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*/

1.13 axis2 1.6.2

1.13.1 Available under license:

/*
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.16 Blowfish 2 Java 2
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1.17 bsh 1.3.0 :9jpp.1

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notice like this when it starts in an interactive mode:

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1.40 Gson 2.3.1
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 */

package com.google.gson.internal;

import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

/**
 * Contains static utility methods pertaining to primitive types and their
 * corresponding wrapper types.
 *
 * @author Kevin Bourrillion
 */
public final class Primitives {

private Primitives() {}

/**
 * A map from primitive types to their corresponding wrapper types.
 */
private static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;

/**
 * A map from wrapper types to their corresponding primitive types.
 */
private static final Map<Class<?>, Class<?>> WRAPPER_TO_PRIMITIVE_TYPE;

// Sad that we can't use a BiMap. :

static {
    Map<Class<?>, Class<?>> primToWrap = new HashMap<Class<?>, Class<?>>();
    primToWrap.put(Class.class, Class.class);
    primToWrap.put(Integer.class, Integer.class);
    primToWrap.put(Long.class, Long.class);
    primToWrap.put(Short.class, Short.class);
    primToWrap.put(Byte.class, Byte.class);
    primToWrap.put(Float.class, Float.class);
    primToWrap.put(Double.class, Double.class);
    primToWrap.put(Boolean.class, Boolean.class);
    primToWrap.put(Character.class, Character.class);
    primToWrap.put(Void.class, Void.class);

    Map<Class<?>, Class<?>> wrapToPrim = new HashMap<Class<?>, Class<?>>();
    wrapToPrim.put(Class.class, Class.class);
    wrapToPrim.put(Integer.class, Integer.class);
    wrapToPrim.put(Long.class, Long.class);
    wrapToPrim.put(Short.class, Short.class);
    wrapToPrim.put(Byte.class, Byte.class);
    wrapToPrim.put(Float.class, Float.class);
    wrapToPrim.put(Double.class, Double.class);
    wrapToPrim.put(Boolean.class, Boolean.class);
    wrapToPrim.put(Character.class, Character.class);
    wrapToPrim.put(Void.class, Void.class);
}
add(primToWrap, wrapToPrim, boolean.class, Boolean.class);
add(primToWrap, wrapToPrim, byte.class, Byte.class);
add(primToWrap, wrapToPrim, char.class, Character.class);
add(primToWrap, wrapToPrim, double.class, Double.class);
add(primToWrap, wrapToPrim, float.class, Float.class);
add(primToWrap, wrapToPrim, int.class, Integer.class);
add(primToWrap, wrapToPrim, long.class, Long.class);
add(primToWrap, wrapToPrim, short.class, Short.class);
add(primToWrap, wrapToPrim, void.class, Void.class);

PRIMITIVE_TO_WRAPPER_TYPE = Collections.unmodifiableMap(primToWrap);
WRAPPER_TO_PRIMITIVE_TYPE = Collections.unmodifiableMap(wrapToPrim);
}

private static void add(Map<Class<?>, Class<?>> forward,
   Map<Class<?>, Class<?>> backward, Class<?> key, Class<?> value) {
   forward.put(key, value);
   backward.put(value, key);
}

/**
 * Returns true if this type is a primitive.
 */
public static boolean isPrimitive(Type type) {
   return PRIMITIVE_TO_WRAPPER_TYPE.containsKey(type);
}

/**
 * Returns true if type is one of the nine primitive-wrapper types, such as Integer.
 * @see Class#isPrimitive
 */
public static boolean isWrapperType(Type type) {
   return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(
      Gson$Preconditions.checkNotNull(type));
}

/**
 * Returns the corresponding wrapper type of type if it is a primitive type; otherwise returns type itself. Idempotent.
 * <pre>
 *    wrap(int.class) == Integer.class
 *    wrap(Integer.class) == Integer.class
 *    wrap(String.class) == String.class
 * </pre>
 */

public static <T> Class<T> wrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> wrapped = (Class<T>) PRIMITIVE_TO_WRAPPER_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (wrapped == null) ? type : wrapped;
}

/**
 * Returns the corresponding primitive type of [code type] if it is a
 * wrapper type; otherwise returns [code type] itself. Idempotent.
 *<pre>
 *     unwrap(Integer.class) == int.class
 *     unwrap(int.class) == int.class
 *     unwrap(String.class) == String.class
 * </pre>
 */

public static <T> Class<T> unwrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> unwrapped = (Class<T>) WRAPPER_TO_PRIMITIVE_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (unwrapped == null) ? type : unwrapped;
}

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/************************************************************************
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* Software Development Group
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
* *
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 *
 * Written by Adam Twiss (adam@zeus.co.uk). March 1996
 *
 * Thanks to the following people for their input:
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