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-- activemq-web

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2001-12-12

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
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The original XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd

- web-fragment_3_0.xsd
may be obtained from <http://java.sun.com/xml/ns/javaee/>

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\$Id: RELEASE-NOTES 1189163 2011-10-26 12:19:26Z kkolinko \$

Apache Tomcat Version @VERSION@
Release Notes

=====
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Dependency Changes:
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Tomcat @VERSION_MAJOR_MINOR@ is designed to run on Java SE 6 and later.

In addition, Tomcat @VERSION_MAJOR_MINOR@ uses the Eclipse JDT Java compiler for compiling JSP pages. This means you no longer need to have the complete Java Development Kit (JDK) to run Tomcat, but a Java Runtime Environment (JRE) is sufficient. The Eclipse JDT Java compiler is bundled with the binary Tomcat distributions. Tomcat can also be configured to use the compiler from the JDK to compile JSPs, or any other Java compiler supported by Apache Ant.

=====

API Stability:

=====

The public interfaces for the following classes are fixed and will not be changed at all during the remaining lifetime of the 7.x series:

- javax/**/*

The public interfaces for the following classes may be added to in order to resolve bugs and/or add new features. No existing interface will be removed or changed although it may be deprecated.

- org/apache/catalina/*
- org/apache/catalina/comet/*

Note: As Tomcat 7 matures, the above list will be added to. The list is not considered complete at this time.

The remaining classes are considered part of the Tomcat internals and may change without notice between point releases.

=====

JNI Based Applications:

=====

Applications that require native libraries must ensure that the libraries have been loaded prior to use. Typically, this is done with a call like:

```
static {
    System.loadLibrary("path-to-library-file");
}
```

in some class. However, the application must also ensure that the library is not loaded more than once. If the above code were placed in a class inside the web application (i.e. under /WEB-INF/classes or /WEB-INF/lib), and the application were reloaded, the loadLibrary() call would be attempted a second time.

To avoid this problem, place classes that load native libraries outside of the web application, and ensure that the loadLibrary() call is executed only once

during the lifetime of a particular JVM.

=====

Bundled APIs:

=====

A standard installation of Tomcat @VERSION_MAJOR_MINOR@ makes all of the following APIs available for use by web applications (by placing them in "lib"):

- * annotations-api.jar (Annotations package)
- * catalina.jar (Tomcat Catalina implementation)
- * catalina-ant.jar (Tomcat Catalina Ant tasks)
- * catalina-ha.jar (High availability package)
- * catalina-tribes.jar (Group communication)
- * ecj-@JDT_VERSION@.jar (Eclipse JDT Java compiler)
- * el-api.jar (EL 2.2 API)
- * jasper.jar (Jasper 2 Compiler and Runtime)
- * jasper-el.jar (Jasper 2 EL implementation)
- * jsp-api.jar (JSP 2.2 API)
- * servlet-api.jar (Servlet 3.0 API)
- * tomcat-api.jar (Interfaces shared by Catalina and Jasper)
- * tomcat-coyote.jar (Tomcat connectors and utility classes)
- * tomcat-dbcp.jar (package renamed database connection pool based on Commons DBCP)

You can make additional APIs available to all of your web applications by putting unpacked classes into a "classes" directory (not created by default), or by placing them in JAR files in the "lib" directory.

To override the XML parser implementation or interfaces, use the endorsed mechanism of the JVM. The default configuration defines JARs located in "endorsed" as endorsed.

=====

Web application reloading and static fields in shared libraries:

=====

Some shared libraries (many are part of the JDK) keep references to objects instantiated by the web application. To avoid class loading related problems (ClassCastExceptions, messages indicating that the classloader is stopped, etc.), the shared libraries state should be reinitialized.

Something which might help is to avoid putting classes which would be referenced by a shared static field in the web application classloader, and putting them in the shared classloader instead (JARs should be put in the "lib" folder, and classes should be put in the "classes" folder).

=====

Tomcat on Linux:

=====

GLIBC 2.2 / Linux 2.4 users should define an environment variable:

```
export LD_ASSUME_KERNEL=2.2.5
```

Redhat Linux 9.0 users should use the following setting to avoid stability problems:

```
export LD_ASSUME_KERNEL=2.4.1
```

There are some Linux bugs reported against the NIO sendfile behavior, make sure you have a JDK that is up to date, or disable sendfile behavior in the Connector.

6427312: (fc) FileChannel.transferTo() throws IOException "system call interrupted"

5103988: (fc) FileChannel.transferTo should return -1 for EAGAIN instead throws IOException

6253145: (fc) FileChannel.transferTo on Linux fails when going beyond 2GB boundary

6470086: (fc) FileChannel.transferTo(2147483647, 1, channel) cause "Value too large" exception

=====

Enabling SSI and CGI Support:

=====

Because of the security risks associated with CGI and SSI available to web applications, these features are disabled by default.

To enable and configure CGI support, please see the [cgi-howto.html](#) page.

To enable and configure SSI support, please see the [ssi-howto.html](#) page.

=====

Security manager URLs:

=====

In order to grant security permissions to JARs located inside the web application repository, use URLs of of the following format in your policy file:

```
file:${catalina.base}/webapps/examples/WEB-INF/lib/driver.jar
```

=====

Symlinking static resources:

=====

By default, Unix symlinks will not work when used in a web application to link resources located outside the web application root directory.

This behavior is optional, and the "allowLinking" flag may be used to disable the check.

=====

Viewing the Tomcat Change Log:

=====

See changelog.html in this directory.

=====

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The following provides more details on the included cryptographic software:

- Tomcat includes code designed to work with JSSE
- Tomcat includes code designed to work with OpenSSL

=====

When all else fails:

=====

See the FAQ

<http://tomcat.apache.org/faq/>

Apache Tomcat JDBC Pool

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1.18 BlazeDS 4.0.0.14931

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1.19 bonecp 0.7.1

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+ System.getProperty("line.separator")

+ "DEALINGS IN THE SOFTWARE.";

public static void main(

String[] args)


```
{
    System.out.println(licenseText);
}
}
<html>
<body bgcolor=#ffffff>
```

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Version 3, 29 June 2007

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1.33 datanucleus-rdbms 4.1.0

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//
//
////////////////////////////////////
package com.degrafa.geometry
{
    import com.degrafa.IGeometry;
    import com.degrafa.geometry.utilities.GeometryUtils;
    import com.degrafa.utilities.math.SimpleRoot;

    import flash.display.Graphics;
    import flash.geom.Rectangle;
    import flash.geom.Point;
    import com.degrafa.utilities.math.SimpleRoot;
    import com.degrafa.utilities.math.Solve2x2;

    //-----
    // Other metadata
    //-----

    [IconFile("CubicBezier.png")]

```

```

[Bindable]
/**
 * The AdvancedCubicBezier element draws a cubic Bézier using the specified start point,
 * end point and 2 control points. and contains several additional methods
 * that are useful in advanced applications.
 *
 *
 */
public class AdvancedCubicBezier extends CubicBezier
{
    // bezier polynomial coefficients
    private var _c0X:Number;
    private var _c0Y:Number;
    private var _c1X:Number;
    private var _c1Y:Number;
    private var _c2X:Number;
    private var _c2Y:Number;
    private var _c3X:Number;
    private var _c3Y:Number;

    // limit on interval width before interval is considered completely bisected
    private var _bisectLimit:Number;

    // bisection interval bounds
    private var _left:Number;
    private var _right:Number;
    private var _twbrf:SimpleRoot;

    // stationary points of x(t) and y(t)
    private var _t1X:Number;
    private var _t1Y:Number;
    private var _t2X:Number;
    private var _t2Y:Number;

    // specialized 2x2 solver using Cramer's rule
    private var _solver:Solve2x2;

/**
 * Constructor.
 *
 * <p>The advanced cubic Bézier constructor accepts 8 optional arguments that define it's
 * start, end and controls points.</p>
 *
 * @param x0 A number indicating the starting x-axis coordinate.
 * @param y0 A number indicating the starting y-axis coordinate.
 * @param cx A number indicating the first control x-axis coordinate.
 * @param cy A number indicating the first control y-axis coordinate.

```

```

* @param cx1 A number indicating the second control x-axis coordinate.
* @param cy1 A number indicating the second control y-axis coordinate.
* @param x1 A number indicating the ending x-axis coordinate.
* @param y1 A number indicating the ending y-axis coordinate.
*/
public function
AdvancedCubicBezier(x0:Number=NaN,y0:Number=NaN,cx:Number=NaN,cy:Number=NaN,cx1:Number=NaN,c
y1:Number=NaN,x1:Number=NaN,y1:Number=NaN)
{
    super();

    this.x0 = x0;
    this.y0 = y0;
    this.cx = cx;
    this.cy = cy;
    this.x1 = x1;
    this.y1 = y1;

    _bisectLimit = 0.05;
    _left    = 0;
    _right   = 1;
    _t1X    = 0;
    _t1Y    = 0;
    _t2X    = 0;
    _t2Y    = 0;

    // Jack Crenshaw's TWBRF and 2x2 solver, both instantiated on demand
    _twbrf = null;
    _solver = null;
}

/**
 * @inheritDoc
 */
override public function preDraw():void
{
    if( invalidated )
    {

        commandStack.length=0;

        // add a MoveTo at the start of the commandStack rendering chain
        commandStack.addMoveTo(x0,y0);

        commandStack.addCubicBezierTo(x0,y0,cx,cy,cx1,cy1,x1,y1,1);

        if( close )

```



```

    {
        commandStack.addLineTo(x0,y0);
    }

    getBezierCoef();
    invalidated = false;
}
}

override public function pointAt(_t:Number):Point
{
    var t:Number = _t < 0 ? 0 : _t;
    t      = t > 1 ? 1 : t;

    return new Point( _c0X + t*( _c1X + t*( _c2X + t*_c3X)), _c0Y + t*( _c1Y + t*( _c2Y + t*_c3Y) );
}

/**
 * interpolate
 *
 * <p>Compute control points so that quadratic Bezier passes through three points at the specified parameter value.
 *
 * @param _points:Array - array of three <code>Point</code> references, representing the coordinates of the
interpolation points.
 *
 * @return Array the parameter values in [0,1] at which the Bezier curve passes through the second and third
interpolation points (determined by a chord-length parameterization).
 * A negative value is returned if less than three interpolation points are provided.
 *
 */
public function interpolate(points:Array):Array
{
    // compute t-value using chord-length parameterization
    if( points.length < 4 )
    {
        return [-1];
    }

    // no error-checking ... you break it, you buy it.
    var p0:Point = points[0];
    var p1:Point = points[1];
    var p2:Point = points[2];
    var p3:Point = points[3];

    x0 = p0.x;
    y0 = p0.y;
    x1 = p3.x;
    y1 = p3.y;

```

```

// currently, this method auto-parameterizes the curve using chord-length parameterization. A future version
might allow inputting the two t-values, but this is more
// user-friendly (what an over-used term :)
var deltaX:Number = p1.x - p0.x;
var deltaY:Number = p1.y - p0.y;
var d1:Number = Math.sqrt(deltaX*deltaX + deltaY*deltaY);

deltaX = p2.x - p1.x;
deltaY = p2.y - p1.y;
var d2:Number = Math.sqrt(deltaX*deltaX + deltaY*deltaY);

deltaX = p3.x - p2.x;
deltaY = p3.y - p2.y;
var d3:Number = Math.sqrt(deltaX*deltaX + deltaY*deltaY);

var d:Number = d1 + d2 + d3;
var t1:Number = d1/d;
var t2:Number = (d1+d2)/d;

// there are four unknowns (x- and y-coords for P1 and P2), which are solved as two separate sets of two
equations in two unknowns
var t12:Number = t1*t1;
var t13:Number = t1*t12;

var t22:Number = t2*t2;
var t23:Number = t2*t22;

// x-coordinates of P1 and P2 (t = t1 and t2) - exercise: eliminate redudant computations in these equations
var a11:Number = 3*t13 - 6*t12 + 3*t1;
var a12:Number = -3*t13 + 3*t12;
var a21:Number = 3*t23 - 6*t22 + 3*t2;
var a22:Number = -3*t23 + 3*t22;

var b1:Number = -t13*x1 + x0*(t13 - 3*t12 + 3*t1 - 1) + p1.x;
var b2:Number = -t23*x1 + x0*(t23 - 3*t22 + 3*t2 - 1) + p2.x;

if( _solver == null )
{
    _solver = new Solve2x2();
}

// beware nearly or exactly coincident interior interpolation points
var p:Point = _solver.solve(a11, a12, a21, a22, b1, b2);
if( _solver.determinant < 0.000001 )
{
    // degenerates to a parabolic interpolation
    var t1m1:Number = 1.0-t1;

```

```

var tSq:Number = t1*t1;
var denom:Number = 2.0*t1*t1m1;

// to do - handle case where this degenerates into all overlapping points (i.e. denom is numerically zero)
cx = (p1.x - t1m1*t1m1*x0 - tSq*p2.x)/denom;
cy = (p1.y - t1m1*t1m1*y0 - tSq*p2.y)/denom;

cx1 = cx;
cy1 = cy;

getBezierCoef();

return [t1, t1];
}
else
{
cx = p.x
cx1 = p.y;
}

// y-coordinates of P1 and P2 (t = t1 and t2)
b1 = -t13*y1 + y0*(t13 - 3*t12 + 3*t1 - 1) + p1.y;
b2 = -t23*y1 + y0*(t23 - 3*t22 + 3*t2 - 1) + p2.y;

// resolving with same coefficients, but new RHS
p = _solver.solve(a11, a12, a21, a22, b1, b2, 0.00001, true);
cy = p.x
cy1 = p.y;

getBezierCoef();

return [t1, t2];
}

/**
 * tAtMinX
 *
 * <p>Find t-parameter at which the x-coordinate is a minimum.</p>
 *
 * @return Number Parameter value in [0,1] at which the cubic Bezier curve's x-coordinate is a minimum
 *
 * @since 1.0
 */
public function tAtMinX():Number
{
getStationaryPoints();
}

```

```

var t:Number = 0;
var minX:Number = x0;

if( x1 < minX )
{
    t = 1;
    minX = x1;
}

if( _t1X > 0 && _t1X < 1 )
{
    var myX:Number = pointAt(_t1X).x;
    if( myX < minX )
    {
        t = _t1X;
        minX = myX;
    }
}

if( _t2X > 0 && _t2X < 1 )
{
    if( pointAt(_t2X).x < minX )
    {
        t = _t2X;
    }
}

return t;
}

/**
 * tAtMaxX
 *
 * <p>Find t-parameter at which the x-coordinate is a maximum.</p>
 *
 * @return Number Parameter value in [0,1] at which the cubic Bezier curve's x-coordinate is a maximum.
 *
 */
public function tAtMaxX():Number
{
    getStationaryPoints();

    var t:Number = 0;
    var maxX:Number = x0;

    if( x1 > maxX )
    {
        t = 1;

```

```

    maxX = x1;
}

if( _t1X > 0 && _t1X < 1 )
{
    var myX:Number = pointAt(_t1X).x;
    if( myX > maxX )
    {
        t = _t1X;
        maxX = myX;
    }
}

if( _t2X > 0 && _t2X < 1 )
{
    if( pointAt(_t2X).x > maxX )
    {
        t = _t2X;
    }
}

return t;
}

/**
 * tAtMinY
 *
 * <p>Find t-parameter at which the y-coordinate is a minimum.</p>
 *
 * @return Number - Parameter value in [0,1] at which the cubic Bezier curve's y-coordinate is a minimum.
 *
 */
public function tAtMinY():Number
{
    getStationaryPoints(false);

    var t:Number = 0;
    var minY:Number = y0;

    if( y1 < minY )
    {
        t = 1;
        minY = y1;
    }

    if( _t1Y > 0 && _t1Y < 1 )
    {
        var myY:Number = pointAt(_t1Y).y;

```

```

    if( myY < minY )
    {
        t = _t1Y;
        minY = myY;
    }
}

if( _t2Y > 0 && _t2Y < 1 )
{
    if( pointAt(_t2Y).y < minY )
    {
        t = _t2Y;
    }
}

return t;
}

/**
 * tAtMaxY
 *
 * <p>Find t-parameter at which the y-coordinate is a maximum.</p>
 *
 * @return Number Parameter value in [0,1] at which the cubic Bezier curve's y-coordinate is a maximum.
 *
 */
public function tAtMaxY():Number
{
    getStationaryPoints(false);

    var t:Number = 0;
    var maxY:Number = y0;

    if( y1 > maxY )
    {
        t = 1;
        maxY = y1;
    }

    if( _t1Y > 0 && _t1Y < 1 )
    {
        var myY:Number = pointAt(_t1Y).y;
        if( myY > maxY )
        {
            t = _t1Y;
            maxY = myY;
        }
    }
}

```

```

    if( _t2Y > 0 && _t2Y < 1 )
    {
        if( pointAt(_t2Y).y > maxY )
        {
            t = _t2Y;
        }
    }

    return t;
}

/**
 * yAtX
 *
 * <p>Return the set of y-coordinates corresponding to the input x-coordinate.</p>
 *
 * @param _x: Number x-coordinate at which the desired y-coordinates are desired
 *
 * @return Array set of (t,y)-coordinates at the input x-coordinate provided that the x-coordinate is inside the range
 * covered by the quadratic Bezier in [0,1]; that is there must exist t in [0,1] such that Bx(t) = _x. If the input
 * x-coordinate is not inside the range covered by the Bezier curve, the returned array is empty. Otherwise, the
 * array contains either one, two, or three y-coordinates. There are issues with curves that are exactly or nearly (for
 * numerical purposes) vertical in which there could theoretically be an infinite number of y-coordinates for a single
 * x-coordinate. This method does not work in such cases, although compensation might be added in the future.
 *
 * <p>Each array element is a reference to an <code>Object</code> whose 't' parameter represents the Bezier t
 * parameter. The
 * <code>Object</code> 'y' property is the corresponding y-value. The returned (t,y) coordinates may be used by the
 * caller
 * to determine which of the (up to three) returned y-coordinates might be preferred over the others.</p>
 */
public function yAtX(_x:Number):Array
{
    if( isNaN(_x) )
    {
        return [];
    }

    // check bounds
    var xMax:Number = pointAt(tAtMaxX()).x;
    var xMin:Number = pointAt(tAtMinX()).x;

    if( _x < xMin || _x > xMax )
    {
        return [];
    }
}

```

```

// the necessary y-coordinates are the intersection of the curve with the line x = _x. The curve is generated in the
// form c0 + c1*t + c2*t^2 + c3*t^3, so the intersection satisfies the equation
// Bx(t) = _x or Bx(t) - _x = 0, or c0x-_x + c1x*t + c2x*t^2 + c3x*t^3 = 0.

getBezierCoef();

// Find one root - any root - then factor out (t-r) to get a quadratic poly. for the remaining roots
var f:Function = function(_t:Number):Number { return _t*( _c1X + _t*( _c2X + _t*( _c3X))) + _c0X-_x; }

if( _twbrf == null )
    _twbrf = new SimpleRoot();

// some curves that loop around on themselves may require bisection
_left    = 0;
_right   = 1;
__bisect(f, 0, 1);

// experiment with tolerance - but not too tight :)
var t0:Number = _twbrf.findRoot(_left, _right, f, 50, 0.000001);
var eval:Number = Math.abs(f(t0));
if( eval > 0.00001 )
    return []; // compensate in case method quits due to error (no event listener here)

var result:Array = new Array();
if( t0 <= 1 )
    result.push({t:t0, y:pointAt(t0).y});

// Factor theorem: t-r is a factor of the cubic polynomial if r is a root. Use this to reduce to a quadratic poly.
// using synthetic division
var a:Number = _c3X;
var b:Number = t0*_a+_c2X;
var c:Number = t0*_b+_c1X;

// process the quadratic for the remaining two possible roots
var d:Number = b*b - 4*a*c;
if( d < 0 )
{
    return result;
}

d      = Math.sqrt(d);
a      = 1/(a + a);
var t1:Number = (d-b)*a;
var t2:Number = (-b-d)*a;

if( t1 >= 0 && t1 <=1 )
    result.push( {t:t1, y:pointAt(t1).y} );

```



```

    if( t2 >= 0 && t2 <=1 )
        result.push( {t:t2, y:pointAt(t2).y} );

    return result;
}

/**
 * xAtY
 *
 * <p>Return the set of x-coordinates corresponding to the input y-coordinate.</p>
 *
 * @param _y: Number y-coordinate at which the desired x-coordinates are desired
 *
 * @return Array set of (t,x)-coordinates at the input y-coordinate provided that the y-coordinate is inside the range
 * covered by the quadratic Bezier in [0,1]; that is there must exist t in [0,1] such that By(t) = _y. If the input
 * y-coordinate is not inside the range covered by the Bezier curve, the returned array is empty. Otherwise, the
 * array contains either one, two, or three x-coordinates. There are issues with curves that are exactly or nearly (for
 * numerical purposes) horizontal in which there could theoretically be an infinite number of x-coordinates for a
 * single
 * y-coordinate. This method does not work in such cases, although compensation might be added in the future.
 *
 * <p>Each array element is a reference to an <code>Object</code> whose 't' parameter represents the Bezier t
 * parameter. The
 * <code>Object</code> 'x' property is the corresponding x-coordinate. The returned (t,x) coordinates may be used
 * by the caller
 * to determine which of the (up to three) returned x-coordinates might be preferred over the others.</p>
 *
 */
public function xAtY(_y:Number):Array
{
    if( isNaN(_y) )
    {
        return [];
    }

    // check bounds
    var yMax:Number = pointAt(tAtMaxY()).y;
    var yMin:Number = pointAt(tAtMinY()).y;

    if( _y < yMin || _y > yMax )
    {
        return [];
    }

    // the necessary y-coordinates are the intersection of the curve with the line y = _y. The curve is generated in the
    // form c0 + c1*t + c2*t^2 + c3*t^3, so the intersection satisfies the equation
    // By(t) = _y or By(t) - _y = 0, or c0y-_y + c1y*t + c2y*t^2 + c3y*t^3 = 0.

```

```

getBezierCoef();

// Find one root - any root - then factor out (t-r) to get a quadratic poly. for the remaining roots
var f:Function = function(_t:Number):Number { return _t*(_c1Y + _t*(_c2Y + _t*(_c3Y))) + _c0Y - _y; }

if( _twbrf == null )
    _twbrf = new SimpleRoot();

// some curves that loop around on themselves may require bisection
_left    = 0;
_right   = 1;
__bisect(f, 0, 1);

// experiment with tolerance - but not too tight :)
var t0:Number = _twbrf.findRoot(_left, _right, f, 50, 0.000001);
var eval:Number = Math.abs(f(t0));
if( eval > 0.00001 )
    return []; // compensate in case method quits due to error (no event listener here)

var result:Array = new Array();
if( t0 <= 1 )
    result.push({t:t0, x:pointAt(t0).x});

// Factor theorem: t-r is a factor of the cubic polynomial if r is a root. Use this to reduce to a quadratic poly.
using synthetic division
var a:Number = _c3Y;
var b:Number = t0*a + _c2Y;
var c:Number = t0*b + _c1Y;

// process the quadratic for the remaining two possible roots
var d:Number = b*b - 4*a*c;
if( d < 0 )
{
    return result;
}

d      = Math.sqrt(d);
a      = 1/(a + a);
var t1:Number = (d-b)*a;
var t2:Number = (-b-d)*a;

if( t1 >= 0 && t1 <=1 )
    result.push( {t:t1, x:pointAt(t1).x} );

if( t2 >= 0 && t2 <=1 )
    result.push( {t:t2, x:pointAt(t2).x} );

```

```

return result;
}

// recompute polynomial coefficients
private function getBezierCoef():void
{
    _c0X = x0;
    _c0Y = y0;

    var dX:Number = 3.0*(cx-x0);
    var dY:Number = 3.0*(cy-y0);
    _c1X    = dX;
    _c1Y    = dY;

    var bX:Number = 3.0*(cx1-cx) - dX;
    var bY:Number = 3.0*(cy1-cy) - dY;
    _c2X    = bX;
    _c2Y    = bY;

    _c3X = x1 - x0 - dX - bX;
    _c3Y = y1 - y0 - dY - bY;
}

// bisect the specified range to isolate an interval with a root.
private function __bisect(_f:Function, _l:Number, _r:Number):void
{
    if( Math.abs(_r-_l) <= _bisectLimit )
    {
        return;
    }

    var left:Number = _l;
    var right:Number = _r;
    var middle:Number = 0.5*(left+right);
    if( _f(left)*_f(right) <= 0 )
    {
        _left = left;
        _right = right;
        return;
    }
    else
    {
        __bisect(_f, left, middle);
        __bisect(_f, middle, right);
    }
}

// get the stationary points of x(t) and y(t)

```

```

private function getStationaryPoints(pX:Boolean=true):void
{
    // in a future release, this will be made more efficient - don't want to mess with the invalidated flag just yet :)
    getBezierCoef();

    // given polynomial coefficients, the bezier curve equation is of the form  $c_0 + c_1*t + c_2*t^2 + c_3*t^3$ , so the
    derivative is of
    // the form  $c_1 + 2*c_2*t + 3*c_3*t^2$ , which has two roots
    var d:Number = -1;
    var t1:Number = -1;
    var t2:Number = -1;

    if( pX )
    {
        d = 4*_c2X*_c2X - 12*_c1X*_c3X;
        if( d >= 0 )
        {
            d = Math.sqrt(d);
            var a:Number = 6*_c3X;
            var b:Number = 2*_c2X;
            t1 = (-b + d)/a;
            t2 = (-b - d)/a;
        }

        _t1X = t1 >= 0 && t1 <= 1 ? t1 : -1;
        _t2X = t2 >= 0 && t2 <= 1 ? t2 : -1;
    }
    else
    {
        d = 4*_c2Y*_c2Y - 12*_c1Y*_c3Y;
        if( d >= 0 )
        {
            d = Math.sqrt(d);
            a = 6*_c3Y;
            b = 2*_c2Y;
            t1 = (-b + d)/a;
            t2 = (-b - d)/a;
        }

        _t1Y = t1 >= 0 && t1 <= 1 ? t1 : -1;
        _t2Y = t2 >= 0 && t2 <= 1 ? t2 : -1;
    }
}
}
}
}

```

1.35 dom4j 1.6.1

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1.36 Ecache Core 2.6.6

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 */
```

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1.37 FlexLib 2.4

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*/

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```
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```
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```

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1.56 jclouds-blobstore 1.0-beta-7

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1.58 jna 4.1.0

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1.62 jruby-jars 1.7.9

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Version 0.6, 7 March 2007

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| Package Name | Qualifying License and Version |
|-------------------------------|--------------------------------|
| Apache Portable Runtime (APR) | Apache Software License 2.0 |

1.69 noVNC 0.4

1.69.1 Available under license :

noVNC is Copyright (C) 2011 Joel Martin <github@martintribe.org>

The noVNC core library files are licensed under the MPL 2.0 (Mozilla Public License 2.0). The noVNC core library is composed of the Javascript code necessary for full noVNC operation. This includes (but is not limited to):

- include/base64.js
- include/des.js
- include/display.js
- include/input.js
- include/jsunzip.js
- include/logo.js
- include/rfb.js
- include/ui.js
- include/util.js
- include/vnc.js
- include/websock.js
- include/webutil.js

The HTML, CSS, font and images files that included with the noVNC source distribution (or repository) are not considered part of the noVNC core library and are licensed under more permissive licenses. The intent is to allow easy integration of noVNC into existing web sites and web applications.

The HTML, CSS, font and image files are licensed as follows:

*.html : 2-Clause BSD license

include/*.css : 2-Clause BSD license

include/Orbitron* : SIL Open Font License 1.1
(Copyright 2009 Matt McInerney)

images/ : Creative Commons Attribution-ShareAlike
<http://creativecommons.org/licenses/by-sa/3.0/>

Some portions of noVNC are copyright to their individual authors. Please refer to the individual source files and/or to the noVNC commit history: <https://github.com/kanaka/noVNC/commits/master>

There are several files and projects that have been incorporated into the noVNC core library. Here is a list of those files and the original licenses (all MPL 2.0 compatible):

include/base64.js : MPL 2.0

include/des.js : Various BSD style licenses

include/jsunzip.js : zlib/libpng license

include/web-socket-js/ : New BSD license (3-clause). Source code at <http://github.com/gimite/web-socket-js>

include/chrome-app/tcp-stream.js
: Apache 2.0 license

utils/websockify
utils/websocket.py : LGPL 3

The following license texts are included:

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docs/LICENSE.GPL-3
docs/LICENSE.OFL-1.1
docs/LICENSE.BSD-3-Clause (New BSD)

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docs/LICENSE.zlib

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<http://www.gnu.org/licenses/gpl.html>

<http://scripts.sil.org/OFL>

http://en.wikipedia.org/wiki/BSD_licenses

http://www.gzip.org/zlib/zlib_license.html

<http://www.apache.org/licenses/LICENSE-2.0.html>

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Version 2.0, January 2004

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1.70 noVNC_images 0.4

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1.71 noVNC_websockify 0.4

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```

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1.72 quartz 2.1.7

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signature of Ty Coon, 1 April 1989
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1.74 slf4j 1.7.6

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1.76 syslog4j 0.9.43

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compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc

compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thrift.ll
compiler/cpp/src/thrift.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
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lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
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lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
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test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

```
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```

For the compiler/cpp/src/md5.[ch] components:

/*

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L. Peter Deutsch
ghost@aladdin.com

*/

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lib/ocaml/OCamlMakefile and lib/ocaml/README-OCamlMakefile components:
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1.79 velocity 1.6.2

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Welcome to VI Java API 2.0 release

WHAT IS VI JAVA API?

VI Java API is a set of Java libraries that aim to ease the usage of VI SDK Web Services interfaces. It's now open-sourced under BSD license.

It provides the following benefits to the Java developers:

- * Enables OO programming with a well defined managed object model
- * Reduces the need to use ManagedObjectReference and makes possible compile time type checking
- * Hides the complexity of the PropertyCollector
- * Provides necessary utility classes to simplify VI SDK web interfaces
- * High performance with 4+ times faster than AXIS engine

As a result, the application code using this API is much shorter (70% less) and much more readable than the equivalent using web service interfaces directly. The API itself is straight-forward and easy to learn and use.

WHO CREATED THE API?

The VI Java API was initially created by Steve Jin from VMware Engineering. He is the author of VMware VI and vSphere SDK by Prentice Hall. There are contributions from the communities as well. See the web site for more details.

WHAT IS INCLUDED?

Everything is packaged into one Jar file, including the Java source code, binary, sample code, license.

Version 2.0 includes a high performance web service engine which is 15+ times faster in loading and 4+ faster in de-serialization than AXIS with only 1/4 of the size, and many other features. Find out more at project home.

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