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

#### HISTORY -

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

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

Some other contributors:

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

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

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## 1.12 Dagger 1.2.5

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```

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# 1.43 external/crcalc 24r4

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## 1.47 external/dhcpd 24r4

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Theodore Ts'o  
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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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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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<signature of Ty Coon>, 1 April 1989
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```

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```

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<html>
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
```

```
<title>ICU License - ICU 1.8.1 and later</title>
```

```
<link type="text/css" href="/icu4c.css" rel="stylesheet">
```

```
</head>
```

```
<body BGCOLOR="#ffffff">
```

```
<h2>ICU License - ICU 1.8.1 and later</h2>
```

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#

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</pre>

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<pre>

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#

# Project: <http://code.google.com/p/lao-dictionary/>

# Dictionary: <http://lao-dictionary.googlecode.com/git/Lao-Dictionary.txt>

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```
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#
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# -----
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# -----
</pre>
```

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```
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#
# This list is part of a project hosted at:
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# -----
</pre>
```

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<pre>

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</body>

</html>

## 1.85 external/iperf 24r4

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sha2.h

Version 1.0.0beta1

Written by Aaron D. Gifford <me@aarongifford.com>

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## 1.88 external/iptables 24r4

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## 1.91 external/javaxsqlite 24r4

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==> engine/src/ogre/com/jme3/scene/plugins/ogre/matext/OgreMaterialKey.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/MaterialLoader.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/UVCoordinatesGenerator.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/TextureGeneratorMagic.java <==
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==> engine/src/blender/com/jme3/scene/plugins/blender/textures/TextureGeneratorDistnoise.java <==
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 */
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/TextureGeneratorWood.java <==
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 *
 * $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:
* <li> DXT1
* <li> DXT3
* <li> DXT5
* Not yet supported (but will be):
* <li> 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> RGB111110F:
* <li> RGB16:
* <li> RGB16F:
* <li> RGB16F_to_RGB111110F:
* <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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```

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*/
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```
==> engine/src/blender/com/jme3/scene/plugins/blender/textures/TextureGenerator.java <==
```

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*/
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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/BlenderModelLoader.java <==

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==> engine/src/blender/com/jme3/scene/plugins/blender/BlenderLoader.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/IAlphaMask.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/DynamicArray.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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```

```
*/
```

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/**
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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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/*
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```

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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/PhysicsGhostObject.java <==
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```

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*/  
==> engine/src/jbullet/com/jme3/bullet/objects/VehicleWheel.java <==  
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*/
==> engine/src/jbullet/com/jme3/bullet/objects/PhysicsVehicle.java <==
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*/  
==> engine/src/jbullet/com/jme3/bullet/objects/PhysicsRigidBody.java <==  
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==> engine/src/jbullet/com/jme3/bullet/PhysicsSpace.java <==  
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*/
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*/
==> engine/src/jbullet/com/jme3/bullet/collision/PhysicsCollisionEventFactory.java <==
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*/
==> engine/src/jbullet/com/jme3/bullet/collision/PhysicsSweepTestResult.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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*/
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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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==> engine/src/jbullet/com/jme3/bullet/collision/shapes/PlaneCollisionShape.java <==
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/*
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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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/**
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* @author normenhansen
```

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*/
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==> engine/src/jbullet/com/jme3/bullet/collision/shapes/SphereCollisionShape.java <==
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==> engine/src/jbullet/com/jme3/bullet/collision/shapes/ConeCollisionShape.java <==
/*
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*/
/**
*
* @author normenhansen
*/
==> engine/src/jbullet/com/jme3/bullet/util/DebugShapeFactory.java <==
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```
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```
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```

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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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*/
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/**
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*
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```
==> engine/src/jbullet/com/jme3/bullet/joints/motors/TranslationalLimitMotor.java <==
```

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```

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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 <==
/**
* Released under BSD License
* @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.<br/>
* 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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==> engine/src/desktop/jme3tools/converters/MipMapGenerator.java <==
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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
* and open the template in the editor.
*/
/**
*
* @author normenhansen
*/
==> engine/src/desktop/jme3tools/navigation/Coordinate.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
* 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 <==
```

```
/*
```

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

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

```
*/
```

```
/**
```

```
*
```

```
* @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/ImageBasedHeightMap.java <==
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==> engine/src/terrain/com/jme3/terrain/heightmap/FluidSimHeightMap.java <==
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==> engine/src/terrain/com/jme3/terrain/heightmap/HeightMap.java <==
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/**
==> engine/src/terrain/com/jme3/terrain/heightmap/ParticleDepositionHeightMap.java <==
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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
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==> 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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* @author Anthyon
*/
==> engine/src/terrain/com/jme3/terrain/noise/filter/PerturbFilter.java <==
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*
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* @author Anthyon
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*/
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```
==> engine/src/terrain/com/jme3/terrain/noise/filter/SmoothFilter.java <==
```

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* @author Anthyon
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*/
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```
==> engine/src/terrain/com/jme3/terrain/noise/Color.java <==
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*
* @author Anthyon
*/
/**
* 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
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==> engine/src/terrain/com/jme3/terrain/noise/Basis.java <==
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==> 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
 */
==> engine/src/terrain/com/jme3/terrain/noise/modulator/Modulator.java <==
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\* @author Anthony

\*/

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

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\* @author Anthony

\*/

/\*\*

\* 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
*/
==> 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.
 ==> engine/src/terrain/com/jme3/terrain/noise/fractal/FractalSum.java <==
 */
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* @author Anthyon
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==> engine/src/terrain/com/jme3/terrain/geomipmap/NormalRecalcControl.java <==
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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/SimpleLodThreshold.java <==

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==> engine/src/terrain/com/jme3/terrain/geomipmap/lodcalc/LodPerspectiveCalculatorFactory.java <==

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==> engine/src/terrain/com/jme3/terrain/geomipmap/loddcalc/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/loddcalc/LodDistanceCalculatorFactory.java <==
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==> engine/src/terrain/com/jme3/terrain/geomipmap/loddcalc/LodCalculatorFactory.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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==> engine/src/terrain/com/jme3/terrain/geomipmap/TerrainPatch.java <==

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\*/

==> engine/src/terrain/com/jme3/terrain/geomipmap/LRUCache.java <==

/\*\*

\* An LRU cache, based on `LinkedHashMap`.

\*

\* `<p>`

\* This cache has a fixed maximum number of elements (`cacheSize`).

\* 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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*/
==> 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
* and open the template in the editor.
*/
/**
*
* @author Anthyon, normenhansen
*/
==> engine/src/terrain/com/jme3/terrain/geomipmap/grid/AssetTileLoader.java <==
/*
* 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/lwjgl/com/jme3/system/lwjgl/LwjglContext.java <==
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*/
==> engine/src/lwjgl/com/jme3/system/lwjgl/LwjglTimer.java <==

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==> engine/src/lwjgl/com/jme3/system/lwjgl/LwjglOffscreenBuffer.java <==
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==> engine/src/lwjgl/com/jme3/audio/lwjgl/LwjglAudioRenderer.java <==
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==> engine/src/lwjgl/com/jme3/renderer/lwjgl/LwjglRenderer.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/LwjglMouseInput.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/package.html <==
==> engine/src/networking/com/jme3/network/Network.java <==
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==> engine/src/networking/com/jme3/network/kernel/package.html <==
==> engine/src/networking/com/jme3/network/kernel/Kernel.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/SelectorKernel.java <==
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==> engine/src/networking/com/jme3/network/kernel/NamedThreadFactory.java <==
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==> engine/src/networking/com/jme3/network/rmi/RmiSerializer.java <==
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==> engine/src/networking/com/jme3/network/rmi/LocalObject.java <==
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==> engine/src/networking/com/jme3/network/rmi/ObjectStore.java <==
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==> engine/src/networking/com/jme3/network/rmi/RemoteObjectDefMessage.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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/**
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```
==> engine/src/networking/com/jme3/network/serializing/Serializer.java <==
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```
==> engine/src/networking/com/jme3/network/Client.java <==
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==> engine/src/networking/com/jme3/network/MessageListener.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/TcpConnectorFactory.java <==

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==> engine/src/networking/com/jme3/network/base/MessageProtocol.java <==
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==> engine/src/networking/com/jme3/network/base/DefaultClient.java <==
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```

```
*/
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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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```

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*/
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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/Filters.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.
*/
==> 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 Rémy 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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*/
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```
==> engine/src/core/com/jme3/animation/BoneAnimation.java <==
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*/
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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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==> engine/src/core/com/jme3/animation/AnimControl.java <==
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```
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```

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*/
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```
==> engine/src/core/com/jme3/animation/CompactArray.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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==> 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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*/
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/**
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```
==> engine/src/core/com/jme3/animation/AnimChannel.java <==
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```
==> engine/src/core/com/jme3/system/JmeSystemDelegate.java <==
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/\*\*

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==> engine/src/core/com/jme3/system/JmeSystem.java <==
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/**
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==> engine/src/core/com/jme3/system/NullRenderer.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
*/
==> engine/src/core/com/jme3/audio/LowPassFilter.java <==
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*/
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==> engine/src/core/com/jme3/audio/AudioStream.java <==
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```

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*/
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```
==> engine/src/core/com/jme3/audio/AudioRenderer.java <==
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\*/

==> engine/src/core/com/jme3/audio/AudioContext.java <==

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/**
==> engine/src/core/com/jme3/audio/Environment.java <==
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==> engine/src/core/com/jme3/audio/Listener.java <==
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==> engine/src/core/com/jme3/audio/AudioBuffer.java <==
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==> engine/src/core/com/jme3/shadow/PssmShadowUtil.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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*/
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```
==> engine/src/core/com/jme3/renderer/queue/OpaqueComparator.java <==
```

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*/
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==> engine/src/core/com/jme3/renderer/queue/GeometryList.java <==
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==> engine/src/core/com/jme3/renderer/queue/RenderQueue.java <==
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```

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*/
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```
==> engine/src/core/com/jme3/renderer/RenderContext.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 GL1Renderer 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/renderer/ViewPort.java <==
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*/
==> engine/src/core/com/jme3/math/Spline.java <==
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
/**
*
* @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/Matrix4f.java <==
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==> engine/src/core/com/jme3/math/FastMath.java <==
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==> engine/src/core/com/jme3/math/Vector4f.java <==
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==> engine/src/core/com/jme3/math/Plane.java <==
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==> engine/src/core/com/jme3/math/Rectangle.java <==
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==> engine/src/core/com/jme3/math/ColorRGBA.java <==
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/**
==> engine/src/core/com/jme3/collision/CollisionResult.java <==
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==> engine/src/core/com/jme3/collision/bih/BIHTree.java <==
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*/
==> engine/src/core/com/jme3/collision/bih/BIHTriangle.java <==
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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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*/
/**
==> 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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*/
==> 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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*/
==> engine/src/core/com/jme3/font/Rectangle.java <==
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/**
==> engine/src/core/com/jme3/font/BitmapFont.java <==
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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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*/
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```
==> engine/src/core/com/jme3/texture/FrameBuffer.java <==
```

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*/
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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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*/
==> engine/src/core/com/jme3/texture/Texture2D.java <==
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*/
==> engine/src/core/com/jme3/texture/TextureCubeMap.java <==
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*/
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```
==> engine/src/core/com/jme3/util/BufferUtils.java <==
```

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*/
```

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

```
/**
```

```
* SkyFactory 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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\*/

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

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

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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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*/
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```
==> engine/src/core/com/jme3/util/NativeObject.java <==
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/**
==> engine/src/core/com/jme3/util/LittleEndien.java <==
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==> engine/src/core/com/jme3/util/SortUtil.java <==
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==> engine/src/core/com/jme3/util/ListMap.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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==> engine/src/core/com/jme3/material/MaterialList.java <==
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==> engine/src/core/com/jme3/material/FixedFuncBinding.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/export/Savable.java <==
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*/
==> engine/src/core/com/jme3/asset/package.html <==
==> 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/AssetLoader.java <==
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```
==> engine/src/core/com/jme3/asset/ThreadingManager.java <==
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==> engine/src/core/com/jme3/asset/AssetInfo.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 <==
/**
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*

```

```

* @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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*/
==> engine/src/core/com/jme3/app/package.html <==
==> 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/SimpleApplication.java <==
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*/
==> engine/src/core/com/jme3/app/StatsAppState.java <==
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*/
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==> engine/src/core/com/jme3/app/FlyCamAppState.java <==
```

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==> engine/src/core/com/jme3/app/Application.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/ParticlePointMesh.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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```

```

==> 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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/**
==> engine/src/core/com/jme3/shader/Shader.java <==
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==> engine/src/core/com/jme3/shader/Uniform.java <==
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==> engine/src/core/com/jme3/shader/ShaderKey.java <==
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==> engine/src/core/com/jme3/scene/mesh/WrappedIndexBuffer.java <==
/**
* <code>WrappedIndexBuffer</code> 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

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* 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

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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/SkeletonDebugger.java <==
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==> engine/src/core/com/jme3/scene/debug/WireBox.java <==
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==> engine/src/core/com/jme3/scene/debug/WireSphere.java <==
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==> engine/src/core/com/jme3/scene/debug/Arrow.java <==
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*/
```

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

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/*
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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/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/Spatial.java <==
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==> engine/src/core/com/jme3/scene/Node.java <==
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*/
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```
==> engine/src/core/com/jme3/scene/LightNode.java <==
```

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```

```
*/
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```
==> engine/src/core/com/jme3/scene/SceneGraphVisitor.java <==
```

```
/**
```

```
* SceneGraphVisitorAdapter 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/Control.java <==
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==> engine/src/core/com/jme3/input/TouchInput.java <==
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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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*/
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```
==> engine/src/core/com/jme3/input/controls/Trigger.java <==
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*/
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/**
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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/JoyButtonTrigger.java <==
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==> engine/src/core/com/jme3/input/controls/KeyTrigger.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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*/
/**
 * <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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```
==> 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/InputManager.java <==

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

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/**
==> engine/src/core/com/jme3/input/FlyByCamera.java <==
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==> engine/src/core/com/jme3/input/JoyInput.java <==
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/**
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```
==> engine/src/core/com/jme3/input/ChaseCamera.java <==
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==> engine/src/core/com/jme3/bounding/OrientedBoundingBox.java <==
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/**
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```
==> engine/src/core/com/jme3/bounding/Intersection.java <==
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==> engine/src/core/com/jme3/bounding/BoundingSphere.java <==
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==> engine/src/core/com/jme3/bounding/BoundingVolume.java <==
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==> engine/src/core/com/jme3/bounding/BoundingBox.java <==

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==> engine/src/core/com/jme3/cinematic/PlayState.java <==

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```

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

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*/
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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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```

```
*/
```

```
==> 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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```

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*/
==> engine/src/core/com/jme3/cinematic/events/CinematicEventListener.java <==
/*
* To change this template, choose Tools | Templates
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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/cinematic/events/AnimationTrack.java <==
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*/
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==> engine/src/core/com/jme3/post/package.html <==
==> engine/src/core/com/jme3/post/Filter.java <==
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==> engine/src/core/com/jme3/post/FilterPostProcessor.java <==
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*/
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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/LightList.java <==
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*/
==> engine/src/core/com/jme3/light/DirectionalLight.java <==
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```

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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: (II)J
*/
/*
* Class:   com_jme3_bullet_joints_SixDofJoint
* Method:  getTranslationalLimitMotor
* Signature: (JJ)
*/
/*
* 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
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==> 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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/*
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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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/**
 * 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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```

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/**
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* Author: Normen Hansen
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*/
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```
==> engine/src/bullet-native/com_jme3_bullet_objects_PhysicsRigidBody.cpp <==
```

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/*
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/**
 * Author: Normen Hansen
 */
==> engine/src/bullet-native/com_jme3_bullet_objects_PhysicsGhostObject.cpp <==
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/**
* Author: Normen Hansen
*/
==> 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
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==> 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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*/
/**
 * Author: Normen Hansen
 */
==> 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

\*/

==> engine/src/bullet-native/com\_jme3\_bullet\_collision\_shapes\_MeshCollisionShape.cpp <==

/\*

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\*/

/\*\*

\* Author: Normen Hansen

\*/

==> 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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```

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*/
/**
```

```
* Author: Normen Hansen
```

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*/
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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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```

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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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 */
/**

```

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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/renderer/android/Android22Workaround.java <==
==> engine/src/android/com/jme3/renderer/android/OGLESShaderRenderer.java <==
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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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==> engine/src/android/jme3test/android/TestMovingParticle.java <==
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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/TestSkyLoadingPrimitives.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 `FIXED_POINT`

\* `</code>`, which would also require `SIN_PRECALC` and `COS_PRECALC`

\* `updating`).

\*

\* <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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==> engine/src/core-plugins/com/jme3/export/binary/BinaryInputCapsule.java <==
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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/asset/plugins/UrlLocator.java <==
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```
*/
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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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```

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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/DOMInputCapsule.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/OGGLoader.java <==
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==> engine/src/jogg/com/jme3/audio/plugins/CachedOggStream.java <==
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\*/

==> engine/src/jogg/com/jme3/audio/plugins/UncachedOggStream.java <==

/\*

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\*/

==> engine/src/core-data/Common/ShaderLib/Fog.glslib <==

==> engine/src/core-data/Common/ShaderLib/Common.glslib <==

==> engine/src/core-data/Common/ShaderLib/Bump.glslib <==

==> engine/src/core-data/Common/ShaderLib/Texture.glslib <==

==> engine/src/core-data/Common/ShaderLib/Shadow.glslib <==

==> engine/src/core-data/Common/ShaderLib/Tangent.glslib <==

==> engine/src/core-data/Common/ShaderLib/MultiSample.glslib <==

==> engine/src/core-data/Common/ShaderLib/Math.glslib <==

==> engine/src/core-data/Common/ShaderLib/Hdr.glslib <==

==> 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 <==  
==> 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 <==

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==> 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/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/IntVec.java <==

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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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*/
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==> engine/src/tools/jme3tools/converters/model/strip/Stripifier.java <==
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==> engine/src/bullet-common/com/jme3/bullet/BulletAppState.java <==
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/**
* <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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*/
/**
* 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 <==

```

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/*
 * To change this template, choose Tools | Templates
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 */
/**
 *
 * @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
* and open the template in the editor.
*/
/**
*
* @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
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*/
/**
*
* @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 <==
==> 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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 */
==> engine/src/core-effects/com/jme3/water/ReflectionProcessor.java <==
/*
 * To change this template, choose Tools | Templates
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 */
/**
 * 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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```

```
*/
```

```
==> 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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```

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==> engine/src/core-effects/com/jme3/post/filters/FadeFilter.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
SSAOFiler
* 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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*/
==> engine/src/core-effects/com/jme3/post/filters/DepthOfFieldFilter.java <==
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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="domtooltipspan11">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>
 *
 * @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/SoundHandleJme.java <==
/*

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

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*/
==> engine/src/niftygui/com/jme3/niftygui/RenderFontJme.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/objects/VehicleWheel.java <==
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==> engine/src/bullet/com/jme3/bullet/objects/PhysicsCharacter.java <==
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==> engine/src/bullet/com/jme3/bullet/objects/PhysicsRigidBody.java <==
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==> engine/src/bullet/com/jme3/bullet/PhysicsSpace.java <==
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 */
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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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 */
==> engine/src/bullet/com/jme3/bullet/collision/shapes/CompoundCollisionShape.java <==
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==> engine/src/bullet/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/bullet/com/jme3/bullet/collision/shapes/MeshCollisionShape.java <==
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==> engine/src/bullet/com/jme3/bullet/collision/shapes/PlaneCollisionShape.java <==
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/*
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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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*/
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/**
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*
```

```
* @author normenhansen
```

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*/
```

```
==> engine/src/bullet/com/jme3/bullet/collision/shapes/SphereCollisionShape.java <==
```

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==> engine/src/bullet/com/jme3/bullet/collision/shapes/ConeCollisionShape.java <==
/*
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/**
* @author normenhansen
*/
==> engine/src/bullet/com/jme3/bullet/util/DebugShapeFactory.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/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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* To change this template, choose Tools | Templates
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*/
/**
 *
 * @author Nehon
 */
==> engine/src/test/jme3test/animation/TestCinematic.java <==
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==> engine/src/test/jme3test/helloworld/HelloTerrain.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/HelloPicking.java <==
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==> engine/src/test/jme3test/helloworld/HelloAssets.java <==

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==> engine/src/test/jme3test/helloworld/HelloAnimation.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/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/renderer/TestParallelProjection.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/TestChooser.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/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/TestUnshadedModel.java <==
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==> 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/TestBatchLod.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/asset/TestOnlineJar.java <==
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==> engine/src/test/jme3test/asset/TestAbsoluteLocators.java <==
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==> engine/src/test/jme3test/app/TestIDList.java <==
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```
==> engine/src/test/jme3test/app/TestTempVars.java <==
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```
==> engine/src/test/jme3test/app/state/RootNodeState.java <==
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==> engine/src/test/jme3test/app/state/TestAppStates.java <==
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==> engine/src/test/jme3test/app/TestChangeAppIcon.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/awt/AppHarness.java <==

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==> engine/src/test/jme3test/batching/TestBatchNode.java <==
/*
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 */
/**
 *
 * @author Nehon
 */
==> engine/src/test/jme3test/batching/TestBatchNodeTower.java <==
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==> engine/src/test/jme3test/batching/TestBatchNodeCluster.java <==
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==> engine/src/test/jme3test/tools/TestTextureAtlas.java <==
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==> engine/src/test/jme3test/tools/TestOctree.java <==
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==> engine/src/test/jme3test/conversion/TestMipMapGen.java <==
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==> engine/src/test/jme3test/conversion/TestTriangleStrip.java <==
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==> engine/src/test/jme3test/niftygui/TestNiftyGui.java <==
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==> engine/src/test/jme3test/effect/TestEverything.java <==
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==> engine/src/test/jme3test/effect/TestMovingParticle.java <==
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==> engine/src/test/jme3test/effect/TestPointSprite.java <==
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==> engine/src/test/jme3test/bullet/TestQ3.java <==
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==> engine/src/test/jme3test/bullet/TestSimplePhysics.java <==
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*/
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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 <==
/*
* To change this template, choose Tools | Templates
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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/BombControl.java <==

```

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 */
/**
 *
 * @author normenhansen
 */

```

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==> engine/src/test/jme3test/bullet/PhysicsHoverControl.java <==

```

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==> engine/src/test/jme3test/bullet/TestRagDoll.java <==
/*
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*/
/**
*
* @author normenhansen
*/
==> engine/src/test/jme3test/bullet/TestBrickTower.java <==
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==> engine/src/test/jme3test/bullet/TestPhysicsHingeJoint.java <==
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==> engine/src/test/jme3test/bullet/TestPhysicsReadWrite.java <==
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*
* @author Nehon
*/
==> engine/src/test/jme3test/bullet/TestCollisionListener.java <==
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==> engine/src/test/jme3test/scene/TestSceneLoading.java <==
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==> engine/src/test/jme3test/scene/TestUserData.java <==

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==> engine/src/test/jme3test/input/TestControls.java <==

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==> engine/src/test/jme3test/input/combomoves/ComboMoveExecution.java <==

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==> engine/src/test/jme3test/input/combomoves/TestComboMoves.java <==

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==> engine/src/test/jme3test/input/TestChaseCamera.java <==
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```
==> engine/src/test/jme3test/input/TestJoystick.java <==
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==> engine/src/test/jme3test/bounding/TestRayCollision.java <==
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```
==> engine/src/test/jme3test/model/TestOgreLoading.java <==
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```
==> engine/src/test/jme3test/model/anim/TestOgreAnim.java <==
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==> engine/src/test/jme3test/model/anim/TestOgreComplexAnim.java <==
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==> engine/src/test/jme3test/model/anim/TestCustomAnim.java <==
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==> engine/src/test/jme3test/model/anim/TestAnimBlendBug.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/anim/TestBlenderObjectAnim.java <==
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```
==> engine/src/test/jme3test/model/shape/TestBillboard.java <==
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```
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```
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```
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```
==> engine/src/test/jme3test/post/TestRenderToTexture.java <==
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==> engine/src/test/jme3test/post/TestCrossHatch.java <==
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```
==> engine/src/test/jme3test/post/TestDepthOfField.java <==
/**
```

```
* test
* @author Nehon
*/
```

```
==> engine/src/test/jme3test/post/SSAOUI.java <==
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==> engine/src/test/jme3test/post/TestCartoonEdge.java <==
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==> engine/src/test/jme3test/post/TestLightScattering.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/light/TestSpotLightTerrain.java <==
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==> engine/src/test/jme3test/light/TestTransparentShadow.java <==

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==> engine/src/test/jme3test/light/TestTangentGenBadModels.java <==
/**
*
* @author Kirusha
*/
==> engine/src/test/jme3test/light/TestShadow.java <==
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==> engine/src/test/jme3test/light/TestEnvironmentMapping.java <==

/\*\*

\* test

\* @author nehon

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

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==> engine/src/test/jme3test/gui/TestOrtho.java <==
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# 1.100 external/jsilver 24r4

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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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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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.



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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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## 1.131 external/libusb-compat 24r4

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## 1.132 external/libutf 24r4

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```

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```

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```

```
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## 1.144 external/lz4 24r4

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```
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## 1.145 external/lzma 24r4

### 1.145.1 Available under license :

LZMA SDK 9.20

-----

LZMA SDK provides the documentation, samples, header files, libraries, and tools you need to develop applications that use LZMA compression.

LZMA is default and general compression method of 7z format in 7-Zip compression program ([www.7-zip.org](http://www.7-zip.org)). LZMA provides high compression ratio and very fast decompression.

LZMA is an improved version of famous LZ77 compression algorithm. It was improved in way of maximum increasing of compression ratio, keeping high decompression speed and low memory requirements for decompressing.

LICENSE

-----

LZMA SDK is written and placed in the public domain by Igor Pavlov.

Some code in LZMA SDK is based on public domain code from another developers:

- 1) PPMd var.H (2001): Dmitry Shkarin
- 2) SHA-256: Wei Dai (Crypto++ library)

## LZMA SDK Contents

-----

LZMA SDK includes:

- ANSI-C/C++/C#/Java source code for LZMA compressing and decompressing
- Compiled file->file LZMA compressing/decompressing program for Windows system

## UNIX/Linux version

-----

To compile C++ version of file->file LZMA encoding, go to directory

CPP/7zip/Bundles/LzmaCon

and call make to recompile it:

```
make -f makefile.gcc clean all
```

In some UNIX/Linux versions you must compile LZMA with static libraries.

To compile with static libraries, you can use

LIB = -lm -static

## Files

-----

lzma.txt - LZMA SDK description (this file)

7zFormat.txt - 7z Format description

7zC.txt - 7z ANSI-C Decoder description

methods.txt - Compression method IDs for .7z

lzma.exe - Compiled file->file LZMA encoder/decoder for Windows

7zr.exe - 7-Zip with 7z/lzma/xz support.

history.txt - history of the LZMA SDK

## Source code structure

-----

### C/ - C files

7zCrc\*. \* - CRC code

Alloc.\* - Memory allocation functions

Bra\*. \* - Filters for x86, IA-64, ARM, ARM-Thumb, PowerPC and SPARC code

LzFind.\* - Match finder for LZ (LZMA) encoders

LzFindMt.\* - Match finder for LZ (LZMA) encoders for multithreading encoding

LzHash.h - Additional file for LZ match finder

LzmaDec.\* - LZMA decoding

LzmaEnc.\* - LZMA encoding

LzmaLib.\* - LZMA Library for DLL calling

Types.h - Basic types for another .c files

Threads.\* - The code for multithreading.

LzmaLib - LZMA Library (.DLL for Windows)

LzmaUtil - LZMA Utility (file->file LZMA encoder/decoder).

Archive - files related to archiving

7z - 7z ANSI-C Decoder

CPP/ -- CPP files

Common - common files for C++ projects

Windows - common files for Windows related code

7zip - files related to 7-Zip Project

Common - common files for 7-Zip

Compress - files related to compression/decompression

Archive - files related to archiving

Common - common files for archive handling

7z - 7z C++ Encoder/Decoder

Bundles - Modules that are bundles of other modules

Alone7z - 7zr.exe: Standalone version of 7z.exe that supports only 7z/LZMA/BCJ/BCJ2

LzmaCon - lzma.exe: LZMA compression/decompression

Format7zR - 7zr.dll: Reduced version of 7za.dll: extracting/compressing to 7z/LZMA/BCJ/BCJ2

Format7zExtractR - 7zxr.dll: Reduced version of 7zxa.dll: extracting from 7z/LZMA/BCJ/BCJ2.

UI - User Interface files

Client7z - Test application for 7za.dll, 7zr.dll, 7zxr.dll

Common - Common UI files

Console - Code for console archiver

CS/ - C# files

7zip

Common - some common files for 7-Zip

Compress - files related to compression/decompression

LZ - files related to LZ (Lempel-Ziv) compression algorithm

LZMA - LZMA compression/decompression

LzmaAlone - file->file LZMA compression/decompression

RangeCoder - Range Coder (special code of compression/decompression)

Java/ - Java files

## SevenZip

- Compression - files related to compression/decompression
- LZ - files related to LZ (Lempel-Ziv) compression algorithm
- LZMA - LZMA compression/decompression
- RangeCoder - Range Coder (special code of compression/decompression)

C/C++ source code of LZMA SDK is part of 7-Zip project.

7-Zip source code can be downloaded from 7-Zip's SourceForge page:

<http://sourceforge.net/projects/sevenzip/>

## LZMA features

-----

- Variable dictionary size (up to 1 GB)
- Estimated compressing speed: about 2 MB/s on 2 GHz CPU
- Estimated decompressing speed:
  - 20-30 MB/s on 2 GHz Core 2 or AMD Athlon 64
  - 1-2 MB/s on 200 MHz ARM, MIPS, PowerPC or other simple RISC
- Small memory requirements for decompressing (16 KB + DictionarySize)
- Small code size for decompressing: 5-8 KB

LZMA decoder uses only integer operations and can be implemented in any modern 32-bit CPU (or on 16-bit CPU with some conditions).

Some critical operations that affect the speed of LZMA decompression:

- 1) 32\*16 bit integer multiply
- 2) Misspredicted branches (penalty mostly depends from pipeline length)
- 3) 32-bit shift and arithmetic operations

The speed of LZMA decompressing mostly depends from CPU speed. Memory speed has no big meaning. But if your CPU has small data cache, overall weight of memory speed will slightly increase.

## How To Use

-----

Using LZMA encoder/decoder executable

-----

Usage: LZMA <e|d> inputFile outputFile [<switches>...]

e: encode file

d: decode file

b: Benchmark. There are two tests: compressing and decompressing with LZMA method. Benchmark shows rating in MIPS (million instructions per second). Rating value is calculated from measured speed and it is normalized with Intel's Core 2 results. Also Benchmark checks possible hardware errors (RAM errors in most cases). Benchmark uses these settings: (-a1, -d21, -fb32, -mfbt4). You can change only -d parameter. Also you can change the number of iterations. Example for 30 iterations:  
LZMA b 30  
Default number of iterations is 10.

#### <Switches>

-a{N}: set compression mode 0 = fast, 1 = normal  
default: 1 (normal)

d{N}: Sets Dictionary size - [0, 30], default: 23 (8MB)  
The maximum value for dictionary size is 1 GB =  $2^{30}$  bytes.  
Dictionary size is calculated as  $\text{DictionarySize} = 2^N$  bytes.  
For decompressing file compressed by LZMA method with dictionary size  $D = 2^N$  you need about  $D$  bytes of memory (RAM).

-fb{N}: set number of fast bytes - [5, 273], default: 128  
Usually big number gives a little bit better compression ratio and slower compression process.

-lc{N}: set number of literal context bits - [0, 8], default: 3  
Sometimes  $lc=4$  gives gain for big files.

-lp{N}: set number of literal pos bits - [0, 4], default: 0  
lp switch is intended for periodical data when period is equal  $2^N$ . For example, for 32-bit (4 bytes) periodical data you can use  $lp=2$ . Often it's better to set  $lc=0$ , if you change lp switch.

-pb{N}: set number of pos bits - [0, 4], default: 2  
pb switch is intended for periodical data when period is equal  $2^N$ .

-mf{MF\_ID}: set Match Finder. Default: bt4.  
Algorithms from hc\* group doesn't provide good compression ratio, but they often works pretty fast in combination with fast mode (-a0).

Memory requirements depend from dictionary size (parameter "d" in table below).

| MF_ID | Memory | Description |
|-------|--------|-------------|
|-------|--------|-------------|

|     |                |                                   |
|-----|----------------|-----------------------------------|
| bt2 | d * 9.5 + 4MB  | Binary Tree with 2 bytes hashing. |
| bt3 | d * 11.5 + 4MB | Binary Tree with 3 bytes hashing. |
| bt4 | d * 11.5 + 4MB | Binary Tree with 4 bytes hashing. |
| hc4 | d * 7.5 + 4MB  | Hash Chain with 4 bytes hashing.  |

-eos: write End Of Stream marker. By default LZMA doesn't write eos marker, since LZMA decoder knows uncompressed size stored in .lzma file header.

-si: Read data from stdin (it will write End Of Stream marker).

-so: Write data to stdout

Examples:

1) LZMA e file.bin file.lzma -d16 -lc0

compresses file.bin to file.lzma with 64 KB dictionary ( $2^{16}=64K$ ) and 0 literal context bits. -lc0 allows to reduce memory requirements for decompression.

2) LZMA e file.bin file.lzma -lc0 -lp2

compresses file.bin to file.lzma with settings suitable for 32-bit periodical data (for example, ARM or MIPS code).

3) LZMA d file.lzma file.bin

decompresses file.lzma to file.bin.

Compression ratio hints

-----

Recommendations

-----

To increase the compression ratio for LZMA compressing it's desirable to have aligned data (if it's possible) and also it's desirable to locate data in such order, where code is grouped in one place and data is grouped in other place (it's better than such mixing: code, data, code, data, ...).

## Filters

-----

You can increase the compression ratio for some data types, using special filters before compressing. For example, it's possible to increase the compression ratio on 5-10% for code for those CPU ISAs: x86, IA-64, ARM, ARM-Thumb, PowerPC, SPARC.

You can find C source code of such filters in C/Bra\*.\* files

You can check the compression ratio gain of these filters with such 7-Zip commands (example for ARM code):

No filter:

```
7z a a1.7z a.bin -m0=lzma
```

With filter for little-endian ARM code:

```
7z a a2.7z a.bin -m0=arm -m1=lzma
```

It works in such manner:

Compressing = Filter\_encoding + LZMA\_encoding

Decompressing = LZMA\_decoding + Filter\_decoding

Compressing and decompressing speed of such filters is very high, so it will not increase decompressing time too much.

Moreover, it reduces decompression time for LZMA\_decoding, since compression ratio with filtering is higher.

These filters convert CALL (calling procedure) instructions from relative offsets to absolute addresses, so such data becomes more compressible.

For some ISAs (for example, for MIPS) it's impossible to get gain from such filter.

## LZMA compressed file format

-----

Offset Size Description

|    |   |  |
|----|---|--|
| 0  | 1 | Special LZMA properties (lc,lp, pb in encoded form)      |
| 1  | 4 | Dictionary size (little endian)                          |
| 5  | 8 | Uncompressed size (little endian). -1 means unknown size |
| 13 |   | Compressed data  |

## ANSI-C LZMA Decoder

~~~~~

Please note that interfaces for ANSI-C code were changed in LZMA SDK 4.58.

If you want to use old interfaces you can download previous version of LZMA SDK from [sourceforge.net](http://sourceforge.net) site.

To use ANSI-C LZMA Decoder you need the following files:

1) LzmaDec.h + LzmaDec.c + Types.h

LzmaUtil/LzmaUtil.c is example application that uses these files.

Memory requirements for LZMA decoding

-----

Stack usage of LZMA decoding function for local variables is not larger than 200-400 bytes.

LZMA Decoder uses dictionary buffer and internal state structure.

Internal state structure consumes

state\_size = (4 + (1.5 << (lc + lp))) KB

by default (lc=3, lp=0), state\_size = 16 KB.

How To decompress data

-----

LZMA Decoder (ANSI-C version) now supports 2 interfaces:

1) Single-call Decompressing

2) Multi-call State Decompressing (zlib-like interface)

You must use external allocator:

Example:

```
void *SzAlloc(void *p, size_t size) { p = p; return malloc(size); }
```

```
void SzFree(void *p, void *address) { p = p; free(address); }
```

```
ISzAlloc alloc = { SzAlloc, SzFree };
```

You can use p = p; operator to disable compiler warnings.

Single-call Decompressing

-----

When to use: RAM->RAM decompressing

Compile files: LzmaDec.h + LzmaDec.c + Types.h

Compile defines: no defines

Memory Requirements:

- Input buffer: compressed size

- Output buffer: uncompressed size

- LZMA Internal Structures: state\_size (16 KB for default settings)

Interface:

```
int LzmaDecode(Byte *dest, SizeT *destLen, const Byte *src, SizeT *srcLen,
```

```
const Byte *propData, unsigned propSize, ELzmaFinishMode finishMode,
```

```
ELzmaStatus *status, ISzAlloc *alloc);
```



In:

dest - output data  
destLen - output data size  
src - input data  
srcLen - input data size  
propData - LZMA properties (5 bytes)  
propSize - size of propData buffer (5 bytes)  
finishMode - It has meaning only if the decoding reaches output limit (\*destLen).  
    LZMA\_FINISH\_ANY - Decode just destLen bytes.  
    LZMA\_FINISH\_END - Stream must be finished after (\*destLen).  
        You can use LZMA\_FINISH\_END, when you know that  
        current output buffer covers last bytes of stream.  
alloc - Memory allocator.

Out:

destLen - processed output size  
srcLen - processed input size

Output:

SZ\_OK  
status:  
    LZMA\_STATUS\_FINISHED\_WITH\_MARK  
    LZMA\_STATUS\_NOT\_FINISHED  
    LZMA\_STATUS\_MAYBE\_FINISHED\_WITHOUT\_MARK  
SZ\_ERROR\_DATA - Data error  
SZ\_ERROR\_MEM - Memory allocation error  
SZ\_ERROR\_UNSUPPORTED - Unsupported properties  
SZ\_ERROR\_INPUT\_EOF - It needs more bytes in input buffer (src).

If LZMA decoder sees end\_marker before reaching output limit, it returns OK result, and output value of destLen will be less than output buffer size limit.

You can use multiple checks to test data integrity after full decompression:

- 1) Check Result and "status" variable.
- 2) Check that output(destLen) = uncompressedSize, if you know real uncompressedSize.
- 3) Check that output(srcLen) = compressedSize, if you know real compressedSize.

You must use correct finish mode in that case. \*/

Multi-call State Decompressing (zlib-like interface)

-----

When to use: file->file decompressing

Compile files: LzmaDec.h + LzmaDec.c + Types.h

Memory Requirements:

- Buffer for input stream: any size (for example, 16 KB)
- Buffer for output stream: any size (for example, 16 KB)

- LZMA Internal Structures: state\_size (16 KB for default settings)
- LZMA dictionary (dictionary size is encoded in LZMA properties header)

1) read LZMA properties (5 bytes) and uncompressed size (8 bytes, little-endian) to header:

```
unsigned char header[LZMA_PROPS_SIZE + 8];
ReadFile(inFile, header, sizeof(header))
```

2) Allocate CLzmaDec structures (state + dictionary) using LZMA properties

```
CLzmaDec state;
LzmaDec_Constr(&state);
res = LzmaDec_Allocate(&state, header, LZMA_PROPS_SIZE, &g_Alloc);
if (res != SZ_OK)
    return res;
```

3) Init LzmaDec structure before any new LZMA stream. And call LzmaDec\_DecodeToBuf in loop

```
LzmaDec_Init(&state);
for (;;)
{
    ...
    int res = LzmaDec_DecodeToBuf(CLzmaDec *p, Byte *dest, SizeT *destLen,
        const Byte *src, SizeT *srcLen, ELzmaFinishMode finishMode);
    ...
}
```

4) Free all allocated structures

```
LzmaDec_Free(&state, &g_Alloc);
```

For full code example, look at C/LzmaUtil/LzmaUtil.c code.

How To compress data

-----

Compile files: LzmaEnc.h + LzmaEnc.c + Types.h +  
LzFind.c + LzFind.h + LzFindMt.c + LzFindMt.h + LzHash.h

Memory Requirements:

- (dictSize \* 11.5 + 6 MB) + state\_size

Lzma Encoder can use two memory allocators:

- 1) alloc - for small arrays.
- 2) allocBig - for big arrays.

For example, you can use Large RAM Pages (2 MB) in allocBig allocator for better compression speed. Note that Windows has bad implementation for

Large RAM Pages.

It's OK to use same allocator for alloc and allocBig.

Single-call Compression with callbacks

-----

Check C/LzmaUtil/LzmaUtil.c as example,

When to use: file->file decompressing

1) you must implement callback structures for interfaces:

ISeqInStream

ISeqOutStream

ICompressProgress

ISzAlloc

```
static void *SzAlloc(void *p, size_t size) { p = p; return MyAlloc(size); }
static void SzFree(void *p, void *address) { p = p; MyFree(address); }
static ISzAlloc g_Alloc = { SzAlloc, SzFree };
```

```
CFileSeqInStream inStream;
```

```
CFileSeqOutStream outStream;
```

```
inStream.funcTable.Read = MyRead;
```

```
inStream.file = inFile;
```

```
outStream.funcTable.Write = MyWrite;
```

```
outStream.file = outFile;
```

2) Create CLzmaEncHandle object;

```
CLzmaEncHandle enc;
```

```
enc = LzmaEnc_Create(&g_Alloc);
```

```
if (enc == 0)
```

```
    return SZ_ERROR_MEM;
```

3) initialize CLzmaEncProps properties;

```
LzmaEncProps_Init(&props);
```

Then you can change some properties in that structure.

4) Send LZMA properties to LZMA Encoder

```
res = LzmaEnc_SetProps(enc, &props);
```

#### 5) Write encoded properties to header

```
Byte header[LZMA_PROPS_SIZE + 8];
size_t headerSize = LZMA_PROPS_SIZE;
UInt64 fileSize;
int i;

res = LzmaEnc_WriteProperties(enc, header, &headerSize);
fileSize = MyGetFileLength(inFile);
for (i = 0; i < 8; i++)
    header[headerSize++] = (Byte)(fileSize >> (8 * i));
MyWriteFileAndCheck(outFile, header, headerSize)
```

#### 6) Call encoding function:

```
res = LzmaEnc_Encode(enc, &outStream.funcTable, &inStream.funcTable,
    NULL, &g_Alloc, &g_Alloc);
```

#### 7) Destroy LZMA Encoder Object

```
LzmaEnc_Destroy(enc, &g_Alloc, &g_Alloc);
```

If callback function return some error code, LzmaEnc\_Encode also returns that code or it can return the code like SZ\_ERROR\_READ, SZ\_ERROR\_WRITE or SZ\_ERROR\_PROGRESS.

#### Single-call RAM->RAM Compression

-----

Single-call RAM->RAM Compression is similar to Compression with callbacks, but you provide pointers to buffers instead of pointers to stream callbacks:

```
HRes LzmaEncode(Byte *dest, SizeT *destLen, const Byte *src, SizeT srcLen,
    CLzmaEncProps *props, Byte *propsEncoded, SizeT *propsSize, int writeEndMark,
    ICompressProgress *progress, ISzAlloc *alloc, ISzAlloc *allocBig);
```

Return code:

```
SZ_OK          - OK
SZ_ERROR_MEM   - Memory allocation error
SZ_ERROR_PARAM - Incorrect paramater
SZ_ERROR_OUTPUT_EOF - output buffer overflow
SZ_ERROR_THREAD - errors in multithreading functions (only for Mt version)
```

Defines

-----

`_LZMA_SIZE_OPT` - Enable some optimizations in LZMA Decoder to get smaller executable code.

`_LZMA_PROB32` - It can increase the speed on some 32-bit CPUs, but memory usage for some structures will be doubled in that case.

`_LZMA_UINT32_IS_ULONG` - Define it if int is 16-bit on your compiler and long is 32-bit.

`_LZMA_NO_SYSTEM_SIZE_T` - Define it if you don't want to use `size_t` type.

`_7ZIP_PPMD_SUPPORT` - Define it if you don't want to support PPMD method in AMSI-C .7z decoder.

#### C++ LZMA Encoder/Decoder

~~~~~

C++ LZMA code use COM-like interfaces. So if you want to use it, you can study basics of COM/OLE.

C++ LZMA code is just wrapper over ANSI-C code.

#### C++ Notes

~~~~~

If you use some C++ code folders in 7-Zip (for example, C++ code for .7z handling), you must check that you correctly work with "new" operator.

7-Zip can be compiled with MSVC 6.0 that doesn't throw "exception" from "new" operator.

So 7-Zip uses "CPP\Common\NewHandler.cpp" that redefines "new" operator:

```
operator new(size_t size)
{
    void *p = ::malloc(size);
    if (p == 0)
        throw CNewException();
    return p;
}
```

If you use MSCV that throws exception for "new" operator, you can compile without "NewHandler.cpp". So standard exception will be used. Actually some code of

7-Zip catches any exception in internal code and converts it to HRESULT code.

So you don't need to catch CNewException, if you call COM interfaces of 7-Zip.

---

<http://www.7-zip.org>

<http://www.7-zip.org/sdk.html>

<http://www.7-zip.org/support.html>

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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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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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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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## 1.149 external/messageformat 24r4

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
```

```
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
```

```
<title>ICU License - ICU 1.8.1 and later</title>
```

```
</head>
```

```
<body BGCOLOR="#ffffff">
```

```
<h2>ICU License - ICU 1.8.1 and later</h2>
```

```
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```

```
<p>
```

```
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```

```
</p>
```

```
<p>
```

```
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```
</p>
```

```
<p>
```

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```
</p>
```

```
<p>
```

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</pre>
```

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Database section 7.

<pre>

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</body>

</html>

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- IDEA is no longer included, its use is deprecated
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- Zlib is now external, in a library
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\* @version 3.0 (December 2000)  
\*  
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\*  
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# 1.172 external/parameter-framework 24r4

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## 1.173 external/pcre 24r4

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\*/

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End

## 1.174 external/pdfium 24r4

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C++ Big Integer Library  
(see ChangeLog for version)

<http://mattmccutchen.net/bigint/>

Written and maintained by Matt McCutchen <matt@mattmccutchen.net>

You can use this library in a C++ program to do arithmetic on integers of size limited only by your computer's memory. The library provides `BigUnsigned` and `BigInteger` classes that represent nonnegative integers and signed integers, respectively. Most of the C++ arithmetic operators are overloaded for these classes, so big-integer calculations are as easy as:

```
#include "BigIntegerLibrary.hh"
```

```
BigInteger a = 65536;  
cout << (a * a * a * a * a * a * a * a * a * a);
```

```
(prints 340282366920938463463374607431768211456)
```

The code in ``sample.cc'` demonstrates the most important features of the library. To get started quickly, read the code and explanations in that file and run it. If you want more detail or a feature not shown in ``sample.cc'`, consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed;

some users will prefer GMP (<http://swox.com/gmp/>), which is faster. The code is intended to be reasonably portable across computers and modern C++ compilers; in particular, it uses whatever word size the computer provides (32-bit, 64-bit, or otherwise).

#### Compiling programs that use the library

-----  
The library consists of a folder full of C++ header files (.hh) and source files (.cc). Your own programs should #include the necessary header files and link with the source files. A makefile that builds the sample program (sample.cc) is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked with the library source files; otherwise, you will get errors about missing header files or "undefined references". To learn how to do this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

#### Resources

-----  
The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

#### Bugs and enhancements

-----  
The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++). I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

#### Legal

-----  
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~~~~~

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## 1.180 external/roboto-fonts 24r4

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## 1.181 external/safe-iop 24r4

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## 1.183 external/selinux 24r4

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```
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```

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```

```
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*/

/*
* A "png_get_copyright" function is available, for convenient use in "about"
* boxes and the like:
*
* printf("%s", png_get_copyright(NULL));
*
* Also, the PNG logo (in PNG format, of course) is supplied in the
* files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).
*/

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* The contributing authors would like to thank all those who helped
* with testing, bug fixes, and patience. This wouldn't have been
* possible without all of you.
*
*/
```

```

* Thanks to Frank J. T. Wojcik for helping with the documentation.
*/

/*
* Y2K compliance in libpng:
* =====
*
* December 22, 2014
*
* Since the PNG Development group is an ad-hoc body, we can't make
* an official declaration.
*
* This is your unofficial assurance that libpng from version 0.71 and
* upward through 1.6.16 are Y2K compliant. It is my belief that
* earlier versions were also Y2K compliant.
*
* Libpng only has two year fields. One is a 2-byte unsigned integer
* that will hold years up to 65535. The other, which is deprecated,
* holds the date in text format, and will hold years up to 9999.
*
* The integer is
* "png_uint_16 year" in png_time_struct.
*
* The string is
* "char time_buffer[29]" in png_struct. This is no longer used
* in libpng-1.6.x and will be removed from libpng-1.7.0.
*
* There are seven time-related functions:
* png.c: png_convert_to_rfc_1123_buffer() in png.c
* (formerly png_convert_to_rfc_1123() prior to libpng-1.5.x and
* png_convert_to_rfc_1152() in error prior to libpng-0.98)
* png_convert_from_struct_tm() in pngwrite.c, called in pngwrite.c
* png_convert_from_time_t() in pngwrite.c
* png_get_tIME() in pngget.c
* png_handle_tIME() in pngutil.c, called in pngread.c
* png_set_tIME() in pngset.c
* png_write_tIME() in pngutil.c, called in pngwrite.c
*
* All handle dates properly in a Y2K environment. The
* png_convert_from_time_t() function calls gmtime() to convert from system
* clock time, which returns (year - 1900), which we properly convert to
* the full 4-digit year. There is a possibility that libpng applications
* are not passing 4-digit years into the png_convert_to_rfc_1123_buffer()
* function, or that they are incorrectly passing only a 2-digit year
* instead of "year - 1900" into the png_convert_from_struct_tm() function,
* but this is not under our control. The libpng documentation has always
* stated that it works with 4-digit years, and the APIs have been
* documented as such.

```

```
*
* The tIME chunk itself is also Y2K compliant. It uses a 2-byte unsigned
* integer to hold the year, and can hold years as large as 65535.
*
* zlib, upon which libpng depends, is also Y2K compliant. It contains
* no date-related code.
*
* Glenn Randers-Pehrson
* libpng maintainer
* PNG Development Group
*/
```

## 1.187 external/slf4j 24r4

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Berlin, 28.11.1994  
Jutta Degener  
Carsten Bormann

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## 1.192 external/sqlite 24r4

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## 1.201 external/tinyxml 24r4

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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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---

```
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//      http://www.boost.org/LICENSE\_1\_0.txt)  
  
// See http://www.boost.org/ for updates, documentation, and revision history.
```

```
/*  
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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## 1.220 frameworks/av 24r4

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*
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*
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*/

```

## 1.223 frameworks/compile/mclinker 24r4

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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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 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:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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## 1.271 libuuid 1.0.3

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/\*

\* General purpose random utilities

\*

\* Based on libuuid code.

\*

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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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.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,

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# 1.272 linux kernel 3.10.94

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for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

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

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

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

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

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather lists

\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

\* Fix is simple: make large buffers large enough to hold entire

\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

\* Trick is to avoid fragmenting Linux, due to need for a lot of large

\* buffers. This is done by 2 things:

\* 1) skb->destructor / skb->atm.recycle\_buffer

\* combined, allow nicstar\_free\_rx\_skb to be called to

\* recycle large data buffers

\* 2) skb\_clone of received buffers

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation

\* details.

\*

\*

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- \*
- \* M. Welsh, 6 July 1996
- \*
- \*
- \*/

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Replied: Fri, 16 Feb 2001 14:12:54 -0500

Replied: "Darren Reed <darrenr@reed.wattle.id.au> "

Received: from [139.134.6.79] by whimsy.udel.edu id aa15476;  
16 Feb 2001 04:21 EST

Received: from CPE-61-9-164-106.vic.bigpond.net.au  
([139.134.4.52]) by mailin6.bigpond.com (Netscape Messaging  
Server 4.15) with SMTP id G8UFIB00.4QI for  
<stenn@whimsy.udel.edu>; Fri, 16 Feb 2001 19:25:23 +1000

Received: from CPE-61-9-164-110.vic.bigpond.net.au ([61.9.164.110]) by mail5.bigpond.com (Claudes-Retiring-MailRouter V2.9c 9/11963672); 16 Feb 2001 19:20:45

Received: (from root@localhost)

by CPE-61-9-164-106.vic.bigpond.net.au (8.11.0/8.11.0) id f1G92GC29158  
for <stenn@whimsy.udel.edu>; Fri, 16 Feb 2001 20:02:16 +1100

From: Darren Reed <darrenr@reed.wattle.id.au>

Message-Id: <200102160901.UAA23657@avalon.reed.wattle.id.au>

Subject: Re: arlib?

In-Reply-To: <901.982219274@whimsy.udel.edu> from Harlan Stenn at "Feb 15, 1 01:41:14 am"

To: Harlan Stenn <stenn@whimsy.udel.edu>

Date: Fri, 16 Feb 2001 20:01:46 +1100

X-Mailer: ELM [version 2.4ME+ PL37 (25)]

MIME-Version: 1.0

Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit

In some email I received from Harlan Stenn, sie wrote:

> Darren,

>

> I'm looking for an async resolver library that I can use with NTP.

>

> I noticed your code in the contrib/ subdir of later bind8 distribution

> and I noticed the Copyright notice in arlib.c:

>

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>

> so I thought I'd ask your permission to distribute your files if I can

> figure out how to make it all work with ntpd.

<http://coombs.anu.edu.au/~avalon/arlib.tar.gz>

a few bug fixes (inc. buffer overflow :) and stuff in there.

But otherwise, go for it.

Darren

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2. [2]Mark Andrews <mark\_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes

6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
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26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
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36. [39]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
  37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
  38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
  39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
  40. [43]Tom Moore <tmoore@fieval.daytonoh.ncr.com> i386 svr4 port
  41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
  42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
  43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
  44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
  45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
  46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
  47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
  48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
  49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
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  51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
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  53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
  54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
  55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
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## References

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*

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## 1.300 packages/providers/ContactsProvider

### 24r4

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# packages/providers/PartnerBookmarksProvider 24r4

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## 1.304

# packages/providers/UserDictionaryProvider

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modules/audio\_coding/codecs/g711/main/source/g711.h  
modules/audio\_coding/codecs/g722/main/source/g722\_decode.c  
modules/audio\_coding/codecs/g722/main/source/g722\_enc\_dec.h

modules/audio\_coding/codecs/g722/main/source/g722\_encode.c  
modules/audio\_coding/codecs/isac/main/source/fft.c  
modules/audio\_device/mac/portaudio/pa\_memorybarrier.h  
modules/audio\_device/mac/portaudio/pa\_ringbuffer.c  
modules/audio\_device/mac/portaudio/pa\_ringbuffer.h  
modules/audio\_processing/aec/aec\_rdfc.c  
system\_wrappers/source/condition\_variable\_event\_win.cc  
system\_wrappers/source/set\_thread\_name\_win.h  
system\_wrappers/source/spreadsortlib/constants.hpp  
system\_wrappers/source/spreadsortlib/spreadsort.hpp

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-----  
Files:

common\_audio/signal\_processing/spl\_sqrt\_floor.c  
common\_audio/signal\_processing/spl\_sqrt\_floor\_arm.S

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/\*

\* Written by Wilco Dijkstra, 1996. The following email exchange establishes the  
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\*

\* 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

\*/

-----  
Files:

modules/audio\_coding/codecs/g711/main/source/g711.c

modules/audio\_coding/codecs/g711/main/source/g711.h

License:

```
/*
 * SpanDSP - a series of DSP components for telephony
 *
 * g711.h - In line A-law and u-law conversion routines
 *
 * Written by Steve Underwood <steveu@coppice.org>
 *
 * Copyright (C) 2001 Steve Underwood
 *
 * Despite my general liking of the GPL, I place this code in the
 * public domain for the benefit of all mankind - even the slimy
 * ones who might try to proprietize my work and use it to my
 * detriment.
 */
```

-----  
Files:

modules/audio\_coding/codecs/g722/main/source/g722\_decode.c  
modules/audio\_coding/codecs/g722/main/source/g722\_enc\_dec.h  
modules/audio\_coding/codecs/g722/main/source/g722\_encode.c

License:

```
/*
 * SpanDSP - a series of DSP components for telephony
 *
 * g722_decode.c - The ITU G.722 codec, decode part.
 *
 * Written by Steve Underwood <steveu@coppice.org>
 *
 * Copyright (C) 2005 Steve Underwood
 *
 * Despite my general liking of the GPL, I place my own contributions
 * to this code in the public domain for the benefit of all mankind -
 * even the slimy ones who might try to proprietize my work and use it
 * to my detriment.
 *
 * Based in part on a single channel G.722 codec which is:
 *
 * Copyright (c) CMU 1993
 * Computer Science, Speech Group
 * Chengxiang Lu and Alex Hauptmann
 */
```

-----  
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modules/audio\_coding/codecs/isac/main/source/fft.c

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modules/audio\_device/mac/portaudio/pa\_memorybarrier.h

modules/audio\_device/mac/portaudio/pa\_ringbuffer.c

modules/audio\_device/mac/portaudio/pa\_ringbuffer.h

License:

/\*

\* \$Id: pa\_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche \$

\* Portable Audio I/O Library

\* Memory barrier utilities

\*

\* Author: Bjorn Roche, XO Audio, LLC

\*

\* This program uses the PortAudio Portable Audio Library.

\* For more information see: <http://www.portaudio.com>

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/\*  
\* \$Id: pa\_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche \$  
\* Portable Audio I/O Library  
\* Ring Buffer utility.  
\*  
\* Author: Phil Burk, <http://www.softsynth.com>  
\* modified for SMP safety on Mac OS X by Bjorn Roche  
\* modified for SMP safety on Linux by Leland Lucius  
\* also, allowed for const where possible  
\* modified for multiple-byte-sized data elements by Sven Fischer  
\*  
\* Note that this is safe only for a single-thread reader and a  
\* single-thread writer.  
\*  
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modules/audio\_processing/aec/aec\_rdfc.c

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<http://www1.cse.wustl.edu/~schmidt/ACE-copying.html>

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system\_wrappers/source/set\_thread\_name\_win.h

Source:

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