_CERTIFICATE := platform
LOCAL_MODULE_TAGS := eng
LOCAL_PACKAGE_NAME := BugReportSender
LOCAL_SDK_VERSION := 4
LOCAL_SRC_FILES := $(call all-subdir-java-files)
include $(BUILD_PACKAGE)
```

1.6 Android Calculator App 2.0 :jellybean

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# limitations under the License.  
#  
  
LOCAL_PATH:= $(call my-dir)  
include $(CLEAR_VARS)  
  
# Only compile source java files in this apk.
```

```
LOCAL_SRC_FILES := $(call all-java-files-under, src)
```

```
LOCAL_PACKAGE_NAME := VideoChatCameraTestApp
```

```
LOCAL_SDK_VERSION := current
```

```
LOCAL_MODULE_TAGS := tests
```

```
include $(BUILD_PACKAGE)
```

1.11 Android CellBroadcastReceiver app 2.0 :jellybean

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1.23 Android KeyChain 2.0 :jellybean

1.24 Android LatinIME IM 1.2 :ICS

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#

LOCAL_PATH:= $(call my-dir)
include $(CLEAR_VARS)

LOCAL_MODULE_TAGS := optional

LOCAL_SRC_FILES := $(call all-java-files-under, src)

LOCAL_PACKAGE_NAME := LoaderApp

include $(BUILD_PACKAGE)
```

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1.38 Android Provision App 1.0 :ICS

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```

```
LOCAL_PATH:= $(call my-dir)
```

```
include $(CLEAR_VARS)
```

```
LOCAL_MODULE_TAGS := tests # Allows non-localized strings
```

```
LOCAL_SRC_FILES := $(call all-subdir-java-files)
```

```
LOCAL_SRC_FILES += src/com/android/rpc_performance/IService.aidl
```

```
LOCAL_PACKAGE_NAME := RpcPerformance
```

```
include $(BUILD_PACKAGE)
```



```

#include $(CLEAR_VARS)
#LOCAL_MODULE := rpcperftest
#LOCAL_MODULE_PATH := $(TARGET_OUT_OPTIONAL_EXECUTABLES)
#LOCAL_SHARED_LIBRARIES := libbinder
#LOCAL_SRC_FILES := rpcperftest.cpp
#include $(BUILD_EXECUTABLE)

#include $(CLEAR_VARS)
#LOCAL_FORCE_STATIC_EXECUTABLE := true
#LOCAL_MODULE := rpcperftest_static
#LOCAL_MODULE_PATH := $(TARGET_OUT_OPTIONAL_EXECUTABLES)
#LOCAL_STATIC_LIBRARIES := libbinder libutils libcutils libstdc++ libc
#LOCAL_SRC_FILES := rpcperftest.cpp
#include $(BUILD_EXECUTABLE)

```

1.41 Android SoundRecorder App 2.0

:jellybean

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LOCAL_PATH:= \$(call my-dir)

include \$(CLEAR_VARS)

LOCAL_MODULE_TAGS := tests # Allows non-localized strings

LOCAL_SRC_FILES := \$(call all-subdir-java-files)

LOCAL_SRC_FILES += src/com/android/strictmodetest/IService.aidl

LOCAL_PACKAGE_NAME := StrictModeTest

include \$(BUILD_PACKAGE)

1.46 Android Tag App 2.0 :jellybean

1.47 Android TelephonyProvider 2.0

:jellybean

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*/

/*

* \$Id: Version.java 577939 2007-09-20 21:45:37Z minchau \$

*/

package org.apache.xalan;

/**

* Administrative class to keep track of the version number of
* the Xalan release.

* <P>This class implements the upcoming standard of having

```

* org.apache.project-name.Version.getVersion() be a standard way
* to get version information. This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>]"</CODE>.
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
        +( (getDevelopmentVersionNum() > 0) ?
            ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */

```

```

public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 *     significant, externally apparent enhancement from
 *     the previous release. 'n' represents the n'th
 *     version.
 *
 *     Clients should carefully consider the implications
 *     of new versions as external interfaces and behaviour
 *     may have changed.
 */
public static int getMajorVersionNum()
{
    return 2;
}

/**
 * Release Number.
 * Release number. This changes when:
 *     - a new set of functionality is to be added, eg,
 *       implementation of a new W3C specification.
 *     - API or behaviour change.
 *     - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return 7;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *     drop applied to a specific release and contains
 *     fixes for defects reported. It maintains compatibility
 *     with the release and contains no API changes.
 *     When missing, it designates the final and complete
 *     development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return 1;
}

```

```

}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("")).length() == 0)
            return 0;
        else
            return Integer.parseInt("");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
}
}
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 */

```

```

/*
 * $Id: Axis.java 468653 2006-10-28 07:07:05Z minchau $
 */
package org.apache.xml.dtm;

/**
 * Specifies values related to XPath Axes.
 * <p>The ancestor, descendant, following, preceding and self axes partition a
 * document (ignoring attribute and namespace nodes): they do not overlap
 * and together they contain all the nodes in the document.</p>
 */
public final class Axis
{

/**
 * The ancestor axis contains the ancestors of the context node;
 * the ancestors of the context node consist of the parent of context
 * node and the parent's parent and so on; thus, the ancestor axis will
 * always include the root node, unless the context node is the root node.
 */
public static final int ANCESTOR = 0;

/**
 * the ancestor-or-self axis contains the context node and the ancestors of
 * the context node; thus, the ancestor axis will always include the
 * root node.
 */
public static final int ANCESTORORSELF = 1;

/**
 * the attribute axis contains the attributes of the context node; the axis
 * will be empty unless the context node is an element.
 */
public static final int ATTRIBUTE = 2;

/** The child axis contains the children of the context node. */
public static final int CHILD = 3;

/**
 * The descendant axis contains the descendants of the context node;
 * a descendant is a child or a child of a child and so on; thus the
 * descendant axis never contains attribute or namespace nodes.
 */
public static final int DESCENDANT = 4;

/**
 * The descendant-or-self axis contains the context node and the

```

```

* descendants of the context node.
*/
public static final int DESCENDANTORSELF = 5;

/**
 * the following axis contains all nodes in the same document as the
 * context node that are after the context node in document order, excluding
 * any descendants and excluding attribute nodes and namespace nodes.
 */
public static final int FOLLOWING = 6;

/**
 * The following-sibling axis contains all the following siblings of the
 * context node; if the context node is an attribute node or namespace node,
 * the following-sibling axis is empty.
 */
public static final int FOLLOWINGSIBLING = 7;

/**
 * The namespace axis contains the namespace nodes of the context node; the
 * axis will be empty unless the context node is an element.
 */
public static final int NAMESPACEDECLS = 8;

/**
 * The namespace axis contains the namespace nodes of the context node; the
 * axis will be empty unless the context node is an element.
 */
public static final int NAMESPACE = 9;

/**
 * The parent axis contains the parent of the context node,
 * if there is one.
 */
public static final int PARENT = 10;

/**
 * The preceding axis contains all nodes in the same document as the context
 * node that are before the context node in document order, excluding any
 * ancestors and excluding attribute nodes and namespace nodes
 */
public static final int PRECEDING = 11;

/**
 * The preceding-sibling axis contains all the preceding siblings of the
 * context node; if the context node is an attribute node or namespace node,
 * the preceding-sibling axis is empty.
 */

```

```

public static final int PRECEDINGSIBLING = 12;

/** The self axis contains just the context node itself. */
public static final int SELF = 13;

/**
 * A non-xpath axis, traversing the subtree including the subtree
 * root, descendants, attributes, and namespace node decls.
 */
public static final int ALLFROMNODE = 14;

/**
 * A non-xpath axis, traversing the the preceding and the ancestor nodes,
 * needed for inverseing select patterns to match patterns.
 */
public static final int PRECEDINGANDANCESTOR = 15;

// =====
// All axis past this are absolute.

/**
 * A non-xpath axis, returns all nodes in the tree from and including the
 * root.
 */
public static final int ALL = 16;

/**
 * A non-xpath axis, returns all nodes that aren't namespaces or attributes,
 * from and including the root.
 */
public static final int DESCENDANTSFROMROOT = 17;

/**
 * A non-xpath axis, returns all nodes that aren't namespaces or attributes,
 * from and including the root.
 */
public static final int DESCENDANTSORSELFFROMROOT = 18;

/**
 * A non-xpath axis, returns root only.
 */
public static final int ROOT = 19;

/**
 * A non-xpath axis, for functions.
 */
public static final int FILTEREDLIST = 20;

```

```

/**
 * A table to identify whether an axis is a reverse axis;
 */
private static final boolean[] isReverse = {
    true, // ancestor
    true, // ancestor-or-self
    false, // attribute
    false, // child
    false, // descendant
    false, // descendant-or-self
    false, // following
    false, // following-sibling
    false, // namespace
    false, // namespace-declarations
    false, // parent (one node, has no order)
    true, // preceding
    true, // preceding-sibling
    false // self (one node, has no order)
};

/** The names of the axes for diagnostic purposes. */
private static final String[] names =
{
    "ancestor", // 0
    "ancestor-or-self", // 1
    "attribute", // 2
    "child", // 3
    "descendant", // 4
    "descendant-or-self", // 5
    "following", // 6
    "following-sibling", // 7
    "namespace-decls", // 8
    "namespace", // 9
    "parent", // 10
    "preceding", // 11
    "preceding-sibling", // 12
    "self", // 13
    "all-from-node", // 14
    "preceding-and-ancestor", // 15
    "all", // 16
    "descendants-from-root", // 17
    "descendants-or-self-from-root", // 18
    "root", // 19
    "filtered-list" // 20
};

public static boolean isReverse(int axis){
    return isReverse[axis];
}

```



```

}

public static String getNames(int index){
    return names[index];
}

public static int getNamesLength(){
    return names.length;
}

}
/*
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*/
/*
* $Id: Axis.java 468653 2006-10-28 07:07:05Z minchau $
*/
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```

```

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 * The namespace axis contains the namespace nodes of the context node; the

```

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* axis will be empty unless the context node is an element.
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public static final int NAMESPACEDECLS = 8;

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*/
public static final int PARENT = 10;

/**
* The preceding axis contains all nodes in the same document as the context
* node that are before the context node in document order, excluding any
* ancestors and excluding attribute nodes and namespace nodes
*/
public static final int PRECEDING = 11;

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    false, // descendant-or-self
    false, // following
    false, // following-sibling
    false, // namespace
    false, // namespace-declarations
    false, // parent (one node, has no order)
    true, // preceding
    true, // preceding-sibling
    false // self (one node, has no order)
};

```

```

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    "child", // 3
    "descendant", // 4
    "descendant-or-self", // 5
    "following", // 6
    "following-sibling", // 7
    "namespace-decls", // 8
    "namespace", // 9
    "parent", // 10
    "preceding", // 11
    "preceding-sibling", // 12
    "self", // 13
    "all-from-node", // 14
    "preceding-and-ancestor", // 15
    "all", // 16
    "descendants-from-root", // 17
    "descendants-or-self-from-root", // 18
    "root", // 19
    "filtered-list" // 20
};

public static boolean isReverse(int axis){
    return isReverse[axis];
}

public static String getNames(int index){
    return names[index];
}

public static int getNamesLength(){
    return names.length;
}

}
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*/
/*
* $Id: AttributeIterator.java 468655 2006-10-28 07:12:06Z minchau $
*/
package org.apache.xpath.axes;

import org.apache.xml.dtm.DTM;
import org.apache.xpath.compiler.Compiler;

/**
 * This class implements an optimized iterator for
 * attribute axes patterns.
 * @see org.apache.xpath.axes#ChildTestIterator
 * @xsl.usage advanced
 */
public class AttributeIterator extends ChildTestIterator
{
    static final long serialVersionUID = -8417986700712229686L;

    /**
     * Create a AttributeIterator object.
     *
     * @param compiler A reference to the Compiler that contains the op map.
     * @param opPos The position within the op map, which contains the
     * location path expression for this iterator.
     *
     * @throws javax.xml.transform.TransformerException
     */
    AttributeIterator(Compiler compiler, int opPos, int analysis)
        throws javax.xml.transform.TransformerException
    {
        super(compiler, opPos, analysis);
    }

    /**
     * Get the next node via getFirstAttribute && getNextAttribute.
     */
    protected int getNextNode()
    {
        m_lastFetched = (DTM.NULL == m_lastFetched)
            ? m_cdtm.getFirstAttribute(m_context)

```

```

        : m_cdtm.getNextAttribute(m_lastFetched);
    return m_lastFetched;
}

/**
 * Returns the axis being iterated, if it is known.
 *
 * @return Axis.CHILD, etc., or -1 if the axis is not known or is of multiple
 * types.
 */
public int getAxis()
{
    return org.apache.xml.dtm.Axis.ATTRIBUTE;
}

}

```

1.53 astl 2.0 :jellybean

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1.54 bionic 3 :jellybean

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1.60 bzip2 1.0.6

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1.61 checkpolicy 2.1.11

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```

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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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1.62 chromium 12.0.742.130 :jellybean

1.62.1 Available under license :

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* ---
* Author: Kostya Serebryany
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<http://www.famfamfam.com/lab/icons/silk/>

#Sun Aug 15 09:29:11 PDT 2010

eclipse.preferences.version=1

filesCopiedToWebInfLib=appengine-api-1.0-sdk-1.3.5.jar|appengine-api-labs-1.3.5.jar|appengine-jsr107cache-1.3.5.jar|jsr107cache-1.1.jar|datanucleus-appengine-1.0.7.final.jar|datanucleus-core-1.1.5.jar|datanucleus-jpa-

```
1.1.5.jar|geronimo-jpa_3.0_spec-1.1.1.jar|geronimo-jta_1.1_spec-1.1.1.jar|jdo2-api-2.3-eb.jar
#Tue Aug 17 23:40:51 PDT 2010
eclipse.preferences.version=1
jarsExcludedFromWebInfLib=
warSrcDir=war
warSrcDirIsOutput=true
#Tue Aug 17 23:40:55 PDT 2010
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```
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./popuplib.js (PopupManager):
=====
```

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=====

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This sample application includes two Python libraries:

Name: python-oauth2

URL: <http://github.com/simplegeo/python-oauth2/>

=====
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Name: httpLib2

URL: <http://code.google.com/p/httpLib2/>

=====

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This extension uses code from the following JavaScript library:

ImageInfo - A JavaScript library for reading image metadata.

Copyright (c) 2008 Jacob Seidelin, jseidelin@nihilogic.dk, <http://blog.nihilogic.dk/>

MIT License [<http://www.nihilogic.dk/licenses/mit-license.txt>]

This extension uses code from the following two JavaScript libraries:

<http://unitedheroes.net/OAuthSimple/js/OAuthSimple.js>

=====

```
/* OAuthSimple
```

```
 * A simpler version of OAuth
```

```
 *
```

```
* author: jr conlin
* mail: src@anticipatr.com
* copyright: unitedHeroes.net
* version: 1.0
* url: http://unitedHeroes.net/OAuthSimple
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*/
```

<http://pajhome.org.uk/crypt/md5/sha1.js>

=====

```
/*
* A JavaScript implementation of the Secure Hash Algorithm, SHA-1, as defined
* in FIPS PUB 180-1
* Version 2.1a Copyright Paul Johnston 2000 - 2002.
* Other contributors: Greg Holt, Andrew Kepert, Ydnar, Lostinet
* Distributed under the BSD License
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Benoit Sigoure <tsuna@google.com>
Bogdan Pilocca <boo@google.com>
Chandler Carruth <chandlerc@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
Dean Sturtevant
Gene Volovich <gv@cite.com>
Hal Burch <gmock@hburch.com>
Jeffrey Yasskin <jyasskin@google.com>
Jim Keller <jimkeller@google.com>
Joe Walnes <joe@truemesh.com>
Jon Wray <jwray@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kostya Serebryany <kcc@google.com>
Lev Makhlis
Manuel Klimek <klimek@google.com>

Mario Tanev <radix@google.com>
Mark Paskin
Markus Heule <markus.heule@gmail.com>
Matthew Simmons <simmonmt@acm.org>
Mike Bland <mbland@google.com>
Neal Norwitz <nnorwitz@gmail.com>
Nermin Ozkiranartli <nermin@google.com>
Owen Carlsen <ocarlsen@google.com>
Paneendra Ba <paneendra@google.com>
Paul Menage <menage@google.com>
Piotr Kaminski <piotrk@google.com>
Russ Rufer <russ@pentad.com>
Sverre Sundsdal <sundsda@gmail.com>
Takeshi Yoshino <tyoshino@google.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
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Mikls Fazekas <mfazekas@szemafor.com>
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Patrick Riley <pfr@google.com>
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* MODP_B64 - High performance base64 encoder/decoder

* Version 1.3 -- 17-Mar-2006

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-----      -
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1.67 crda 1.1.1

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```
/*
```

```
* arch/arm/mach-tegra/board-ventana.c
```

```
*
```

```
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```

```
*
```

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*/
```

```
#include <linux/kernel.h>  
#include <linux/i2c.h>  
#include <linux/delay.h>  
#include <linux/gpio.h>  
#include <linux/input/cyttsp.h>  
#include <linux/i2c/pca953x.h>
```

```
//#include "board-ventana.h"  
//#include "touch.h"
```

```
#define TOUCH_GPIO_IRQ_CYTTSP 35  
#define TOUCH_GPIO_RST_CYTTSP TOUCHSCREEN_GPIO_RST
```

```
#define GPIO_TO_IRQ
```

```
#define CY_I2C_ADR 0x67  
#define CY_USE_MT  
//#define CY_MAXX 2000  
//#define CY_MAXY 2000  
#define CY_MAXX 1024  
#define CY_MAXY 600
```

```
enum cyttsp_gest {  
    CY_GEST_GRP_NONE = 0x0F,  
    CY_GEST_GRP1 = 0x10,  
    CY_GEST_GRP2 = 0x20,  
    CY_GEST_GRP3 = 0x40,  
    CY_GEST_GRP4 = 0x80,  
};
```

```
/* default bootloader keys */  
u8 dflt_bl_keys[] = {  
    0, 1, 2, 3, 4, 5, 6, 7  
};
```

```
static int cyttsp_i2c_init(void)  
{  
    int ret;
```

```

ret = gpio_request(TOUCH_GPIO_IRQ_CYTTSP, "CYTTSP I2C IRQ GPIO");
if (ret) {
    pr_err("%s: Failed to request GPIO %d\n",
        __func__,
        TOUCH_GPIO_IRQ_CYTTSP);
    return ret;
}
gpio_direction_input(TOUCH_GPIO_IRQ_CYTTSP);
return 0;
}

```

```

static int cyttsp_i2c_reset(void)
{
    int ret = 0;

```

```

ret = gpio_request(TOUCH_GPIO_RST_CYTTSP, "CYTTSP I2C RST GPIO");
if (ret) {
    pr_err("%s: Failed to request GPIO %d\n",
        __func__,
        TOUCH_GPIO_RST_CYTTSP);
    return ret;
}

```

```

gpio_direction_output(TOUCH_GPIO_RST_CYTTSP,0);

```

```

gpio_set_value(TOUCH_GPIO_RST_CYTTSP, 1);
pr_info("%s: gpio_set_value(step%d)=%d r=%d\n", __func__, 1, 1, ret);
msleep(10);
gpio_set_value(TOUCH_GPIO_RST_CYTTSP, 0);
pr_info("%s: gpio_set_value(step%d)=%d r=%d\n", __func__, 2, 0, ret);
msleep(1000);
gpio_set_value(TOUCH_GPIO_RST_CYTTSP, 1);
msleep(10);
pr_info("%s: gpio_set_value(step%d)=%d r=%d\n", __func__, 3, 1, ret);

return ret;
}

```

```

static void cyttsp_i2c_exit(void)
{
    gpio_free(TOUCH_GPIO_IRQ_CYTTSP);
}

```

```

static int cyttsp_i2c_wakeup(void)
{
    return 0;
}

```

```

}

static struct cyttsp_platform_data cypress_i2c_ttsp_platform_data = {
    .wakeup = cyttsp_i2c_wakeup,
    .init = cyttsp_i2c_init,
    .reset = cyttsp_i2c_reset,
    .exit = cyttsp_i2c_exit,
    .maxx = CY_MAXX,
    .maxy = CY_MAXY,
    .use_hndshk = false,
    .use_sleep = true,
    /* activate up to 4 groups
     * and set active distance
     */
    .act_dist = CY_GEST_GRP_NONE & CY_ACT_DIST_DFLT,
    /* change act_intrvl to customize the Active power state
     * scanning/processing refresh interval for Operating mode
     */
    .act_intrvl = CY_ACT_INTRVL_DFLT,
    /* change tch_tmout to customize the touch timeout for the
     * Active power state for Operating mode
     */
    .tch_tmout = CY_TCH_TMOUT_DFLT,
    /* change lp_intrvl to customize the Low Power power state
     * scanning/processing refresh interval for Operating mode
     */
    .lp_intrvl = CY_LP_INTRVL_DFLT,
    .name = CY_I2C_NAME,
    .irq_gpio = TOUCH_GPIO_IRQ_CYTTSP, /* GPIO1 Value for IRQ */
    // .rst_gpio = TOUCH_GPIO_RST_CYTTSP, /* GPIO2 Value for RST */
    .bl_keys = dflt_bl_keys,
};

/*static const struct i2c_board_info cyttsp_i2c_info[] = {
    {
        I2C_BOARD_INFO(CY_I2C_NAME, CY_I2C_ADR),
        .irq = OMAP_GPIO_IRQ(TOUCH_GPIO_IRQ_CYTTSP),
        .platform_data = &cypress_i2c_ttsp_platform_data,
    },
};*/

//struct tegra_touchscreen_init cyttsp_init_data = {
// .irq_gpio = TOUCH_GPIO_IRQ_CYTTSP, /* GPIO1 Value for IRQ */
// .rst_gpio = TOUCH_GPIO_RST_CYTTSP, /* GPIO2 Value for RST */
// .sv_gpio1 = {0}, /* Valid, GPIOx, Set value, Delay */
// .sv_gpio2 = {0}, /* Valid, GPIOx, Set value, Delay */
// .sv_gpio1 = {1, TOUCH_GPIO_RST_CYTTSP, 0, 40}, /* Valid, GPIOx, Set value, Delay */
// .sv_gpio2 = {1, TOUCH_GPIO_RST_CYTTSP, 1, 500}, /* Valid, GPIOx, Set value, Delay */

```

```
// .ts_boardinfo = {0, cyttsp_i2c_info, 1} /* BusNum, BoardInfo, Value */
//};
```

1.69 dagger-1.1.0 1.1.0

1.70 dagger-compiler 1.1.0

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1.76 dhcpd 5.0 :jellybean

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dhcpd - DHCP client daemon

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1.78 dropbear 0.49 :jellybean

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loginrec.c

loginrec.h

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1.79 e2fsprogs 1.41.11 :jellybean

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```
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```

```
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Theodore Ts'o
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```
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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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<signature of Ty Coon>, 1 April 1989
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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

-

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** NOTE! The following LGPL license applies to the tdb

** library. This does NOT imply that all of Samba is released

#

This is a Makefile stub which handles the creation of BSD shared
libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

BSDLIB_VERSION = 1.0


```

# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
$(LN) $(BSD_LIB) ../$(BSD_LIB)

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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```

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*/

package org.easymock;

import java.io.Serializable;

```

import org.easymock.internal.ArgumentToString;

/**
 * A convenience implementation of {@link ArgumentsMatcher}. A subclass that
 * does not redefine any method will behave like
 * {@link MockControl#EQUALS_MATCHER}.
 *
 * @deprecated Since EasyMock 2.0, ArgumentsMatchers are only supported
 * for the legacy MockControl. For mock objects generated by the methods
 * on EasyMock, there are per-argument matchers available. For more
 * information, see the EasyMock documentation.
 */
@Deprecated
public abstract class AbstractMatcher implements ArgumentsMatcher, Serializable {

    private static final long serialVersionUID = -5463061331694985383L;

    /**
     * Checks whether an expected argument matches an actual argument; the method
     * is used by
     * {@link AbstractMatcher#matches(Object[], Object[])}. The arguments
     * provided to this method are always not null.
     *
     * @param expected
     *     the expected argument.
     * @param actual
     *     the actual argument.
     * @return true if the arguments match, false otherwise.
     */
    protected boolean argumentMatches(Object expected, Object actual) {
        return expected.equals(actual);
    }

    /**
     * Converts an argument to a String, used by
     * {@link AbstractMatcher#toString(Object[])}.
     *
     * @param argument
     *     the argument to convert to a String.
     * @return a String representation of the argument.
     */
    protected String argumentToString(Object argument) {
        StringBuffer result = new StringBuffer();
        ArgumentToString.appendArgument(argument, result);
        return result.toString();
    }
}

```

```

/**
 * Checks whether an expected argument array matches an actual argument array.
 * This convenience implementation uses
 * <code>argumentMatches(Object, Object)</code> to check whether arguments
 * pairs match. If all the arguments match, true is returned, otherwise
 * false. In two cases, <code>argumentMatches(Object, Object)</code> is
 * not called: If both argument arrays are null, they match; if one and only
 * one is null, they do not match.
 *
 * @param expected
 *     the expected arguments.
 * @param actual
 *     the actual arguments.
 * @return true if the arguments match, false otherwise.
 */
public boolean matches(Object[] expected, Object[] actual) {
    if (expected == actual) {
        return true;
    }
    if (expected == null || actual == null) {
        return false;
    }
    if (expected.length != actual.length) {
        return false;
    }
    for (int i = 0; i < expected.length; i++) {
        Object expectedObject = expected[i];
        Object actualObject = actual[i];

        if (expectedObject == null && actualObject == null) {
            continue;
        }

        if (expectedObject == null && actualObject != null) {
            return false;
        }

        if (expectedObject != null && actualObject == null) {
            return false;
        }

        if (!argumentMatches(expectedObject, actualObject)) {
            return false;
        }
    }
    return true;
}

```



```

/**
 * Returns a string representation of the matcher. This convenience
 * implementation calls {@link AbstractMatcher#argumentToString(Object)}
 * for every argument in the given array and returns the string representations
 * of the arguments separated by commas.
 *
 * @param arguments
 *       the arguments to be used in the string representation.
 * @return a string representation of the matcher.
 */
public String toString(Object[] arguments) {
    if (arguments == null)
        arguments = new Object[0];

    StringBuilder result = new StringBuilder();

    for (int i = 0; i < arguments.length; i++) {
        if (i > 0) {
            result.append(", ");
        }
        result.append(argumentToString(arguments[i]));
    }
    return result.toString();
}
}

```

1.81 eclipse-basebuilder 3.6.2 :jellybean

1.81.1 Available under license :

```

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 * $Header: /cvsroot/tools/org.eclipse.orbit/javax.servlet.jsp/META-INF/Attic/LICENSE.txt,v 1.1.2.1 2006/09/25
15:33:06 skaegi Exp $
 * $Revision: 1.1.2.1 $
 * $Date: 2006/09/25 15:33:06 $
 *
 * =====
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1.82 eclipse-windowbuilder unknown

:jellybean

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*FocalTech ft5x0x expand function for debug.  
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*  
*Note:the error code of EIO is the general error in this file.  
*/
```

1.93 freetype-2.4.6 2.4.6 :jellybean

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1.94 fsck_msdos 2.0 :jellybean

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1.100 glib 2.20.1 :ICS

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1.105 hamcrest-core-1.1 1.1

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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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1.115 ipsec-tools-0.7.3 0.7.3

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For the top level install script:

```
# Itmain.sh - Provide generalized library-building support services.
# NOTE: Changing this file will not affect anything until you rerun configure.
#
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For the ipsec-tools library:

/* $NetBSD: ipsec_get_policylen.c,v 1.6.6.1 2007/08/01 11:52:17 vanhu Exp $ */

/* $KAME: ipsec_get_policylen.c,v 1.5 2000/05/07 05:25:03 itojun Exp $ */

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 */

```

1.116 iptables 1.4.7 :jellybean

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1.120 javax.annotation API 1.2 1.2

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1.122 jhead 2.9 :jellybean

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1.123 jmdns 3.4.1 :jellybean

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1.124 jmonkeyengine 3 :jellybean

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==> engine/src/ogre/com/jme3/scene/plugins/ogre/matext/package.html <==
==> engine/src/ogre/com/jme3/scene/plugins/ogre/matext/MaterialExtensionLoader.java <==
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==> engine/src/ogre/com/jme3/scene/plugins/ogre/MeshAnimationLoader.java <==
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==> engine/src/ogre/com/jme3/scene/plugins/ogre/SceneLoader.java <==
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==> engine/src/ogre/com/jme3/scene/plugins/ogre/OgreMeshKey.java <==
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*/
==> engine/src/blender/Common/MatDefs/Texture3D/tex3D.frag <==
==> engine/src/blender/Common/MatDefs/Texture3D/tex3D.j3md <==
==> engine/src/blender/Common/MatDefs/Texture3D/tex3D.vert <==
==> engine/src/blender/.DS_Store <==
==> engine/src/blender/com/jme3/.DS_Store <==
==> engine/src/blender/com/jme3/asset/BlenderKey.java <==
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*/
==> engine/src/blender/com/jme3/asset/GeneratedTextureKey.java <==
/**
* This key is mostly used to distinguish between textures that are loaded from
* the given assets and those being generated automatically. Every generated
* texture will have this kind of key attached.
*
* @author Marcin Roguski (Kaelthas)
*/
==> engine/src/blender/com/jme3/scene/plugins/blender/meshes/MeshContext.java <==
/**
* Class that holds information about the mesh.
*
* @author Marcin Roguski (Kaelthas)
*/
==> engine/src/blender/com/jme3/scene/plugins/blender/meshes/MeshHelper.java <==
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==> engine/src/blender/com/jme3/scene/plugins/blender/textures/TextureHelper.java <==
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==> engine/src/blender/com/jme3/scene/plugins/blender/textures/TextureGeneratorNoise.java <==
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==> engine/src/blender/com/jme3/scene/plugins/blender/textures/TextureGeneratorStucci.java <==
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*/

==> engine/src/blender/com/jme3/scene/plugins/blender/textures/TextureGeneratorWood.java <==

/*

*

* \$Id: noise.c 14611 2008-04-29 08:24:33Z campbellbarton \$

*

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*/

==> engine/src/blender/com/jme3/scene/plugins/blender/textures/blending/TextureBlenderDDS.java <==

/**

* The class that is responsible for blending the following texture types:

* DXT1

* DXT3

* DXT5

* Not yet supported (but will be):

* DXT1A:

* @author Marcin Roguski (Kaelthas)

```

*/
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/blending/TextureBlenderAWT.java <==
/**
 * The class that is responsible for blending the following texture types:
 * <li> RGBA8
 * <li> ABGR8
 * <li> BGR8
 * <li> RGB8
 * Not yet supported (but will be):
 * <li> ARGB4444:
 * <li> RGB10:
 * <li> RGB11110F:
 * <li> RGB16:
 * <li> RGB16F:
 * <li> RGB16F_to_RGB11110F:
 * <li> RGB16F_to_RGB9E5:
 * <li> RGB32F:
 * <li> RGB565:
 * <li> RGB5A1:
 * <li> RGB9E5:
 * <li> RGBA16:
 * <li> RGBA16F
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/blending/TextureBlenderLuminance.java <==
/**
 * The class that is responsible for blending the following texture types:
 * <li> Luminance8
 * <li> Luminance8Alpha8
 * Not yet supported (but will be):
 * <li> Luminance16:
 * <li> Luminance16Alpha16:
 * <li> Luminance16F:
 * <li> Luminance16FAAlpha16F:
 * <li> Luminance32F:
 * @author Marcin Roguski (Kaelthas)
*/
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/blending/TextureBlender.java <==
/**
 * An interface for texture blending classes (the classes that mix the texture
 * pixels with the material colors).
 *
 * @author Marcin Roguski (Kaelthas)
*/
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/blending/AbstractTextureBlender.java <==
/**
 * An abstract class that contains the basic methods used by the classes that
 * will derive from it.
 *
 * @author Marcin Roguski (Kaelthas)

```

```

*/
/* package */abstract class AbstractTextureBlender implements TextureBlender {
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/blending/TextureBlenderFactory.java <==
/**
* This class creates the texture blending class depending on the texture type.
*
* @author Marcin Roguski (Kaelthas)
*/
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/NoiseGenerator.java <==
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*/
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/TextureGeneratorVoronoi.java <==
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*/
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/TextureGeneratorClouds.java <==
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*/
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/UVProjectionGenerator.java <==
/**
* This class helps with projection calculations.
*
* @author Marcin Roguski (Kaelthas)
*/
/* package */class UVProjectionGenerator {
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/TextureGeneratorBlend.java <==
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*/
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/TexturePixel.java <==

```

```

/**
 * The class that stores the pixel values of a texture.
 *
 * @author Marcin Roguski (Kaelthas)
 */
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/ImageLoader.java <==
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 */
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/TextureGenerator.java <==
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==> engine/src/blender/com/jme3/scene/plugins/blender/textures/TextureGeneratorMarble.java <==
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==> engine/src/blender/com/jme3/scene/plugins/blender/textures/noiseconstants.dat <==
==> engine/src/blender/com/jme3/scene/plugins/blender/curves/CurvesHelper.java <==
/**
 * A class that is used in mesh calculations.
 * @author Marcin Roguski
 */
==> engine/src/blender/com/jme3/scene/plugins/blender/curves/BezierCurve.java <==
/**
 * A class that helps to calculate the bezier curves values. It uses doubles for performing calculations to minimize
 * floating point operations errors.
 * @author Marcin Roguski
 */
==> engine/src/blender/com/jme3/scene/plugins/blender/cameras/CameraHelper.java <==
/**
 * A class that is used to load cameras into the scene.
 * @author Marcin Roguski
 */
==> engine/src/blender/com/jme3/scene/plugins/blender/animations/IpoHelper.java <==
/**
 * This class helps to compute values from interpolation curves for features
 * like animation or constraint influence. The curves are 3rd degree bezier
 * curves.
 *
 * @author Marcin Roguski
 */
==> engine/src/blender/com/jme3/scene/plugins/blender/animations/ArmatureHelper.java <==
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*/
==> engine/src/blender/com/jme3/scene/plugins/blender/animations/Ipo.java <==
/**
* This class is used to calculate bezier curves value for the given frames. The
* Ipo (interpolation object) consists of several b-spline curves (connected 3rd
* degree bezier curves) of a different type.
*
* @author Marcin Roguski
*/
==> engine/src/blender/com/jme3/scene/plugins/blender/animations/BoneContext.java <==
/**
* This class holds the basic data that describes a bone.
*
* @author Marcin Roguski (Kaelthas)
*/
==> engine/src/blender/com/jme3/scene/plugins/blender/animations/CalculationBone.java <==
/**
* The purpose of this class is to imitate bone's movement when calculating inverse kinematics.
* @author Marcin Roguski (Kaelthas)
*/
==> engine/src/blender/com/jme3/scene/plugins/blender/objects/Properties.java <==
/**
* The blender object's custom properties.
* This class is valid for all versions of blender.
* @author Marcin Roguski (Kaelthas)
*/
==> engine/src/blender/com/jme3/scene/plugins/blender/objects/ObjectHelper.java <==
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*/
==> engine/src/blender/com/jme3/scene/plugins/blender/modifiers/MirrorModifier.java <==
/**
* This modifier allows to array modifier to the object.
*
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class MirrorModifier extends Modifier {
==> engine/src/blender/com/jme3/scene/plugins/blender/modifiers/ArrayModifier.java <==
/**

```

```

* This modifier allows to array modifier to the object.
*
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class ArrayModifier extends Modifier {
==> engine/src/blender/com/jme3/scene/plugins/blender/modifiers/ObjectAnimationModifier.java <==
/**
* This modifier allows to add animation to the object.
*
* @author Marcin Roguski (Kaelthas)
*/
/* package */class ObjectAnimationModifier extends Modifier {
==> engine/src/blender/com/jme3/scene/plugins/blender/modifiers/ModifierHelper.java <==
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*/
==> engine/src/blender/com/jme3/scene/plugins/blender/modifiers/ArmatureModifier.java <==
==> engine/src/blender/com/jme3/scene/plugins/blender/modifiers/Modifier.java <==
/**
* This class represents an object's modifier. The modifier object can be varied

```

```

* and the user needs to know what is the type of it for the specified type
* name. For example "ArmatureModifierData" type specified in blender is
* represented by AnimData object from jMonkeyEngine.
*
* @author Marcin Roguski (Kaelthas)
*/
==> engine/src/blender/com/jme3/scene/plugins/blender/modifiers/ParticlesModifier.java <==
/**
* This modifier allows to add particles to the object.
*
* @author Marcin Roguski (Kaelthas)
*/
/* package */class ParticlesModifier extends Modifier {
==> engine/src/blender/com/jme3/scene/plugins/blender/AbstractBlenderHelper.java <==
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*/
==> engine/src/blender/com/jme3/scene/plugins/blender/particles/ParticlesHelper.java <==
==> engine/src/blender/com/jme3/scene/plugins/blender/materials/IAAlphaMask.java <==
/**

```

```

* An interface used in calculating alpha mask during particles' texture calculations.
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ interface IAlphaMask {
==> engine/src/blender/com/jme3/scene/plugins/blender/materials/MaterialContext.java <==
/**
* This class holds the data about the material.
* @author Marcin Roguski (Kaelthas)
*/
==> engine/src/blender/com/jme3/scene/plugins/blender/materials/MaterialHelper.java <==
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*/
==> engine/src/blender/com/jme3/scene/plugins/blender/file/BlenderInputStream.java <==
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*/
==> engine/src/blender/com/jme3/scene/plugins/blender/file/DynamicArray.java <==
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*/

==> engine/src/blender/com/jme3/scene/plugins/blender/file/Pointer.java <==

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*/

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*/
==> engine/src/blender/com/jme3/scene/plugins/blender/file/Structure.java <==
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*/

```
==> engine/src/blender/com/jme3/scene/plugins/blender/file/Field.java <==
```

```
/**
```

* This class represents a single field in the structure. It can be either a primitive type or a table or a reference to
* another structure.

* @author Marcin Roguski

```
*/
```

```
/*package*/
```

```
==> engine/src/blender/com/jme3/scene/plugins/blender/file/DnaBlockData.java <==
```

```
/*
```

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```
*/
```

```

==> engine/src/blender/com/jme3/scene/plugins/blender/exceptions/BlenderFileException.java <==
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 */
/**
 * This exception is thrown when blend file data is somehow invalid.
==> engine/src/blender/com/jme3/scene/plugins/blender/AbstractBlenderLoader.java <==
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*/
==> engine/src/blender/com/jme3/scene/plugins/blender/lights/LightHelper.java <==
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==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintChildOf.java <==
/**
* This class represents 'ChildOf' constraint type in blender.
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class ConstraintChildOf extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/Constraint.java <==
/**
* The implementation of a constraint.
*
* @author Marcin Roguski (Kaelthas)
*/
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintTransform.java <==
/**
* This class represents 'Transform' constraint type in blender.
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class ConstraintTransform extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintClampTo.java <==
/**
* This class represents 'Clamp to' constraint type in blender.
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class ConstraintClampTo extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintRigidBodyJoint.java <==
/**
* This class represents 'Rigid body joint' constraint type in blender.
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class ConstraintRigidBodyJoint extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/Feature.java <==
/**
* This class represents either owner or target of the constraint. It has the
* common methods that take the evaluation space of the feature.
*
* @author Marcin Roguski (Kaelthas)
*/
/* package */class Feature {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintMinMax.java <==
/**
* This class represents 'Min max' constraint type in blender.
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class ConstraintMinMax extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintFollowPath.java <==
/**

```

```

* This class represents 'Follow path' constraint type in blender.
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class ConstraintFollowPath extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintNull.java <==
/**
* This class represents 'Null' constraint type in blender.
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class ConstraintNull extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintDistLimit.java <==
/**
* This class represents 'Dist limit' constraint type in blender.
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class ConstraintDistLimit extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintPython.java <==
/**
* This class represents 'Python' constraint type in blender.
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class ConstraintPython extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintLocLimit.java <==
/**
* This class represents 'Loc limit' constraint type in blender.
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class ConstraintLocLimit extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintAction.java <==
/**
* This class represents 'Action' constraint type in blender.
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class ConstraintAction extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/BlenderTrack.java <==
/**
* This class holds either the bone track or spatial track. Is made to improve
* code readability.
*
* @author Marcin Roguski (Kaelthas)
*/
/* package */final class BlenderTrack implements Track {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintLockTrack.java <==
/**
* This class represents 'Action' constraint type in blender.
* @author Marcin Roguski (Kaelthas)
*/
/*package*/ class ConstraintLockTrack extends Constraint {

```



```

==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintSizeLike.java <==
/**
 * This class represents 'Size like' constraint type in blender.
 * @author Marcin Roguski (Kaelthas)
 */
/*package*/ class ConstraintSizeLike extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintPivot.java <==
/**
 * The pivot constraint. Available for blender 2.50+.
 * @author Marcin Roguski (Kaelthas)
 */
/*package*/ class ConstraintPivot extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintSizeLimit.java <==
/**
 * This class represents 'Size limit' constraint type in blender.
 * @author Marcin Roguski (Kaelthas)
 */
/*package*/ class ConstraintSizeLimit extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintShrinkWrap.java <==
/**
 * This class represents 'Shrink wrap' constraint type in blender.
 * @author Marcin Roguski (Kaelthas)
 */
/*package*/ class ConstraintShrinkWrap extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintHelper.java <==
/**
 * This class should be used for constraint calculations.
 * @author Marcin Roguski (Kaelthas)
 */
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintDampTrack.java <==
/**
 * The damp track constraint. Available for blender 2.50+.
 * @author Marcin Roguski (Kaelthas)
 */
/*package*/ class ConstraintDampTrack extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintSplineInverseKinematic.java <==
/**
 * The spline inverse kinematic constraint. Available for blender 2.50+.
 * @author Marcin Roguski (Kaelthas)
 */
/*package*/ class ConstraintSplineInverseKinematic extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintLocLike.java <==
/**
 * This class represents 'Loc like' constraint type in blender.
 * @author Marcin Roguski (Kaelthas)
 */
/*package*/ class ConstraintLocLike extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintStretchTo.java <==

```

```

/**
 * This class represents 'Stretch to' constraint type in blender.
 * @author Marcin Roguski (Kaelthas)
 */
/**package*/ class ConstraintStretchTo extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintInverseKinematics.java <==
/**
 * This class represents 'Inverse kinematics' constraint type in blender.
 * @author Marcin Roguski (Kaelthas)
 */
/**package*/ class ConstraintInverseKinematics extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintRotLike.java <==
/**
 * This class represents 'Rot like' constraint type in blender.
 * @author Marcin Roguski (Kaelthas)
 */
/**package*/ class ConstraintRotLike extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/constraints/ConstraintRotLimit.java <==
/**
 * This class represents 'Rot limit' constraint type in blender.
 *
 * @author Marcin Roguski (Kaelthas)
 */
/* package */class ConstraintRotLimit extends Constraint {
==> engine/src/blender/com/jme3/scene/plugins/blender/BlenderContext.java <==
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==> engine/src/blender/com/.DS_Store <==

==> engine/src/jbullet/com/jme3/bullet/objects/infos/RigidBodyMotionState.java <==

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==> engine/src/jbullet/com/jme3/bullet/objects/PhysicsCharacter.java <==

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==> engine/src/jbullet/com/jme3/bullet/collision/shapes/HullCollisionShape.java <==
==> engine/src/jbullet/com/jme3/bullet/collision/shapes/SimplexCollisionShape.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* A simple point, line, triangle or quad collisionShape based on one to four points-
* @author normenhansen
*/
==> engine/src/jbullet/com/jme3/bullet/collision/shapes/CylinderCollisionShape.java <==
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==> engine/src/jbullet/com/jme3/bullet/collision/shapes/HeightfieldCollisionShape.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* Uses Bullet Physics Heightfield terrain collision system. This is MUCH faster
* than using a regular mesh.
* There are a couple tricks though:
* -No rotation or translation is supported.
* -The collision bbox must be centered around 0,0,0 with the height above and below the y-axis being
* equal on either side. If not, the whole collision box is shifted vertically and things don't collide
* as they should.
*
* @author Brent Owens
*/
==> engine/src/jbullet/com/jme3/bullet/collision/shapes/MeshCollisionShape.java <==
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/*
* To change this template, choose Tools | Templates
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*/
/**
*
* @author normenhansen
*/
==> engine/src/jbullet/com/jme3/bullet/collision/shapes/SphereCollisionShape.java <==
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==> engine/src/jbullet/com/jme3/bullet/collision/shapes/ConeCollisionShape.java <==
```

```
/*
```

```
* To change this template, choose Tools | Templates
```

```
* and open the template in the editor.
```

```
*/
```

```
/**
```

```
*
```

```
* @author normenhansen
```

```
*/
```

```
==> engine/src/jbullet/com/jme3/bullet/util/DebugShapeFactory.java <==
```

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```
==> engine/src/jbullet/com/jme3/bullet/util/Converter.java <==
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```
==> engine/src/jbullet/com/jme3/bullet/joints/Point2PointJoint.java <==
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==> engine/src/jbullet/com/jme3/bullet/joints/SixDofJoint.java <==
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*/

==> engine/src/jbullet/com/jme3/bullet/joints/ConeJoint.java <==

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*/

==> engine/src/jbullet/com/jme3/bullet/joints/HingeJoint.java <==

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==> engine/src/jbullet/com/jme3/bullet/joints/SliderJoint.java <==
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*/
==> engine/src/jbullet/com/jme3/bullet/joints/motors/RotationalLimitMotor.java <==
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*/
/**
*
* ==> engine/src/jbullet/com/jme3/bullet/joints/motors/TranslationalLimitMotor.java <==
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==> engine/src/jbullet/com/jme3/bullet/joints/PhysicsJoint.java <==
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==> engine/src/desktop/com/jme3/system/Natives.java <==
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==> engine/src/desktop/com/jme3/system/JmeDesktopSystem.java <==
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==> engine/src/desktop/com/jme3/system/JmeCanvasContext.java <==
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==> engine/src/desktop/com/jme3/system/awt/AwtPanel.java <==
==> engine/src/desktop/com/jme3/system/awt/PaintMode.java <==
==> engine/src/desktop/com/jme3/system/awt/AwtPanelsContext.java <==
==> engine/src/desktop/com/jme3/texture/plugins/AWTLoader.java <==
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==> engine/src/desktop/com/jme3/util/Screenshots.java <==
==> engine/src/desktop/com/jme3/app/Monkey.png <==
==> engine/src/desktop/com/jme3/app/AppletHarness.java <==
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==> engine/src/desktop/com/jme3/app/SettingsDialog.java <==
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==> engine/src/desktop/com/jme3/app/state/MjpegFileWriter.java <==

/**

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* @author monceaux, normenhansen

*/

==> engine/src/desktop/com/jme3/app/state/VideoRecorderAppState.java <==

/**

* A Video recording AppState that records the screen output into an AVI file with
* M-JPEG content. The file should be playable on any OS in any video player.

* The video recording starts when the state is attached and stops when it is detached
* or the application is quit. You can set the fileName of the file to be written when the
* state is detached, else the old file will be overwritten. If you specify no file
* the AppState will attempt to write a file into the user home directory, made unique
* by a timestamp.

* @author normenhansen, Robert McIntyre

*/

==> engine/src/desktop/com/jme3/app/state/ScreenshotAppState.java <==

==> engine/src/desktop/com/jme3/input/awt/AwtKeyInput.java <==

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```
==> engine/src/desktop/com/jme3/input/awt/AwtMouseInput.java <==
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```
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*/
==> engine/src/desktop/jme3tools/converters/ImageToAwt.java <==
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```

```

==> engine/src/desktop/jme3tools/navigation/RLSailing.java <==

```

```

/*

```

```

* To change this template, choose Tools | Templates
* and open the template in the editor.

```

```

*/

```

```

/**

```

```

* A utility class to package up a rhumb line sailing

```

```

*

```

```

* @author Benjamin Jakobus, based on JMarine (by Cormac Gebruers and Benjamin
*      Jakobus)

```

```

* @version 1.0

```

```

* @since 1.0

```

```

*/

```

```

==> engine/src/desktop/jme3tools/navigation/MapModel3D.java <==

```

```

/*

```

```

* To change this template, choose Tools | Templates
* and open the template in the editor.

```

```

*/

```

```

/**

```

```

* A representation of the actual map in terms of lat/long and x,y,z co-ordinates.

```

```

* The Map class contains various helper methods such as methods for determining

```

```

* the world unit positions for lat/long coordinates and vice versa. This map projection

```

```

* does not handle screen/pixel coordinates.

```

```

*

```

```

* @author Benjamin Jakobus (thanks to Cormac Gebruers)

```

```

* @version 1.0

```

```

* @since 1.0

```

```

*/

```

```

==> engine/src/desktop/jme3tools/navigation/NavCalculator.java <==

```

```

/*

```

```

* To change this template, choose Tools | Templates
* and open the template in the editor.

```

```

*/

```

```

/**

```

```

* A utility class for performing position calculations

```

```

*
* @author Benjamin Jakobus, based on JMarine (by Cormac Gebruers and Benjamin
*     Jakobus)
* @version 1.0
* @since 1.0
*/
==> engine/src/desktop/jme3tools/navigation/InvalidPositionException.java <==
/*
* To change this template, choose Tools | Templates
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*/
/**
*
* @author normenhansen
*/
==> engine/src/desktop/jme3tools/navigation/Coordinate.java <==
/*
* To change this template, choose Tools | Templates
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*/
/**
* Coordinate class. Used to store a coordinate in [DD]D MM.M format.
*
* @author Benjamin Jakobus (based on JMarine by Benjamin Jakobus and Cormac Gebruers)
* @version 1.0
* @since 1.0
*/
==> engine/src/desktop/jme3tools/navigation/NumUtil.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* Provides various helper methods for number conversions (such as degree to radian
* conversion, decimal degree to radians etc)
* @author Benjamin Jakobus, based on JMarine (by Cormac Gebruers and Benjamin
*     Jakobus)
* @version 1.0
* @since 1.0
*/
==> engine/src/desktop/jme3tools/navigation/MapModel2D.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* A representation of the actual map in terms of lat/long and x,y co-ordinates.
* The Map class contains various helper methods such as methods for determining

```



```

* the pixel positions for lat/long co-ordinates and vice versa.
*
* @author Cormac Gebruers
* @author Benjamin Jakobus
* @version 1.0
* @since 1.0
*/
==> engine/src/desktop/jme3tools/navigation/Position.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* This class represents the position of an entity in the world.
*
* @author Benjamin Jakobus (based on JMarine by Cormac Gebruers and Benjamin Jakobus)
* @version 1.0
* @since 1.0
*/
==> engine/src/desktop/jme3tools/navigation/GCSailing.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* A utility class to package up a great circle sailing.
*
* @author Benjamin Jakobus, based on JMarine (by Cormac Gebruers and Benjamin
*     Jakobus)
*
* @version 1.0
* @since 1.0
*/
==> engine/src/desktop/jme3tools/navigation/StringUtil.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* A collection of String utilities.
*
* @author Benjamin Jakobus
* @version 1.0
*/
==> engine/src/terrain/Common/MatDefs/Terrain/HeightBasedTerrain.vert <==
==> engine/src/terrain/Common/MatDefs/Terrain/Terrain.j3md <==
==> engine/src/terrain/Common/MatDefs/Terrain/HeightBasedTerrain.frag <==
==> engine/src/terrain/Common/MatDefs/Terrain/TerrainLighting.frag <==

```

```

==> engine/src/terrain/Common/MatDefs/Terrain/TerrainLighting.vert <==
==> engine/src/terrain/Common/MatDefs/Terrain/TerrainLighting.j3md <==
==> engine/src/terrain/Common/MatDefs/Terrain/HeightBasedTerrain.j3md <==
==> engine/src/terrain/Common/MatDefs/Terrain/Terrain.frag <==
==> engine/src/terrain/Common/MatDefs/Terrain/Terrain.vert <==
==> engine/src/terrain/com/jme3/terrain/heightmap/HeightMapGrid.java <==
/*
 * To change this template, choose Tools | Templates
 * and open the template in the editor.
 */
/**
 *
 * @author Anthyon
 */
/**
 * @Deprecated in favor of TerrainGridTileLoader
 */
==> engine/src/terrain/com/jme3/terrain/heightmap/ImageHeightmap.java <==
/*
 * To change this template, choose Tools | Templates
 * and open the template in the editor.
 */
/**
 * A heightmap that is built off an image.
 * If you want to be able to supply different Image types to
 * ImageBaseHeightMapGrid, you need to implement this interface,
 * and have that class extend Abstract heightmap.
 *
 * @author bowens
 * @deprecated
 */
==> engine/src/terrain/com/jme3/terrain/heightmap/CombinerHeightMap.java <==
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==> engine/src/terrain/com/jme3/terrain/heightmap/FaultHeightMap.java <==
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*/
==> engine/src/terrain/com/jme3/terrain/heightmap/MidpointDisplacementHeightMap.java <==

```

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 */
==> engine/src/terrain/com/jme3/terrain/heightmap/Namer.java <==
/*
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 */
/**
 *
 * @author Anthyon
 */
==> engine/src/terrain/com/jme3/terrain/heightmap/ImageBasedHeightMapGrid.java <==
/*
 * To change this template, choose Tools | Templates
 * and open the template in the editor.
 */
/**
 * Loads Terrain grid tiles with image heightmaps.
 * By default it expects a 16-bit grayscale image as the heightmap, but

```

```

* you can also call setImageType(BufferedImage.TYPE_) to set it to be a different
* image type. If you do this, you must also set a custom ImageHeightmap that will
* understand and be able to parse the image. By default if you pass in an image of type
* BufferedImage.TYPE_3BYTE_BGR, it will use the ImageBasedHeightMap for you.
*
* @author Anthyon, Brent Owens
*/
/**
* @Deprecated in favor of ImageTileLoader
*/
==> engine/src/terrain/com/jme3/terrain/heightmap/AbstractHeightMap.java <==
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*/
==> engine/src/terrain/com/jme3/terrain/heightmap/RawHeightMap.java <==
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```

```
*/
```

```
==> engine/src/terrain/com/jme3/terrain/heightmap/HillHeightMap.java <==
```

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```

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*/
```

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==> engine/src/terrain/com/jme3/terrain/heightmap/FluidSimHeightMap.java <==
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```

```
*/
```

```
/**
```

```
==> engine/src/terrain/com/jme3/terrain/heightmap/ParticleDepositionHeightMap.java <==
```

```
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```

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```
*/
```

```
==> engine/src/terrain/com/jme3/terrain/GeoMap.java <==
```

```
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```

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```

```
*/
```

```
==> engine/src/terrain/com/jme3/terrain/ProgressMonitor.java <==
```

```
/*
```

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```

```
*/
```

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/**
```

```
* Monitor the progress of an expensive terrain operation.
```

```
==> engine/src/terrain/com/jme3/terrain/noise/filter/ThermalErodeFilter.java <==
```

```
/**
```

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* @author Anthyon
*/
==> engine/src/terrain/com/jme3/terrain/noise/filter/IterativeFilter.java <==
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* @author Anthyon

*/

==> engine/src/terrain/com/jme3/terrain/noise/filter/OptimizedErode.java <==

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* @author Anthyon

*/

==> engine/src/terrain/com/jme3/terrain/noise/filter/HydraulicErodeFilter.java <==

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* @author Anthyon
*/
==> engine/src/terrain/com/jme3/terrain/noise/filter/AbstractFilter.java <==
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```

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*
* @author Anthyon
*/
==> engine/src/terrain/com/jme3/terrain/noise/filter/PerturbFilter.java <==
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* @author Anthyon
*/
==> engine/src/terrain/com/jme3/terrain/noise/filter/SmoothFilter.java <==
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*
* @author Anthonyon
*/
==> engine/src/terrain/com/jme3/terrain/noise/Color.java <==
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*
* @author Anthonyon
*/
/**
* Helper class for working with colors and gradients
*


```

* @author Anthyon
==> engine/src/terrain/com/jme3/terrain/noise/Filter.java <==
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*
* @author Anthyon
*/
==> engine/src/terrain/com/jme3/terrain/noise/Basis.java <==
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* @author Anthyon

*/

==> engine/src/terrain/com/jme3/terrain/noise/ShaderUtils.java <==

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* @author Anthyon

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==> engine/src/terrain/com/jme3/terrain/noise/modulator/CatRom2.java <==

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* @author Anthyon
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==> engine/src/terrain/com/jme3/terrain/noise/modulator/NoiseModulator.java <==
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* @author Anthyon
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==> engine/src/terrain/com/jme3/terrain/noise/basis/NoiseAggregator.java <==
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* @author Anthyon
*/
/**
 * A simple aggregator basis. Takes two basis functions and a rate and return
 * ==> engine/src/terrain/com/jme3/terrain/noise/basis/Noise.java <==
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* @author Anthyon
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==> engine/src/terrain/com/jme3/terrain/noise/basis/ImprovedNoise.java <==
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* @author Anthyon
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/**
==> engine/src/terrain/com/jme3/terrain/noise/basis/FilteredBasis.java <==
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* @author Anthyon

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==> engine/src/terrain/com/jme3/terrain/noise/fractal/Fractal.java <==

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* @author Anthyon

*/

/**

* Interface for a general fractal basis.

```

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 * @author Anthyon
 */
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*/
==> engine/src/terrain/com/jme3/terrain/geomipmap/lodcalc/DistanceLodCalculator.java <==
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==> engine/src/terrain/com/jme3/terrain/geomipmap/lodcalc/LodThreshold.java <==
/*

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==> engine/src/terrain/com/jme3/terrain/geomipmap/lodcalc/SimpleLodThreshold.java <==
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*/
==> engine/src/terrain/com/jme3/terrain/geomipmap/lodcalc/util/EntropyComputeUtil.java <==
/**

```

```

* Computes the entropy value (delta) for a given terrain block and
* LOD level.
* See the geomipmapping paper section
* "2.3.1 Choosing the appropriate GeoMipMap level"
*
* @author Kirill Vainer
*/
==> engine/src/terrain/com/jme3/terrain/geomipmap/loddcalc/PerspectiveLodCalculator.java <==
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*/
==> engine/src/terrain/com/jme3/terrain/geomipmap/TerrainGridTileLoader.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* @author normenhansen
*/

```

```

==> engine/src/terrain/com/jme3/terrain/geomipmap/UpdatedTerrainPatch.java <==
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 */
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*/
==> engine/src/terrain/com/jme3/terrain/geomipmap/LRUCache.java <==
/**
* An LRU cache, based on <code>LinkedHashMap</code>.
*
* <p>
* This cache has a fixed maximum number of elements (<code>cacheSize</code>).
* If the cache is full and another entry is added, the LRU (least recently
* used) entry is dropped.
*
* <p>
* This class is thread-safe. All methods of this class are synchronized.
*
==> engine/src/terrain/com/jme3/terrain/geomipmap/TerrainLodControl.java <==
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*/
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```
==> engine/src/terrain/com/jme3/terrain/geomipmap/TerrainGrid.java <==
```

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*/
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```
==> engine/src/terrain/com/jme3/terrain/geomipmap/grid/ImageTileLoader.java <==
```

```
/*
```

```
* To change this template, choose Tools | Templates
```

```
* and open the template in the editor.
```

```

*/
/**
 *
 * @author Anthyon, normenhansen
 */
==> engine/src/terrain/com/jme3/terrain/geomipmap/grid/FractalTileLoader.java <==
/*
 * To change this template, choose Tools | Templates
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 */
/**
 *
 * @author Anthyon, normenhansen
 */
==> engine/src/terrain/com/jme3/terrain/geomipmap/grid/AssetTileLoader.java <==
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 * To change this template, choose Tools | Templates
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 */
/**
 *
 * @author normenhansen
 */
==> engine/src/terrain/com/jme3/terrain/geomipmap/TerrainGridListener.java <==
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==> engine/src/terrain/com/jme3/terrain/geomipmap/LODGeomap.java <==

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==> engine/src/terrain/com/jme3/terrain/geomipmap/TerrainQuad.java <==
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==> engine/src/lwjgl/com/jme3/renderer/lwjgl/LwjglGL1Renderer.java <==
==> engine/src/lwjgl/com/jme3/input/lwjgl/LwjglKeyInput.java <==
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==> engine/src/lwjgl/com/jme3/input/lwjgl/JInputJoyInput.java <==

==> engine/src/networking/com/jme3/network/HostedConnection.java <==

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==> engine/src/networking/com/jme3/network/kernel/Kernel.java <==

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```
==> engine/src/networking/com/jme3/network/kernel/udp/UdpKernel.java <==
```

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==> engine/src/networking/com/jme3/network/kernel/udp/UdpConnector.java <==
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==> engine/src/networking/com/jme3/network/kernel/AbstractKernel.java <==
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==> engine/src/networking/com/jme3/network/kernel/EndpointEvent.java <==
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```
==> engine/src/networking/com/jme3/network/kernel/ConnectorException.java <==
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```
==> engine/src/networking/com/jme3/network/kernel/tcp/NioEndpoint.java <==
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```
==> engine/src/networking/com/jme3/network/kernel/tcp/SocketConnector.java <==
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==> engine/src/networking/com/jme3/network/kernel/tcp/SelectorKernel.java <==
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==> engine/src/networking/com/jme3/network/kernel/Connector.java <==
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==> engine/src/networking/com/jme3/network/kernel/NamedThreadFactory.java <==
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/**
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```
==> engine/src/networking/com/jme3/network/rmi/RmiSerializer.java <==
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```
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==> engine/src/networking/com/jme3/network/rmi/RemoteObjectDefMessage.java <==

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*/

==> engine/src/networking/com/jme3/network/rmi/RemoteObject.java <==

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==> engine/src/networking/com/jme3/network/serializing/serializers/ArraySerializer.java <==

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==> engine/src/networking/com/jme3/network/serializing/serializers/DoubleSerializer.java <==
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==> engine/src/networking/com/jme3/network/serializing/serializers/Vector3Serializer.java <==

/**

* @author Kirill Vainer

*/

==> engine/src/networking/com/jme3/network/serializing/serializers/SerializableSerializer.java <==

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 */
==> engine/src/networking/com/jme3/network/serializing/serializers/CollectionSerializer.java <==
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==> engine/src/networking/com/jme3/network/serializing/serializers/ShortSerializer.java <==
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==> engine/src/networking/com/jme3/network/serializing/serializers/ZIPSerializer.java <==
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==> engine/src/networking/com/jme3/network/serializing/serializers/FieldSerializer.java <==
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/**

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==> engine/src/networking/com/jme3/network/serializing/SerializerException.java <==

```

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==> engine/src/networking/com/jme3/network/serializing/Serializer.java <==
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*/  
==> engine/src/networking/com/jme3/network/serializing/Serializable.java <==  
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==> engine/src/networking/com/jme3/network/Client.java <==  
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==> engine/src/networking/com/jme3/network/base/package.html <==
==> engine/src/networking/com/jme3/network/base/MessageListenerRegistry.java <==
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==> engine/src/networking/com/jme3/network/base/ConnectorAdapter.java <==
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==> engine/src/networking/com/jme3/network/base/NioKernelFactory.java <==
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==> engine/src/networking/com/jme3/network/message/DisconnectMessage.java <==
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==> engine/src/networking/com/jme3/network/message/GZIPCompressedMessage.java <==
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==> engine/src/networking/com/jme3/network/message/ZIPCompressedMessage.java <==
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==> engine/src/networking/com/jme3/network/message/ChannelInfoMessage.java <==
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==> engine/src/networking/com/jme3/network/message/ClientRegistrationMessage.java <==
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==> engine/src/networking/com/jme3/network/message/CompressedMessage.java <==
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==> engine/src/networking/com/jme3/network/Server.java <==
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==> engine/src/networking/com/jme3/network/AbstractMessage.java <==
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==> engine/src/networking/com/jme3/network/ConnectionListener.java <==
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==> engine/src/networking/com/jme3/network/Filters.java <==
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==> engine/src/networking/com/jme3/network/ClientStateListener.java <==
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==> engine/src/core/checkers/quals/Dependent.java <==
/**
* Refines the qualified type of the annotated field or variable based on the
* qualified type of the receiver. The annotation declares a relationship
* between multiple type qualifier hierarchies.
*
* <p><b>Example:</b></p>
* Consider a field, { @code lock }, that is only initialized if the
* enclosing object (the receiver), is marked as { @code ThreadSafe }.
* Such a field can be declared as:
*
* <pre><code>
* private @Nullable @Dependent(result=NonNull.class, when=ThreadSafe.class)
*     Lock lock;

```

```

* </code></pre>
*/
==> engine/src/core/checkers/quals/SubtypeOf.java <==
/**
* A meta-annotation to specify all the qualifiers that the given qualifier
* is a subtype of. This provides a declarative way to specify the type
* qualifier hierarchy. (Alternatively, the hierarchy can be defined
* procedurally by subclassing { @link checkers.types.QualifierHierarchy } or
* { @link checkers.types.TypeHierarchy }.)
*
* <p>
* Example:
* <pre> @SubtypeOf( { Nullable.class } )
* public @interface NonNull { }
* </pre>
*
* <p>
*
* If a qualified type is a subtype of the same type without any qualifier,
* then use <code>Unqualified.class</code> in place of a type qualifier
* class. For example, to express that <code>@Encrypted <em>C</em></code>
* is a subtype of <code><em>C</em></code> (for every class
* <code><em>C</em></code>), and likewise for <code>@Interned</code>, write:
*
* <pre> @SubtypeOf(Unqualified.class)
* public @interface Encrypted { }
*
* &#64;SubtypeOf(Unqualified.class)
* public @interface Interned { }
* </pre>
*
* <p>
*
* For the root type qualifier in the qualifier hierarchy (i.e., the
==> engine/src/core/checkers/quals/DefaultLocation.java <==
/**
* Specifies the locations to which a { @link DefaultQualifier } annotation applies.
*
* @see DefaultQualifier
*/
==> engine/src/core/checkers/quals/DefaultQualifier.java <==
/**
* Applied to a declaration of a package, type, method, variable, etc.,
* specifies that the given annotation should be the default. The default is
* applied to all types within the declaration for which no other
* annotation is explicitly written.
* If multiple DefaultQualifier annotations are in scope, the innermost one
* takes precedence.

```

```

* DefaultQualifier takes precedence over { @link DefaultQualifierInHierarchy}.
* <p>
*
* If you wish to write multiple @DefaultQualifier annotations (for
* unrelated type systems, or with different { @code locations} fields) at
* the same location, use { @link DefaultQualifiers}.
*
* @see DefaultLocation
*/
==> engine/src/core/checkers/quals/DefaultQualifierInHierarchy.java <==
/**
* Indicates that the annotated qualifier is the default qualifier in the
* qualifier hierarchy: it applies if the programmer writes no explicit
* qualifier.
* <p>
*
* The { @link DefaultQualifier} annotation, which targets Java code elements,
* takes precedence over { @code DefaultQualifierInHierarchy}.
* <p>
*
* Each type qualifier hierarchy may have at most one qualifier marked as
* { @code DefaultQualifierInHierarchy}.
*
* @see checkers.quals.DefaultQualifier
*/
==> engine/src/core/checkers/quals/Unused.java <==
/**
* Declares that the field may not be accessed if the receiver is of the
* specified qualifier type (or any supertype).
*
* This property is verified by the checker that type-checks the { @code
* when} element value qualifier.
*
* <p><b>Example</b>
* Consider a class, { @code Table}, with a locking field, { @code lock}. The
* lock is used when a { @code Table} instance is shared across threads. When
* running in a local thread, the { @code lock} field ought not to be used.
*
* You can declare this behavior in the following way:
*
* <pre><code>
* class Table {
*     private @Unused(when=LocalToThread.class) final Lock lock;
*     ...
* }
* </code></pre>
*
* The checker for { @code @LocalToThread} would issue an error for the following code:

```

```

*
* <pre> @LocalToThread Table table = ...;
* ... table.lock ...;
* </pre>
*
*/
==> engine/src/core/checkers/quals/package-info.java <==
/**
* Contains the basic annotations to be used by all type systems
* and meta-annotations to qualify annotations (qualifiers).
*
* They may serve as documentation for the type qualifiers, and aid the
* Checker Framework to infer the relations between the type qualifiers.
*
* @checker.framework.manual #writing-a-checker Writing a checker
*/
==> engine/src/core/checkers/quals/DefaultQualifiers.java <==
/**
* Specifies the annotations to be included in a type without having to provide
* them explicitly.
*
* This annotation permits specifying multiple default qualifiers for more
* than one type system. It is necessary because Java forbids multiple
* annotations of the same name at a single location.
*
* Example:
* <!-- &nbsp; is a hack that prevents @ from being the first charater on the line, which confuses Javadoc -->
* <code><pre>
* &nbsp; @DefaultQualifiers({
* &nbsp; @DefaultQualifier("NonNull"),
* &nbsp; @DefaultQualifier(value = "Interned", locations = ALL_EXCEPT_LOCALS),
* &nbsp; @DefaultQualifier("Tainted")
* &nbsp; })
* </pre></code>
*
* @see DefaultQualifier
*/
==> engine/src/core/checkers/quals/TypeQualifier.java <==
/**
* A meta-annotation indicating that the annotated annotation is a type
* qualifier.
*
* Examples of such qualifiers: { @code @ReadOnly }, { @code @NonNull }
*/
==> engine/src/core/checkers/quals/Unqualified.java <==
/**
* A special annotation intended solely for representing an unqualified type in
* the qualifier hierarchy, as an argument to { @link SubtypeOf#value() },

```

```

* in the type qualifiers declarations.
*
* <p>
* Programmers cannot write this in source code.
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==> engine/src/core/com/jme3/animation/LoopMode.java <==
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/**
==> engine/src/core/com/jme3/animation/SkeletonControl.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* The Skeleton control deforms a model according to a skeleton,
* It handles the computation of the deformation matrices and performs
* the transformations on the mesh
*

```

```

* @author Rmy Bouquet Based on AnimControl by Kirill Vainer
*/
==> engine/src/core/com/jme3/animation/package.html <==
==> engine/src/core/com/jme3/animation/PoseTrack.java <==
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*/
==> engine/src/core/com/jme3/animation/BoneAnimation.java <==
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*/
/**
 * @deprecated use Animation instead with tracks of selected type (ie. BoneTrack, SpatialTrack, MeshTrack)
 ==> engine/src/core/com/jme3/animation/Pose.java <==
 */
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*/
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```
==> engine/src/core/com/jme3/animation/AnimControl.java <==
```

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*/
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```
==> engine/src/core/com/jme3/animation/Bone.java <==
```

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==> engine/src/core/com/jme3/animation/CompactArray.java <==
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==> engine/src/core/com/jme3/animation/CompactVector3Array.java <==
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*/
==> engine/src/core/com/jme3/animation/SpatialTrack.java <==
/**
* This class represents the track for spatial animation.
*
* @author Marcin Roguski (Kaelthas)
*/
==> engine/src/core/com/jme3/animation/Track.java <==
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==> engine/src/core/com/jme3/animation/Animation.java <==
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==> engine/src/core/com/jme3/animation/BoneTrack.java <==
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*/
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```
==> engine/src/core/com/jme3/animation/Skeleton.java <==
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==> engine/src/core/com/jme3/animation/AnimationFactory.java <==
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*/
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```
==> engine/src/core/com/jme3/animation/CompactQuaternionArray.java <==
```

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```

```
*/
```

```
==> engine/src/core/com/jme3/animation/SpatialAnimation.java <==
```

```
/**
```

```
* @deprecated use Animation instead with tracks of selected type (ie. BoneTrack, SpatialTrack, MeshTrack)
```

```
*/
```

```
==> engine/src/core/com/jme3/animation/AnimEventListener.java <==
```

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 */
/**
==> engine/src/core/com/jme3/system/JmeContext.java <==
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```

*/
==> engine/src/core/com/jme3/system/JmeVersion.java <==
==> engine/src/core/com/jme3/system/JmeSystem.java <==
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*/
==> engine/src/core/com/jme3/system/NanoTimer.java <==
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/**
==> engine/src/core/com/jme3/system/NullRenderer.java <==
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==> engine/src/core/com/jme3/system/Timer.java <==
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*/
/**
* <code>Timer</code> is the base class for a high resolution timer. It is
==> engine/src/core/com/jme3/system/Platform.java <==
==> engine/src/core/com/jme3/system/AppSettings.java <==
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==> engine/src/core/com/jme3/system/Annotations.java <==
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==> engine/src/core/com/jme3/audio/AudioKey.java <==
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*/
==> engine/src/core/com/jme3/audio/AudioParam.java <==
==> engine/src/core/com/jme3/audio/SeekableStream.java <==
/*
* To change this template, choose Tools | Templates
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*/
/**
*
* @author Nehon
*/

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==> engine/src/core/com/jme3/audio/LowPassFilter.java <==
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 */
==> engine/src/core/com/jme3/audio/AudioStream.java <==
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==> engine/src/core/com/jme3/audio/AudioRenderer.java <==
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/**
==> engine/src/core/com/jme3/audio/ListenerParam.java <==
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 */
==> engine/src/core/com/jme3/audio/Filter.java <==
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*/
==> engine/src/core/com/jme3/shadow/ShadowCamera.java <==
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==> engine/src/core/com/jme3/shadow/BasicShadowRenderer.java <==
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==> engine/src/core/com/jme3/shadow/ShadowUtil.java <==
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 */
==> engine/src/core/com/jme3/renderer/Renderer.java <==
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==> engine/src/core/com/jme3/renderer/RendererException.java <==
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/**
==> engine/src/core/com/jme3/renderer/package.html <==
==> engine/src/core/com/jme3/renderer/queue/GuiComparator.java <==
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==> engine/src/core/com/jme3/renderer/queue/NullComparator.java <==
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==> engine/src/core/com/jme3/renderer/queue/GeometryComparator.java <==
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==> engine/src/core/com/jme3/renderer/queue/TransparentComparator.java <==
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==> engine/src/core/com/jme3/renderer/queue/OpaqueComparator.java <==
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==> engine/src/core/com/jme3/renderer/queue/GeometryList.java <==
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*/
==> engine/src/core/com/jme3/renderer/GL1Renderer.java <==
/**
* Renderer sub-interface that is used for non-shader based renderers.
* <p>
* The <code>GL1Renderer</code> provides a single call,
* { @link #setFixedFuncBinding(com.jme3.material.FixedFuncBinding, java.lang.Object) }
* which allows to set fixed functionality state.
*
* @author Kirill Vainer
*/
==> engine/src/core/com/jme3/renderer/RenderManager.java <==
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==> engine/src/core/com/jme3/math/Line.java <==
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*/

==> engine/src/core/com/jme3/math/AbstractTriangle.java <==

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==> engine/src/core/com/jme3/math/LineSegment.java <==

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*/
==> engine/src/core/com/jme3/math/Spline.java <==
/*
* To change this template, choose Tools | Templates
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*/
/**
*
* @author Nehon
*/
==> engine/src/core/com/jme3/math/package.html <==
==> engine/src/core/com/jme3/math/Matrix3f.java <==
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==> engine/src/core/com/jme3/math/Eigen3f.java <==
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```
*/
```

```
==> engine/src/core/com/jme3/math/CurveAndSurfaceMath.java <==
```

```
/**
```

```
* This class offers methods to help with curves and surfaces calculations.
```

```
* @author Marcin Roguski (Kealthas)
```

```
*/
```

```
==> engine/src/core/com/jme3/math/Transform.java <==
```

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```
==> engine/src/core/com/jme3/math/Quaternion.java <==
```

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==> engine/src/core/com/jme3/math/Triangle.java <==
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*/
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```
==> engine/src/core/com/jme3/math/Matrix4f.java <==
```

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*/
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```
==> engine/src/core/com/jme3/math/FastMath.java <==
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*/
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```
==> engine/src/core/com/jme3/math/Rectangle.java <==
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/**

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*/
/**
==> engine/src/core/com/jme3/collision/CollisionResult.java <==
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```
==> engine/src/core/com/jme3/collision/bih/TriangleAxisComparator.java <==
```

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```
==> engine/src/core/com/jme3/collision/bih/BIHNode.java <==
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```
==> engine/src/core/com/jme3/collision/bih/BIHTriangle.java <==
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*/
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```
==> engine/src/core/com/jme3/collision/MotionAllowedListener.java <==
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==> engine/src/core/com/jme3/collision/Collidable.java <==
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*/
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/**
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```
==> engine/src/core/com/jme3/collision/SweepSphere.java <==
```

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```
==> engine/src/core/com/jme3/collision/CollisionResults.java <==
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==> engine/src/core/com/jme3/font/LineWrapMode.java <==
/**
 * Line-wrap type for BitmapText
 * @author YongHoon
 */
==> engine/src/core/com/jme3/font/BitmapCharacter.java <==
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*/
==> engine/src/core/com/jme3/font/Letters.java <==
/**
 * Manage and align LetterQuads
 * @author YongHoon
 */
==> engine/src/core/com/jme3/font/Kerning.java <==
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*/
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```
==> engine/src/core/com/jme3/font/LetterQuad.java <==
```

```
/**
```

```
* LetterQuad contains the position, color, uv texture information for a character in text.
```

```
* @author YongHoon
```

```
*/
```

```
==> engine/src/core/com/jme3/font/StringBlock.java <==
```

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```
==> engine/src/core/com/jme3/font/BitmapText.java <==
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==> engine/src/core/com/jme3/font/BitmapCharacterSet.java <==
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```
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```

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*/
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/**
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```
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==> engine/src/core/com/jme3/font/ColorTags.java <==
/**
 * Contains the color information tagged in a text string
 * Format: \#rgb#
 *      \#rgba#
 *      \#rrggbb#
 *      \#rrggbbaa#
 * @author YongHoon
 */
==> engine/src/core/com/jme3/font/BitmapTextPage.java <==
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==> engine/src/core/com/jme3/texture/Image.java <==
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*/
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```
==> engine/src/core/com/jme3/texture/Texture.java <==
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```
==> engine/src/core/com/jme3/texture/FrameBuffer.java <==
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*/
==> engine/src/core/com/jme3/texture/TextureArray.java <==
/**
* This class implements a Texture array
* warning, this feature is only supported on opengl 3.0 version.
* To check if a hardware supports TextureArray check :
* renderManager.getRenderer().getCaps().contains(Caps.TextureArray)
* @author phate666
*/
==> engine/src/core/com/jme3/texture/Texture3D.java <==
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*/
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```
==> engine/src/core/com/jme3/texture/Texture2D.java <==
```

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```

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*/
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```
==> engine/src/core/com/jme3/texture/TextureCubeMap.java <==
```

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==> engine/src/core/com/jme3/util/BufferUtils.java <==
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*/

```
==> engine/src/core/com/jme3/util/SkyFactory.java <==
```

```
/**
```

```
* <code>SkyFactory</code> is used to create jME { @link Spatial}s that can  
* be attached to the scene to display a sky image in the background.
```

```
*
```

```
* @author Kirill Vainer
```

```
*/
```

```
==> engine/src/core/com/jme3/util/IntMap.java <==
```

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==> engine/src/core/com/jme3/util/NativeObjectManager.java <==
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==> engine/src/core/com/jme3/util/TangentBinormalGenerator.java <==
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*/
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```
==> engine/src/core/com/jme3/util/SafeArrayList.java <==
```

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==> engine/src/core/com/jme3/util/JmeFormatter.java <==
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*/
==> engine/src/core/com/jme3/util/PlaceholderAssets.java <==
==> engine/src/core/com/jme3/util/xml/SAXUtil.java <==
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/**
==> engine/src/core/com/jme3/util/LittleEndien.java <==
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==> engine/src/core/com/jme3/util/blockparser/BlockLanguageParser.java <==
==> engine/src/core/com/jme3/util/blockparser/Statement.java <==
==> engine/src/core/com/jme3/util/TempVars.java <==
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*/
==> engine/src/core/com/jme3/material/package.html <==
==> engine/src/core/com/jme3/material/TechniqueDef.java <==
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*/

==> engine/src/core/com/jme3/material/Material.java <==

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*/

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==> engine/src/core/com/jme3/material/FixedFuncBinding.java <==
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```

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*/
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/**
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```
==> engine/src/core/com/jme3/material/RenderState.java <==
```

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```
==> engine/src/core/com/jme3/material/MatParam.java <==
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*/
==> engine/src/core/com/jme3/material/MaterialDef.java <==
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*/

==> engine/src/core/com/jme3/material/MatParamTexture.java <==

==> engine/src/core/com/jme3/export/ReadListener.java <==

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==> engine/src/core/com/jme3/export/JmeImporter.java <==

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*/
==> engine/src/core/com/jme3/export/FormatVersion.java <==
/**
 * Specifies the version of the format for jME3 object (j3o) files.
 *
 * @author Kirill Vainer
 */
==> engine/src/core/com/jme3/export/SavableClassUtil.java <==
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==> engine/src/core/com/jme3/export/OutputCapsule.java <==
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*/
==> engine/src/core/com/jme3/export/JmeExporter.java <==

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 */
==> engine/src/core/com/jme3/export/InputCapsule.java <==
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==> engine/src/core/com/jme3/asset/package.html <==

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==> engine/src/core/com/jme3/asset/Asset.java <==
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/**
==> engine/src/core/com/jme3/asset/AssetEventListener.java <==
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/**
==> engine/src/core/com/jme3/asset/AssetCache.java <==
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*/
==> engine/src/core/com/jme3/asset/AssetLoadException.java <==
/**
* <code>AssetLoadException</code> is thrown when the {@link AssetManager}
* is able to find the requested asset, but there was a problem while loading
* it.
*
* @author Kirill Vainer
*/
==> engine/src/core/com/jme3/asset/DesktopAssetManager.java <==
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*/
==> engine/src/core/com/jme3/asset/AssetNotFoundException.java <==
/**
* <code>AssetNotFoundException</code> is thrown when the {@link AssetManager}
* is unable to locate the requested asset using any of the registered
* {@link AssetLocator}s.
*

```



```

* @author Kirill Vainer
*/
==> engine/src/core/com/jme3/asset/AssetManager.java <==
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==> engine/src/core/com/jme3/asset/AssetConfig.java <==
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==> engine/src/core/com/jme3/asset/TextureKey.java <==
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==> engine/src/core/com/jme3/asset/ThreadingManager.java <==
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==> engine/src/core/com/jme3/asset/ModelKey.java <==
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*/
==> engine/src/core/com/jme3/asset/Desktop.cfg <==
==> engine/src/core/com/jme3/asset/MaterialKey.java <==
/**
* Used for loading { @link Material materials } only (not material definitions).
*
* @author Kirill Vainer
*/
==> engine/src/core/com/jme3/asset/AssetKey.java <==
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==> engine/src/core/com/jme3/asset/ImplHandler.java <==
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*/
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==> engine/src/core/com/jme3/app/package.html <==
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```
==> engine/src/core/com/jme3/app/StatsView.java <==
```

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*/
==> engine/src/core/com/jme3/app/state/package.html <==
==> engine/src/core/com/jme3/app/state/AppState.java <==
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==> engine/src/core/com/jme3/app/state/AbstractAppState.java <==

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==> engine/src/core/com/jme3/app/state/AppStateManager.java <==

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==> engine/src/core/com/jme3/app/StatsAppState.java <==

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==> engine/src/core/com/jme3/app/DebugKeysAppState.java <==

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*/
==> engine/src/core/com/jme3/effect/Particle.java <==
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*/

==> engine/src/core/com/jme3/effect/package.html <==

==> engine/src/core/com/jme3/effect/ParticleComparator.java <==

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*/

==> engine/src/core/com/jme3/effect/ParticleMesh.java <==

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*/
==> engine/src/core/com/jme3/effect/influencers/NewtonianParticleInfluencer.java <==
/**
 * This influencer calculates initial velocity with the use of the emitter's shape.
 * @author Marcin Roguski (Kaelthas)
 */
==> engine/src/core/com/jme3/effect/influencers/ParticleInfluencer.java <==
/**
 * An interface that defines the methods to affect initial velocity of the particles.
 * @author Marcin Roguski (Kaelthas)
 */
==> engine/src/core/com/jme3/effect/influencers/EmptyParticleInfluencer.java <==
/**
 * This influencer does not influence particle at all.
 * It makes particles not to move.
 * @author Marcin Roguski (Kaelthas)
 */
==> engine/src/core/com/jme3/effect/influencers/DefaultParticleInfluencer.java <==
/**
 * This emitter influences the particles so that they move all in the same direction.
 * The direction may vary a little if the velocity variation is non zero.
 * This influencer is default for the particle emitter.
 * @author Marcin Roguski (Kaelthas)
 */
==> engine/src/core/com/jme3/effect/shapes/EmitterBoxShape.java <==
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*/
==> engine/src/core/com/jme3/effect/shapes/EmitterMeshVertexShape.java <==
/**
* This emitter shape emits the particles from the given shape's vertices
* @author Marcin Roguski (Kaelthas)
*/
==> engine/src/core/com/jme3/effect/shapes/EmitterPointShape.java <==
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*/
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```
==> engine/src/core/com/jme3/effect/shapes/EmitterMeshFaceShape.java <==
```

```
/**
```

```
* This emitter shape emits the particles from the given shape's faces.
```

```
* @author Marcin Roguski (Kaelthas)
```

```
*/
```

```
==> engine/src/core/com/jme3/effect/shapes/EmitterShape.java <==
```

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```
==> engine/src/core/com/jme3/effect/shapes/EmitterMeshConvexHullShape.java <==
```

```
/**
```

```

* This emitter shape emits the particles from the given shape's interior constrained by its convex hull
* (a geometry that tightly wraps the mesh). So in case of multiple meshes some vertices may appear
* in a space between them.
* @author Marcin Roguski (Kaelthas)
*/
==> engine/src/core/com/jme3/effect/shapes/EmitterSphereShape.java <==
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==> engine/src/core/com/jme3/effect/ParticleEmitter.java <==
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==> engine/src/core/com/jme3/effect/ParticleTriMesh.java <==
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==> engine/src/core/com/jme3/shader/UniformBinding.java <==
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/**
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==> engine/src/core/com/jme3/shader/DefineList.java <==
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==> engine/src/core/com/jme3/shader/ShaderUtils.java <==
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*/
```

```
==> engine/src/core/com/jme3/shader/ShaderVariable.java <==
```

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*/

==> engine/src/core/com/jme3/scene/mesh/WrappedIndexBuffer.java <==

/**

* `WrappedIndexBuffer` converts vertex indices from a non list based mesh mode such as { @link Mode#TriangleStrip } or { @link Mode#LineLoop } into a list based mode such as { @link Mode#Triangles } or { @link Mode#Lines }. As it is often more convenient to read vertex data in list format than in a non-list format, using this class is recommended to avoid convoluting classes used to process mesh data from an external source.

*

* @author Kirill Vainer

*/

==> engine/src/core/com/jme3/scene/mesh/package.html <==

==> engine/src/core/com/jme3/scene/mesh/IndexByteBuffer.java <==

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==> engine/src/core/com/jme3/scene/mesh/VirtualIndexBuffer.java <==
/**
* IndexBuffer implementation that generates vertex indices sequentially
* based on a specific Mesh { @link Mode }.
* The generated indices are as if the mesh is in the given mode
* but contains no index buffer, thus this implementation will
* return the indices if the index buffer was there and contained sequential
* triangles.
* Example:
* <ul>
* <li>{ @link Mode#Triangles}: 0, 1, 2 | 3, 4, 5 | 6, 7, 8 | ...</li>
* <li>{ @link Mode#TriangleStrip}: 0, 1, 2 | 2, 1, 3 | 2, 3, 4 | ...</li>
* <li>{ @link Mode#TriangleFan}: 0, 1, 2 | 0, 2, 3 | 0, 3, 4 | ...</li>
* </ul>
*
* @author Kirill Vainer
*/
==> engine/src/core/com/jme3/scene/package.html <==
==> engine/src/core/com/jme3/scene/SceneGraphVisitorAdapter.java <==
/**
* <code>SceneGraphVisitorAdapter</code> is used to traverse the scene
* graph tree. The adapter version of the interface simply separates
* between the { @link Geometry geometries} and the { @link Node nodes} by
* supplying visit methods that take them.
* Use by calling { @link Spatial#depthFirstTraversal(com.jme3.scene.SceneGraphVisitor) }
* or { @link Spatial#breadthFirstTraversal(com.jme3.scene.SceneGraphVisitor)}.
*/
==> engine/src/core/com/jme3/scene/Mesh.java <==
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*/
==> engine/src/core/com/jme3/scene/SimpleBatchNode.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* SimpleBatchNode comes with some restrictions, but can yield better performances.
* Geometries to be batched has to be attached directly to the BatchNode
* You can't attach a Node to a SimpleBatchNode
* SimpleBatchNode is recommended when you have a large number of geometries using the same material that does
not require a complex scene graph structure.
* @see BatchNode
* @author Nehon
*/
==> engine/src/core/com/jme3/scene/BatchNode.java <==
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==> engine/src/core/com/jme3/scene/UserData.java <==

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==> engine/src/core/com/jme3/scene/debug/SkeletonWire.java <==

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*/
==> engine/src/core/com/jme3/scene/debug/Grid.java <==
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==> engine/src/core/com/jme3/scene/debug/WireFrustum.java <==

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*/

==> engine/src/core/com/jme3/scene/shape/Line.java <==

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*/
==> engine/src/core/com/jme3/scene/shape/Sphere.java <==
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*/

==> engine/src/core/com/jme3/scene/shape/Cylinder.java <==

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==> engine/src/core/com/jme3/scene/shape/Curve.java <==

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*/
==> engine/src/core/com/jme3/scene/shape/PQTorus.java <==
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*/

==> engine/src/core/com/jme3/scene/shape/Box.java <==

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==> engine/src/core/com/jme3/scene/shape/Quad.java <==

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==> engine/src/core/com/jme3/scene/shape/Torus.java <==
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==> engine/src/core/com/jme3/scene/shape/StripBox.java <==

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==> engine/src/core/com/jme3/scene/shape/Dome.java <==

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*/
==> engine/src/core/com/jme3/scene/shape/Surface.java <==
/**
* This class represents a surface described by knots, weights and control points.
* Currently the following types are supported:
* a) NURBS
* @author Marcin Roguski (Kealthas)
*/
==> engine/src/core/com/jme3/scene/shape/AbstractBox.java <==
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==> engine/src/core/com/jme3/scene/SceneGraphVisitor.java <==
/**
* <code>SceneGraphVisitorAdapter</code> is used to traverse the scene
* graph tree.
* Use by calling { @link Spatial#depthFirstTraversal(com.jme3.scene.SceneGraphVisitor) }
* or { @link Spatial#breadthFirstTraversal(com.jme3.scene.SceneGraphVisitor)}.
*/
==> engine/src/core/com/jme3/scene/CollisionData.java <==
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==> engine/src/core/com/jme3/scene/control/package.html <==

==> engine/src/core/com/jme3/scene/control/LodControl.java <==

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```
==> engine/src/core/com/jme3/scene/control/LightControl.java <==
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==> engine/src/core/com/jme3/scene/control/AreaUtils.java <==
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==> engine/src/core/com/jme3/scene/control/UpdateControl.java <==
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==> engine/src/core/com/jme3/input/KeyInput.java <==
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```

```
*/
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/**
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```
==> engine/src/core/com/jme3/input/TouchInput.java <==
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*/
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```
/**
```

```
==> engine/src/core/com/jme3/input/Joystick.java <==
```

```
/**
```

```
* A joystick represents a single joystick that is installed in the system.
```

```

*
* @author Kirill Vainer
*/
==> engine/src/core/com/jme3/input/controls/MouseButtonTrigger.java <==
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==> engine/src/core/com/jme3/input/controls/Trigger.java <==
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==> engine/src/core/com/jme3/input/controls/AnalogListener.java <==
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==> engine/src/core/com/jme3/input/controls/package.html <==
==> engine/src/core/com/jme3/input/controls/ActionListener.java <==
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```
==> engine/src/core/com/jme3/input/controls/MouseAxisTrigger.java <==
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```

```
*/
```

```
==> engine/src/core/com/jme3/input/controls/JoyAxisTrigger.java <==
```

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*/
==> engine/src/core/com/jme3/input/package.html <==
==> engine/src/core/com/jme3/input/event/package.html <==
==> engine/src/core/com/jme3/input/event/MouseButtonEvent.java <==
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```
==> engine/src/core/com/jme3/input/event/JoyButtonEvent.java <==
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```

```
*/
```

```
==> engine/src/core/com/jme3/input/event/JoyAxisEvent.java <==
```

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*/
==> engine/src/core/com/jme3/input/event/KeyInputEvent.java <==
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```

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*/
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```
==> engine/src/core/com/jme3/input/event/TouchEvent.java <==
```

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```

```
*/
```

```
/**
```

```
* <code>TouchEvent</code> represents a single event from multi-touch input devices
```

```
==> engine/src/core/com/jme3/input/event/InputEvent.java <==
```

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```

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==> engine/src/core/com/jme3/input/event/MouseMotionEvent.java <==
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*/
/**
==> engine/src/core/com/jme3/input/KeyNames.java <==
==> engine/src/core/com/jme3/input/Input.java <==
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*/
/**

```

```

==> engine/src/core/com/jme3/input/RawInputListener.java <==
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 */
==> engine/src/core/com/jme3/input/dummy/package.html <==
==> engine/src/core/com/jme3/input/dummy/DummyInput.java <==
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*/
==> engine/src/core/com/jme3/input/dummy/DummyKeyInput.java <==
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*/
==> engine/src/core/com/jme3/input/dummy/DummyMouseInput.java <==
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*/
==> engine/src/core/com/jme3/input/MouseInput.java <==
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*/
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==> engine/src/core/com/jme3/input/JoyInput.java <==
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*/
/**
==> engine/src/core/com/jme3/bounding/Intersection.java <==
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==> engine/src/core/com/jme3/bounding/BoundingVolume.java <==
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```
==> engine/src/core/com/jme3/cinematic/PlayState.java <==
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/**
==> engine/src/core/com/jme3/cinematic/MotionPathListener.java <==
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*/
==> engine/src/core/com/jme3/cinematic/KeyFrame.java <==
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```
==> engine/src/core/com/jme3/cinematic/Cinematic.java <==
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*/
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```
==> engine/src/core/com/jme3/cinematic/events/RotationTrack.java <==
```

```
/*
```

```
* To change this template, choose Tools | Templates
```

```
* and open the template in the editor.
```

```
*/
```

```
/**
```

```
*
```

```
* @author Nehon
```

```
* @deprecated use spatial animation instead.
```

```
*/
```

```
==> engine/src/core/com/jme3/cinematic/events/CinematicEvent.java <==
```

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==> engine/src/core/com/jme3/cinematic/events/SoundTrack.java <==
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==> engine/src/core/com/jme3/cinematic/events/CinematicEventListener.java <==
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/**
*
* @author Nehon
*/
==> engine/src/core/com/jme3/cinematic/events/ScaleTrack.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* @author Nehon
* @deprecated use spatial animation instead.
*/
==> engine/src/core/com/jme3/cinematic/events/PositionTrack.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* @author Nehon
* @deprecated use spatial animation instead.
*/
==> engine/src/core/com/jme3/cinematic/events/MotionTrack.java <==
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==> engine/src/core/com/jme3/post/Filter.java <==
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*/
==> engine/src/core/com/jme3/post/FilterPostProcessor.java <==
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```

```
*/
```

```
==> engine/src/core/com/jme3/post/HDRRenderer.java <==
```

```
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```

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```

```
*/
```

```
==> engine/src/core/com/jme3/light/SpotLight.java <==
```

```
/*
```

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*/
==> engine/src/core/com/jme3/light/package.html <==
==> engine/src/core/com/jme3/light/AmbientLight.java <==
/**
* An ambient light adds a constant color to the scene.
* <p>
* Ambient lights are unaffected by the surface normal, and are constant
* regardless of the model's location. The material's ambient color is
* multiplied by the ambient light color to get the final ambient color of
* an object.
*
* @author Kirill Vainer
*/
==> engine/src/core/com/jme3/light/PointLight.java <==
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*/
==> engine/src/core/com/jme3/light/Light.java <==
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*/

==> engine/src/core/com/jme3/light/LightList.java <==

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*/

==> engine/src/core/com/jme3/light/DirectionalLight.java <==

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*/
==> engine/src/core/com/jme3/ui/Picture.java <==
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```

```
*/
```

```
==> engine/src/bullet-native/com_jme3_bullet_joints_ConeJoint.cpp <==
```

```
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```

```
*/
```

```
/**
```

```
* Author: Normen Hansen
```

```
*/
```

```
==> engine/src/bullet-native/com_jme3_bullet_joints_SixDofJoint.h <==
```

```
/* DO NOT EDIT THIS FILE - it is machine generated */
```

```
/* Header for class com_jme3_bullet_joints_SixDofJoint */
```

```
/*
```

```

* Class:   com_jme3_bullet_joints_SixDofJoint
* Method:  getRotationalLimitMotor
* Signature: (JI)J
*/
/*
* Class:   com_jme3_bullet_joints_SixDofJoint
* Method:  getTranslationalLimitMotor
* Signature: (J)J
*/
/*
* Class:   com_jme3_bullet_joints_SixDofJoint
* Method:  setLinearUpperLimit
* Signature: (JLcom/jme3/math/Vector3f;)V
*/
/*
* Class:   com_jme3_bullet_joints_SixDofJoint
==> engine/src/bullet-native/com_jme3_bullet_PhysicsSpace.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_PhysicsSpace */
/* Inaccessible static: pQueueTL */
/* Inaccessible static: physicsSpaceTL */
/*
* Class:   com_jme3_bullet_PhysicsSpace
* Method:  createPhysicsSpace
* Signature: (FFFFFFIZ)J
*/
/*
* Class:   com_jme3_bullet_PhysicsSpace
* Method:  stepSimulation
* Signature: (JFIF)V
*/
/*
* Class:   com_jme3_bullet_PhysicsSpace
==> engine/src/bullet-native/com_jme3_bullet_joints_motors_RotationalLimitMotor.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_joints_motors_RotationalLimitMotor */
/*
* Class:   com_jme3_bullet_joints_motors_RotationalLimitMotor
* Method:  getLoLimit
* Signature: (J)F
*/
/*
* Class:   com_jme3_bullet_joints_motors_RotationalLimitMotor
* Method:  setLoLimit
* Signature: (JF)V
*/
/*
* Class:   com_jme3_bullet_joints_motors_RotationalLimitMotor

```

```

* Method:  getHiLimit
* Signature: (J)F
*/
/*
* Class:   com_jme3_bullet_joints_motors_RotationalLimitMotor
==> engine/src/bullet-native/jmeClasses.cpp <==
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*/
/**
==> engine/src/bullet-native/com_jme3_bullet_collision_PhysicsCollisionEvent.cpp <==
/*
* Class:   com_jme3_bullet_collision_PhysicsCollisionEvent
* Method:  getAppliedImpulse
* Signature: (J)F
*/
/*
* Class:   com_jme3_bullet_collision_PhysicsCollisionEvent
* Method:  getAppliedImpulseLateral1
* Signature: (J)F

```

```

*/
==> engine/src/bullet-native/com_jme3_bullet_joints_HingeJoint.cpp <==
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*/
/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_util_DebugShapeFactory.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_util_DebugShapeFactory */
/*
* Class: com_jme3_bullet_util_DebugShapeFactory
* Method: getVertices
* Signature: (JLcom/jme3/bullet/util/DebugMeshCallback;)V
*/
==> engine/src/bullet-native/com_jme3_bullet_objects_infos_RigidBodyMotionState.cpp <==
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/**
 * Author: Normen Hansen
 */
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_CapsuleCollisionShape.cpp <==
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*/
/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_objects_PhysicsRigidBody.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_objects_PhysicsRigidBody */
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_GImpactCollisionShape.cpp <==
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*/
/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_objects_PhysicsCharacter.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_objects_PhysicsCharacter */
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_PlaneCollisionShape.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_collision_shapes_PlaneCollisionShape */
/*
* Class:   com_jme3_bullet_collision_shapes_PlaneCollisionShape
* Method:  createShape
* Signature: (Lcom/jme3/math/Vector3f;F)J
*/
==> engine/src/bullet-native/jmePhysicsSpace.cpp <==
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*/
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_GImpactCollisionShape.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_collision_shapes_GImpactCollisionShape */
/*
* Class:   com_jme3_bullet_collision_shapes_GImpactCollisionShape
* Method:  createShape
* Signature: (J)J
*/
/*
* Class:   com_jme3_bullet_collision_shapes_GImpactCollisionShape
* Method:  finalizeNative
* Signature: (J)V
*/
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_HullCollisionShape.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_collision_shapes_HullCollisionShape */
/*
* Class:   com_jme3_bullet_collision_shapes_HullCollisionShape
* Method:  createShape
* Signature: (Ljava/nio/ByteBuffer;)J
*/
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_ConeCollisionShape.cpp <==
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*/
/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_CapsuleCollisionShape.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_collision_shapes_CapsuleCollisionShape */
/*
* Class:   com_jme3_bullet_collision_shapes_CapsuleCollisionShape
* Method:  createShape
* Signature: (IFF)J
*/
==> engine/src/bullet-native/com_jme3_bullet_joints_Point2PointJoint.cpp <==
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*/
/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_objects_PhysicsGhostObject.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_objects_PhysicsGhostObject */
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_HullCollisionShape.cpp <==
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*/
/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_objects_VehicleWheel.cpp <==
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*/
/**
 * Author: Normen Hansen
 */
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_SphereCollisionShape.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_collision_shapes_SphereCollisionShape */
/*
 * Class:   com_jme3_bullet_collision_shapes_SphereCollisionShape
 * Method:  createShape
 * Signature: (F)J
 */
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_PlaneCollisionShape.cpp <==
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*/
/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_joints_SixDofJoint.cpp <==
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```

```
*/
```

```
/**
```

```
* Author: Normen Hansen
```

```
*/
```

```
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_SimplexCollisionShape.h <==
```

```
/* DO NOT EDIT THIS FILE - it is machine generated */
```

```
/* Header for class com_jme3_bullet_collision_shapes_SimplexCollisionShape */
```

```
/*
```

```
* Class: com_jme3_bullet_collision_shapes_SimplexCollisionShape
```

```
* Method: createShape
```

```
* Signature: (Lcom/jme3/math/Vector3f;)J
```

```
*/
```

```
/*
```

```
* Class: com_jme3_bullet_collision_shapes_SimplexCollisionShape
```

```
* Method: createShape
```

```
* Signature: (Lcom/jme3/math/Vector3f;Lcom/jme3/math/Vector3f;)J
```

```
*/
```

```
/*
```

```
* Class: com_jme3_bullet_collision_shapes_SimplexCollisionShape
```

```
* Method: createShape
```

```
* Signature: (Lcom/jme3/math/Vector3f;Lcom/jme3/math/Vector3f;Lcom/jme3/math/Vector3f;)J
```

```
*/
```

```
/*
```

```
* Class: com_jme3_bullet_collision_shapes_SimplexCollisionShape
```

```
==> engine/src/bullet-native/com_jme3_bullet_joints_SixDofSpringJoint.cpp <==
```

```
/**
```

```
* Author: Normen Hansen
```

```
*/
```

```
/*
```

```
* Class: com_jme3_bullet_joints_SixDofSpringJoint
```

```
* Method: enableString
```

```
* Signature: (JIZ)V
```

```
*/
```

```
/*
```

```
* Class: com_jme3_bullet_joints_SixDofSpringJoint
```

```
* Method: setStiffness
```

```
* Signature: (JIF)V
```

```
*/
```

```
/*
```

```

==> engine/src/bullet-native/jmeMotionState.h <==
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 */
/**
 * Author: Normen Hansen
==> engine/src/bullet-native/android/Android.mk <==
==> engine/src/bullet-native/android/Application.mk <==
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_SimplexCollisionShape.cpp <==
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*/
/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_objects_VehicleWheel.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_objects_VehicleWheel */
/*
* Class:   com_jme3_bullet_objects_VehicleWheel
* Method:  getWheelLocation
* Signature: (JILcom/jme3/math/Vector3f;)V
*/
/*
* Class:   com_jme3_bullet_objects_VehicleWheel
* Method:  getWheelRotation
* Signature: (JILcom/jme3/math/Matrix3f;)V
*/
/*
* Class:   com_jme3_bullet_objects_VehicleWheel
* Method:  applyInfo
* Signature: (JIFFFFFFFFZF)V
*/
/*
* Class:   com_jme3_bullet_objects_VehicleWheel
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_BoxCollisionShape.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_collision_shapes_BoxCollisionShape */
/*
* Class:   com_jme3_bullet_collision_shapes_BoxCollisionShape

```

```

* Method:  createShape
* Signature: (Lcom/jme3/math/Vector3f;)J
*/
==> engine/src/bullet-native/jmeMotionState.cpp <==
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*/
/**
==> engine/src/bullet-native/com_jme3_bullet_joints_HingeJoint.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_joints_HingeJoint */
/*
* Class:  com_jme3_bullet_joints_HingeJoint
* Method:  enableMotor
* Signature: (JZFF)V
*/
/*
* Class:  com_jme3_bullet_joints_HingeJoint
* Method:  getEnableAngularMotor
* Signature: (J)Z

```



```

*/
/*
* Class:   com_jme3_bullet_joints_HingeJoint
* Method:  getMotorTargetVelocity
* Signature: (J)F
*/
/*
* Class:   com_jme3_bullet_joints_HingeJoint
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_CollisionShape.cpp <==
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*/
/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_ConeCollisionShape.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_collision_shapes_ConeCollisionShape */
/*
* Class:   com_jme3_bullet_collision_shapes_ConeCollisionShape

```

```

* Method: createShape
* Signature: (IFF)J
*/
==> engine/src/bullet-native/com_jme3_bullet_joints_PhysicsJoint.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_joints_PhysicsJoint */
/*
* Class: com_jme3_bullet_joints_PhysicsJoint
* Method: getAppliedImpulse
* Signature: (J)F
*/
/*
* Class: com_jme3_bullet_joints_PhysicsJoint
* Method: finalizeNative
* Signature: (J)V
*/
==> engine/src/bullet-native/com_jme3_bullet_joints_motors_RotationalLimitMotor.cpp <==
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*/

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```

/**
 * Author: Normen Hansen
 */
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_CylinderCollisionShape.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_collision_shapes_CylinderCollisionShape */
/*
 * Class:   com_jme3_bullet_collision_shapes_CylinderCollisionShape
 * Method:  createShape
 * Signature: (ILcom/jme3/math/Vector3f;)J
 */
==> engine/src/bullet-native/com_jme3_bullet_collision_PhysicsCollisionObject.cpp <==
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 */
/**
 * Author: Normen Hansen
 */
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_HeightfieldCollisionShape.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */

```

```

/* Header for class com_jme3_bullet_collision_shapes_HeightfieldCollisionShape */
/*
* Class:   com_jme3_bullet_collision_shapes_HeightfieldCollisionShape
* Method:  createShape
* Signature: (IILjava/nio/ByteBuffer;FFFIZ)J
*/
==> engine/src/bullet-native/com_jme3_bullet_util_NativeMeshUtil.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_util_NativeMeshUtil */
/*
* Class:   com_jme3_bullet_util_NativeMeshUtil
* Method:  createTriangleIndexVertexArray
* Signature: (Ljava/nio/ByteBuffer;Ljava/nio/ByteBuffer;III)J
*/
==> engine/src/bullet-native/jmeClasses.h <==
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*/
/**
* Author: Normen Hansen

```

```

==> engine/src/bullet-native/com_jme3_bullet_collision_PhysicsCollisionEvent.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_collision_PhysicsCollisionEvent */
/*
* Class:   com_jme3_bullet_collision_PhysicsCollisionEvent
* Method:  getAppliedImpulse
* Signature: (J)F
*/
/*
* Class:   com_jme3_bullet_collision_PhysicsCollisionEvent
* Method:  getAppliedImpulseLateral1
* Signature: (J)F
*/
/*
* Class:   com_jme3_bullet_collision_PhysicsCollisionEvent
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_HeightfieldCollisionShape.cpp <==
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*/
/**

```

```

* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_joints_ConeJoint.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_joints_ConeJoint */
/*
* Class:   com_jme3_bullet_joints_ConeJoint
* Method:  setLimit
* Signature: (JFFF)V
*/
/*
* Class:   com_jme3_bullet_joints_ConeJoint
* Method:  setAngularOnly
* Signature: (JZ)V
*/
/*
* Class:   com_jme3_bullet_joints_ConeJoint
* Method:  createJoint
* Signature:
(JJLcom/jme3/math/Vector3f;Lcom/jme3/math/Matrix3f;Lcom/jme3/math/Vector3f;Lcom/jme3/math/Matrix3f;)J
*/
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_BoxCollisionShape.cpp <==
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*/
/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_collision_PhysicsCollisionObject.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_collision_PhysicsCollisionObject */
==> engine/src/bullet-native/com_jme3_bullet_util_DebugShapeFactory.cpp <==
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*/
/**
* Author: Normen Hansen, CJ Hare
*/
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_SphereCollisionShape.cpp <==
/*

```

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/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_joints_motors_TranslationalLimitMotor.cpp <==
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* Author: Normen Hansen
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==> engine/src/bullet-native/com_jme3_bullet_objects_PhysicsRigidBody.cpp <==
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*/
/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_objects_PhysicsGhostObject.cpp <==
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/**
* Author: Normen Hansen
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==> engine/src/bullet-native/jmePhysicsSpace.h <==
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*/
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_CylinderCollisionShape.cpp <==
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/**

* Author: Normen Hansen

*/

==> engine/src/bullet-native/jmeBulletUtil.h <==

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==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_CompoundCollisionShape.h <==

/* DO NOT EDIT THIS FILE - it is machine generated */

/* Header for class com_jme3_bullet_collision_shapes_CompoundCollisionShape */

```

/*
* Class:   com_jme3_bullet_collision_shapes_CompoundCollisionShape
* Method:  createShape
* Signature: ()J
*/
/*
* Class:   com_jme3_bullet_collision_shapes_CompoundCollisionShape
* Method:  addChildShape
* Signature: (JLcom/jme3/math/Vector3f;Lcom/jme3/math/Matrix3f;)J
*/
/*
* Class:   com_jme3_bullet_collision_shapes_CompoundCollisionShape
* Method:  removeChildShape
* Signature: (JJ)J
*/
==> engine/src/bullet-native/com_jme3_bullet_joints_PhysicsJoint.cpp <==
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*/
/**

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* Author: Normen Hansen
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==> engine/src/bullet-native/com_jme3_bullet_joints_SixDofSpringJoint.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_joints_SixDofSpringJoint */
/*
* Class: com_jme3_bullet_joints_SixDofSpringJoint
* Method: enableSpring
* Signature: (JIZ)V
*/
/*
* Class: com_jme3_bullet_joints_SixDofSpringJoint
* Method: setStiffness
* Signature: (JIF)V
*/
/*
* Class: com_jme3_bullet_joints_SixDofSpringJoint
* Method: setDamping
* Signature: (JIF)V
*/
/*
* Class: com_jme3_bullet_joints_SixDofSpringJoint
==> engine/src/bullet-native/com_jme3_bullet_objects_infos_RigidBodyMotionState.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_objects_infos_RigidBodyMotionState */
/*
* Class: com_jme3_bullet_objects_infos_RigidBodyMotionState
* Method: createMotionState
* Signature: ()J
*/
/*
* Class: com_jme3_bullet_objects_infos_RigidBodyMotionState
* Method: applyTransform
* Signature: (JLcom/jme3/math/Vector3f;Lcom/jme3/math/Quaternion;)Z
*/
/*
* Class: com_jme3_bullet_objects_infos_RigidBodyMotionState
* Method: getWorldLocation
* Signature: (JLcom/jme3/math/Vector3f;)V
*/
/*
* Class: com_jme3_bullet_objects_infos_RigidBodyMotionState
==> engine/src/bullet-native/com_jme3_bullet_objects_PhysicsVehicle.cpp <==
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/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_joints_Point2PointJoint.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_joints_Point2PointJoint */
/*
* Class:   com_jme3_bullet_joints_Point2PointJoint
* Method:  setDamping
* Signature: (JF)V
*/
/*
* Class:   com_jme3_bullet_joints_Point2PointJoint
* Method:  setImpulseClamp
* Signature: (JF)V
*/
/*
* Class:   com_jme3_bullet_joints_Point2PointJoint
* Method:  setTau
* Signature: (JF)V
*/
/*

```

```

* Class:   com_jme3_bullet_joints_Point2PointJoint
==> engine/src/bullet-native/com_jme3_bullet_util_NativeMeshUtil.cpp <==
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* Author: Normen Hansen
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==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_MeshCollisionShape.cpp <==
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*/
/**
* Author: Normen Hansen
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==> engine/src/bullet-native/com_jme3_bullet_objects_PhysicsVehicle.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_objects_PhysicsVehicle */
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_CollisionShape.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_collision_shapes_CollisionShape */
/*
* Class:   com_jme3_bullet_collision_shapes_CollisionShape
* Method:  getMargin
* Signature: (J)F
*/
/*
* Class:   com_jme3_bullet_collision_shapes_CollisionShape
* Method:  setLocalScaling
* Signature: (JLcom/jme3/math/Vector3f;)V
*/
/*
* Class:   com_jme3_bullet_collision_shapes_CollisionShape
* Method:  setMargin
* Signature: (JF)V
*/
/*
* Class:   com_jme3_bullet_collision_shapes_CollisionShape
==> engine/src/bullet-native/com_jme3_bullet_objects_PhysicsCharacter.cpp <==
*/

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/**
* Author: Normen Hansen
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==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_CompoundCollisionShape.cpp <==
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*/
/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_PhysicsSpace.cpp <==
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*/
==> engine/src/bullet-native/com_jme3_bullet_joints_motors_TranslationalLimitMotor.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_joints_motors_TranslationalLimitMotor */
/*
* Class:   com_jme3_bullet_joints_motors_TranslationalLimitMotor
* Method:  getLowerLimit
* Signature: (JLcom/jme3/math/Vector3f;)V
*/
/*
* Class:   com_jme3_bullet_joints_motors_TranslationalLimitMotor
* Method:  setLowerLimit
* Signature: (JLcom/jme3/math/Vector3f;)V
*/
/*
* Class:   com_jme3_bullet_joints_motors_TranslationalLimitMotor
* Method:  getUpperLimit
* Signature: (JLcom/jme3/math/Vector3f;)V
*/
/*
* Class:   com_jme3_bullet_joints_motors_TranslationalLimitMotor
==> engine/src/bullet-native/jmeBulletUtil.cpp <==
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*/
/**
==> engine/src/bullet-native/com_jme3_bullet_joints_SliderJoint.cpp <==
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*/
/**
* Author: Normen Hansen
*/
==> engine/src/bullet-native/com_jme3_bullet_collision_shapes_MeshCollisionShape.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_collision_shapes_MeshCollisionShape */
/*

```

```

* Class:   com_jme3_bullet_collision_shapes_MeshCollisionShape
* Method:  createShape
* Signature: (J)J
*/
/*
* Class:   com_jme3_bullet_collision_shapes_MeshCollisionShape
* Method:  finalizeNative
* Signature: (J)V
*/
==> engine/src/bullet-native/com_jme3_bullet_joints_SliderJoint.h <==
/* DO NOT EDIT THIS FILE - it is machine generated */
/* Header for class com_jme3_bullet_joints_SliderJoint */
/*
* Class:   com_jme3_bullet_joints_SliderJoint
* Method:  getLowerLinLimit
* Signature: (J)F
*/
/*
* Class:   com_jme3_bullet_joints_SliderJoint
* Method:  setLowerLinLimit
* Signature: (JF)V
*/
/*
* Class:   com_jme3_bullet_joints_SliderJoint
* Method:  getUpperLinLimit
* Signature: (J)F
*/
/*
* Class:   com_jme3_bullet_joints_SliderJoint
==> engine/src/android/res/values/strings.xml <==
==> engine/src/android/res/menu/options.xml <==
==> engine/src/android/res/layout/tests.xml <==
==> engine/src/android/res/layout/about.xml <==
==> engine/src/android/com/jme3/system/android/JmeAndroidSystem.java <==
==> engine/src/android/com/jme3/system/android/AndroidTimer.java <==
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*/
==> engine/src/android/com/jme3/system/android/OGLESContext.java <==
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*/
==> engine/src/android/com/jme3/system/android/AndroidConfigChooser.java <==
/**
 * AndroidConfigChooser is used to determine the best suited EGL Config
 * @author larynx
 *
 */
==> engine/src/android/com/jme3/audio/plugins/AndroidAudioLoader.java <==
==> engine/src/android/com/jme3/audio/android/AndroidAudioData.java <==
==> engine/src/android/com/jme3/audio/android/AndroidAudioRenderrer.java <==
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*/
==> engine/src/android/com/jme3/renderrer/android/Android22Workaround.java <==
==> engine/src/android/com/jme3/renderrer/android/OGLESShaderRenderrer.java <==
/*
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 *

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*/
==> engine/src/android/com/jme3/renderer/android/TextureUtil.java <==
==> engine/src/android/com/jme3/texture/plugins/AndroidImageLoader.java <==
==> engine/src/android/com/jme3/util/RingBuffer.java <==
/**
 * Ring buffer (fixed size queue) implementation using a circular array (array with wrap-around).
 */
==> engine/src/android/com/jme3/util/FastInteger.java <==
/**
 * The wrapper for the primitive type { @code int }.
 * <p>
 * As with the specification, this implementation relies on code laid out in <a
 * href="http://www.hackersdelight.org/">Henry S. Warren, Jr.'s Hacker's
 * Delight, (Addison Wesley, 2002)</a> as well as <a
 * href="http://aggregate.org/MAGIC/">The Aggregate's Magic Algorithms</a>.
 *
 * @see java.lang.Number
 * @since 1.1
 */
==> engine/src/android/com/jme3/util/AndroidLogHandler.java <==
==> engine/src/android/com/jme3/asset/AndroidImageInfo.java <==
/**

```

```

==> engine/src/android/com/jme3/asset/AndroidAssetManager.java <==
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 */
==> engine/src/android/com/jme3/asset/plugins/AndroidLocator.java <==
==> engine/src/android/com/jme3/app/R.java <==
/* AUTO-GENERATED FILE. DO NOT MODIFY.
 *
 * This class was automatically generated by the
 * aapt tool from the resource data it found. It
 * should not be modified by hand.
 */
==> engine/src/android/com/jme3/app/AndroidHarness.java <==
/**
 * <code>AndroidHarness</code> wraps a jme application object and runs it on
 * Android
==> engine/src/android/com/jme3/input/android/AndroidTouchListener.java <==
/**
 * AndroidTouchListener is an inputlistener interface which defines callbacks/events for android touch screens
 * For use with class AndroidInput

```

```

* @author larynx
*
*/
==> engine/src/android/com/jme3/input/android/AndroidInput.java <==
/**
* <code>AndroidInput</code> is one of the main components that connect jme with android. Is derived from
GLSurfaceView and handles all Inputs
* @author larynx
*
*/
==> engine/src/android/jme3test/android/R.java <==
/* AUTO-GENERATED FILE. DO NOT MODIFY.
*
* This class was automatically generated by the
* aapt tool from the resource data it found. It
* should not be modified by hand.
*/
==> engine/src/android/jme3test/android/SimpleSoundTest.java <==
==> engine/src/android/jme3test/android/DemoMainActivity.java <==
==> engine/src/android/jme3test/android/DemoLaunchEntry.java <==
/**
* Name (=appClass) and Description of one demo launch inside the main apk
* @author larynx
*
*/
==> engine/src/android/jme3test/android/TestAmbient.java <==
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*/

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*/

==> engine/src/android/jme3test/android/AndroidManifest.xml <==

==> engine/src/android/jme3test/android/DemoAndroidHarness.java <==

==> engine/src/android/jme3test/android/TestNormalMapping.java <==

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*/
==> engine/src/android/jme3test/android/TestBumpModel.java <==
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```

```
*/
```

```
==> engine/src/android/jme3test/android/TestUnshadedModel.java <==
```

```
==> engine/src/android/jme3test/android/DemoLaunchAdapter.java <==
```

```
/**
```

```
* The view adapter which gets a list of LaunchEntries and displays them
```

```
* @author larynx
```

```
*
```

```
*/
```

```
==> engine/src/android/jme3test/android/TestSkyLoadingLagoon.java <==
```

```
/*
```

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*/
==> engine/src/android/jme3test/android/SimpleTexturedTest.java <==
/*
* Android 2.2+ SimpleTextured test.
*
* created: Mon Nov 8 00:08:22 EST 2010
*/
==> engine/src/android/jme3tools/android/Fixed.java <==
/**
* Fixed point maths class. This can be tailored for specific needs by
* changing the bits allocated to the 'fraction' part (see <code>FIXED_POINT
* </code>, which would also require <code>SIN_PRECALC</code> and <code>
* COS_PRECALC</code> updating).
*
* <p><a href="http://blog.numfum.com/2007/09/java-fixed-point-maths.html">

```

```

* http://blog.numfum.com/2007/09/java-fixed-point-maths.html
*
* @version 1.0
* @author CW
*
* @deprecated Most devices with OpenGL ES 2.0 have an FPU. Please use
* floats instead of this class for decimal math.
*/
==> engine/src/core-plugins/com/jme3/audio/plugins/WAVLoader.java <==
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==> engine/src/core-plugins/com/jme3/font/plugins/BitmapFontLoader.java <==
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*/
==> engine/src/core-plugins/com/jme3/texture/plugins/DXTFlipper.java <==
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*/

==> engine/src/core-plugins/com/jme3/texture/plugins/TGALoader.java <==

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*/

==> engine/src/core-plugins/com/jme3/texture/plugins/DDSLoader.java <==

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==> engine/src/core-plugins/com/jme3/texture/plugins/HDRLoader.java <==
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==> engine/src/core-plugins/com/jme3/texture/plugins/PFMLoader.java <==

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==> engine/src/core-plugins/com/jme3/texture/plugins/ImageFlipper.java <==

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==> engine/src/core-plugins/com/jme3/material/plugins/J3MLoader.java <==
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==> engine/src/core-plugins/com/jme3/export/binary/BinaryIdContentPair.java <==

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==> engine/src/core-plugins/com/jme3/export/binary/BinaryOutputCapsule.java <==

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*/
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```
==> engine/src/core-plugins/com/jme3/export/binary/BinaryClassField.java <==
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==> engine/src/core-plugins/com/jme3/export/binary/BinaryImporter.java <==
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==> engine/src/core-plugins/com/jme3/export/binary/ByteUtils.java <==
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==> engine/src/core-plugins/com/jme3/export/binary/BinaryExporter.java <==

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==> engine/src/core-plugins/com/jme3/export/binary/BinaryClassObject.java <==

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==> engine/src/core-plugins/com/jme3/asset/plugins/ClasspathLocator.java <==
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==> engine/src/core-plugins/com/jme3/asset/plugins/UriLocator.java <==

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*/

==> engine/src/core-plugins/com/jme3/asset/plugins/FileLocator.java <==

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==> engine/src/core-plugins/com/jme3/asset/plugins/ZipLocator.java <==
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```

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*/
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```
==> engine/src/core-plugins/com/jme3/asset/plugins/HttpZipLocator.java <==
```

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```

```
*/
```

```
==> engine/src/core-plugins/com/jme3/asset/plugins/UrlAssetInfo.java <==
```

```
/**
```

```
* Handles loading of assets from a URL
```

```
*
```

```
* @author Kirill Vainer
```

```
*/
```

```
==> engine/src/core-plugins/com/jme3/shader/plugins/GLSLLoader.java <==
```

```
/*
```

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*/

==> engine/src/core-plugins/com/jme3/scene/plugins/MTLLoader.java <==

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==> engine/src/core-plugins/com/jme3/scene/plugins/OBJLoader.java <==
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*/
==> engine/src/.DS_Store <==
==> engine/src/xml/com/jme3/export/xml/XMLExporter.java <==

```



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==> engine/src/xml/com/jme3/export/xml/DOMSerializer.java <==
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==> engine/src/xml/com/jme3/export/xml/DOMOutputCapsule.java <==

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==> engine/src/xml/com/jme3/export/xml/XMLImporter.java <==
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==> engine/src/jogg/com/jme3/audio/plugins/CachedOggStream.java <==

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 ==> engine/src/core-data/Common/ShaderLib/Fog.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/Common.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/Bump.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/Texture.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/Shadow.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/Tangent.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/MultiSample.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/Math.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/Hdr.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/Optics.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/Parallax.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/Lighting.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/Splatting.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/Skinning.glsl <==
 ==> engine/src/core-data/Common/ShaderLib/Ubo.glsl <==
 ==> engine/src/core-data/Common/Materials/WhiteColor.j3m <==
 ==> engine/src/core-data/Common/Materials/VertexColor.j3m <==
 ==> engine/src/core-data/Common/Materials/RedColor.j3m <==
 ==> engine/src/core-data/Common/MatDefs/Gui/Gui.j3md <==
 ==> engine/src/core-data/Common/MatDefs/Gui/Gui.frag <==
 ==> engine/src/core-data/Common/MatDefs/Gui/Gui.vert <==
 ==> engine/src/core-data/Common/MatDefs/Shadow/PreShadow.vert <==
 ==> engine/src/core-data/Common/MatDefs/Shadow/PostShadow.vert <==
 ==> engine/src/core-data/Common/MatDefs/Shadow/PostShadowPSSM.j3md <==
 ==> engine/src/core-data/Common/MatDefs/Shadow/PostShadowPSSM15.frag <==
 ==> engine/src/core-data/Common/MatDefs/Shadow/PostShadowPSSM.frag <==
 ==> engine/src/core-data/Common/MatDefs/Shadow/PreShadow.frag <==
 ==> engine/src/core-data/Common/MatDefs/Shadow/PreShadow.j3md <==
 ==> engine/src/core-data/Common/MatDefs/Shadow/PostShadow.j3md <==
 ==> engine/src/core-data/Common/MatDefs/Shadow/PostShadow.frag <==
 ==> engine/src/core-data/Common/MatDefs/Shadow/PostShadowPSSM.vert <==
 ==> engine/src/core-data/Common/MatDefs/Blur/HGaussianBlur.j3md <==
 ==> engine/src/core-data/Common/MatDefs/Blur/RadialBlur15.frag <==

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==> engine/src/core-data/Common/MatDefs/Blur/RadialBlur.j3md <==
==> engine/src/core-data/Common/MatDefs/Blur/VGaussianBlur.j3md <==
==> engine/src/core-data/Common/MatDefs/Blur/HGaussianBlur.frag <==
==> engine/src/core-data/Common/MatDefs/Blur/VGaussianBlur.frag <==
==> engine/src/core-data/Common/MatDefs/Blur/RadialBlur.frag <==
==> engine/src/core-data/Common/MatDefs/Hdr/LogLum.frag <==
==> engine/src/core-data/Common/MatDefs/Hdr/ToneMap.j3md <==
==> engine/src/core-data/Common/MatDefs/Hdr/ToneMap.frag <==
==> engine/src/core-data/Common/MatDefs/Hdr/LogLum.j3md <==
==> engine/src/core-data/Common/MatDefs/Light/Deferred.frag <==
==> engine/src/core-data/Common/MatDefs/Light/Lighting.frag <==
==> engine/src/core-data/Common/MatDefs/Light/Deferred.vert <==
==> engine/src/core-data/Common/MatDefs/Light/GBuf.frag <==
==> engine/src/core-data/Common/MatDefs/Light/Lighting.vert <==
==> engine/src/core-data/Common/MatDefs/Light/Glow.frag <==
==> engine/src/core-data/Common/MatDefs/Light/GBuf.vert <==
==> engine/src/core-data/Common/MatDefs/Light/Deferred.j3md <==
==> engine/src/core-data/Common/MatDefs/Light/Lighting.j3md <==
==> engine/src/core-data/Common/MatDefs/Misc/Sky.vert <==
==> engine/src/core-data/Common/MatDefs/Misc/Particle.j3md <==
==> engine/src/core-data/Common/MatDefs/Misc/Particle.vert <==
==> engine/src/core-data/Common/MatDefs/Misc/ColoredTextured.j3md <==
==> engine/src/core-data/Common/MatDefs/Misc/Sky.frag <==
==> engine/src/core-data/Common/MatDefs/Misc/VertexColor.j3md <==
==> engine/src/core-data/Common/MatDefs/Misc/SolidColor.j3md <==
==> engine/src/core-data/Common/MatDefs/Misc/Unshaded.frag <==
==> engine/src/core-data/Common/MatDefs/Misc/SimpleTextured.vert <==
==> engine/src/core-data/Common/MatDefs/Misc/ShowNormals.frag <==
==> engine/src/core-data/Common/MatDefs/Misc/Unshaded.vert <==
==> engine/src/core-data/Common/MatDefs/Misc/SimpleTextured.frag <==
==> engine/src/core-data/Common/MatDefs/Misc/SimpleTextured.j3md <==
==> engine/src/core-data/Common/MatDefs/Misc/Unshaded.j3md <==
==> engine/src/core-data/Common/MatDefs/Misc/ShowNormals.j3md <==
==> engine/src/core-data/Common/MatDefs/Misc/Particle.frag <==
==> engine/src/core-data/Common/MatDefs/Misc/Sky.j3md <==
==> engine/src/core-data/Common/MatDefs/Misc/ColoredTextured.frag <==
==> engine/src/core-data/Common/MatDefs/Misc/ColoredTextured.vert <==
==> engine/src/core-data/Common/MatDefs/Misc/ShowNormals.vert <==
==> engine/src/core-data/Common/MatDefs/Misc/WireColor.j3md <==
==> engine/src/core-data/Interface/Fonts/Console.fnt <==
==> engine/src/core-data/Interface/Fonts/Console.png <==
==> engine/src/core-data/Interface/Fonts/Default.png <==
==> engine/src/core-data/Interface/Fonts/Default.fnt <==
==> engine/src/tools/jme3tools/optimize/GeometryBatchFactory.java <==
==> engine/src/tools/jme3tools/optimize/Octnode.java <==
/*
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==> engine/src/tools/jme3tools/optimize/OCTTriangle.java <==
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==> engine/src/tools/jme3tools/optimize/FastOctnode.java <==

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==> engine/src/tools/jme3tools/optimize/TestCollector.java <==

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==> engine/src/tools/jme3tools/optimize/TextureAtlas.java <==
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==> engine/src/tools/jme3tools/optimize/TriangleCollector.java <==

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==> engine/src/tools/jme3tools/optimize/Octree.java <==

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*/
==> engine/src/tools/jme3tools/optimize/pvsnotes <==
==> engine/src/tools/jme3tools/savegame/SaveGame.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* Tool for saving Savables as SaveGame entries in a system-dependent way.
* @author normenhansen
*/
==> engine/src/tools/jme3tools/converters/Converter.java <==
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==> engine/src/tools/jme3tools/converters/RGB565.java <==
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/**

==> engine/src/tools/jme3tools/converters/FolderConverter.java <==

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==> engine/src/tools/jme3tools/converters/model/strip/StripStartInfo.java <==
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==> engine/src/tools/jme3tools/converters/model/strip/StripInfoVec.java <==
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==> engine/src/tools/jme3tools/converters/model/strip/TriStrip.java <==
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==> engine/src/tools/jme3tools/converters/model/strip/PrimitiveGroup.java <==
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/**
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==> engine/src/tools/jme3tools/converters/model/strip/StripInfo.java <==
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/**
==> engine/src/tools/jme3tools/converters/model/strip/VertexCache.java <==
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*/

==> engine/src/tools/jme3tools/converters/model/strip/EdgeInfo.java <==

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*/
/**
==> engine/src/tools/jme3tools/converters/model/strip/Stripifier.java <==
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*/

==> engine/src/tools/jme3tools/converters/model/strip/FaceInfoVec.java <==

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==> engine/src/tools/jme3tools/converters/model/FloatToFixed.java <==
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```

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*/
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```
==> engine/src/bullet-common/com/jme3/bullet/BulletAppState.java <==
```

```
/*
```

```
* To change this template, choose Tools | Templates
```

```
* and open the template in the editor.
```

```
*/
```

```
/**
```

```
* <code>BulletAppState</code> allows using bullet physics in an Application.
```

```
* @author normenhansen
```

```
*/
```

```
==> engine/src/bullet-common/com/jme3/bullet/PhysicsTickListener.java <==
```

```
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```

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*/
/**
* Implement this interface to be called from the physics thread on a physics update.
==> engine/src/bullet-common/com/jme3/bullet/collision/RagdollCollisionListener.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* @author Nehon
*/
==> engine/src/bullet-common/com/jme3/bullet/collision/shapes/infos/ChildCollisionShape.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* @author normenhansen
*/
==> engine/src/bullet-common/com/jme3/bullet/collision/PhysicsCollisionGroupListener.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* @author normenhansen
*/
==> engine/src/bullet-common/com/jme3/bullet/collision/PhysicsCollisionListener.java <==
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*/
/**
* Interface for Objects that want to be informed about collision events in the physics space
==> engine/src/bullet-common/com/jme3/bullet/util/CollisionShapeFactory.java <==
*/
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==> engine/src/bullet-common/com/jme3/bullet/control/VehicleControl.java <==
/*
* To change this template, choose Tools | Templates
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*/
/**
*
* @author normenhansen
*/
==> engine/src/bullet-common/com/jme3/bullet/control/PhysicsControl.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* @author normenhansen
*/
==> engine/src/bullet-common/com/jme3/bullet/control/KinematicRagdollControl.java <==
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==> engine/src/bullet-common/com/jme3/bullet/control/ragdoll/RagdollUtils.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* @author Nehon
*/
==> engine/src/bullet-common/com/jme3/bullet/control/ragdoll/RagdollPreset.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* @author Nehon
*/
==> engine/src/bullet-common/com/jme3/bullet/control/ragdoll/HumanoidRagdollPreset.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* @author Nehon
*/
==> engine/src/bullet-common/com/jme3/bullet/control/GhostControl.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* A GhostControl moves with the spatial it is attached to and can be used to check
* overlaps with other physics objects (e.g. aggro radius).
* @author normenhansen
*/
==> engine/src/bullet-common/com/jme3/bullet/control/CharacterControl.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*

```

```

* @author normenhansen
*/
==> engine/src/bullet-common/com/jme3/bullet/control/RigidBodyControl.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* @author normenhansen
*/
==> engine/src/core-effects/Common/MatDefs/Water/Textures/heightmap.jpg <==
==> engine/src/core-effects/Common/MatDefs/Water/Textures/water_normalmap.dds <==
==> engine/src/core-effects/Common/MatDefs/Water/Textures/caustics.jpg <==
==> engine/src/core-effects/Common/MatDefs/Water/Textures/foam2.jpg <==
==> engine/src/core-effects/Common/MatDefs/Water/Textures/foam.jpg <==
==> engine/src/core-effects/Common/MatDefs/Water/Textures/dudv_map.jpg <==
==> engine/src/core-effects/Common/MatDefs/Water/Textures/foam3.jpg <==
==> engine/src/core-effects/Common/MatDefs/Water/Water.j3md <==
==> engine/src/core-effects/Common/MatDefs/Water/SimpleWater.j3md <==
==> engine/src/core-effects/Common/MatDefs/Water/simple_water.vert <==
/*
==> engine/src/core-effects/Common/MatDefs/Water/Water.frag <==
==> engine/src/core-effects/Common/MatDefs/Water/Water15.frag <==
==> engine/src/core-effects/Common/MatDefs/Water/simple_water.frag <==
/*
==> engine/src/core-effects/Common/MatDefs/SSAO/Textures/random.png <==
==> engine/src/core-effects/Common/MatDefs/SSAO/ssaoBlur15.frag <==
==> engine/src/core-effects/Common/MatDefs/SSAO/ssao15.frag <==
==> engine/src/core-effects/Common/MatDefs/SSAO/normal.vert <==
==> engine/src/core-effects/Common/MatDefs/SSAO/ssaoBlur.j3md <==
==> engine/src/core-effects/Common/MatDefs/SSAO/ssao.j3md <==
==> engine/src/core-effects/Common/MatDefs/SSAO/ssaoBlur.frag <==
/*
==> engine/src/core-effects/Common/MatDefs/SSAO/normal.frag <==
==> engine/src/core-effects/Common/MatDefs/SSAO/ssao.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/bloomFinal15.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/LightScattering15.vert <==
==> engine/src/core-effects/Common/MatDefs/Post/BloomFinal.j3md <==
==> engine/src/core-effects/Common/MatDefs/Post/Post.vert <==
==> engine/src/core-effects/Common/MatDefs/Post/bloomExtract.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/LightScattering.j3md <==
==> engine/src/core-effects/Common/MatDefs/Post/GammaCorrection15.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/CartoonEdge.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/FXAA.vert <==
==> engine/src/core-effects/Common/MatDefs/Post/BloomExtract.j3md <==
==> engine/src/core-effects/Common/MatDefs/Post/Fog.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/bloomExtract15.frag <==

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==> engine/src/core-effects/Common/MatDefs/Post/LightScattering.vert <==
==> engine/src/core-effects/Common/MatDefs/Post/DepthOfField.j3md <==
==> engine/src/core-effects/Common/MatDefs/Post/Overlay.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/Fog.j3md <==
==> engine/src/core-effects/Common/MatDefs/Post/Overlay15.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/Overlay.j3md <==
==> engine/src/core-effects/Common/MatDefs/Post/Posterization.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/LightScattering.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/Fade15.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/Fog15.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/DepthOfField.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/CrossHatch15.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/Posterization15.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/Posterization.j3md <==
==> engine/src/core-effects/Common/MatDefs/Post/FXAA.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/LightScattering15.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/Post15.vert <==
==> engine/src/core-effects/Common/MatDefs/Post/GammaCorrection.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/CrossHatch.j3md <==
==> engine/src/core-effects/Common/MatDefs/Post/GammaCorrection.j3md <==
==> engine/src/core-effects/Common/MatDefs/Post/bloomFinal.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/CartoonEdge.j3md <==
==> engine/src/core-effects/Common/MatDefs/Post/Fade.j3md <==
==> engine/src/core-effects/Common/MatDefs/Post/FXAA.j3md <==
==> engine/src/core-effects/Common/MatDefs/Post/CrossHatch.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/Fade.frag <==
==> engine/src/core-effects/Common/MatDefs/Post/CartoonEdge15.frag <==
==> engine/src/core-effects/com/jme3/water/SimpleWaterProcessor.java <==

```

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*/
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```
==> engine/src/core-effects/com/jme3/water/ReflectionProcessor.java <==
```

```
/*
```

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* To change this template, choose Tools | Templates
```

```
* and open the template in the editor.
```

```
*/
```

```
/**
```

```
* Reflection Processor
```

```
* Used to render the reflected scene in an off view port
```

```
*/
```

```
==> engine/src/core-effects/com/jme3/water/WaterFilter.java <==
```

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```

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*/
==> engine/src/core-effects/com/jme3/post/filters/GammaCorrectionFilter.java <==
/**
*
* @author Phate666
* @version 1.0 initial version
* @version 1.1 added luma
*/
==> engine/src/core-effects/com/jme3/post/filters/ColorOverlayFilter.java <==
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==> engine/src/core-effects/com/jme3/post/filters/CartoonEdgeFilter.java <==
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*/
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```
==> engine/src/core-effects/com/jme3/post/filters/FadeFilter.java <==
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*/
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```
==> engine/src/core-effects/com/jme3/post/filters/RadialBlurFilter.java <==
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==> engine/src/core-effects/com/jme3/post/filters/FogFilter.java <==
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```
==> engine/src/core-effects/com/jme3/post/filters/PosterizationFilter.java <==
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```
==> engine/src/core-effects/com/jme3/post/filters/LightScatteringFilter.java <==
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*/
==> engine/src/core-effects/com/jme3/post/filters/TranslucentBucketFilter.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* A filter to handle translucent objects when rendering a scene with filters that uses depth like WaterFilter and
SSAOFilter
* just create a TranslucentBucketFilter and add it to the Filter list of a FilterPostPorcessor
* @author Nehon
*/
==> engine/src/core-effects/com/jme3/post/filters/BloomFilter.java <==
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==> engine/src/core-effects/com/jme3/post/filters/CrossHatchFilter.java <==
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*/
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```
==> engine/src/core-effects/com/jme3/post/filters/DepthOfFieldFilter.java <==
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*/
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```
==> engine/src/core-effects/com/jme3/post/filters/FXAAFilter.java <==
```

```
/**
```

```
* <a href="http://www.geeks3d.com/20110405/fxaa-fast-approximate-anti-aliasing-demo-gsl-opengl-test-radeon-
* geforce/3/" rel="nofollow">http://www.geeks3d.com/20110405/fxaa-fast-approximate-anti-aliasing-demo-gsl-
* <span class="domtooltips" title="OpenGL (Open Graphics Library) is a standard specification defining a cross-
* language, cross-platform API for writing applications that produce 2D and 3D computer graphics."
```

```
id="domtooltipsspan11">opengl</span>-test-radeon-geforce/3/</a>
```

```
* <a href="http://developer.download.nvidia.com/assets/gamedev/files/sdk/11/FXAA_WhitePaper.pdf"
```

```
rel="nofollow">http://developer.download.nvidia.com/assets/gamedev/files/sdk/11/FXAA_WhitePaper.pdf</a>
```

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*
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```

* @author Phate666 (adapted to jme3)
*
*/
==> engine/src/niftygui/Common/MatDefs/Nifty/Nifty.j3md <==
==> engine/src/niftygui/Common/MatDefs/Nifty/Nifty.vert <==
==> engine/src/niftygui/Common/MatDefs/Nifty/Nifty.frag <==
==> engine/src/niftygui/com/jme3/niftygui/NiftyJmeDisplay.java <==
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*/

==> engine/src/niftygui/com/jme3/niftygui/RenderDeviceJme.java <==

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==> engine/src/niftygui/com/jme3/cinematic/events/GuiTrack.java <==
```

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*/
==> engine/src/bullet/com/jme3/bullet/objects/infos/RigidBodyMotionState.java <==
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==> engine/src/bullet/com/jme3/bullet/objects/infos/VehicleTuning.java <==

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/**

*

==> engine/src/bullet/com/jme3/bullet/objects/PhysicsGhostObject.java <==

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==> engine/src/bullet/com/jme3/bullet/collision/shapes/HullCollisionShape.java <==
==> engine/src/bullet/com/jme3/bullet/collision/shapes/SimplexCollisionShape.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* A simple point, line, triangle or quad collisionShape based on one to four points-
* @author normenhansen
*/
==> engine/src/bullet/com/jme3/bullet/collision/shapes/CylinderCollisionShape.java <==
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/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* Uses Bullet Physics Heightfield terrain collision system. This is MUCH faster
* than using a regular mesh.
* There are a couple tricks though:
* -No rotation or translation is supported.
* -The collision bbox must be centered around 0,0,0 with the height above and below the y-axis being
* equal on either side. If not, the whole collision box is shifted vertically and things don't collide
* as they should.
*
* @author Brent Owens
*/
==> engine/src/bullet/com/jme3/bullet/collision/shapes/MeshCollisionShape.java <==
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*/
==> engine/src/bullet/com/jme3/bullet/collision/shapes/PlaneCollisionShape.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* @author normenhansen
*/
==> engine/src/bullet/com/jme3/bullet/collision/shapes/SphereCollisionShape.java <==
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*/
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```
==> engine/src/bullet/com/jme3/bullet/collision/shapes/ConeCollisionShape.java <==
```

```
/*
```

```
* To change this template, choose Tools | Templates
```

```
* and open the template in the editor.
```

```
*/
```

```
/**
```

```
*
```

```
* @author normenhansen
```

```
*/
```

```
==> engine/src/bullet/com/jme3/bullet/util/DebugShapeFactory.java <==
```

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==> engine/src/bullet/com/jme3/bullet/util/NativeMeshUtil.java <==
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==> engine/src/bullet/com/jme3/bullet/util/DebugMeshCallback.java <==
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==> engine/src/bullet/com/jme3/bullet/joints/SixDofSpringJoint.java <==
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==> engine/src/bullet/com/jme3/bullet/joints/Point2PointJoint.java <==
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*/
==> engine/src/bullet/com/jme3/bullet/joints/SixDofJoint.java <==
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==> engine/src/bullet/com/jme3/bullet/joints/ConeJoint.java <==
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==> engine/src/bullet/com/jme3/bullet/joints/HingeJoint.java <==
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==> engine/src/bullet/com/jme3/bullet/joints/SliderJoint.java <==
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==> engine/src/bullet/com/jme3/bullet/joints/motors/RotationalLimitMotor.java <==
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*/
/**
*
==> engine/src/bullet/com/jme3/bullet/joints/motors/TranslationalLimitMotor.java <==
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==> engine/src/test/jme3test/animation/SubtitleTrack.java <==
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/**
*
* @author Nehon
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==> engine/src/test/jme3test/animation/TestCinematic.java <==
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==> engine/src/test/jme3test/animation/TestMotionPath.java <==
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==> engine/src/test/jme3test/animation/TestCameraMotionPath.java <==

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*/
==> engine/src/test/jme3test/helloworld/HelloLoop.java <==
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*/
==> engine/src/test/jme3test/helloworld/HelloAudio.java <==

```

```

/** Sample 11 - playing 3D audio. */
==> engine/src/test/jme3test/helloworld/HelloInput.java <==
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 */
==> engine/src/test/jme3test/helloworld/HelloEffects.java <==
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*/
==> engine/src/test/jme3test/helloworld/HelloTerrainCollision.java <==
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```

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*/  
==> engine/src/test/jme3test/helloworld/HelloPicking.java <==  
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*/
```

```
==> engine/src/test/jme3test/helloworld/HelloJME3.java <==  
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==> engine/src/test/jme3test/helloworld/HelloAssets.java <==
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```

```
*/
==> engine/src/test/jme3test/helloworld/HelloPhysics.java <==
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```
==> engine/src/test/jme3test/helloworld/HelloAnimation.java <==
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==> engine/src/test/jme3test/helloworld/HelloCollision.java <==
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*/
==> engine/src/test/jme3test/helloworld/HelloMaterial.java <==
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```
==> engine/src/test/jme3test/helloworld/HelloNode.java <==
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==> engine/src/test/jme3test/blender/TestBlenderLoader.java <==
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*/
==> engine/src/test/jme3test/audio/TestWav.java <==
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==> engine/src/test/jme3test/audio/TestAmbient.java <==
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==> engine/src/test/jme3test/audio/TestDoppler.java <==

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*/

==> engine/src/test/jme3test/audio/TestOgg.java <==

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*/

==> engine/src/test/jme3test/audio/TestMusicPlayer.form <==

==> engine/src/test/jme3test/audio/TestMusicPlayer.java <==

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*/

==> engine/src/test/jme3test/audio/TestReverb.java <==

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*/
==> engine/src/test/jme3test/terrain/TerrainTestCollision.java <==
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*/
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```
==> engine/src/test/jme3test/terrain/TerrainTestModifyHeight.java <==
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*/
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==> engine/src/test/jme3test/terrain/TerrainTestReadWrite.java <==
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*/
==> engine/src/test/jme3test/terrain/TerrainFractalGridTest.java <==
==> engine/src/test/jme3test/terrain/TerrainGridAlphaMapTest.java <==
==> engine/src/test/jme3test/terrain/TerrainGridTest.java <==
==> engine/src/test/jme3test/terrain/TerrainGridSerializationTest.java <==
==> engine/src/test/jme3test/terrain/TerrainGridTileLoaderTest.java <==
==> engine/src/test/jme3test/terrain/TerrainTestAdvanced.java <==
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==> engine/src/test/jme3test/terrain/TerrainTest.java <==
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==> engine/src/test/jme3test/renderer/TestMultiViews.java <==

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 */
==> engine/src/test/jme3test/renderer/TestParallelProjection.java <==
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==> engine/src/test/jme3test/math/TestHalfFloat.java <==
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==> engine/src/test/jme3test/collision/TestTriangleCollision.java <==

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==> engine/src/test/jme3test/collision/TestRayCasting.java <==
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==> engine/src/test/jme3test/collision/TestMousePick.java <==
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*/
==> engine/src/test/jme3test/collision/RayTrace.java <==

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==> engine/src/test/jme3test/water/TestPostWater.java <==
==> engine/src/test/jme3test/water/TestSceneWater.java <==
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==> engine/src/test/jme3test/water/TestPostWaterLake.java <==
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==> engine/src/test/jme3test/water/WaterUI.java <==
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==> engine/src/test/jme3test/water/TestSimpleWater.java <==
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==> engine/src/test/jme3test/texture/tex3DThumb.vert <==
==> engine/src/test/jme3test/texture/TestTextureArray.java <==
==> engine/src/test/jme3test/texture/TestSkyLoading.java <==
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 */
==> engine/src/test/jme3test/texture/UnshadedArray.frag <==
==> engine/src/test/jme3test/texture/TestTexture3D.java <==
/*
 * To change this template, choose Tools | Templates
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 */
==> engine/src/test/jme3test/texture/tex3D.frag <==
==> engine/src/test/jme3test/texture/tex3D.j3md <==
==> engine/src/test/jme3test/texture/UnshadedArray.vert <==
==> engine/src/test/jme3test/texture/tex3DThumb.j3md <==
==> engine/src/test/jme3test/texture/tex3D.vert <==
==> engine/src/test/jme3test/texture/tex3DThumb.frag <==
==> engine/src/test/jme3test/texture/UnshadedArray.j3md <==
==> engine/src/test/jme3test/texture/TestTexture3DLoading.java <==

```



```

/*
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 */
==> engine/src/test/jme3test/material/TestSimpleBumps.java <==
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==> engine/src/test/jme3test/material/TestNormalMapping.java <==
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==> engine/src/test/jme3test/material/TestBumpModel.java <==
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*/
==> engine/src/test/jme3test/material/TestUnshadedModel.java <==
==> engine/src/test/jme3test/material/TestColoredTexture.java <==
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==> engine/src/test/jme3test/export/TestAssetLinkNode.java <==

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==> engine/src/test/jme3test/stress/TestLeakingGL.java <==

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==> engine/src/test/jme3test/stress/TestLodStress.java <==
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==> engine/src/test/jme3test/asset/TestManyLocators.java <==
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==> engine/src/test/jme3test/asset/TestAssetCache.java <==
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==> engine/src/test/jme3test/asset/TestUrlLoading.java <==

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==> engine/src/test/jme3test/app/state/TestAppStates.java <==
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==> engine/src/test/jme3test/app/TestBareBonesApp.java <==
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==> engine/src/test/jme3test/app/TestReleaseDirectMemory.java <==
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==> engine/src/test/jme3test/awt/TestSafeCanvas.java <==
==> engine/src/test/jme3test/awt/TestAwtPanels.java <==
==> engine/src/test/jme3test/awt/TestCanvas.java <==
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==> engine/src/test/jme3test/batching/TestBatchNode.java <==

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*/

/**

*

* @author Nehon

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==> engine/src/test/jme3test/batching/TestBatchNodeTower.java <==

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==> engine/src/test/jme3test/tools/TestTextureAtlas.java <==
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*/
==> engine/src/test/jme3test/effect/TestPointSprite.java <==
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```
==> engine/src/test/jme3test/effect/TestExplosionEffect.java <==
```

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==> engine/src/test/jme3test/bullet/TestFancyCar.java <==
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```
==> engine/src/test/jme3test/bullet/TestBrickWall.java <==
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==> engine/src/test/jme3test/bullet/TestPhysicsCharacter.java <==
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==> engine/src/test/jme3test/bullet/TestCcd.java <==

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==> engine/src/test/jme3test/bullet/TestAttachDriver.java <==
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==> engine/src/test/jme3test/bullet/TestAttachGhostObject.java <==
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==> engine/src/test/jme3test/bullet/PhysicsTestHelper.java <==

```

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 */
/**
 *
 * @author normenhansen
 */
==> engine/src/test/jme3test/bullet/TestCollisionGroups.java <==
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==> engine/src/test/jme3test/bullet/TestBoneRagdoll.java <==
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==> engine/src/test/jme3test/bullet/TestHoveringTank.java <==
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==> engine/src/test/jme3test/bullet/BombControl.java <==
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```
* and open the template in the editor.
```

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*/
```

```
/**
```

```
*
```

```
* @author normenhansen
```

```
*/
```

```
==> engine/src/test/jme3test/bullet/PhysicsHoverControl.java <==
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/**
*
* @author normenhansen
*/
==> engine/src/test/jme3test/bullet/TestBrickTower.java <==
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```
==> engine/src/test/jme3test/bullet/TestWalkingChar.java <==
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==> engine/src/test/jme3test/bullet/TestKinematicAddToPhysicsSpaceIssue.java <==
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* To change this template, choose Tools | Templates
```

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* and open the template in the editor.
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* @author Nehon
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==> engine/src/test/jme3test/bullet/TestCollisionListener.java <==
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==> engine/src/test/jme3test/input/combomoves/ComboMove.java <==
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==> engine/src/test/jme3test/bounding/TestRayCollision.java <==
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==> engine/src/test/jme3test/model/anim/TestCustomAnim.java <==
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==> engine/src/test/jme3test/model/anim/TestAnimationFactory.java <==
==> engine/src/test/jme3test/model/anim/TestSpatialAnim.java <==
==> engine/src/test/jme3test/model/anim/TestBlenderAnim.java <==
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==> engine/src/test/jme3test/model/shape/TestDebugShapes.java <==
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==> engine/src/test/jme3test/post/TestDepthOfField.java <==
```

```
/**
```

```
* test
```

```
* @author Nehon
```

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*/
```

```
==> engine/src/test/jme3test/post/SSAOUI.java <==
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==> engine/src/test/jme3test/post/TestSSAO.java <==
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==> engine/src/test/jme3test/post/TestFog.java <==
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==> engine/src/test/jme3test/post/TestPosterization.java <==
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*/
==> engine/src/test/jme3test/post/TestTransparentCartoonEdge.java <==
==> engine/src/test/jme3test/post/TestLightScattering.java <==
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```
==> engine/src/test/jme3test/post/LightScatteringUI.java <==
```

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```
==> engine/src/test/jme3test/post/TestFBOPassthrough.java <==
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*/
==> engine/src/test/jme3test/post/TestTransparentSSAO.java <==
==> engine/src/test/jme3test/post/BloomUI.java <==
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==> engine/src/test/jme3test/post/TestMultiRenderTarget.java <==

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==> engine/src/test/jme3test/post/TestHDR.java <==

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==> engine/src/test/jme3test/post/TestMultiViewsFilters.java <==
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==> engine/src/test/jme3test/post/TestMultiplesFilters.java <==

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==> engine/src/test/jme3test/light/TestLightNode.java <==

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==> engine/src/test/jme3test/light/TestSpotLightTerrain.java <==
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==> engine/src/test/jme3test/light/TestTangentGenBadUV.java <==

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*/

==> engine/src/test/jme3test/light/TestTransparentShadow.java <==

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==> engine/src/test/jme3test/light/TestTangentGenBadModels.java <==
/**
*
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*/
==> engine/src/test/jme3test/light/TestShadow.java <==
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==> engine/src/test/jme3test/light/TestTangentGen.java <==
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*/
==> engine/src/test/jme3test/light/TestSimpleLighting.java <==
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==> engine/src/test/jme3test/light/TestLightRadius.java <==
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*/
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==> engine/src/test/jme3test/light/TestEnvironmentMapping.java <==
/**
* test
* @author nehon
*/
==> engine/src/test/jme3test/light/TestManyLights.java <==
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==> engine/src/test/jme3test/network/TestNetworkStress.java <==
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1.137 libusb 1.0.8 :jellybean

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1.138 libusb-compat 0.1.0 :jellybean

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1.140 libxml2 2.7.8 :jellybean

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1.142 libyuv r52 :ICS

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1.143 Linux, 3.0.31 3.0.31

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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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Felix Domke <tmbinc@elitedvb.net>
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for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch

Hardware I2C

Gerd Knorr <krxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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That's all there is to it!

```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
```

* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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=====
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in src/lib/gssapi, including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c

lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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lib/krb5/os/hst_realm.c

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```
* -----
```

```
*/
```

```
/*! \file mp3_decoder_selection.h
```

```
* \brief select mp3 decoder
```

```
*
```

```
*/
```

```
#ifndef MP3_DECODER_SELECTION_H
```

```
#define MP3_DECODER_SELECTION_H
```

```
#define NEW_PV_MP3_DECODER 1 // 1 == PV mp3 decoder
```

```
#endif
```

```
/*
```

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```
*
```

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*/

```

```
#ifndef SOFT_MP3_H_
```

```
#define SOFT_MP3_H_
```

```
#include "SimpleSoftOMXComponent.h"
```

```
struct tPVMP3DecoderExternal;
```

```
namespace android {
```

```
struct SoftMP3 : public SimpleSoftOMXComponent {
```

```
    SoftMP3(const char *name,
            const OMX_CALLBACKTYPE *callbacks,
            OMX_PTR appData,
            OMX_COMPONENTTYPE **component);
```

```
protected:
```

```
    virtual ~SoftMP3();
```

```
    virtual OMX_ERRORTYPE internalGetParameter(
        OMX_INDEXTYPE index, OMX_PTR params);
```

```
    virtual OMX_ERRORTYPE internalSetParameter(
        OMX_INDEXTYPE index, const OMX_PTR params);
```

```
    virtual void onQueueFilled(OMX_U32 portIndex);
```

```
    virtual void onPortFlushCompleted(OMX_U32 portIndex);
```

```
    virtual void onPortEnableCompleted(OMX_U32 portIndex, bool enabled);
```

```
private:
```

```
    enum {
        kNumBuffers = 4,
        kOutputBufferSize = 4608 * 2
    };
```



```

tPVMP3DecoderExternal *mConfig;
void *mDecoderBuf;
int64_t mAnchorTimeUs;
int64_t mNumFramesOutput;

int32_t mNumChannels;
int32_t mSamplingRate;

bool mConfigured;

bool mSignalledError;

enum {
    NONE,
    AWAITING_DISABLED,
    AWAITING_ENABLED
} mOutputPortSettingsChange;

void initPorts();
void initDecoder();

DISALLOW_EVIL_CONSTRUCTORS(SoftMP3);
};

} // namespace android

#endif // SOFT_MP3_H_

```

1.154 mtpd 1.1 :jellybean

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1.155 netcat 1.2 :jellybean

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```

```
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```

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1.156 netperf 2.4.4-6.1

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This package was debianized by Erik Wenzel erik@debian.org on
Wed, 30 Jan 2002 10:15:17 +0200

It was downloaded from:
<ftp://ftp.netperf.org/netperf>

Upstream Authors:

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Rick Jones <raj@cup.hp.com>
Responsible for initial packaging and release of netperf and
"editorial" continuity for subsequent releases.

Karen Choy
Code to allow netserver to run as a standalone daemon.

Dave Shield <daves@csc.liv.ac.uk>
Wrote the first revision of the netperf and netserver manpages.

Sarr Blumson <sarr@citi.umich.edu>

Fixes for AIX 3.1 and 3.2. Also fixes for Solaris 2.1 without realizing it ;-)

Jeff Smits <jgs@usl.com>

Fixes for TCP_RR and UDP_RR on systems with an htonl that is not a no-op.

Warren Burnett <somewhere in Kansas>

Example code for DLPI tests.

Several Folks

Code to tell SunOS 4 to *not* restart system calls on receipt of a signal.

Fore Systems Inc.

Manpages for the FORE API and question answering

David Channin

Access to systems running the Fore ATM API

Jonathan Stone <jonathan@DSG.Stanford.EDU>

Include file fixes for Ultrix

Bruce Barnett <barnett@grymoire.crd.ge.com>

Bunches of warnings fixes and lint picks for Solaris 2.3

Herman Dierks et al <dierks@austin.ibm.com>

Code to calculate confidence intervals for tests

Hal Murray <murray@pa.dec.com>

Helpful suggestions for the scripts to make them more compatible with the netperf database (<http://www.cup.hp.com/netperf/NetperfPage.html>).

His prompting finally got me off my whatever to put the confidence interval stuff from the guys at IBM into netperf

Peter Skopp pds@cs.columbia.edu

Fixes to make netperf more secure.

Tom Wilson <tcwilson@newbridge.com>

A fix to send_udp_rr to correct bogus throughput values.

Thorsten Lockert <tholo@tetherless.com>

A bunch of clean-up for the *BSD OSes

Serge Pachkovsky <ps@ocisgi7.unizh.ch>

Code for low-priority soaker process for AIX and SGI

The fine folks at Adaptec

The initial port of netperf (1.9PL4) to Windows NT 3.51.

Robin Callender <robin_callender@VNET.IBM.COM>

The PPC binaries for the 1.9PL4 port of netperf to NT and for assorted code clean-ups and help with CPU utilization measurements.

"Todd J. Derr" <tjd@fore.com>

For offering to take-on support of the Fore ATM API files with 2.1 and for his help in making the tar files and such more user-friendly

Michael Shuldman <michaels@inet.no>

Improvements to the makefile and additional checks for OpenBSD

Kris Corwin

discovery of a debug statement outside of if (debug) that may have been the cause of all the nasty connection refused errors in random UDP_RR tests...

Charles Harris

Initial prototype of the TCP_SENDFILE test support

Philip Pishioneri of Cornel

Conversion of the netperf.ps manul to PDF format.

The Hewlett-Packard OpenVMS folks

Assistance with the port to OpenVMS

Munehika SUMIKAWA @ KAME Project / FreeBSD.org

IPv6 fixes

Jan Iven of CERN

initial mods for sendfile() under Linux

Fabrice Bacchella

for pointing-out that Solaris 9 has a copy of Linux sendfile()

Andrew Gallatin

for assistance with the FreeBSD sysctl() stuff, and later making it calibration-free

Mark Cooper

pointing-out the need for -lresolv when compiling -DDO_DNS on RedHat 7.1

Carl Mascott

finding some cut-and-paste errors in create_data_socket error logging

Fabrice Bacchella

Fixes for -DHISTOGRAM and -DUNIX on Mac OS X, updates to usage strings

Spencer Frink

Fixes and Cleanup for WIN32. Many over many years.

Nicholas Thomas

Fixes for DLPI on SVR4 Streams under Linux

Dave Craig

Fixes for getaddrinfo error returns

David Mosberger of HP

Workaround for the Linux getsockopt() bug that returns more than that for which one asked.

Stephen Burger of HP

Code to implement the netserv CPU binding.

Vladislav "Vlad" Yasevich of HP

Initial SCTP tests. Enhancements to the configure.ac sources to show the way to make many of the LIBS="foo" before ./configure unnecessary.

Padmanabhan "Paddu" S N of HP

Patches for /proc/stat CPU util and recv_tcp_rr.

Cary Coutant and other hp-mac-users of HP

Access to Mac OS X systems for porting netperf 2.4.0

Chris Bertin of HP

Access to AIX for initial porting of netperf 2.4.0

James Carlson

Assistance finding the right magic to compile SCTP on Solaris 10.

Gavin

Pointers on Solaris 10 Microstate accounting.

Brent Draney

Getting netcpu_perfstat.c in running order on AIX and other misc fixups in places such as BSD.

Samuel Ying

Change struct sockaddr to struct sockaddr storage in netserv.c

Rodolpho Boer

Fix for default message size in UDP_STREAM when default SO_SNDBUF size is > max UDP datagram size.

Michael Dorff

Getting netperf/netsserver to compile under Windows with MS Visual Studio 2003

George Davis
Changes to deal with different floating-point formats.

Anonymous
Changes to retrieve CPU util on MacOS X.

Dickon Reed
Patches to attend to some windows in TCP_CRR and TCP_CC under Windows

Bret McKee <bret@hp.com>
Fixes to get netcpu_looper compiling and working after the "netcpu" split

Hans Blom
Improvements to closing/redirecting stdin/stdout/stderr in netsserver

Martin Brown
RPM support in the form of netperf.spec.in and related configure.ac etc changes

Shilpi Agarwal
Changes to allow UDP_STREAM to use connected sockets on both sides.

Steve Reinhardt <stever@eecs.umich.edu>
Fixes for buffer filling.

Gisle Vanem
Fixes for Windows compilation under MingW/gcc.

Scott Weitzenkamp
Patches to enable demo mode in the UDP_STREAM test

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See <http://graphics.cs.msu.su/en/research/calibration/opencv.html> for detailed information.

Reliability additions and modifications made by Philip Gruebele.
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Some further improvements for detection of partially occluded boards at non-ideal lighting conditions have been made by Alex Bovyrin and Kurt Kolonige

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An implementation of the Earth Movers Distance.
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* @version 3.0 (December 2000)

*
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 *
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1.164 openssl 1.0.1p :1

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1.165 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
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1.172 ppp 2.4.3 :ICS

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ppp-2.4.3/include/linux/if_pppvar.h

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ppp-2.4.3/pppd/chap-md5.c

ppp-2.4.3/pppd/chap-md5.h

ppp-2.4.3/pppd/chap-new.c

ppp-2.4.3/pppd/chap-new.h

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ppp-2.4.3/include/linux/if_ppp.h

ppp-2.4.3/include/net/if_ppp.h

ppp-2.4.3/pppd/auth.c

ppp-2.4.3/pppd/fsm.c

ppp-2.4.3/pppd/fsm.h

ppp-2.4.3/pppd/ipcp.c

ppp-2.4.3/pppd/ipcp.h

ppp-2.4.3/pppd/ipv6cp.c

ppp-2.4.3/pppd/ipv6cp.h

ppp-2.4.3/pppd/pxcp.c

ppp-2.4.3/pppd/pxcp.h

ppp-2.4.3/pppd/lcp.c

ppp-2.4.3/pppd/lcp.h

ppp-2.4.3/pppd/magic.c

ppp-2.4.3/pppd/magic.h

ppp-2.4.3/pppd/main.c

ppp-2.4.3/pppd/options.c

ppp-2.4.3/pppd/pppd.h

ppp-2.4.3/pppd/sys-linux.c

ppp-2.4.3/pppd/sys-solaris.c

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ppp-2.4.3/pppd/upap.h

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ppp-2.4.3/include/net/vjcompress.h

ppp-2.4.3/modules/vjcompress.c

ppp-2.4.3/pppstats/pppstats.c

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- * Updated to ppp-2.4.1 by Bernhard Kaindl
- *
- * Updated to ppp-2.4.2 by David Woodhouse 2004.
- * - disconnect method added
- * - remove_options() abuse removed.
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ppp-2.4.3/pppd/chap_ms.c

ppp-2.4.3/pppd/ecp.c

ppp-2.4.3/pppd/ecp.h

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ppp-2.4.3/pppd/plugins/radius/dict.c
ppp-2.4.3/pppd/plugins/radius/Makefile.linux
ppp-2.4.3/pppd/plugins/radius/radattr.c
ppp-2.4.3/pppd/plugins/rp-pppoe/common.c
ppp-2.4.3/pppd/plugins/rp-pppoe/debug.c
ppp-2.4.3/pppd/plugins/rp-pppoe/discovery.c
ppp-2.4.3/pppd/plugins/rp-pppoe/if.c
ppp-2.4.3/pppd/plugins/rp-pppoe/Makefile.linux
ppp-2.4.3/pppd/plugins/rp-pppoe/pppoe-discovery.c
ppp-2.4.3/pppd/plugins/rp-pppoe/pppoe.h
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ppp-2.4.3/pppd/plugins/radius/avpair.c
ppp-2.4.3/pppd/plugins/radius/clientid.c
ppp-2.4.3/pppd/plugins/radius/config.c
ppp-2.4.3/pppd/plugins/radius/dict.c
ppp-2.4.3/pppd/plugins/radius/includes.h
ppp-2.4.3/pppd/plugins/radius/ip_util.c
ppp-2.4.3/pppd/plugins/radius/lock.c
ppp-2.4.3/pppd/plugins/radius/options.h
ppp-2.4.3/pppd/plugins/radius/pathnames.h
ppp-2.4.3/pppd/plugins/radius/radiusclient.h
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ppp-2.4.3/pppd/plugins/radius/dict.c
ppp-2.4.3/pppd/plugins/radius/includes.h
ppp-2.4.3/pppd/plugins/radius/ip_util.c
ppp-2.4.3/pppd/plugins/radius/pathnames.h
ppp-2.4.3/pppd/plugins/radius/radiusclient.h
ppp-2.4.3/pppd/plugins/radius/sendserver.c
ppp-2.4.3/pppd/plugins/radius/util.c

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ppp-2.4.3/pppd/plugins/radius/includes.h
ppp-2.4.3/pppd/plugins/radius/ip_util.c
ppp-2.4.3/pppd/plugins/radius/pathnames.h
ppp-2.4.3/pppd/plugins/radius/radiusclient.h
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[...]

Unix SMB/CIFS implementation.

Samba utility functions

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ppp-2.4.3/pppd/chap_ms.c

ppp-2.4.3/pppd/chap_ms.h

ppp-2.4.3/pppd/pppcrypt.c

ppp-2.4.3/pppd/pppcrypt.h

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```
/* pppatm.c - pppd plugin to implement PPPoATM protocol.
 *
 * Copyright 2000 Mitchell Blank Jr.
 * Based in part on work from Jens Axboe and Paul Mackerras.
 * Updated to ppp-2.4.1 by Bernhard Kaindl
 *
 * Updated to ppp-2.4.2 by David Woodhouse 2004.
 * - disconnect method added
 * - remove_options() abuse removed.
 *
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 * modify it under the terms of the GNU General Public License
 * as published by the Free Software Foundation; either version
 * 2 of the License, or (at your option) any later version.
 */
#include <unistd.h>
#include <string.h>
#include <stdlib.h>
#include "pppd.h"
#include "pathnames.h"
#include "fsm.h" /* Needed for lcp.h to include cleanly */
#include "lcp.h"
#include <atm.h>
#include <linux/atmdev.h>
#include <linux/atmppp.h>
#include <sys/stat.h>
#include <net/if.h>
#include <sys/ioctl.h>
```

```

const char pppd_version[] = VERSION;

static struct sockaddr_atmpvc pvcaddr;
static char *qosstr = NULL;
static bool llc_encaps = 0;
static bool vc_encaps = 0;
static int device_got_set = 0;
static int pppoatm_max_mtu, pppoatm_max_mru;
static int setdevname_pppoatm(const char *cp, const char **argv, int doit);
struct channel pppoa_channel;
static int pppoa_fd = -1;

static option_t pppoa_options[] = {
    { "device name", o_wild, (void *) &setdevname_pppoatm,
      "ATM service provider IDs: VPI.VCI",
      OPT_DEVNAM | OPT_PRIVFIX | OPT_NOARG | OPT_A2STRVAL | OPT_STATIC,
      devnam},
    { "llc-encaps", o_bool, &llc_encaps,
      "use LLC encapsulation for PPPoATM", 1},
    { "vc-encaps", o_bool, &vc_encaps,
      "use VC multiplexing for PPPoATM (default)", 1},
    { "qos", o_string, &qosstr,
      "set QoS for PPPoATM connection", 1},
    { NULL }
};

/* returns:
 * -1 if there's a problem with setting the device
 * 0 if we can't parse "cp" as a valid name of a device
 * 1 if "cp" is a reasonable thing to name a device
 * Note that we don't actually open the device at this point
 * We do need to fill in:
 * devnam: a string representation of the device
 * devstat: a stat structure of the device. In this case
 * we're not opening a device, so we just make sure
 * to set up S_ISCHR(devstat.st_mode) != 1, so we
 * don't get confused that we're on stdin.
 */
int (*old_setdevname_hook)(const char* cp) = NULL;
static int setdevname_pppoatm(const char *cp, const char **argv, int doit)
{
    struct sockaddr_atmpvc addr;
    extern struct stat devstat;
    if (device_got_set)
        return 0;
    //info("PPPoATM setdevname_pppoatm: '%s'", cp);
    memset(&addr, 0, sizeof addr);

```

```

if (text2atm(cp, (struct sockaddr *) &addr, sizeof(addr),
    T2A_PVC | T2A_NAME) < 0) {
    if(doit)
        info("atm does not recognize: %s", cp);
    return 0;
}
if (!doit) return 1;
//if (!dev_set_ok()) return -1;
memcpy(&pvcaddr, &addr, sizeof pvcaddr);
strncpy(devnam, cp, sizeof devnam);
devstat.st_mode = S_IFSOCK;
if (the_channel != &pppoa_channel) {
    the_channel = &pppoa_channel;
    lcp_wantoptions[0].neg_accompression = 0;
    lcp_allowoptions[0].neg_accompression = 0;
    lcp_wantoptions[0].neg_asyncmap = 0;
    lcp_allowoptions[0].neg_asyncmap = 0;
    lcp_wantoptions[0].neg_pcompression = 0;
}
info("PPPoATM setdevname_pppoatm - SUCCESS:%s", cp);
device_got_set = 1;
return 1;
}

```

```

#define pppoatm_overhead() (llc_encaps ? 6 : 2)

```

```

static void no_device_given_pppoatm(void)
{
    fatal("No vpi.vci specified");
}

```

```

static void set_line_discipline_pppoatm(int fd)
{
    struct atm_backend_ppp be;
    be.backend_num = ATM_BACKEND_PPP;
    if (!llc_encaps)
        be.encaps = PPPOATM_ENCAPS_VC;
    else if (!vc_encaps)
        be.encaps = PPPOATM_ENCAPS_LLC;
    else
        be.encaps = PPPOATM_ENCAPS_AUTODETECT;
    if (ioctl(fd, ATM_SETBACKEND, &be) < 0)
        fatal("ioctl(ATM_SETBACKEND): %m");
}

```

```

#if 0
static void reset_line_discipline_pppoatm(int fd)
{

```

```

atm_backend_t be = ATM_BACKEND_RAW;
/* 2.4 doesn't support this yet */
(void) ioctl(fd, ATM_SETBACKEND, &be);
}
#endif

static int connect_pppoatm(void)
{
int fd;
struct atm_qos qos;

/* XXX: This won't work on Android */
system ("/sbin/modprobe pppoatm");

if (!device_got_set)
no_device_given_pppoatm();
fd = socket(AF_ATMPVC, SOCK_DGRAM, 0);
if (fd < 0)
fatal("failed to create socket: %m");
memset(&qos, 0, sizeof qos);
qos.txtp.traffic_class = qos.rtxp.traffic_class = ATM_UBR;
/* TODO: support simplified QoS setting */
if (qosstr != NULL)
if (text2qos(qosstr, &qos, 0))
fatal("Can't parse QoS: \"%s\"", qosstr);
qos.txtp.max_sdu = lcp_allowoptions[0].mru + pppoatm_overhead();
qos.rtxp.max_sdu = lcp_wantoptions[0].mru + pppoatm_overhead();
qos.aal = ATM_AAL5;
if (setsockopt(fd, SOL_ATM, SO_ATMQOS, &qos, sizeof(qos)) < 0)
fatal("setsockopt(SO_ATMQOS): %m");
/* TODO: accept on SVCs... */
if (connect(fd, (struct sockaddr *) &pvcaddr,
sizeof(struct sockaddr_atmpvc)))
fatal("connect(%s): %m", devnam);
pppoatm_max_mtu = lcp_allowoptions[0].mru;
pppoatm_max_mru = lcp_wantoptions[0].mru;
set_line_discipline_pppoatm(fd);
strncpy(ppp_devnam, devnam, sizeof(ppp_devnam));
pppoa_fd = fd;
return fd;
}

static void disconnect_pppoatm(void)
{
close(pppoa_fd);
}

static void send_config_pppoa(int mtu,

```

```

        u_int32_t asyncmap,
        int pcomp,
        int accomp)
{
    int sock;
    struct ifreq ifr;
    if (mtu > pppoatm_max_mtu)
        error("Couldn't increase MTU to %d", mtu);
    sock = socket(AF_INET, SOCK_DGRAM, 0);
    if (sock < 0)
        fatal("Couldn't create IP socket: %m");
    strncpy(ifr.ifr_name, ifname, sizeof(ifr.ifr_name));
    ifr.ifr_mtu = mtu;
    if (ioctl(sock, SIOCSIFMTU, (caddr_t) &ifr) < 0)
        fatal("ioctl(SIOCSIFMTU): %m");
    (void) close (sock);
}

static void recv_config_pppoa(int mru,
        u_int32_t asyncmap,
        int pcomp,
        int accomp)
{
    if (mru > pppoatm_max_mru)
        error("Couldn't increase MRU to %d", mru);
}

void plugin_init(void)
{
    #if defined(__linux__)
    extern int new_style_driver; /* From sys-linux.c */
    if (!ppp_available() && !new_style_driver)
        fatal("Kernel doesn't support ppp_generic - "
            "needed for PPPoATM");
    #else
    fatal("No PPPoATM support on this OS");
    #endif
    info("PPPoATM plugin_init");
    add_options(pppoa_options);
}

struct channel pppoa_channel = {
    options: pppoa_options,
    process_extra_options: NULL,
    check_options: NULL,
    connect: &connect_pppoatm,
    disconnect: &disconnect_pppoatm,
    establish_ppp: &generic_establish_ppp,
    disestablish_ppp: &generic_disestablish_ppp,

```

```
send_config: &send_config_pppoa,  
recv_config: &recv_config_pppoa,  
close: NULL,  
cleanup: NULL  
};
```

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1.178 safe-iop 0.3.1 :ICS

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1.179 sfdisk 1.0 :ICS

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```
/*  
* canonicalize.c -- canonicalize pathname by removing symlinks  
* Copyright (C) 1993 Rick Sladkey <jrs@world.std.com>  
*  
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*  
*/
```

```
/*  
* This routine is part of libc. We include it nevertheless,  
* since the libc version has some security flaws.  
*  
* TODO: use canonicalize_file_name() when exist in glibc  
*/
```

```
#include <stdio.h>  
#include <string.h>  
#include <ctype.h>  
#include <unistd.h>  
#include <errno.h>  
#include <stdlib.h>
```

```
#include "canonicalize.h"
```

```
#ifndef MAXSYMLINKS  
# define MAXSYMLINKS 256  
#endif
```

```
static char *  
myrealpath(const char *path, char *resolved_path, int maxreslth) {  
    int readlinks = 0;  
    char *npath;  
    char link_path[PATH_MAX+1];
```

```

int n;
char *buf = NULL;

npath = resolved_path;

/* If it's a relative pathname use getcwd for starters. */
if (*path != '/') {
    if (!getcwd(npath, maxreslth-2))
        return NULL;
    npath += strlen(npath);
    if (npath[-1] != '/')
        *npath++ = '/';
} else {
    *npath++ = '/';
    path++;
}

/* Expand each slash-separated pathname component. */
while (*path != '\0') {
    /* Ignore stray "/" */
    if (*path == '/') {
        path++;
        continue;
    }
    if (*path == '.' && (path[1] == '\0' || path[1] == '/')) {
        /* Ignore "." */
        path++;
        continue;
    }
    if (*path == '.' && path[1] == '.' &&
        (path[2] == '\0' || path[2] == '/')) {
        /* Backup for ".." */
        path += 2;
        while (npath > resolved_path+1 &&
            (--npath)[-1] != '/')
            ;
        continue;
    }
    /* Safely copy the next pathname component. */
    while (*path != '\0' && *path != '/') {
        if (npath-resolved_path > maxreslth-2) {
            errno = ENAMETOOLONG;
            goto err;
        }
        *npath++ = *path++;
    }

    /* Protect against infinite loops. */

```

```

if (readlinks++ > MAXSYMLINKS) {
    errno = ELOOP;
    goto err;
}

/* See if last pathname component is a symlink. */
*npath = '\0';
n = readlink(resolved_path, link_path, PATH_MAX);
if (n < 0) {
    /* EINVAL means the file exists but isn't a symlink. */
    if (errno != EINVAL)
        goto err;
} else {
    int m;
    char *newbuf;

    /* Note: readlink doesn't add the null byte. */
    link_path[n] = '\0';
    if (*link_path == '/')
        /* Start over for an absolute symlink. */
        npath = resolved_path;
    else
        /* Otherwise back up over this component. */
        while (*--npath != '/')
            ;

    /* Insert symlink contents into path. */
    m = strlen(path);
    newbuf = malloc(m + n + 1);
    if (!newbuf)
        goto err;
    memcpy(newbuf, link_path, n);
    memcpy(newbuf + n, path, m + 1);
    free(buf);
    path = buf = newbuf;
}
*npath++ = '/';
}

/* Delete trailing slash but don't whomp a lone slash. */
if (npath != resolved_path+1 && npath[-1] == '/')
    npath--;
/* Make sure it's null terminated. */
*npath = '\0';

free(buf);
return resolved_path;

err:

```

```

free(buf);
return NULL;
}

/*
 * Converts private "dm-N" names to "/dev/mapper/<name>"
 *
 * Since 2.6.29 (patch 784aae735d9b0bba3f8b9faef4c8b30df3bf0128) kernel sysfs
 * provides the real DM device names in /sys/block/<ptname>/dm/name
 */
char *
canonicalize_dm_name(const char *ptname)
{
    FILE *f;
    size_t sz;
    char path[256], name[256], *res = NULL;

    snprintf(path, sizeof(path), "/sys/block/%s/dm/name", ptname);
    if (!(f = fopen(path, "r")))
        return NULL;

    /* read "<name>\n" from sysfs */
    if (fgets(name, sizeof(name), f) && (sz = strlen(name)) > 1) {
        name[sz - 1] = '\0';
        snprintf(path, sizeof(path), "/dev/mapper/%s", name);
        res = strdup(path);
    }
    fclose(f);
    return res;
}

char *
canonicalize_path(const char *path)
{
    char canonical[PATH_MAX+2];
    char *p;

    if (path == NULL)
        return NULL;

    if (!myrealpath(path, canonical, PATH_MAX+1))
        return strdup(path);

    p = strrchr(canonical, '/');
    if (p && strncmp(p, "/dm-", 4) == 0 && isdigit(*(p + 4))) {
        p = canonicalize_dm_name(p+1);
        if (p)

```

```

    return p;
}

return strdup(canonical);
}

#ifdef TEST_PROGRAM_CANONICALIZE
int main(int argc, char **argv)
{
    if (argc < 2) {
        fprintf(stderr, "usage: %s <device>\n", argv[0]);
        exit(EXIT_FAILURE);
    }

    fprintf(stdout, "orig: %s\n", argv[1]);
    fprintf(stdout, "real: %s\n", canonicalize_path(argv[1]));

    exit(EXIT_SUCCESS);
}
#endif
/*
 * sfdisk version 3.0 - aeb - 950813
 *
 * Copyright (C) 1995 Andries E. Brouwer (aeb@cwil.nl)
 *
 * This program is free software. You can redistribute it and/or
 * modify it under the terms of the GNU General Public License
 * as published by the Free Software Foundation: either Version 1
 * or (at your option) any later version.
 *
 * A.V. Le Blanc (LeBlanc@mcc.ac.uk) wrote Linux fdisk 1992-1994,
 * patched by various people (faith@cs.unc.edu, martin@cs.unc.edu,
 * leisner@sdsp.mc.xerox.com, esr@snark.thyrsus.com, aeb@cwil.nl)
 * 1993-1995, with version numbers (as far as I have seen) 0.93 - 2.0e.
 * This program had (head,sector,cylinder) as basic unit, and was
 * (therefore) broken in several ways for the use on larger disks -
 * for example, my last patch (from 2.0d to 2.0e) was required
 * to allow a partition to cross cylinder 8064, and to write an
 * extended partition past the 4GB mark.
 *
 * The current program is a rewrite from scratch, and I started a
 * version numbering at 3.0.
 * Andries Brouwer, aeb@cwil.nl, 950813
 *
 * Well, a good user interface is still lacking. On the other hand,
 * many configurations cannot be handled by any other fdisk.
 * I changed the name to sfdisk to prevent confusion. - aeb, 970501

```

```

*/

#define PROGMAME "sfdisk"
#define PACKAGE_STRING "util-linux 2.21"

#include <stdio.h>
#include <stdlib.h> /* atoi, free */
#include <stdarg.h> /* varargs */
#include <unistd.h> /* read, write */
#include <fcntl.h> /* O_RDWR */
#include <errno.h> /* ERANGE */
#include <string.h> /* strchr(), strrchr() */
#include <ctype.h>
#include <getopt.h>
#include <sys/ioctl.h>
#include <sys/stat.h>
#include <sys/utsname.h>
#include <limits.h>

#include "c.h"
#include "nls.h"
#include "xalloc.h"
#include "blkdev.h"
#include "linux_version.h"
#include "common.h"
#include "wholedisk.h"
#include "gpt.h"
#include "pathnames.h"
#include "canonicalize.h"

/*
* Table of contents:
* A. About seeking
* B. About sectors
* C. About heads, sectors and cylinders
* D. About system Ids
* E. About partitions
* F. The standard input
* G. The command line
* H. Listing the current situation
* I. Writing the new situation
*/
int exit_status = 0;

int force = 0; /* 1: do what I say, even if it is stupid ... */
int quiet = 0; /* 1: suppress all warnings */
/* IA-64 gcc spec file currently does -DLinux... */
#undef Linux

```

```

int Linux = 0; /* 1: suppress warnings irrelevant for Linux */
int DOS = 0; /* 1: shift extended partitions by #sectors, not 1 */
int DOS_extended = 0; /* 1: use starting cylinder boundary of extd partn */
int dump = 0; /* 1: list in a format suitable for later input */
int verify = 0; /* 1: check that listed partition is reasonable */
int no_write = 0; /* 1: do not actually write to disk */
int no_reread = 0; /* 1: skip the BLKRRPART ioctl test at startup */
int leave_last = 0; /* 1: don't allocate the last cylinder */
int opt_list = 0;
char *save_sector_file = NULL;
char *restore_sector_file = NULL;

```

```

static void
my_warn(char *s, ...) {
    va_list p;

    va_start(p, s);
    if (!quiet) {
        fflush(stdout);
        vfprintf(stderr, s, p);
        fflush(stderr);
    }
    va_end(p);
}

```

```

static void
error(char *s, ...) {
    va_list p;

    va_start(p, s);
    fflush(stdout);
    fprintf(stderr, "\n" PROGRAMNAME ": ");
    vfprintf(stderr, s, p);
    fflush(stderr);
    va_end(p);
}

```

```

/*
 * A. About seeking
 */

/*
 * sseek: seek to specified sector - return 0 on failure
 *
 * Note: we use 512-byte sectors here, irrespective of the hardware ss.
 */

```

```

static int

```



```

sseek(char *dev, int fd, unsigned long s) {
    off64_t in, out;
    in = ((off64_t) s << 9);

    if ((out = lseek64(fd, in, SEEK_SET)) != in) {
        perror("lseek");
        error(_("seek error on %s - cannot seek to %lu\n"), dev, s);
        return 0;
    }

    if (in != out) {
        error(_("seek error: wanted 0x%08x%08x, got 0x%08x%08x\n"),
            (unsigned int)(in >> 32), (unsigned int)(in & 0xffffffff),
            (unsigned int)(out >> 32), (unsigned int)(out & 0xffffffff));
        return 0;
    }
    return 1;
}

/*
 * B. About sectors
 */

/*
 * We preserve all sectors read in a chain - some of these will
 * have to be modified and written back.
 */
struct sector {
    struct sector *next;
    unsigned long long sectornumber;
    int to_be_written;
    char data[512];
} *sectorhead;

static void
free_sectors(void) {
    struct sector *s;

    while (sectorhead) {
        s = sectorhead;
        sectorhead = s->next;
        free(s);
    }
}

static struct sector *
get_sector(char *dev, int fd, unsigned long long sno) {
    struct sector *s;

```

```

    for (s = sectorhead; s; s = s->next)
if (s->sectornumber == sno)
    return s;

    if (!sseek(dev, fd, sno))
return 0;

    s = xmalloc(sizeof(struct sector));

    if (read(fd, s->data, sizeof(s->data)) != sizeof(s->data)) {
if (errno) /* 0 in case we read past end-of-disk */
    perror("read");
error(_("read error on %s - cannot read sector %lu\n"), dev, sno);
free(s);
return 0;
    }

    s->next = sectorhead;
sectorhead = s;
s->sectornumber = sno;
s->to_be_written = 0;

    return s;
}

static int
msdos_signature(struct sector *s) {
    unsigned char *data = (unsigned char *)s->data;
    if (data[510] == 0x55 && data[511] == 0xaa)
return 1;
    error(_("ERROR: sector %lu does not have an msdos signature\n"),
s->sectornumber);
    return 0;
}

static int
write_sectors(char *dev, int fd) {
    struct sector *s;

    for (s = sectorhead; s; s = s->next)
if (s->to_be_written) {
        if (!sseek(dev, fd, s->sectornumber))
return 0;
        if (write(fd, s->data, sizeof(s->data)) != sizeof(s->data)) {
perror("write");
error(_("write error on %s - cannot write sector %lu\n"),
dev, s->sectornumber);

```

```

return 0;
}
s->to_be_written = 0;
}
return 1;
}

static void
ulong_to_chars(unsigned long u, char *uu) {
    int i;

    for (i = 0; i < 4; i++) {
        uu[i] = (u & 0xff);
        u >>= 8;
    }
}

static unsigned long
chars_to_ulong(unsigned char *uu) {
    int i;
    unsigned long u = 0;

    for (i = 3; i >= 0; i--)
        u = (u << 8) | uu[i];
    return u;
}

static int
save_sectors(char *dev, int fdin) {
    struct sector *s;
    char ss[516];
    int fdout = -1;

    fdout = open(save_sector_file, O_WRONLY | O_CREAT, 0444);
    if (fdout < 0) {
        perror(save_sector_file);
        error_(_("cannot open partition sector save file (%s)\n"),
            save_sector_file);
        goto err;
    }

    for (s = sectorhead; s; s = s->next)
        if (s->to_be_written) {
            ulong_to_chars(s->sectornumber, ss);
            if (!sseek(dev, fdin, s->sectornumber))
                goto err;
            if (read(fdin, ss + 4, 512) != 512) {
                perror("read");
            }
        }
}

```

```

error(_("read error on %s - cannot read sector %lu\n"),
      dev, s->sectornumber);
goto err;
}
if (write(fdout, ss, sizeof(ss)) != sizeof(ss)) {
perror("write");
error(_("write error on %s\n"), save_sector_file);
goto err;
}
}

close(fdout);
return 1;

err:
if (fdout >= 0)
close(fdout);
return 0;
}

static int reread_disk_partition(char *dev, int fd);

static int
restore_sectors(char *dev) {
int fdin = -1, fdout = -1;
int ct;
struct stat statbuf;
char *ss0 = NULL, *ss;
unsigned long sno;

if (stat(restore_sector_file, &statbuf) < 0) {
perror(restore_sector_file);
error(_("cannot stat partition restore file (%s)\n"),
      restore_sector_file);
goto err;
}
if (statbuf.st_size % 516) {
error(_("partition restore file has wrong size - not restoring\n"));
goto err;
}
if (!(ss0 = (char *)malloc(statbuf.st_size))) {
error(_("out of memory?\n"));
goto err;
}
ss = ss0;

fdin = open(restore_sector_file, O_RDONLY);
if (fdin < 0) {

```

```

perror(restore_sector_file);
error(_("cannot open partition restore file (%s)\n"),
    restore_sector_file);
goto err;
}
if (read(fdin, ss, statbuf.st_size) != statbuf.st_size) {
perror("read");
error(_("error reading %s\n"), restore_sector_file);
goto err;
}

fdout = open(dev, O_WRONLY);
if (fdout < 0) {
perror(dev);
error(_("cannot open device %s for writing\n"), dev);
goto err;
}

ct = statbuf.st_size / 516;
while (ct--) {
sno = chars_to_ulong((unsigned char *)ss);
if (!seek(dev, fdout, sno))
    goto err;
if (write(fdout, ss + 4, 512) != 512) {
    perror(dev);
    error(_("error writing sector %lu on %s\n"), sno, dev);
    goto err;
}
ss += 516;
}
free(ss0);
ss0 = NULL;

if (!reread_disk_partition(dev, fdout)) /* closes fdout */
goto err;
close(fdin);

return 1;

err:
free(ss0);
if (fdin >= 0)
close(fdin);
if (fdout >= 0)
close(fdout);

return 0;
}

```

```

/*
 * C. About heads, sectors and cylinders
 */

/*
 * <linux/hdreg.h> defines HDIO_GETGEO and
 * struct hd_geometry {
 *     unsigned char heads;
 *     unsigned char sectors;
 *     unsigned short cylinders;
 *     unsigned long start;
 * };
 *
 * For large disks g.cylinders is truncated, so we use BLKGETSIZE.
 */

/*
 * We consider several geometries for a disk:
 * B - the BIOS geometry, gotten from the kernel via HDIO_GETGEO
 * F - the fdisk geometry
 * U - the user-specified geometry
 *
 * 0 means unspecified / unknown
 */
struct geometry {
    unsigned long long total_size; /* in sectors */
    unsigned long cylindersize; /* in sectors */
    unsigned long heads, sectors, cylinders;
    unsigned long start;
} B, F, U;

static struct geometry
get_geometry(char *dev, int fd, int silent) {
    struct hd_geometry g;
    unsigned long cyls;
    unsigned long long sectors;
    struct geometry R;

#ifdef HDIO_GETGEO
    if (ioctl(fd, HDIO_GETGEO, &g))
#endif
    {
        g.heads = g.sectors = g.cylinders = g.start = 0;
        if (!silent)
            warnx(_("Disk %s: cannot get geometry\n"), dev);
    }
}

```

```

R.start = g.start;
R.heads = g.heads;
R.sectors = g.sectors;
R.cylindersize = R.heads * R.sectors;
R.cylinders = 0;
R.total_size = 0;

if (blkdev_get_sectors(fd, &sectors) == -1) {
/* maybe an ordinary file */
struct stat s;

if (fstat(fd, &s) == 0 && S_ISREG(s.st_mode))
    R.total_size = (s.st_size >> 9);
else if (!silent)
    warnx(_("Disk %s: cannot get size\n"), dev);
    } else
R.total_size = sectors;

    if (R.cylindersize && R.total_size) {
sectors /= R.cylindersize;
cyls = sectors;
if (cyls != sectors)
    cyls = ~0;
R.cylinders = cyls;
    }

return R;
}

static void
get_cylindersize(char *dev, int fd, int silent) {
    struct geometry R;

    R = get_geometry(dev, fd, silent);

    B.heads = (U.heads ? U.heads : R.heads ? R.heads : 255);
    B.sectors = (U.sectors ? U.sectors : R.sectors ? R.sectors : 63);
    B.cylinders = (U.cylinders ? U.cylinders : R.cylinders);

    B.cylindersize = B.heads * B.sectors;
    B.total_size = R.total_size;

    if (B.cylinders == 0 && B.cylindersize != 0)
B.cylinders = B.total_size / B.cylindersize;

    if (R.start && !force) {
my_warn(_("Warning: start=%lu - this looks like a partition rather than\n"
    "the entire disk. Using fdisk on it is probably meaningless.\n")

```

```

    "[Use the --force option if you really want this]\n"),
    R.start);
exit(1);
}
#endif

    if (R.heads && B.heads != R.heads)
my_warn_("Warning: HDIO_GETGEO says that there are %lu heads\n"),
    R.heads);
    if (R.sectors && B.sectors != R.sectors)
my_warn_("Warning: HDIO_GETGEO says that there are %lu sectors\n"),
    R.sectors);
    if (R.cylinders && B.cylinders != R.cylinders
&& B.cylinders < 65536 && R.cylinders < 65536)
my_warn_("Warning: BLKGETSIZE/HDIO_GETGEO says that there are %lu cylinders\n"),
    R.cylinders);
#endif

    if (B.sectors > 63)
my_warn_("Warning: unlikely number of sectors (%lu) - usually at most 63\n"
    "This will give problems with all software that uses C/H/S addressing.\n"),
    B.sectors);
    if (!silent)
printf(_("\nDisk %s: %lu cylinders, %lu heads, %lu sectors/track\n"),
    dev, B.cylinders, B.heads, B.sectors);
}

typedef struct {
    unsigned char h, s, c;
} __attribute__((packed)) chs; /* has some c bits in s */
chs zero_chs = { 0, 0, 0 };

typedef struct {
    unsigned long h, s, c;
} longchs;
longchs zero_longchs;

static chs
longchs_to_chs(longchs aa, struct geometry G) {
    chs a;

    if (aa.h < 256 && aa.s < 64 && aa.c < 1024) {
        a.h = aa.h;
        a.s = aa.s | ((aa.c >> 2) & 0xc0);
        a.c = (aa.c & 0xff);
    } else if (G.heads && G.sectors) {
        a.h = G.heads - 1;
        a.s = G.sectors | 0xc0;
        a.c = 0xff;
    }
}

```



```

    } else
a = zero_chs;
    return a;
}

static longchs
chs_to_longchs(chs a) {
    longchs aa;

    aa.h = a.h;
    aa.s = (a.s & 0x3f);
    aa.c = (a.s & 0xc0);
    aa.c = (aa.c << 2) + a.c;
    return aa;
}

static longchs
ulong_to_longchs(unsigned long sno, struct geometry G) {
    longchs aa;

    if (G.heads && G.sectors && G.cylindersize) {
        aa.s = 1 + sno % G.sectors;
        aa.h = (sno / G.sectors) % G.heads;
        aa.c = sno / G.cylindersize;
        return aa;
    } else {
        return zero_longchs;
    }
}

static chs
ulong_to_chs(unsigned long sno, struct geometry G) {
    return longchs_to_chs(ulong_to_longchs(sno, G), G);
}

#if 0
static unsigned long
longchs_to_ulong(longchs aa, struct geometry G) {
    return (aa.c * G.cylindersize + aa.h * G.sectors + aa.s - 1);
}

static unsigned long
chs_to_ulong(chs a, struct geometry G) {
    return longchs_to_ulong(chs_to_longchs(a), G);
}
#endif

static int

```

```

is_equal_chs(chs a, chs b) {
    return (a.h == b.h && a.s == b.s && a.c == b.c);
}

static int
chs_ok(chs a, char *v, char *w) {
    longchs aa = chs_to_longchs(a);
    int ret = 1;

    if (is_equal_chs(a, zero_chs))
        return 1;
    if (B.heads && aa.h >= B.heads) {
        my_warn_(_("%s of partition %s has impossible value for head: "
            "%lu (should be in 0-%lu)\n"), w, v, aa.h, B.heads - 1);
        ret = 0;
    }
    if (B.sectors && (aa.s == 0 || aa.s > B.sectors)) {
        my_warn_(_("%s of partition %s has impossible value for sector: "
            "%lu (should be in 1-%lu)\n"), w, v, aa.s, B.sectors);
        ret = 0;
    }
    if (B.cylinders && aa.c >= B.cylinders) {
        my_warn_(_("%s of partition %s has impossible value for cylinders: "
            "%lu (should be in 0-%lu)\n"), w, v, aa.c, B.cylinders - 1);
        ret = 0;
    }
    return ret;
}

/*
 * D. About system Ids
 */

#define EMPTY_PARTITION 0
#define EXTENDED_PARTITION 5
#define WIN98_EXTENDED 0x0f
#define DM6_AUX1PARTITION 0x51
#define DM6_AUX3PARTITION 0x53
#define DM6_PARTITION 0x54
#define EZD_PARTITION 0x55
#define LINUX_SWAP 0x82
#define LINUX_NATIVE 0x83
#define LINUX_EXTENDED 0x85
#define BSD_PARTITION 0xa5
#define NETBSD_PARTITION 0xa9

/* List of partition types now in i386_sys_types.c */

```

```

static const char *
sysname(unsigned char type) {
    struct systypes *s;

    for (s = i386_sys_types; s->name; s++)
        if (s->type == type)
            return _(s->name);
    return _("Unknown");
}

static void
list_types(void) {
    struct systypes *s;

    printf(_("Id Name\n\n"));
    for (s = i386_sys_types; s->name; s++)
        printf("%2x %s\n", s->type, _(s->name));
}

static int
is_extended(unsigned char type) {
    return (type == EXTENDED_PARTITION
        || type == LINUX_EXTENDED || type == WIN98_EXTENDED);
}

static int
is_bsd(unsigned char type) {
    return (type == BSD_PARTITION || type == NETBSD_PARTITION);
}

/*
 * E. About partitions
 */

/* MS/DOS partition */

struct partition {
    unsigned char bootable; /* 0 or 0x80 */
    chs begin_chs;
    unsigned char sys_type;
    chs end_chs;
    unsigned int start_sect; /* starting sector counting from 0 */
    unsigned int nr_sects; /* nr of sectors in partition */
} __attribute__((packed));

/* Unfortunately, partitions are not aligned, and non-Intel machines
   are unhappy with non-aligned integers. So, we need a copy by hand. */
static int

```

```

copy_to_int(unsigned char *cp) {
    unsigned int m;

    m = *cp++;
    m += (*cp++ << 8);
    m += (*cp++ << 16);
    m += (*cp++ << 24);
    return m;
}

```

```

static void
copy_from_int(int m, char *cp) {
    *cp++ = (m & 0xff);
    m >>= 8;
    *cp++ = (m & 0xff);
    m >>= 8;
    *cp++ = (m & 0xff);
    m >>= 8;
    *cp++ = (m & 0xff);
}

```

```

static void
copy_to_part(char *cp, struct partition *p) {
    p->bootable = *cp++;
    p->begin_chs.h = *cp++;
    p->begin_chs.s = *cp++;
    p->begin_chs.c = *cp++;
    p->sys_type = *cp++;
    p->end_chs.h = *cp++;
    p->end_chs.s = *cp++;
    p->end_chs.c = *cp++;
    p->start_sect = copy_to_int((unsigned char *)cp);
    p->nr_sects = copy_to_int((unsigned char *)cp + 4);
}

```

```

static void
copy_from_part(struct partition *p, char *cp) {
    *cp++ = p->bootable;
    *cp++ = p->begin_chs.h;
    *cp++ = p->begin_chs.s;
    *cp++ = p->begin_chs.c;
    *cp++ = p->sys_type;
    *cp++ = p->end_chs.h;
    *cp++ = p->end_chs.s;
    *cp++ = p->end_chs.c;
    copy_from_int(p->start_sect, cp);
    copy_from_int(p->nr_sects, cp + 4);
}

```

```

/* Roughly speaking, Linux doesn't use any of the above fields except
for partition type, start sector and number of sectors. (However,
see also linux/drivers/scsi/fdomain.c.)
The only way partition type is used (in the kernel) is the comparison
for equality with EXTENDED_PARTITION (and these Disk Manager types). */

```

```

struct part_desc {
    unsigned long long start;
    unsigned long long size;
    unsigned long long sector, offset; /* disk location of this info */
    struct partition p;
    struct part_desc *ep; /* extended partition containing this one */
    int ptype;
#define DOS_TYPE 0
#define BSD_TYPE 1
} zero_part_desc;

```

```

static struct part_desc *
outer_extended_partition(struct part_desc *p) {
    while (p->ep)
        p = p->ep;
    return p;
}

```

```

static int
is_parent(struct part_desc *pp, struct part_desc *p) {
    while (p) {
        if (pp == p)
            return 1;
        p = p->ep;
    }
    return 0;
}

```

```

struct disk_desc {
    struct part_desc partitions[512];
    int partno;
} oldp, newp;

```

```

/* determine where on the disk this information goes */

```

```

static void
add_sector_and_offset(struct disk_desc *z) {
    int pno;
    struct part_desc *p;

    for (pno = 0; pno < z->partno; pno++) {
        p = &(z->partitions[pno]);

```

```

p->offset = 0x1be + (pno % 4) * sizeof(struct partition);
p->sector = (p->ep ? p->ep->start : 0);
}
}

/* tell the kernel to reread the partition tables */
static int
reread_ioctl(int fd) {
#ifdef BLKRRPART
    if (ioctl(fd, BLKRRPART))
#else
    errno = ENOSYS;
#endif
}

/* perror might change errno */
int err = errno;

perror("BLKRRPART");

/* 2.6.8 returns EIO for a zero table */
if (err == EBUSY)
    return -1;
}
return 0;
}

/* reread after writing */
static int
reread_disk_partition(char *dev, int fd) {
    printf(_("Re-reading the partition table ... \n"));
    fflush(stdout);
    sync();

    if (reread_ioctl(fd) && is_blkdev(fd)) {
warnx(_("The command to re-read the partition table failed.\n"
"Run partprobe(8), kpartx(8) or reboot your system now,\n"
"before using mkfs\n"));
return 0;
}

    if (fsync(fd) || close(fd)) {
perror(dev);
warnx(_("Error closing %s\n"), dev);
return 0;
}
    printf("\n");

    return 1;
}

```

```

}

/* find Linux name of this partition, assuming that it will have a name */
static int
linux_to_linux(int pno, struct disk_desc *z) {
    int i, ct = 1;
    struct part_desc *p = &(z->partitions[0]);
    for (i = 0; i < pno; i++, p++)
    if (i < 4 || (p->size > 0 && !is_extended(p->p.sys_type)))
        ct++;
    return ct;
}

static int
linux_to_index(int lpno, struct disk_desc *z) {
    int i, ct = 0;
    struct part_desc *p = &(z->partitions[0]);
    for (i = 0; i < z->partno && ct < lpno; i++, p++)
    if ((i < 4 || (p->size > 0 && !is_extended(p->p.sys_type)))
        && ++ct == lpno)
        return i;
    return -1;
}

static int
asc_to_index(char *pnam, struct disk_desc *z) {
    int pnum, pno;

    if (*pnam == '#') {
        pno = atoi(pnam + 1);
    } else {
        pnum = atoi(pnam);
        pno = linux_to_index(pnum, z);
    }
    if (!(pno >= 0 && pno < z->partno))
        errx(EXIT_FAILURE, _("%s: no such partition\n"), pnam);
    return pno;
}

/*
* List partitions - in terms of sectors, blocks or cylinders
*/
#define F_SECTOR 1
#define F_BLOCK 2
#define F_CYLINDER 3
#define F_MEGABYTE 4

int default_format = F_MEGABYTE;

```

```

int specified_format = 0;
int show_extended = 0;
int one_only = 0;
int one_only_pno;
int increment = 0;

static void
set_format(char c) {
    switch (c) {
        default:
            warnx(_("unrecognized format - using sectors\n"));
            /* fallthrough */
            case 'S':
                specified_format = F_SECTOR;
                break;
            case 'B':
                specified_format = F_BLOCK;
                break;
            case 'C':
                specified_format = F_CYLINDER;
                break;
            case 'M':
                specified_format = F_MEGABYTE;
                break;
        }
    }

static unsigned long
unitsize(int format) {
    default_format = (B.cylindersize ? F_CYLINDER : F_MEGABYTE);
    if (!format && !(format = specified_format))
        format = default_format;

    switch (format) {
        default:
            case F_CYLINDER:
                if (B.cylindersize)
                    return B.cylindersize;
                case F_SECTOR:
                return 1;
            case F_BLOCK:
                return 2;
            case F_MEGABYTE:
                return 2048;
        }
    }

static unsigned long long

```



```

get_disksize(int format) {
    if (B.total_size && leave_last)
/* don't use last cylinder (--leave-last option) */
return (B.total_size - B.cylindersize) / unitsize(format);

    return B.total_size / unitsize(format);
}

static void
out_partition_header(char *dev, int format, struct geometry G) {
    if (dump) {
printf("# partition table of %s\n", dev);
printf("unit: sectors\n\n");
return;
    }

    default_format = (G.cylindersize ? F_CYLINDER : F_MEGABYTE);
    if (!format && !(format = specified_format))
format = default_format;

    switch (format) {
    default:
warnx(_("unimplemented format - using %s\n"),
G.cylindersize ? _("cylinders") : _("sectors"));
    case F_CYLINDER:
if (G.cylindersize) {
    printf(_("Units = cylinders of %lu bytes, blocks of 1024 bytes"
        ", counting from %d\n\n"), G.cylindersize << 9, increment);
    printf(_(" Device Boot Start End #cyls #blocks Id System\n\n"));
    break;
}
/* fall through */
    case F_SECTOR:
printf(_("Units = sectors of 512 bytes, counting from %d\n\n"),
    increment);
printf(_(" Device Boot Start End #sectors Id System\n\n"));
break;
    case F_BLOCK:
printf(_("Units = blocks of 1024 bytes, counting from %d\n\n"),
    increment);
printf(_(" Device Boot Start End #blocks Id System\n\n"));
break;
    case F_MEGABYTE:
printf(_("Units = mebibytes of 1048576 bytes, blocks of 1024 bytes"
        ", counting from %d\n\n"), increment);
printf(_(" Device Boot Start End MiB #blocks Id System\n\n"));
break;
    }
}

```

```

}

static void
out_rounddown(int width, unsigned long long n, unsigned long unit, int inc) {
    printf("%*llu", width, inc + n / unit);
    if (unit != 1)
        putchar((n % unit) ? '+' : ' ');
    putchar(' ');
}

```

```

static void
out_roundup(int width, unsigned long long n, unsigned long unit, int inc) {
    if (n == (unsigned long long)(-1))
        printf("%*s", width, "-");
    else
        printf("%*llu", width, inc + n / unit);
    if (unit != 1)
        putchar(((n + 1) % unit) ? '-' : ' ');
    putchar(' ');
}

```

```

static void
out_roundup_size(int width, unsigned long long n, unsigned long unit) {
    printf("%*llu", width, (n + unit - 1) / unit);
    if (unit != 1)
        putchar((n % unit) ? '-' : ' ');
    putchar(' ');
}

```

```

static struct geometry
get_fdisk_geometry_one(struct part_desc *p) {
    struct geometry G;

    memset(&G, 0, sizeof(struct geometry));
    chs b = p->p.end_chs;
    longchs bb = chs_to_longchs(b);
    G.heads = bb.h + 1;
    G.sectors = bb.s;
    G.cylindersize = G.heads * G.sectors;
    return G;
}

```

```

static int
get_fdisk_geometry(struct disk_desc *z) {
    struct part_desc *p;
    int pno, agree;
    struct geometry G0, G;
}

```

```

memset(&G0, 0, sizeof(struct geometry));
agree = 0;
for (pno = 0; pno < z->partno; pno++) {
p = &(z->partitions[pno]);
if (p->size != 0 && p->p.sys_type != 0) {
    G = get_fdisk_geometry_one(p);
    if (!G0.heads) {
G0 = G;
agree = 1;
    } else if (G.heads != G0.heads || G.sectors != G0.sectors) {
agree = 0;
break;
    }
}
}
F = (agree ? G0 : B);
return (F.sectors != B.sectors || F.heads != B.heads);
}

static void
out_partition(char *dev, int format, struct part_desc *p,
    struct disk_desc *z, struct geometry G) {
    unsigned long long start, end, size;
    int pno, lpno;

    if (!format && !(format = specified_format))
format = default_format;

    pno = p - &(z->partitions[0]); /* our index */
    lpno = index_to_linux(pno, z); /* name of next one that has a name */
    if (pno == linux_to_index(lpno, z)) /* was that us? */
printf("%s", partname(dev, lpno, 10)); /* yes */
    else if (show_extended)
printf(" - ");
    else
return;
    putchar(dump ? ':' : ' ');

    start = p->start;
    end = p->start + p->size - 1;
    size = p->size;

    if (dump) {
printf(" start=%9llu", start);
printf(", size=%9llu", size);
if (p->p.type == DOS_TYPE) {
    printf(", Id=%2x", p->p.sys_type);
    if (p->p.bootable == 0x80)

```

```

printf(", bootable");
}
printf("\n");
return;
}

if (p->ptype != DOS_TYPE || p->p.bootable == 0)
printf(" ");
else if (p->p.bootable == 0x80)
printf(" * ");
else
printf(" ? "); /* garbage */

switch (format) {
case F_CYLINDER:
if (G.cylindersize) {
out_rounddown(6, start, G.cylindersize, increment);
out_roundup(6, end, G.cylindersize, increment);
out_roundup_size(6, size, G.cylindersize);
out_rounddown(9, size, 2, 0);
break;
}
/* fall through */
default:
case F_SECTOR:
out_rounddown(9, start, 1, increment);
out_roundup(9, end, 1, increment);
out_rounddown(10, size, 1, 0);
break;
case F_BLOCK:
#ifdef 0
printf("%8lu,%3lu ",
p->sector / 2, ((p->sector & 1) ? 512 : 0) + p->offset);
#endif
out_rounddown(8, start, 2, increment);
out_roundup(8, end, 2, increment);
out_rounddown(9, size, 2, 0);
break;
case F_MEGABYTE:
out_rounddown(5, start, 2048, increment);
out_roundup(5, end, 2048, increment);
out_roundup_size(5, size, 2048);
out_rounddown(9, size, 2, 0);
break;
}
if (p->ptype == DOS_TYPE) {
printf(" %2x %s\n", p->p.sys_type, sysname(p->p.sys_type));
} else {

```

```

printf("\n");
}

/* Is chs as we expect? */
if (!quiet && p->ptype == DOS_TYPE) {
chs a, b;
longchs aa, bb;
a = (size ? ulong_to_chs(start, G) : zero_chs);
b = p->p.begin_chs;
aa = chs_to_longchs(a);
bb = chs_to_longchs(b);
if (a.s && !is_equal_chs(a, b))
    warnx(_("\t\tstart: (c,h,s) expected (%ld,%ld,%ld) found (%ld,%ld,%ld)\n"),
        aa.c, aa.h, aa.s, bb.c, bb.h, bb.s);
a = (size ? ulong_to_chs(end, G) : zero_chs);
b = p->p.end_chs;
aa = chs_to_longchs(a);
bb = chs_to_longchs(b);
if (a.s && !is_equal_chs(a, b))
    warnx(_("\t\tend: (c,h,s) expected (%ld,%ld,%ld) found (%ld,%ld,%ld)\n"),
        aa.c, aa.h, aa.s, bb.c, bb.h, bb.s);
if (G.cylinders && G.cylinders < 1024 && bb.c > G.cylinders)
    warnx(_("partition ends on cylinder %ld, beyond the end of the disk\n"),
        bb.c);
}
}

static void
out_partitions(char *dev, struct disk_desc *z) {
    int pno, format = 0;

    if (z->partno == 0)
warnx(_("No partitions found\n"));
    else {
if (get_fdisk_geometry(z) && !dump) {
    warnx(_("Warning: The partition table looks like it was made\n"
        " for C/H/S=*/%ld/%ld (instead of %ld/%ld/%ld).\n"
        "For this listing I'll assume that geometry.\n"),
        F.heads, F.sectors, B.cylinders, B.heads, B.sectors);
}
}

out_partition_header(dev, format, F);
for (pno = 0; pno < z->partno; pno++) {
    out_partition(dev, format, &(z->partitions[pno]), z, F);
    if (show_extended && pno % 4 == 3)
printf("\n");
}
}
}

```

```

}

static int
disj(struct part_desc *p, struct part_desc *q) {
    return ((p->start + p->size <= q->start)
        || (is_extended(p->p.sys_type)
        && q->start + q->size <= p->start + p->size));
}

static char *
pnumber(struct part_desc *p, struct disk_desc *z) {
    static char buf[20];
    int this, next;
    struct part_desc *p0 = &(z->partitions[0]);

    this = index_to_linux(p - p0, z);
    next = index_to_linux(p - p0 + 1, z);

    if (next > this)
        sprintf(buf, "%d", this);
    else
        sprintf(buf, "[%d]", this);
    return buf;
}

static int
partitions_ok(int fd, struct disk_desc *z) {
    struct part_desc *partitions = &(z->partitions[0]), *p, *q;
    int partno = z->partno;

#define PNO(p) pnumber(p, z)

    /* Have at least 4 partitions been defined? */
    if (partno < 4) {
        if (!partno)
            errx(EXIT_FAILURE, _("no partition table present."));
        else
            errx(EXIT_FAILURE, _("strange, only %d partitions defined."), partno);
        return 0;
    }

    /* Are the partitions of size 0 marked empty?
       And do they have start = 0? And bootable = 0? */
    for (p = partitions; p - partitions < partno; p++)
        if (p->size == 0) {
            if (p->p.sys_type != EMPTY_PARTITION)
                my_warn(_("Warning: partition %s has size 0 but is not marked Empty\n"),
                    PNO(p));
        }
}

```

```

    else if (p->p.bootable != 0)
my_warn(_("Warning: partition %s has size 0 and is bootable\n"),
PNO(p));
    else if (p->p.start_sect != 0)
my_warn(_("Warning: partition %s has size 0 and nonzero start\n"),
PNO(p));
    /* all this is probably harmless, no error return */
}

/* Are the logical partitions contained in their extended partitions? */
for (p = partitions + 4; p < partitions + partno; p++)
if (p->p.type == DOS_TYPE)
    if (p->p.size && !is_extended(p->p.sys_type)) {
q = p->ep;
if (p->p.start < q->p.start
    || p->p.start + p->p.size > q->p.start + q->p.size) {
my_warn(_("Warning: partition %s is not contained in "
    "partition %s\n"), PNO(p), PNO(q));
return 0;
}
}

/* Are the data partitions mutually disjoint? */
for (p = partitions; p < partitions + partno; p++)
if (p->p.size && !is_extended(p->p.sys_type))
    for (q = p + 1; q < partitions + partno; q++)
if (q->p.size && !is_extended(q->p.sys_type))
    if (!(p->p.start > q->p.start) ? disj(q, p) : disj(p, q)) {
my_warn(_("Warning: partitions %s and %s overlap\n"),
PNO(p), PNO(q));
return 0;
}

/* Are the data partitions and the extended partition
table sectors disjoint? */
for (p = partitions; p < partitions + partno; p++)
if (p->p.size && !is_extended(p->p.sys_type))
    for (q = partitions; q < partitions + partno; q++)
if (is_extended(q->p.sys_type))
    if (p->p.start <= q->p.start && p->p.start + p->p.size > q->p.start) {
my_warn(_("Warning: partition %s contains part of "
    "the partition table (sector %llu),\n"
    "and will destroy it when filled\n"),
PNO(p), q->p.start);
return 0;
}

/* Do they start past zero and end before end-of-disk? */

```

```

{
unsigned long long ds = get_disksize(F_SECTOR);
for (p = partitions; p < partitions + partno; p++)
    if (p->size) {
if (p->start == 0) {
    my_warn(_("Warning: partition %s starts at sector 0\n"),
        PNO(p));
    return 0;
}
if (p->size && p->start + p->size > ds) {
    my_warn(_("Warning: partition %s extends past end of disk\n"),
        PNO(p));
    return 0;
}
}
}

int sector_size;
if (blkdev_get_sector_size(fd, &sector_size) == -1)
sector_size = DEFAULT_SECTOR_SIZE;

/* Is the size of partitions less than 2^32 sectors limit? */
for (p = partitions; p < partitions + partno; p++)
if (p->size > UINT_MAX) {
    unsigned long long bytes = p->size * sector_size;
    int giga = bytes / 1000000000;
    int hectogiga = (giga + 50) / 100;
    my_warn(_("Warning: partition %s has size %d.%d TB (%llu bytes),\n"
        "which is larger than the %llu bytes limit imposed\n"
        "by the DOS partition table for %d-byte sectors\n"),
        PNO(p), hectogiga / 10, hectogiga % 10,
        bytes,
        (unsigned long long) UINT_MAX * sector_size,
        sector_size);
    return 0;
}

/* Do the partitions start below the 2^32 sectors limit? */
for (p = partitions; p < partitions + partno; p++)
if (p->start > UINT_MAX) {
    unsigned long long bytes = p->start * sector_size;
    int giga = bytes / 1000000000;
    int hectogiga = (giga + 50) / 100;
    my_warn(_("Warning: partition %s starts at sector %llu (%d.%d TB for %d-byte sectors),\n"
        "which exceeds the DOS partition table limit of %llu sectors\n"),
        PNO(p),
        p->start,
        hectogiga / 10,

```



```

    hectogiga % 10,
    sector_size,
    (unsigned long long) UINT_MAX);
return 0;
}

/* At most one chain of DOS extended partitions ? */
/* It seems that the OS/2 fdisk has the additional requirement
   that the extended partition must be the fourth one */
{
int ect = 0;
for (p = partitions; p < partitions + 4; p++)
    if (p->p.sys_type == EXTENDED_PARTITION)
        ect++;
if (ect > 1 && !Linux) {
    my_warn_("Among the primary partitions, at most one can be extended\n"
            " (although this is not a problem under Linux)\n");
    return 0;
}
}

/*
 * Do all partitions start at a cylinder boundary ?
 * (this is not required for Linux)
 * The first partition starts after MBR.
 * Logical partitions start slightly after the containing extended partn.
 */
if (B.cylindersize && !Linux) {
for (p = partitions; p < partitions + partno; p++)
    if (p->size) {
if (p->start % B.cylindersize != 0
    && (!p->ep
    || p->start / B.cylindersize !=
    p->ep->start / B.cylindersize)
    && (p->p.start_sect >= B.cylindersize)) {
    my_warn_("Warning: partition %s does not start "
            "at a cylinder boundary\n", PNO(p));
    if (specified_format == F_CYLINDER)
        return 0;
}
if ((p->start + p->size) % B.cylindersize) {
    my_warn_("Warning: partition %s does not end "
            "at a cylinder boundary\n", PNO(p));
    if (specified_format == F_CYLINDER)
        return 0;
}
}
}
}
}

```

```

/* Usually, one can boot only from primary partitions. */
/* In fact, from a unique one only. */
/* do not warn about bootable extended partitions -
   often LILO is there */
{
int pno = -1;
for (p = partitions; p < partitions + partno; p++)
    if (p->p.bootable) {
if (pno == -1)
    pno = p - partitions;
else if (p - partitions < 4) {
    my_warn(_("Warning: more than one primary partition is marked "
        "bootable (active)\n"
        "This does not matter for LILO, but the DOS MBR will "
        "not boot this disk.\n"));
    break;
}
if (p - partitions >= 4) {
    my_warn(_("Warning: usually one can boot from primary partitions "
        "only\nLILO disregards the 'bootable' flag.\n"));
    break;
}
}
if (pno == -1 || pno >= 4)
    my_warn(_("Warning: no primary partition is marked bootable (active)\n"
        "This does not matter for LILO, but the DOS MBR will "
        "not boot this disk.\n"));
}

/* Is chs as we expect? */
for (p = partitions; p < partitions + partno; p++)
if (p->p.type == DOS_TYPE) {
    chs a, b;
    longchs aa, bb;
    a = p->size ? ulong_to_chs(p->start, B) : zero_chs;
    b = p->p.begin_chs;
    aa = chs_to_longchs(a);
    bb = chs_to_longchs(b);
    if (!Linux && !chs_ok(b, PNO(p), _("start")))
return 0;
    if (a.s && !is_equal_chs(a, b))
my_warn(_("partition %s: start: (c,h,s) expected (%ld,%ld,%ld) found (%ld,%ld,%ld)\n"),
PNO(p), aa.c, aa.h, aa.s, bb.c, bb.h, bb.s);
    a = p->size ? ulong_to_chs(p->start + p->size - 1, B) : zero_chs;
    b = p->p.end_chs;
    aa = chs_to_longchs(a);
    bb = chs_to_longchs(b);
}

```

```

    if (!Linux && !chs_ok(b, PNO(p), _("end")))
return 0;
    if (a.s && !is_equal_chs(a, b))
my_warn(_("partition %s: end: (c,h,s) expected (%ld,%ld,%ld) found (%ld,%ld,%ld)\n"),
PNO(p), aa.c, aa.h, aa.s, bb.c, bb.h, bb.s);
    if (B.cylinders && B.cylinders < 1024 && bb.c > B.cylinders)
my_warn(_("partition %s ends on cylinder %ld, beyond the end of the disk\n"),
PNO(p), bb.c);
}

return 1;

#undef PNO
}

static void
extended_partition(char *dev, int fd, struct part_desc *ep, struct disk_desc *z) {
    char *cp;
    struct sector *s;
    unsigned long long start, here, next;
    int i, moretodo = 1;
    struct partition p;
    struct part_desc *partitions = &(z->partitions[0]);
    size_t pno = z->partno;

    here = start = ep->start;

    if (B.cylindersize && start % B.cylindersize) {
/* This is BAD */
if (DOS_extended) {
    here = start -= (start % B.cylindersize);
    warnx(_("Warning: shifted start of the extd partition "
"from %lld to %lld\n"
"(For listing purposes only. "
"Do not change its contents.)\n"), ep->start, start);
} else {
    warnx(_("Warning: extended partition does not start at a "
"cylinder boundary.\n"
"DOS and Linux will interpret the contents differently.\n"));
}
}

    while (moretodo) {
moretodo = 0;

if (!(s = get_sector(dev, fd, here)))
break;

```

```

if (!msdos_signature(s))
    break;

cp = s->data + 0x1be;

if (pno + 4 >= ARRAY_SIZE(z->partitions)) {
    warnx(_("too many partitions - ignoring those past nr (%ld)\n"),
        pno - 1);
    break;
}

next = 0;

for (i = 0; i < 4; i++, cp += sizeof(struct partition)) {
    partitions[pno].sector = here;
    partitions[pno].offset = cp - s->data;
    partitions[pno].ep = ep;
    copy_to_part(cp, &p);
    if (is_extended(p.sys_type)) {
        partitions[pno].start = start + p.start_sect;
        if (next)
            warnx(_("tree of partitions?\n"));
        else
            next = partitions[pno].start; /* follow 'upper' branch */
        moretodo = 1;
    } else {
        partitions[pno].start = here + p.start_sect;
    }
    partitions[pno].size = p.nr_sects;
    partitions[pno].ptype = DOS_TYPE;
    partitions[pno].p = p;
    pno++;
}
here = next;
}

z->partno = pno;
}

#define BSD_DISKMAGIC (0x82564557UL)
#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED 0
typedef unsigned char u8;
typedef unsigned short u16;
typedef unsigned int u32;
struct bsd_disklabel {
    u32 d_magic;
    char d_junk1[4];
}

```

```

char d_typename[16];
char d_packname[16];
char d_junk2[92];
u32 d_magic2;
char d_junk3[2];
u16 d_npartitions; /* number of partitions in following */
char d_junk4[8];
struct bsd_partition { /* the partition table */
u32 p_size; /* number of sectors in partition */
u32 p_offset; /* starting sector */
u32 p_fsize; /* filesystem basic fragment size */
u8 p_fstype; /* filesystem type, see below */
u8 p_frag; /* filesystem fragments per block */
u16 p_cpg; /* filesystem cylinders per group */
} d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
};

static void
bsd_partition(char *dev, int fd, struct part_desc *ep, struct disk_desc *z) {
    struct bsd_disklabel *l;
    struct bsd_partition *bp, *bp0;
    unsigned long long start = ep->start;
    struct sector *s;
    struct part_desc *partitions = &(z->partitions[0]);
    size_t pno = z->partno;

    if (!(s = get_sector(dev, fd, start + 1)))
return;
    l = (struct bsd_disklabel *) (s->data);
    if (l->d_magic != BSD_DISKMAGIC || l->d_magic2 != BSD_DISKMAGIC)
return;

    bp = bp0 = &l->d_partitions[0];
    while (bp - bp0 < BSD_MAXPARTITIONS && bp - bp0 < l->d_npartitions) {
if (pno + 1 >= ARRAY_SIZE(z->partitions)) {
    warnx(_("too many partitions - ignoring those "
        "past nr (%ld)\n"), pno - 1);
    break;
}
if (bp->p_fstype != BSD_FS_UNUSED) {
    partitions[pno].start = bp->p_offset;
    partitions[pno].size = bp->p_size;
    partitions[pno].sector = start + 1;
    partitions[pno].offset = (char *)bp - (char *)bp0;
    partitions[pno].ep = 0;
    partitions[pno].ptype = BSD_TYPE;
    pno++;
}
}
}

```

```

bp++;
}
z->partno = pno;
}

static int
msdos_partition(char *dev, int fd, unsigned long start, struct disk_desc *z) {
    int i;
    char *cp;
    struct partition pt;
    struct sector *s;
    struct part_desc *partitions = &(z->partitions[0]);
    int pno = z->partno;
    int bsd_later = 1;
#ifdef __linux__
    bsd_later = (get_linux_version() >= KERNEL_VERSION(2, 3, 40));
#endif

    if (!(s = get_sector(dev, fd, start)))
        return 0;

    if (!msdos_signature(s))
        return 0;

    cp = s->data + 0x1be;
    copy_to_part(cp, &pt);

    /* If I am not mistaken, recent kernels will hide this from us,
       so we will never actually see traces of a Disk Manager */
    if (pt.sys_type == DM6_PARTITION
        || pt.sys_type == EZD_PARTITION
        || pt.sys_type == DM6_AUX1PARTITION
        || pt.sys_type == DM6_AUX3PARTITION) {
        warnx(_("detected Disk Manager - unable to handle that\n"));
        return 0;
    }

    unsigned int sig = *(unsigned short *)(s->data + 2);
    if (sig <= 0x1ae
        && *(unsigned short *)(s->data + sig) == 0x55aa
        && (1 & *(unsigned char *)(s->data + sig + 2))) {
        warnx(_("DM6 signature found - giving up\n"));
        return 0;
    }

    for (pno = 0; pno < 4; pno++, cp += sizeof(struct partition)) {
        partitions[pno].sector = start;
        partitions[pno].offset = cp - s->data;
    }
}

```

```

copy_to_part(cp, &pt);
partitions[pno].start = start + pt.start_sect;
partitions[pno].size = pt.nr_sects;
partitions[pno].ep = 0;
partitions[pno].p = pt;
}

z->partno = pno;

for (i = 0; i < 4; i++) {
if (is_extended(partitions[i].p.sys_type)) {
    if (!partitions[i].size) {
warnx(_("strange..., an extended partition of size 0?\n"));
continue;
    }
    extended_partition(dev, fd, &partitions[i], z);
}
if (!bsd_later && is_bsd(partitions[i].p.sys_type)) {
    if (!partitions[i].size) {
warnx(_("strange..., a BSD partition of size 0?\n"));
continue;
    }
    bsd_partition(dev, fd, &partitions[i], z);
}
}

if (bsd_later) {
for (i = 0; i < 4; i++) {
    if (is_bsd(partitions[i].p.sys_type)) {
if (!partitions[i].size) {
    warnx(_("strange..., a BSD partition of size 0?\n"));
    continue;
}
    bsd_partition(dev, fd, &partitions[i], z);
}
}
}

return 1;
}

static int
osf_partition(char *dev __attribute__((__unused__)),
    int fd __attribute__((__unused__)),
    unsigned long start __attribute__((__unused__)),
    struct disk_desc *z __attribute__((__unused__))) {
return 0;
}

```

```

static int
sun_partition(char *dev __attribute__((__unused__)),
              int fd __attribute__((__unused__)),
              unsigned long start __attribute__((__unused__)),
              struct disk_desc *z __attribute__((__unused__))) {
    return 0;
}

```

```

static int
amiga_partition(char *dev __attribute__((__unused__)),
                int fd __attribute__((__unused__)),
                unsigned long start __attribute__((__unused__)),
                struct disk_desc *z __attribute__((__unused__))) {
    return 0;
}

```

```

static void
get_partitions(char *dev, int fd, struct disk_desc *z) {
    z->partno = 0;

    if (!msdos_partition(dev, fd, 0, z)
        && !osf_partition(dev, fd, 0, z)
        && !sun_partition(dev, fd, 0, z)
        && !amiga_partition(dev, fd, 0, z)) {
        warnx(_(" %s: unrecognized partition table type\n"), dev);
        return;
    }
}

```

```

static int
write_partitions(char *dev, int fd, struct disk_desc *z) {
    struct sector *s;
    struct part_desc *partitions = &(z->partitions[0]), *p;
    int pno = z->partno;

    if (no_write) {
        warnx(_(" -n flag was given: Nothing changed\n"));
        exit(0);
    }

    for (p = partitions; p < partitions + pno; p++) {
        s = get_sector(dev, fd, p->sector);
        if (!s)
            return 0;
        s->to_be_written = 1;
        if (p->ptype == DOS_TYPE) {
            copy_from_part(&(p->p), s->data + p->offset);

```



```

s->data[510] = 0x55;
s->data[511] = (unsigned char)0xaa;
}
}
if (save_sector_file) {
if (!save_sectors(dev, fd)) {
    errx(EXIT_FAILURE, _("Failed saving the old sectors - aborting\n"));
    return 0;
}
}
if (!write_sectors(dev, fd)) {
error(_("Failed writing the partition on %s\n"), dev);
return 0;
}
if (fsync(fd)) {
perror(dev);
error(_("Failed writing the partition on %s\n"), dev);
return 0;
}
return 1;
}

/*
* F. The standard input
*/

/*
* Input format:
* <start> <size> <type> <bootable> <c,h,s> <c,h,s>
* Fields are separated by whitespace or comma or semicolon possibly
* followed by whitespace; initial and trailing whitespace is ignored.
* Numbers can be octal, decimal or hexadecimal, decimal is default
* The <c,h,s> parts can (and probably should) be omitted.
* Bootable is specified as [*|-], with as default not-bootable.
* Type is given in hex, without the 0x prefix, or is [E|S|L|X], where
* L (LINUX_NATIVE (83)) is the default, S is LINUX_SWAP (82), and E
* is EXTENDED_PARTITION (5), X is LINUX_EXTENDED (85).
* The default value of start is the first nonassigned sector/cylinder/...
* The default value of size is as much as possible (until next
* partition or end-of-disk).
* .: end of chain of extended partitions.
*
* On interactive input an empty line means: all defaults.
* Otherwise empty lines are ignored.
*/

int eof, eob;

```

```

struct dumpfld {
    int fldno;
    char *fldname;
    int is_bool;
} dumpflds[] = {
    {
    0, "start", 0}, {
    1, "size", 0}, {
    2, "Id", 0}, {
    3, "bootable", 1}, {
    4, "bh", 0}, {
    5, "bs", 0}, {
    6, "bc", 0}, {
    7, "eh", 0}, {
    8, "es", 0}, {
    9, "ec", 0}
};

/*
* Read a line, split it into fields
*
* (some primitive handwork, but a more elaborate parser seems
* unnecessary)
*/
#define RD_EOF (-1)
#define RD_CMD (-2)

static int
read_stdin(char **fields, char *line, int fieldssize, int linesize) {
    char *lp, *ip;
    int c, fno;

    /* boolean true and empty string at start */
    line[0] = '*';
    line[1] = 0;
    for (fno = 0; fno < fieldssize; fno++)
        fields[fno] = line + 1;
    fno = 0;

    /* read a line from stdin */
    lp = fgets(line + 2, linesize - 2, stdin);
    if (lp == NULL) {
        eof = 1;
        return RD_EOF;
    }
    if (!lp = strchr(lp, '\n'))
        errx(EXIT_FAILURE, _("long or incomplete input line - quitting"));
    *lp = 0;

```

```

/* remove comments, if any */
if ((lp = strchr(line + 2, '#')) != 0)
*lp = 0;

/* recognize a few commands - to be expanded */
if (!strcmp(line + 2, "unit: sectors")) {
specified_format = F_SECTOR;
return RD_CMD;
}

/* dump style? - then bad input is fatal */
if ((ip = strchr(line + 2, ':')) != 0) {
struct dumpfld *d;

nxtfld:
ip++;
while (isspace(*ip))
ip++;
if (*ip == 0)
return fno;
for (d = dumpflds; (size_t) (d - dumpflds) < ARRAY_SIZE(dumpflds); d++) {
if (!strncmp(ip, d->fldname, strlen(d->fldname))) {
ip += strlen(d->fldname);
while (isspace(*ip))
ip++;
if (d->is_bool)
fields[d->fldno] = line;
else if (*ip == '=') {
while (isspace(*++ip));
fields[d->fldno] = ip;
while (isalnum(*ip)) /* 0x07FF */
ip++;
} else
errx(EXIT_FAILURE, _("input error: '=' expected after %s field"),
d->fldname);
if (fno <= d->fldno)
fno = d->fldno + 1;
if (*ip == 0)
return fno;
if (*ip != ',' && *ip != ';')
errx(EXIT_FAILURE, _("input error: unexpected character %c after %s field"),
*ip, d->fldname);
*ip = 0;
goto nxtfld;
}
}
errx(EXIT_FAILURE, _("unrecognized input: %s"), ip);

```

```

}

/* split line into fields */
lp = ip = line + 2;
fields[fno++] = lp;
while ((c = *ip++) != 0) {
if (!lp[-1] && (c == '\t' || c == ' '));
else if (c == '\t' || c == ' ' || c == ',' || c == ';') {
    *lp++ = 0;
    if (fno < fieldssize)
fields[fno++] = lp;
    continue;
} else
    *lp++ = c;
}

if (lp == fields[fno - 1])
fno--;
return fno;
}

/* read a number, use default if absent */
/* a sign gives an offset from the default */
static int
get_ul(char *u, unsigned long *up, unsigned long def, int base) {
    char *nu;
    int sign = 0;
    unsigned long val;

    if (*u == '+') {
sign = 1;
u++;
    } else if (*u == '-') {
sign = -1;
u++;
    }
    if (*u) {
errno = 0;
val = strtoul(u, &nu, base);
if (errno == ERANGE) {
    warnx(_("number too big\n"));
    return -1;
}
if (*nu) {
    warnx(_("trailing junk after number\n"));
    return -1;
}
if (sign == 1)

```

```

    val = def + val;
else if (sign == -1)
    val = def - val;
*up = val;
} else
*up = def;
return 0;
}

/* read a number, use default if absent */
/* a sign gives an offset from the default */
static int
get_ull(char *u, unsigned long long *up, unsigned long long def, int base) {
    char *nu;
    int sign = 0;
    unsigned long long val;

    if (*u == '+') {
sign = 1;
u++;
    } else if (*u == '-') {
sign = -1;
u++;
    }
    if (*u) {
errno = 0;
val = strtoull(u, &nu, base);
if (errno == ERANGE) {
    warnx(_("number too big\n"));
    return -1;
}
if (*nu) {
    warnx(_("trailing junk after number\n"));
    return -1;
}
if (sign == 1)
    val = def + val;
else if (sign == -1)
    val = def - val;
*up = val;
} else
*up = def;
return 0;
}

```

/* There are two common ways to structure extended partitions:

as nested boxes, and as a chain. Sometimes the partitions must be given in order. Sometimes all logical partitions must lie inside the outermost extended partition.

NESTED: every partition is contained in the surrounding partitions and is disjoint from all others.

CHAINED: every data partition is contained in the surrounding partitions and disjoint from all others, but extended partitions may lie outside (insofar as allowed by `all_logicals_inside_outermost_extended`).

ONESECTOR: all data partitions are mutually disjoint; extended partitions each use one sector only (except perhaps for the outermost one).

```
*/
int partitions_in_order = 0;
int all_logicals_inside_outermost_extended = 1;
enum { NESTED, CHAINED, ONESECTOR } boxes = NESTED;
```

```
/* find the default value for <start> - assuming entire units */
static unsigned long long
first_free(int pno, int is_extended, struct part_desc *ep, int format,
          unsigned long long mid, struct disk_desc *z) {
    unsigned long long ff, fff;
    unsigned long unit = unitsize(format);
    struct part_desc *partitions = &(z->partitions[0]), *pp = 0;

    /* if containing ep undefined, look at its container */
    if (ep && ep->p.sys_type == EMPTY_PARTITION)
        ep = ep->ep;

    if (ep) {
        if (boxes == NESTED || (boxes == CHAINED && !is_extended))
            pp = ep;
        else if (all_logicals_inside_outermost_extended)
            pp = outer_extended_partition(ep);
    }
    #if 0
        ff = pp ? (pp->start + unit - 1) / unit : 0;
    #else
        /* rounding up wastes almost an entire cylinder - round down
           and leave it to compute_start_sect() to fix the difference */
        ff = pp ? pp->start / unit : 0;
    #endif
    /* MBR and 1st sector of an extended partition are never free */
    if (unit == 1)
        ff++;

    again:
    for (pp = partitions; pp < partitions + pno; pp++) {
        if (!is_parent(pp, ep) && pp->size > 0) {
            if ((partitions_in_order || pp->start / unit <= ff
```

```

    || (mid && pp->start / unit <= mid))
    && (fff = (pp->start + pp->size + unit - 1) / unit) > ff) {
    ff = fff;
    goto again;
    }
}
}

return ff;
}

/* find the default value for <size> - assuming entire units */
static unsigned long long
max_length(int pno, int is_extended, struct part_desc *ep, int format,
    unsigned long long start, struct disk_desc *z) {
    unsigned long long fu;
    unsigned long unit = unitsize(format);
    struct part_desc *partitions = &(z->partitions[0]), *pp = 0;

    /* if containing ep undefined, look at its container */
    if (ep && ep->p.sys_type == EMPTY_PARTITION)
    ep = ep->ep;

    if (ep) {
    if (boxes == NESTED || (boxes == CHAINED && !is_extended))
        pp = ep;
    else if (all_logicals_inside_outermost_extended)
        pp = outer_extended_partition(ep);
    }
    fu = pp ? (pp->start + pp->size) / unit : get_disksize(format);

    for (pp = partitions; pp < partitions + pno; pp++)
    if (!is_parent(pp, ep) && pp->size > 0
        && pp->start / unit >= start && pp->start / unit < fu)
        fu = pp->start / unit;

    return (fu > start) ? fu - start : 0;
}

/* compute starting sector of a partition inside an extended one */
/* return 0 on failure */
/* ep is 0 or points to surrounding extended partition */
static int
compute_start_sect(struct part_desc *p, struct part_desc *ep) {
    unsigned long long base;
    int inc = (DOS && B.sectors) ? B.sectors : 1;
    int delta;

```

```

    if (ep && p->start + p->size >= ep->start + 1)
delta = p->start - ep->start - inc;
    else if (p->start == 0 && p->size > 0)
delta = -inc;
    else
delta = 0;

    if (delta < 0) {
unsigned long long old_size = p->size;
p->start -= delta;
p->size += delta;
if (is_extended(p->p.sys_type) && boxes == ONESECTOR)
    p->size = inc;
else if ((ssize_t) old_size <= (ssize_t) - delta) {
    my_warn(_("no room for partition descriptor\n"));
    return 0;
}
}
base = (!ep ? 0
: (is_extended(p->p.sys_type) ?
    outer_extended_partition(ep) : ep->start);
p->ep = ep;
if (p->p.sys_type == EMPTY_PARTITION && p->size == 0) {
p->p.start_sect = 0;
p->p.begin_chs = zero_chs;
p->p.end_chs = zero_chs;
} else {
p->p.start_sect = p->start - base;
p->p.begin_chs = ulong_to_chs(p->start, B);
p->p.end_chs = ulong_to_chs(p->start + p->size - 1, B);
}
p->p.nr_sects = p->size;
return 1;
}

/* build the extended partition surrounding a given logical partition */
static int
build_surrounding_extended(struct part_desc *p, struct part_desc *ep,
    struct disk_desc *z) {
int inc = (DOS && B.sectors) ? B.sectors : 1;
int format = F_SECTOR;
struct part_desc *p0 = &(z->partitions[0]), *eep = ep->ep;

if (boxes == NESTED) {
ep->start = first_free(ep - p0, 1, eep, format, p->start, z);
ep->size = max_length(ep - p0, 1, eep, format, ep->start, z);
if (ep->start > p->start || ep->start + ep->size < p->start + p->size) {
    my_warn(_("cannot build surrounding extended partition\n"));
}
}
}

```



```

    return 0;
}
} else {
ep->start = p->start;
if (boxes == CHAINED)
    ep->size = p->size;
else
    ep->size = inc;
}

ep->p.nr_sects = ep->size;
ep->p.bootable = 0;
ep->p.sys_type = EXTENDED_PARTITION;
if (!compute_start_sect(ep, eep) || !compute_start_sect(p, ep)) {
ep->p.sys_type = EMPTY_PARTITION;
ep->size = 0;
return 0;
}

return 1;
}

static int
read_line(int pno, struct part_desc *ep, char *dev, int interactive,
    struct disk_desc *z) {
    char line[1000];
    char *fields[11];
    int fno, pct = pno % 4;
    struct part_desc p, *orig;
    unsigned long long ff, ff1, ul, ml, ml1, def;
    int format, lpno, is_extd;

    if (eof || eob)
return -1;

    lpno = index_to_linux(pno, z);

    if (interactive) {
if (pct == 0 && (show_extended || pno == 0))
    my_warn("\n");
my_warn("%s:", partname(dev, lpno, 10));
    }

    /* read input line - skip blank lines when reading from a file */
    do {
fno = read_stdin(fields, line, ARRAY_SIZE(fields), ARRAY_SIZE(line));
    } while (fno == RD_CMD || (fno == 0 && !interactive));
    if (fno == RD_EOF) {

```

```

return -1;
    } else if (fno > 10 && *(fields[10]) != 0) {
warnx(_("too many input fields\n"));
return 0;
    }

    if (fno == 1 && !strcmp(fields[0], ".")) {
eob = 1;
return -1;
    }

    /* use specified format, but round to cylinders if F_MEGABYTE specified */
    format = 0;
    if (B.cylindersize && specified_format == F_MEGABYTE && !Linux)
format = F_CYLINDER;

    orig = (one_only ? &(oldp.partitions[pno]) : 0);

    p = zero_part_desc;
    p.ep = ep;

    /* first read the type - we need to know whether it is extended */
    /* stop reading when input blank (defaults) and all is full */
    is_extd = 0;
    if (fno == 0) { /* empty line */
if (orig && is_extended(orig->p.sys_type))
    is_extd = 1;
ff = first_free(pno, is_extd, ep, format, 0, z);
ml = max_length(pno, is_extd, ep, format, ff, z);
if (ml == 0 && is_extd == 0) {
    is_extd = 1;
    ff = first_free(pno, is_extd, ep, format, 0, z);
    ml = max_length(pno, is_extd, ep, format, ff, z);
}
if (ml == 0 && pno >= 4) {
    /* no free blocks left - don't read any further */
    my_warn(_("No room for more\n"));
    return -1;
}
    }
    if (fno < 3 || !(fields[2]))
ul = orig ? orig->p.sys_type :
    (is_extd || (pno > 3 && pct == 1 && show_extended))
    ? EXTENDED_PARTITION : LINUX_NATIVE;
    else if (!strcmp(fields[2], "L"))
ul = LINUX_NATIVE;
    else if (!strcmp(fields[2], "S"))
ul = LINUX_SWAP;

```

```

    else if (!strcmp(fields[2], "E"))
ul = EXTENDED_PARTITION;
    else if (!strcmp(fields[2], "X"))
ul = LINUX_EXTENDED;
    else if (get_ull(fields[2], &ul, LINUX_NATIVE, 16))
return 0;
    if (ul > 255) {
my_warn(_("Illegal type\n"));
return 0;
    }
    p.p.sys_type = ul;
    is_extd = is_extended(ul);

/* find start */
ff = first_free(pno, is_extd, ep, format, 0, z);
ff1 = ff * unitsize(format);
def = orig ? orig->start : (pno > 4 && pct > 1) ? 0 : ff1;
if (fno < 1 || !(fields[0]))
p.start = def;
    else {
if (get_ull(fields[0], &ul, def / unitsize(0), 0))
return 0;
p.start = ul * unitsize(0);
p.start -= (p.start % unitsize(format));
    }

/* find length */
ml = max_length(pno, is_extd, ep, format, p.start / unitsize(format), z);
ml1 = ml * unitsize(format);
def = orig ? orig->size : (pno > 4 && pct > 1) ? 0 : ml1;
if (fno < 2 || !(fields[1]))
p.size = def;
    else if (!strcmp(fields[1], "+"))
p.size = ml1;
    else {
if (get_ull(fields[1], &ul, def / unitsize(0), 0))
return 0;
p.size = ul * unitsize(0) + unitsize(format) - 1;
p.size -= (p.size % unitsize(format));
    }
    if (p.size > ml1) {
my_warn(_("Warning: given size (%lu) exceeds max allowable size (%lu)\n"),
(p.size + unitsize(0) - 1) / unitsize(0), ml1 / unitsize(0));
if (!force)
return 0;
    }
    if (p.size == 0 && pno >= 4 && (fno < 2 || !(fields[1]))) {
my_warn(_("Warning: empty partition\n"));

```

```

if (!force)
    return 0;
}
p.p.nr_sects = p.size;

if (p.size == 0 && !orig) {
if (fno < 1 || !*(fields[0]))
    p.start = 0;
if (fno < 3 || !*(fields[2]))
    p.p.sys_type = EMPTY_PARTITION;
}

if (p.start < ff1 && p.size > 0) {
my_warn_("Warning: bad partition start (earliest %lu)\n"),
(ff1 + unitsize(0) - 1) / unitsize(0);
if (!force)
    return 0;
}

if (fno < 4 || !*(fields[3]))
ul = (orig ? orig->p.bootable : 0);
else if (!strcmp(fields[3], "-"))
ul = 0;
else if (!strcmp(fields[3], "*") || !strcmp(fields[3], "+"))
ul = 0x80;
else {
my_warn_("unrecognized bootable flag - choose - or *\n");
return 0;
}
p.p.bootable = ul;

if (ep && ep->p.sys_type == EMPTY_PARTITION) {
if (!build_surrounding_extended(&p, ep, z))
    return 0;
} else if (!compute_start_sect(&p, ep))
return 0;

{
longchs aa = chs_to_longchs(p.p.begin_chs), bb;

if (fno < 5) {
    bb = aa;
} else if (fno < 7) {
    my_warn_("partial c,h,s specification?\n");
    return 0;
} else if (get_ul(fields[4], &bb.c, aa.c, 0) ||
get_ul(fields[5], &bb.h, aa.h, 0) ||
get_ul(fields[6], &bb.s, aa.s, 0))

```

```

    return 0;
p.p.begin_chs = longchs_to_chs(bb, B);
}
{
longchs aa = chs_to_longchs(p.p.end_chs), bb;

if (fno < 8) {
    bb = aa;
} else if (fno < 10) {
    my_warn(_("partial c,h,s specification?\n"));
    return 0;
} else if (get_ul(fields[7], &bb.c, aa.c, 0) ||
get_ul(fields[8], &bb.h, aa.h, 0) ||
get_ul(fields[9], &bb.s, aa.s, 0))
    return 0;
p.p.end_chs = longchs_to_chs(bb, B);
}

if (pno > 3 && p.size && show_extended && p.p.sys_type != EMPTY_PARTITION
&& (is_extended(p.p.sys_type) != (pct == 1))) {
my_warn(_("Extended partition not where expected\n"));
if (!force)
    return 0;
}

z->partitions[pno] = p;
if (pno >= z->partno)
z->partno += 4; /* reqd for out_partition() */

if (interactive)
out_partition(dev, 0, &(z->partitions[pno]), z, B);

return 1;
}

/* ep either points to the extended partition to contain this one,
or to the empty partition that may become extended or is 0 */
static int
read_partition(char *dev, int interactive, int pno, struct part_desc *ep,
    struct disk_desc *z) {
    struct part_desc *p = &(z->partitions[pno]);
    int i;

    if (one_only) {
        *p = oldp.partitions[pno];
        if (one_only_pno != pno)
            goto ret;
    } else if (!show_extended && pno > 4 && pno % 4)

```

```

goto ret;

while (!(i = read_line(pno, ep, dev, interactive, z)))
if (!interactive)
    errx(EXIT_FAILURE, _("bad input"));
if (i < 0) {
p->ep = ep;
return 0;
}

ret:
p->ep = ep;
if (pno >= z->partno)
z->partno += 4;
return 1;
}

static void
read_partition_chain(char *dev, int interactive, struct part_desc *ep,
    struct disk_desc *z) {
int i;
size_t base;

eob = 0;
while (1) {
base = z->partno;
if (base + 4 > ARRAY_SIZE(z->partitions)) {
warnx(_("too many partitions\n"));
break;
}
for (i = 0; i < 4; i++)
if (!read_partition(dev, interactive, base + i, ep, z))
return;
for (i = 0; i < 4; i++) {
ep = &(z->partitions[base + i]);
if (is_extended(ep->p.sys_type) && ep->size)
break;
}
if (i == 4) {
/* nothing found - maybe an empty partition is going
to be extended */
if (one_only || show_extended)
break;
ep = &(z->partitions[base + 1]);
if (ep->size || ep->p.sys_type != EMPTY_PARTITION)
break;
}
}
}

```

```

}

static void
read_input(char *dev, int interactive, struct disk_desc *z) {
    size_t i;
    struct part_desc *partitions = &(z->partitions[0]), *ep;

    for (i = 0; i < ARRAY_SIZE(z->partitions); i++)
partitions[i] = zero_part_desc;
    z->partno = 0;

    if (interactive)
my_warn_("Input in the following format; absent fields get a default value.\n"
    "<start> <size> <type [E,S,L,X,hex]> <bootable [-,*]> <c,h,s> <c,h,s>\n"
    "Usually you only need to specify <start> and <size> (and perhaps <type>).\n");
    eof = 0;

    for (i = 0; i < 4; i++)
read_partition(dev, interactive, i, 0, z);
    for (i = 0; i < 4; i++) {
ep = partitions + i;
if (is_extended(ep->p.sys_type) && ep->size)
    read_partition_chain(dev, interactive, ep, z);
    }
    add_sector_and_offset(z);
}

/*
* G. The command line
*/
static void usage(FILE * out)
{
fputs_("\nUsage:\n"), out);
fprintf(out,
    _("%s [options] <device> [...]\n"), program_invocation_short_name);

fputs_("\nOptions:\n"), out);
fprintf_("-s, --show-size      list size of a partition\n"
    "-c, --id             change or print partition Id\n"
    "  --change-id        change Id\n"
    "  --print-id         print Id\n"), out);
fputs_("-l, --list           list partitions of each device\n"
    "-d, --dump           idem, but in a format suitable for later input\n"
    "-i, --increment      number cylinders etc. from 1 instead of from 0\n"
    "-u, --unit <letter> units to be used; <letter> can be one of\n"
    "                    S (sectors), C (cylinders), B (blocks), or M (MB)\n"), out);
fputs_("-1, --one-only       reserved option that does nothing currently\n"
    "-T, --list-types     list the known partition types\n"

```

```

" -D, --DOS          for DOS-compatibility: waste a little space\n"
" -E, --DOS-extended  DOS extended partition compatibility\n"
" -R, --re-read      make the kernel reread the partition table\n"), out);
fputs(_(" -N <number>      change only the partition with this <number>\n")
" -n                do not actually write to disk\n"
" -O <file>          save the sectors that will be overwritten to <file>\n"
" -I <file>          restore sectors from <file>\n"), out);
fputs(_(" -V, --verify      check that the listed partitions are reasonable\n")
" -v, --version      display version information and exit\n"
" -h, --help         display this help text and exit\n"), out);

fputs(_("\nDangerous options:\n"), out);
fputs(_(" -f, --force          disable all consistency checking\n")
" --no-reread        do not check whether the partition is in use\n"
" -q, --quiet         suppress warning messages\n"
" -L, --Linux         do not complain about things irrelevant for Linux\n"), out);
fputs(_(" -g, --show-geometry    print the kernel's idea of the geometry\n")
" -G, --show-pt-geometry  print geometry guessed from the partition table\n"), out);
fputs(_(" -A, --activate[=<device>] activate bootable flag\n")
" -U, --unhide[=<dev>]    set partition unhidden\n"
" -x, --show-extended    also list extended partitions in the output,\n"
"                          or expect descriptors for them in the input\n"), out);
fputs(_(" --leave-last        do not allocate the last cylinder\n")
" --IBM                same as --leave-last\n"), out);
fputs(_(" --in-order           partitions are in order\n")
" --not-in-order        partitions are not in order\n"
" --inside-outer        all logicals inside outermost extended\n"
" --not-inside-outer    not all logicals inside outermost extended\n"), out);
fputs(_(" --nested            every partition is disjoint from all others\n")
" --chained             like nested, but extended partitions may lie outside\n"
" --onesector           partitions are mutually disjoint\n"), out);

fputs(_("\nOverride the detected geometry using:\n")
" -C, --cylinders <number> set the number of cylinders to use\n"
" -H, --heads <number>    set the number of heads to use\n"
" -S, --sectors <number>  set the number of sectors to use\n\n"), out);

exit(out == stderr ? EXIT_FAILURE : EXIT_SUCCESS);
}

static void
activate_usage(char *progn) {
    puts(_("Usage:"));
    printf(_("%s device  list active partitions on device\n"), progn);
    printf(_("%s device n1 n2 ... activate partitions n1 ..., inactivate the rest\n"),
    progn);
    printf(_("%s -An device activate partition n, inactivate the other ones\n"),
    PROGNAM);
}

```



```

    exit(1);
}

static void
unhide_usage(char *progn __attribute__((__unused__))) {
    exit(1);
}

static const char short_opts[] = "cdfghilnqsu:vx1A::C:DGH:I:LN:O:RS:TU::V";

#define PRINT_ID 0400
#define CHANGE_ID 01000

enum {
    OPT_NO_REREAD = CHAR_MAX + 1,
    OPT_LEAVE_LAST,
    OPT_IN_ORDER,
    OPT_NOT_IN_ORDER,
    OPT_INSIDE_OUTER,
    OPT_NOT_INSIDE_OUTER,
    OPT_NESTED,
    OPT_CHAINED,
    OPT_ONESECTOR
};

static const struct option long_opts[] = {
    { "change-id",    no_argument, NULL, 'c' + CHANGE_ID },
    { "print-id",    no_argument, NULL, 'c' + PRINT_ID },
    { "id",          no_argument, NULL, 'c' },
    { "dump",        no_argument, NULL, 'd' },
    { "force",       no_argument, NULL, 'f' },
    { "show-geometry", no_argument, NULL, 'g' },
    { "help",        no_argument, NULL, 'h' },
    { "increment",   no_argument, NULL, 'i' },
    { "list",        no_argument, NULL, 'l' },
    { "quiet",       no_argument, NULL, 'q' },
    { "show-size",   no_argument, NULL, 's' },
    { "unit",        required_argument, NULL, 'u' },
    { "version",     no_argument, NULL, 'v' },
    { "show-extended", no_argument, NULL, 'x' },
    { "one-only",    no_argument, NULL, '1' },
    { "cylinders",   required_argument, NULL, 'C' },
    { "heads",       required_argument, NULL, 'H' },
    { "sectors",     required_argument, NULL, 'S' },
    { "show-pt-geometry", no_argument, NULL, 'G' },
    { "activate",    optional_argument, NULL, 'A' },
    { "DOS",         no_argument, NULL, 'D' },
    { "DOS-extended", no_argument, NULL, 'E' },

```

```

    { "Linux",      no_argument, NULL, 'L' },
    { "re-read",   no_argument, NULL, 'R' },
    { "list-types", no_argument, NULL, 'T' },
    { "unhide",    optional_argument, NULL, 'U' },
    { "no-reread", no_argument, NULL, OPT_NO_REREAD },
    { "IBM",       no_argument, NULL, OPT_LEAVE_LAST },
    { "leave-last", no_argument, NULL, OPT_LEAVE_LAST },
/* dangerous flags - not all completely implemented */
    { "in-order",  no_argument, NULL, OPT_IN_ORDER },
    { "not-in-order", no_argument, NULL, OPT_NOT_IN_ORDER },
    { "inside-outer", no_argument, NULL, OPT_INSIDE_OUTER },
    { "not-inside-outer", no_argument, NULL, OPT_NOT_INSIDE_OUTER },
    { "nested",    no_argument, NULL, OPT_NESTED },
    { "chained",   no_argument, NULL, OPT_CHAINED },
    { "onesector", no_argument, NULL, OPT_ONESECTOR },
    { NULL, 0, NULL, 0 }
};

```

```

static int is_ide_cdrom_or_tape(char *device)

```

```

{
    int fd, ret;

    if ((fd = open(device, O_RDONLY)) < 0)
        return 0;
    ret = blkdev_is_cdrom(fd);

    close(fd);
    return ret;
}

```

```

static char *

```

```

nextproc(FILE * procf) {
    static char devname[256];
    char line[1024], ptname[128];
    int ma, mi;
    unsigned long long sz;

    if (procf == NULL)
        return NULL;
    while (fgets(line, sizeof(line), procf) != NULL) {
        if (sscanf(line, " %d %d %llu %128[^\n ]", &ma, &mi, &sz, ptname) != 4)
            continue;
        snprintf(devname, sizeof(devname), "/dev/%s", ptname);
        if (!is_whole_disk(devname))
            continue;
        return canonicalize_path(devname);
    }
}

```

```

    return NULL;
}

static void
gpt_warning(char *dev, int warn_only) {
    if (force)
        warn_only = 1;

    if (dev && gpt_probe_signature_devname(dev)) {
        fflush(stdout);
        fprintf(stderr,
            _("\nWARNING: GPT (GUID Partition Table) detected on '%s!' "
            "The util sfdisk doesn't support GPT. Use GNU Parted.\n\n"),
            dev);
        if (!warn_only) {
            fprintf(stderr,
                _("\nUse the --force flag to overrule this check.\n"));
            exit(1);
        }
    }
}

```

```

static void do_list(char *dev, int silent);
static void do_size(char *dev, int silent);
static void do_geom(char *dev, int silent);
static void do_pt_geom(char *dev, int silent);
static void do_fdisk(char *dev);
static void do_reread(char *dev);
static void do_change_id(char *dev, char *part, char *id);
static void do_unhide(char **av, int ac, char *arg);
static void do_activate(char **av, int ac, char *arg);

```

```

unsigned long long total_size;

```

```

int
main(int argc, char **argv) {
    char *progn;
    int c;
    char *dev;
    int opt_size = 0;
    int opt_out_geom = 0;
    int opt_out_pt_geom = 0;
    int opt_reread = 0;
    int activate = 0;
    int do_id = 0;
    int unhide = 0;
    int fdisk = 0;
    char *activatearg = 0;
}

```

```

char *unhidearg = 0;

setlocale(LC_ALL, "");
bindtextdomain(PACKAGE, LOCALEDIR);
textdomain(PACKAGE);

if (argc < 1)
errx(EXIT_FAILURE, _("no command?"));
if ((progn = strchr(argv[0], '/')) == NULL)
progn = argv[0];
else
progn++;
if (!strcmp(progn, "activate"))
activate = 1; /* equivalent to 'sfdisk -A' */
#if 0 /* not important enough to deserve a name */
else if (!strcmp(progn, "unhide"))
unhide = 1; /* equivalent to 'sfdisk -U' */
#endif
else
fdisk = 1;

while ((c = getopt_long(argc, argv, short_opts, long_opts, NULL)) != -1) {
switch (c) {
case 'f':
force = 1;
break; /* does not imply quiet */
case 'g':
opt_out_geom = 1;
break;
case 'G':
opt_out_pt_geom = 1;
break;
case 'i':
increment = 1;
break;
case 'c':
case 'c' + PRINT_ID:
case 'c' + CHANGE_ID:
do_id = c;
break;
case 'd':
dump = 1; /* fall through */
case 'l':
opt_list = 1;
break;
case 'n':
no_write = 1;
break;

```

```
case 'q':
    quiet = 1;
    break;
case 's':
    opt_size = 1;
    break;
case 'u':
    set_format(*optarg);
    break;
case 'v':
    printf(_("%s from %s\n"), program_invocation_short_name,
        PACKAGE_STRING);
    return EXIT_SUCCESS;
case 'h':
    usage(stdout);
    return EXIT_SUCCESS;
case 'x':
    show_extended = 1;
    break;
case 'A':
    activatearg = optarg;
    activate = 1;
    break;
case 'C':
    U.cylinders = atoi(optarg);
    break;
case 'D':
    DOS = 1;
    break;
case 'E':
    DOS_extended = 1;
    break;
case 'H':
    U.heads = atoi(optarg);
    break;
case 'L':
    Linux = 1;
    break;
case 'N':
    one_only = atoi(optarg);
    break;
case 'T':
    restore_sector_file = optarg;
    break;
case 'O':
    save_sector_file = optarg;
    break;
case 'R':
```

```

    opt_reread = 1;
    break;
case 'S':
    U.sectors = atoi(optarg);
    break;
case 'T':
    list_types();
    exit(0);
case 'U':
    unhidearg = optarg;
    unhide = 1;
    break;
case 'V':
    verify = 1;
    break;
default:
    usage(stderr);
    break;

    /* dangerous flags */
case OPT_IN_ORDER:
    partitions_in_order = 1;
    break;
case OPT_NOT_IN_ORDER:
    partitions_in_order = 0;
    break;
case OPT_INSIDE_OUTER:
    all_logicals_inside_outermost_extended = 1;
    break;
case OPT_NOT_INSIDE_OUTER:
    all_logicals_inside_outermost_extended = 0;
    break;
case OPT_NESTED:
    boxes = NESTED;
    break;
case OPT_CHAINED:
    boxes = CHAINED;
    break;
case OPT_ONESECTOR:
    boxes = ONESECTOR;
    break;

    /* more flags */
case OPT_NO_REREAD:
    no_reread = 1;
    break;
case OPT_LEAVE_LAST:
    leave_last = 1;

```

```

        break;
    }
}

if (optind == argc &&
(opt_list || opt_out_geom || opt_out_pt_geom || opt_size || verify)) {
FILE *procf;

/* try all known devices */
total_size = 0;

procf = fopen(_PATH_PROC_PARTITIONS, "r");
if (!procf)
    fprintf(stderr, _("cannot open %s\n"), _PATH_PROC_PARTITIONS);
else {
    while ((dev = nextproc(procf)) != NULL) {
if (!is_ide_cdrom_or_tape(dev)) {
    gpt_warning(dev, 1);
    if (opt_out_geom)
do_geom(dev, 1);
    if (opt_out_pt_geom)
do_pt_geom(dev, 1);
    if (opt_size)
do_size(dev, 1);
    if (opt_list || verify)
do_list(dev, 1);
}
free(dev);
}
fclose(procf);
}

if (opt_size)
    printf(_("total: %llu blocks\n"), total_size);

exit(exit_status);
}

if (optind == argc) {
if (activate)
    activate_usage(fdisk ? "sfdisk -A" : progn);
else if (unhide)
    unhide_usage(fdisk ? "sfdisk -U" : progn);
else
    usage(stderr);
}

if (opt_list || opt_out_geom || opt_out_pt_geom || opt_size || verify) {

```

```

while (optind < argc) {
    gpt_warning(argv[optind], 1);
    if (opt_out_geom)
do_geom(argv[optind], 0);
    if (opt_out_pt_geom)
do_pt_geom(argv[optind], 0);
    if (opt_size)
do_size(argv[optind], 0);
    if (opt_list || verify)
do_list(argv[optind], 0);
    optind++;
}
exit(exit_status);
}

if (optind != argc - 1)
gpt_warning(argv[optind], 0);

if (activate) {
do_activate(argv + optind, argc - optind, activatearg);
exit(exit_status);
}
if (unhide) {
do_unhide(argv + optind, argc - optind, unhidearg);
exit(exit_status);
}
if (do_id) {
if ((do_id & PRINT_ID) != 0 && optind != argc - 2)
    errx(EXIT_FAILURE, _("usage: sfdisk --print-id device partition-number"));
else if ((do_id & CHANGE_ID) != 0 && optind != argc - 3)
    errx(EXIT_FAILURE, _("usage: sfdisk --change-id device partition-number Id"));
else if (optind != argc - 3 && optind != argc - 2)
    errx(EXIT_FAILURE, _("usage: sfdisk --id device partition-number [Id]"));
do_change_id(argv[optind], argv[optind + 1],
    (optind == argc - 2) ? 0 : argv[optind + 2]);
exit(exit_status);
}

if (optind != argc - 1)
errx(EXIT_FAILURE, _("can specify only one device (except with -l or -s)"));
dev = argv[optind];

if (opt_reread)
do_reread(dev);
else if (restore_sector_file)
restore_sectors(dev);
else
do_fdisk(dev);

```



```

    return 0;
}

/*
 * H. Listing the current situation
 */

static int
my_open(char *dev, int rw, int silent) {
    int fd, mode;

    mode = (rw ? O_RDWR : O_RDONLY);
    fd = open(dev, mode);
    if (fd < 0 && !silent) {
        perror(dev);
        if (rw)
            errx(EXIT_FAILURE, _("cannot open %s read-write"), dev);
        else
            errx(EXIT_FAILURE, _("cannot open %s for reading"), dev);
    }
    return fd;
}

static void
do_list(char *dev, int silent) {
    int fd;
    struct disk_desc *z;

    fd = my_open(dev, 0, silent);
    if (fd < 0)
        return;

    z = &oldp;

    free_sectors();
    get_cylindersize(dev, fd, dump ? 1 : opt_list ? 0 : 1);
    get_partitions(dev, fd, z);

    if (opt_list)
        out_partitions(dev, z);

    if (verify) {
        if (partitions_ok(fd, z))
            my_warn(_("%s: OK\n"), dev);
        else
            exit_status = 1;
    }
}

```

```

    close(fd);
}

static void
do_geom(char *dev, int silent) {
    int fd;
    struct geometry R;

    fd = my_open(dev, 0, silent);
    if (fd < 0)
return;

    R = get_geometry(dev, fd, silent);
    if (R.cylinders)
printf(_("%s: %ld cylinders, %ld heads, %ld sectors/track\n"),
        dev, R.cylinders, R.heads, R.sectors);

    close(fd);
}

static void
do_pt_geom(char *dev, int silent) {
    int fd;
    struct disk_desc *z;
    struct geometry R;

    fd = my_open(dev, 0, silent);
    if (fd < 0)
return;

    z = &oldp;

    free_sectors();
    get_cylindersize(dev, fd, 1);
    get_partitions(dev, fd, z);

    R = B;

    if (z->partno != 0 && get_fdisk_geometry(z)) {
R.heads = F.heads;
R.sectors = F.sectors;
R.cylindersize = R.heads * R.sectors;
R.cylinders = (R.cylindersize == 0) ? 0 : R.total_size / R.cylindersize;
    }

    if (R.cylinders)
printf(_("%s: %ld cylinders, %ld heads, %ld sectors/track\n"),

```

```

    dev, R.cylinders, R.heads, R.sectors);

    close(fd);
}

/* for compatibility with earlier fdisk: provide option -s */
static void
do_size(char *dev, int silent) {
    int fd;
    unsigned long long size;

    fd = my_open(dev, 0, silent);
    if (fd < 0)
        return;

    if (blkdev_get_sectors(fd, &size) == -1) {
    if (!silent) {
        perror(dev);
        errx(EXIT_FAILURE, _("Cannot get size of %s"), dev);
    }
    goto done;
    }

    size /= 2; /* convert sectors to blocks */

    /* a CDROM drive without mounted CD yields MAXINT */
    if (silent && size == ((1 << 30) - 1))
        goto done;

    if (silent)
        printf("%s: %9llu\n", dev, size);
    else
        printf("%llu\n", size);

    total_size += size;

done:
    close(fd);
}

/*
* Activate: usually one wants to have a single primary partition
* to be active. OS/2 fdisk makes non-bootable logical partitions
* active - I don't know what that means to OS/2 Boot Manager.
*
* Call: activate /dev/hda 2 5 7 make these partitions active
* and the remaining ones inactive
* Or: sfdisk -A /dev/hda 2 5 7

```

*
 * If only a single partition must be active, one may also use the form
 * sfdisk -A2 /dev/hda
 *
 * With "activate /dev/hda" or "sfdisk -A /dev/hda" the active partitions
 * are listed but not changed. To get zero active partitions, use
 * "activate /dev/hda none" or "sfdisk -A /dev/hda none".
 * Use something like 'echo ",,," | sfdisk -N2 /dev/hda' to only make
 * /dev/hda2 active, without changing other partitions.
 *
 * A warning will be given if after the change not precisely one primary
 * partition is active.
 *
 * The present syntax was chosen to be (somewhat) compatible with the
 * activate from the LILO package.

*/

```
static void
set_active(struct disk_desc *z, char *pname) {
    int pno;

    pno = asc_to_index(pname, z);
    if (z->partitions[pno].ptype == DOS_TYPE)
        z->partitions[pno].p.bootable = 0x80;
}
```

```
static void
do_activate(char **av, int ac, char *arg) {
    char *dev = av[0];
    int fd;
    int rw, i, pno, lpno;
    struct disk_desc *z;

    z = &oldp;

    rw = (!no_write && (arg || ac > 1));
    fd = my_open(dev, rw, 0);

    free_sectors();
    get_cylindersize(dev, fd, 1);
    get_partitions(dev, fd, z);

    if (!arg && ac == 1) {
        /* list active partitions */
        for (pno = 0; pno < z->partno; pno++) {
            if (z->partitions[pno].p.bootable) {
                lpno = index_to_linux(pno, z);
                if (pno == linux_to_index(lpno, z))
                    printf("%s\n", partname(dev, lpno, 0));
            }
        }
    }
}
```

```

else
    printf("%s#%d\n", dev, pno);
if (z->partitions[pno].p.bootable != 0x80)
    my_warn_("bad active byte: 0x%x instead of 0x80\n"),
        z->partitions[pno].p.bootable);
    }
}
} else {
/* clear 'active byte' everywhere */
for (pno = 0; pno < z->partno; pno++)
    if (z->partitions[pno].ptype == DOS_TYPE)
        z->partitions[pno].p.bootable = 0;

/* then set where desired */
if (ac == 1)
    set_active(z, arg);
else
    for (i = 1; i < ac; i++)
        set_active(z, av[i]);

/* then write to disk */
if (write_partitions(dev, fd, z))
    my_warn_("Done\n\n");
else
    exit_status = 1;
}
i = 0;
for (pno = 0; pno < z->partno && pno < 4; pno++)
if (z->partitions[pno].p.bootable)
    i++;
if (i != 1)
my_warn_("You have %d active primary partitions. This does not matter for LILO,\n"
    "but the DOS MBR will only boot a disk with 1 active partition.\n"),
    i);

    close(fd);
}

static void
set_unhidden(struct disk_desc *z, char *pnam) {
    int pno;
    unsigned char id;

    pno = asc_to_index(pnam, z);
    id = z->partitions[pno].p.sys_type;
    if (id == 0x11 || id == 0x14 || id == 0x16 || id == 0x17)
        id -= 0x10;
    else

```

```

errx(EXIT_FAILURE, _("partition %s has id %x and is not hidden"), pnam, id);
    z->partitions[pno].p.sys_type = id;
}

/*
 * maybe remove and make part of --change-id
 */
static void
do_unhide(char **av, int ac, char *arg) {
    char *dev = av[0];
    int fd, rw, i;
    struct disk_desc *z;

    z = &oldp;

    rw = !no_write;
    fd = my_open(dev, rw, 0);

    free_sectors();
    get_cylindersize(dev, fd, 1);
    get_partitions(dev, fd, z);

    /* unhide where desired */
    if (ac == 1)
        set_unhidden(z, arg);
    else
        for (i = 1; i < ac; i++)
            set_unhidden(z, av[i]);

    /* then write to disk */
    if (write_partitions(dev, fd, z))
        my_warn(_("Done\n\n"));
    else
        exit_status = 1;

    close(fd);
}

static void
do_change_id(char *dev, char *pnam, char *id) {
    int fd, rw, pno;
    struct disk_desc *z;
    unsigned long i;

    z = &oldp;

    rw = !no_write;
    fd = my_open(dev, rw, 0);

```

```

free_sectors();
get_cylindersize(dev, fd, 1);
get_partitions(dev, fd, z);

pno = asc_to_index(pnam, z);
if (id == 0) {
printf("%x\n", z->partitions[pno].p.sys_type);
goto done;
}
i = strtoul(id, NULL, 16);
if (i > 255)
errx(EXIT_FAILURE, _("Bad Id %lx"), i);
z->partitions[pno].p.sys_type = i;

if (write_partitions(dev, fd, z))
my_warn(_("Done\n\n"));
else
exit_status = 1;

done:
close(fd);
}

static void
do_reread(char *dev) {
int fd;

fd = my_open(dev, 0, 0);
if (reread_ioctl(fd)) {
warnx(_("This disk is currently in use.\n"));
exit(1);
}

close(fd);
}

/*
* I. Writing the new situation
*/

static void
do_fdisk(char *dev) {
int fd;
int c, answer;
struct stat statbuf;
int interactive = isatty(0);
struct disk_desc *z;

```

```

    if (stat(dev, &statbuf) < 0) {
perror(dev);
errx(EXIT_FAILURE, _("Fatal error: cannot find %s"), dev);
    }
    if (!S_ISBLK(statbuf.st_mode)) {
warnx(_("Warning: %s is not a block device\n"), dev);
no_reread = 1;
    }
    fd = my_open(dev, !no_write, 0);

    if (!no_write && !no_reread) {
my_warn(_("Checking that no-one is using this disk right now ... \n"));
if (reread_ioctl(fd)) {
    warnx(_(" \nThis disk is currently in use - repartitioning is probably a bad idea.\n"
        "Umount all file systems, and swapoff all swap partitions on this disk.\n"
        "Use the --no-reread flag to suppress this check.\n"));
    if (!force) {
warnx(_("Use the --force flag to overrule all checks.\n"));
exit(1);
    }
} else
    my_warn(_("OK\n"));
}

    z = &oldp;

    free_sectors();
    get_cylindersize(dev, fd, 0);
    get_partitions(dev, fd, z);

    printf(_("Old situation:\n"));
    out_partitions(dev, z);

    if (one_only && (one_only_pno = linux_to_index(one_only, z)) < 0)
        errx(EXIT_FAILURE, _("Partition %d does not exist, cannot change it"), one_only);

    z = &newp;

    while (1) {

read_input(dev, interactive, z);

    printf(_("New situation:\n"));
    out_partitions(dev, z);

    if (!partitions_ok(fd, z) && !force) {
        if (!interactive)

```



```

errx(EXIT_FAILURE, _("I don't like these partitions - nothing changed.\n"
    "(If you really want this, use the --force option.)"));
    else
warnx(_("I don't like this - probably you should answer No\n"));
}
ask:
if (interactive) {
    if (no_write)
printf(_("Are you satisfied with this? [ynq] "));
    else
printf(_("Do you want to write this to disk? [ynq] "));
    answer = c = getchar();
    while (c != '\n' && c != EOF)
c = getchar();
    if (c == EOF)
printf(_("\nsfdisk: premature end of input\n"));
    if (c == EOF || answer == 'q' || answer == 'Q') {
errx(EXIT_FAILURE, _("Quitting - nothing changed"));
    } else if (answer == 'n' || answer == 'N') {
continue;
    } else if (answer == 'y' || answer == 'Y') {
break;
    } else {
printf(_("Please answer one of y,n,q\n"));
goto ask;
    }
} else
    break;
}

    if (write_partitions(dev, fd, z))
printf(_("Successfully wrote the new partition table\n\n"));
    else
exit_status = 1;

    if (!reread_disk_partition(dev, fd)) { /* close fd on success */
close(fd);
exit_status = 1;
    }
    my_warn(_("If you created or changed a DOS partition, /dev/foo7, say, then use dd(1)\n"
        "to zero the first 512 bytes: dd if=/dev/zero of=/dev/foo7 bs=512 count=1\n"
        "(See fdisk(8).)\n"));

    sync(); /* superstition */
    exit(exit_status);
}
/*
* Copyright (C) 2010 Davidlohr Bueso <dave@gnu.org>

```

```
*
* This file may be redistributed under the terms of the
* GNU Lesser General Public License.
*
* General memory allocation wrappers for malloc, realloc, calloc and strdup
*/
```

```
#ifndef UTIL_LINUX_XALLOC_H
#define UTIL_LINUX_XALLOC_H
```

```
#include <stdlib.h>
#include <string.h>
```

```
#include "c.h"
```

```
#ifndef XALLOC_EXIT_CODE
# define XALLOC_EXIT_CODE EXIT_FAILURE
#endif
```

```
static inline __ul_alloc_size(1)
void *xmalloc(const size_t size)
{
    void *ret = malloc(size);

    if (!ret && size)
        err(XALLOC_EXIT_CODE, "cannot allocate %zu bytes", size);
    return ret;
}
```

```
static inline __ul_alloc_size(2)
void *xrealloc(void *ptr, const size_t size)
{
    void *ret = realloc(ptr, size);

    if (!ret && size)
        err(XALLOC_EXIT_CODE, "cannot allocate %zu bytes", size);
    return ret;
}
```

```
static inline __ul_calloc_size(1, 2)
void *xcalloc(const size_t nelems, const size_t size)
{
    void *ret = calloc(nelems, size);

    if (!ret && size && nelems)
        err(XALLOC_EXIT_CODE, "cannot allocate %zu bytes", size);
    return ret;
}
```

```

static inline char *xstrdup(const char *str)
{
    char *ret;

    if (!str)
        return NULL;

    ret = strdup(str);

    if (!ret)
        err(XALLOC_EXIT_CODE, "cannot duplicate string");
    return ret;
}

```

#endif

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Version 3, 29 June 2007

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Version 2, June 1991

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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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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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.

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

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

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```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision 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.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

1.180 skia unknown :jellybean

1.180.1 Available under license :

```
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1.191 testrunner-1.1 1.1

1.192 testrunner-runtime-1.1 1.1

1.193 tinyxml 2.4 :ICS

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1.195 v8 3.9.24 :jellybean

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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.

In other cases, permission to use a particular library in non-free

programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"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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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- 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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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.

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.

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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise

permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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.

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- 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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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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.

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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 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.

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) 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.
- c) 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.
- d) 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 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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Version 2.0, January 2004

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```

```
/*
Some improvements suggested by:
Phil Endecott and Frank Gennari
Cygwin fix provided by:
Scott McMurray
*/
```

```
=====

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//  
// See http://www.boost.org/libs/smart\_ptr/scoped\_ptr.htm for documentation.  
//
```

```
// scoped_ptr mimics a built-in pointer except that it guarantees deletion  
// of the object pointed to, either on destruction of the scoped_ptr or via  
// an explicit reset(). scoped_ptr is a simple solution for simple needs;  
// use shared_ptr or std::auto_ptr if your needs are more complex.
```

```
// scoped_ptr_malloc added in by Google. When one of  
// these goes out of scope, instead of doing a delete or delete[], it  
// calls free(). scoped_ptr_malloc<char> is likely to see much more  
// use than any other specializations.
```

```
// release() added in by Google. Use this to conditionally  
// transfer ownership of a heap-allocated object to the caller, usually on  
// method success.
```

```
=====  
/*  
* Written by Wilco Dijkstra, 1996.  
* Refer to NOTICE file at the root of git project.  
*  
* Minor modifications in code style for WebRTC, 2012.  
*/
```

```
// The following email record is related to source files spl_sqrt_floor.c  
// and spl_sqrt_floor.s in trunk/src/common_audio/signal_processing/.  
//  
//  
// From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>  
// Date: Fri, Jun 24, 2011 at 3:20 AM
```

```
// Subject: Re: sqrt routine
// To: Kevin Ma <kma@google.com>
// Hi Kevin,
// Thanks for asking. Those routines are public domain (originally posted to
// comp.sys.arm a long time ago), so you can use them freely for any purpose.
// Cheers,
// Wilco
//
// ----- Original Message -----
// From: "Kevin Ma" <kma@google.com>
// To: <Wilco.Dijkstra@ntlworld.com>
// Sent: Thursday, June 23, 2011 11:44 PM
// Subject: Fwd: sqrt routine
// Hi Wilco,
// I saw your sqrt routine from several web sites, including
// http://www.finesse.demon.co.uk/steven/sqrt.html.
// Just wonder if there's any copyright information with your Successive
// approximation routines, or if I can freely use it for any purpose.
// Thanks.
// Kevin
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```

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#
#
# If you don't need to do a full clean build but would like to touch
# a file or delete some intermediate files, add a clean step to the end
# of the list. These steps will only be run once, if they haven't been
# run before.
#
# E.g.:
#   $(call add-clean-step, touch -c external/sqlite/sqlite3.h)
#   $(call add-clean-step, rm -rf $(PRODUCT_OUT)/obj/STATIC_LIBRARIES/libz_intermediates)
#
# Always use "touch -c" and "rm -f" or "rm -rf" to gracefully deal with
# files that are missing or have been moved.
#
# Use $(PRODUCT_OUT) to get to the "out/target/product/blah/" directory.
# Use $(OUT_DIR) to refer to the "out" directory.
#
# If you need to re-do something that's already mentioned, just copy
# the command and add it to the bottom of the list. E.g., if a change
# that you made last week required touching a file and a change you
# made today requires touching the same file, just copy the old
# touch step and add it to the end of the list.
#
# *****
```

```
# NEWER CLEAN STEPS MUST BE AT THE END OF THE LIST
# *****

# For example:
#$(call add-clean-step, rm -rf $(OUT_DIR)/target/common/obj/APPS/AndroidTests_intermediates)
#$(call add-clean-step, rm -rf $(OUT_DIR)/target/common/obj/JAVA_LIBRARIES/core_intermediates)
#$(call add-clean-step, find $(OUT_DIR) -type f -name "IGTalkSession*" -print0 | xargs -0 rm -f)
#$(call add-clean-step, rm -rf $(PRODUCT_OUT)/data/*)
```

```
# *****
# NEWER CLEAN STEPS MUST BE AT THE END OF THE LIST
# *****
/**
```

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*/

```
package org.jheer;
```

```
//import java.io.PrintWriter;
import java.io.FileWriter;
import java.io.IOException;
import java.util.ArrayList;
```

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