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```

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## 1.115 netty-all 4.0.13.Final

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 */

package io.netty.util.internal.chmv8;

import java.util.concurrent.RecursiveAction;

/**
 * A {@link ForkJoinTask} with a completion action performed when
 * triggered and there are no remaining pending actions.
 * CountedCompleters are in general more robust in the
 * presence of subtask stalls and blockage than are other forms of
```

\* ForkJoinTasks, but are less intuitive to program. Uses of

\* CountedCompleter are similar to those of other completion based

\* components (such as { @link java.nio.channels.CompletionHandler})

\* except that multiple `pending` completions may be necessary

\* to trigger the completion action { @link #onCompletion(CountedCompleter)},

\* not just one.

\* Unless initialized otherwise, the { @linkplain #getPendingCount pending

\* count} starts at zero, but may be (atomically) changed using

\* methods { @link #setPendingCount}, { @link #addToPendingCount}, and

\* { @link #compareAndSetPendingCount}. Upon invocation of { @link

\* #tryComplete}, if the pending action count is nonzero, it is

\* decremented; otherwise, the completion action is performed, and if

\* this completer itself has a completer, the process is continued

\* with its completer. As is the case with related synchronization

\* components such as { @link java.util.concurrent.Phaser Phaser} and

\* { @link java.util.concurrent.Semaphore Semaphore}, these methods

\* affect only internal counts; they do not establish any further

\* internal bookkeeping. In particular, the identities of pending

\* tasks are not maintained. As illustrated below, you can create

\* subclasses that do record some or all pending tasks or their

\* results when needed. As illustrated below, utility methods

\* supporting customization of completion traversals are also

\* provided. However, because CountedCompleters provide only basic

\* synchronization mechanisms, it may be useful to create further

\* abstract subclasses that maintain linkages, fields, and additional

\* support methods appropriate for a set of related usages.

\*

\* `<p>A concrete CountedCompleter class must define method { @link`

\* `#compute}`, that should in most cases (as illustrated below), invoke

\* `{ @code tryComplete() }` once before returning. The class may also

\* optionally override method { @link #onCompletion(CountedCompleter)}

\* to perform an action upon normal completion, and method

\* { @link #onExceptionalCompletion(Throwable, CountedCompleter)} to

\* perform an action upon any exception.

\*

\* `<p>CountedCompleters most often do not bear results, in which case`

\* they are normally declared as { @code CountedCompleter<Void>}, and

\* will always return { @code null} as a result value. In other cases,

\* you should override method { @link #getRawResult} to provide a

\* result from { @code join(), invoke()}, and related methods. In

\* general, this method should return the value of a field (or a

\* function of one or more fields) of the CountedCompleter object that

\* holds the result upon completion. Method { @link #setRawResult} by

\* default plays no role in CountedCompleters. It is possible, but

\* rarely applicable, to override this method to maintain other

\* objects or fields holding result data.

\*

\* `<p>A CountedCompleter that does not itself have a completer (i.e.,`

\* one for which { @link #getCompleter } returns { @code null }) can be  
 \* used as a regular ForkJoinTask with this added functionality.  
 \* However, any completer that in turn has another completer serves  
 \* only as an internal helper for other computations, so its own task  
 \* status (as reported in methods such as { @link ForkJoinTask#isDone })  
 \* is arbitrary; this status changes only upon explicit invocations of  
 \* { @link #complete }, { @link ForkJoinTask#cancel },  
 \* { @link ForkJoinTask#completeExceptionally(Throwable) } or upon  
 \* exceptional completion of method { @code compute }. Upon any  
 \* exceptional completion, the exception may be relayed to a task's  
 \* completer (and its completer, and so on), if one exists and it has  
 \* not otherwise already completed. Similarly, cancelling an internal  
 \* CountedCompleter has only a local effect on that completer, so is  
 \* not often useful.

\*

\* <p><b>Sample Usages.</b></p>

\*

\* <p><b>Parallel recursive decomposition.</b> CountedCompleters may  
 \* be arranged in trees similar to those often used with { @link  
 \* RecursiveAction}s, although the constructions involved in setting  
 \* them up typically vary. Here, the completer of each task is its  
 \* parent in the computation tree. Even though they entail a bit more  
 \* bookkeeping, CountedCompleters may be better choices when applying  
 \* a possibly time-consuming operation (that cannot be further  
 \* subdivided) to each element of an array or collection; especially  
 \* when the operation takes a significantly different amount of time  
 \* to complete for some elements than others, either because of  
 \* intrinsic variation (for example I/O) or auxiliary effects such as  
 \* garbage collection. Because CountedCompleters provide their own  
 \* continuations, other threads need not block waiting to perform  
 \* them.

\*

\* <p>For example, here is an initial version of a class that uses  
 \* divide-by-two recursive decomposition to divide work into single  
 \* pieces (leaf tasks). Even when work is split into individual calls,  
 \* tree-based techniques are usually preferable to directly forking  
 \* leaf tasks, because they reduce inter-thread communication and  
 \* improve load balancing. In the recursive case, the second of each  
 \* pair of subtasks to finish triggers completion of its parent  
 \* (because no result combination is performed, the default no-op  
 \* implementation of method { @code onCompletion } is not overridden).  
 \* A static utility method sets up the base task and invokes it  
 \* (here, implicitly using the { @link ForkJoinPool#commonPool()}).

\*

```
* <pre> { @code
* class MyOperation<E> { void apply(E e) { ... } }
*
* class ForEach<E> extends CountedCompleter<Void> {
```

```

*
* public static <E> void forEach(E[] array, MyOperation<E> op) {
*   new ForEach<E>(null, array, op, 0, array.length).invoke();
* }
*
* final E[] array; final MyOperation<E> op; final int lo, hi;
* ForEach(CountedCompleter<?> p, E[] array, MyOperation<E> op, int lo, int hi) {
*   super(p);
*   this.array = array; this.op = op; this.lo = lo; this.hi = hi;
* }
*
* public void compute() { // version 1
*   if (hi - lo >= 2) {
*     int mid = (lo + hi) >>> 1;
*     setPendingCount(2); // must set pending count before fork
*     new ForEach(this, array, op, mid, hi).fork(); // right child
*     new ForEach(this, array, op, lo, mid).fork(); // left child
*   }
*   else if (hi > lo)
*     op.apply(array[lo]);
*   tryComplete();
* }
* }</pre>

```

\* This design can be improved by noticing that in the recursive case,
 \* the task has nothing to do after forking its right task, so can
 \* directly invoke its left task before returning. (This is an analog
 \* of tail recursion removal.) Also, because the task returns upon
 \* executing its left task (rather than falling through to invoke
 \* {`tryComplete`}) the pending count is set to one:

```

* <pre> { @code
* class ForEach<E> ...
*   public void compute() { // version 2
*     if (hi - lo >= 2) {
*       int mid = (lo + hi) >>> 1;
*       setPendingCount(1); // only one pending
*       new ForEach(this, array, op, mid, hi).fork(); // right child
*       new ForEach(this, array, op, lo, mid).compute(); // direct invoke
*     }
*     else {
*       if (hi > lo)
*         op.apply(array[lo]);
*       tryComplete();
*     }
*   }
* }
* }</pre>

```



- \* As a further improvement, notice that the left task need not even exist.
- \* Instead of creating a new one, we can iterate using the original task,
- \* and add a pending count for each fork. Additionally, because no task
- \* in this tree implements an `{ @link #onCompletion(CountedCompleter)}` method,
- \* `{ @code tryComplete() }` can be replaced with `{ @link #propagateCompletion}`.

```

*
* <pre> { @code
* class ForEach<E> ...
*   public void compute() { // version 3
*     int l = lo, h = hi;
*     while (h - l >= 2) {
*       int mid = (l + h) >>> 1;
*       addToPendingCount(1);
*       new ForEach(this, array, op, mid, h).fork(); // right child
*       h = mid;
*     }
*     if (h > l)
*       op.apply(array[l]);
*     propagateCompletion();
*   }
* }</pre>

```

- \* Additional improvements of such classes might entail precomputing
- \* pending counts so that they can be established in constructors,
- \* specializing classes for leaf steps, subdividing by say, four,
- \* instead of two per iteration, and using an adaptive threshold
- \* instead of always subdividing down to single elements.

**Searching.** A tree of CountedCompleters can search for a value or property in different parts of a data structure, and report a result in an `{ @link java.util.concurrent.atomic.AtomicReference AtomicReference }` as soon as one is found. The others can poll the result to avoid unnecessary work. (You could additionally `{ @linkplain #cancel cancel }` other tasks, but it is usually simpler and more efficient to just let them notice that the result is set and if so skip further processing.) Illustrating again with an array using full partitioning (again, in practice, leaf tasks will almost always process more than one element):

```

* <pre> { @code
* class Searcher<E> extends CountedCompleter<E> {
*   final E[] array; final AtomicReference<E> result; final int lo, hi;
*   Searcher(CountedCompleter<?> p, E[] array, AtomicReference<E> result, int lo, int hi) {
*     super(p);
*     this.array = array; this.result = result; this.lo = lo; this.hi = hi;
*   }
*   public E getRawResult() { return result.get(); }

```

```

* public void compute() { // similar to ForEach version 3
*   int l = lo, h = hi;
*   while (result.get() == null && h >= l) {
*     if (h - l >= 2) {
*       int mid = (l + h) >>> 1;
*       addToPendingCount(1);
*       new Searcher(this, array, result, mid, h).fork();
*       h = mid;
*     }
*     else {
*       E x = array[l];
*       if (matches(x) && result.compareAndSet(null, x))
*         quietlyCompleteRoot(); // root task is now joinable
*       break;
*     }
*   }
*   tryComplete(); // normally complete whether or not found
* }
* boolean matches(E e) { ... } // return true if found
*
* public static <E> E search(E[] array) {
*   return new Searcher<E>(null, array, new AtomicReference<E>(), 0, array.length).invoke();
* }
* }</pre>

```

\* In this example, as well as others in which tasks have no other
 \* effects except to compareAndSet a common result, the trailing
 \* unconditional invocation of { @code tryComplete } could be made
 \* conditional ( { @code if (result.get() == null) tryComplete(); } )
 \* because no further bookkeeping is required to manage completions
 \* once the root task completes.

\* <p><b>Recording subtasks.</b> CountedCompleter tasks that combine
 \* results of multiple subtasks usually need to access these results
 \* in method { @link #onCompletion(CountedCompleter) }. As illustrated in the following
 \* class (that performs a simplified form of map-reduce where mappings
 \* and reductions are all of type { @code E } ), one way to do this in
 \* divide and conquer designs is to have each subtask record its
 \* sibling, so that it can be accessed in method { @code onCompletion }.
 \* This technique applies to reductions in which the order of
 \* combining left and right results does not matter; ordered
 \* reductions require explicit left/right designations. Variants of
 \* other streamlinings seen in the above examples may also apply.

```

* <pre> { @code
* class MyMapper<E> { E apply(E v) { ... } }
* class MyReducer<E> { E apply(E x, E y) { ... } }
* class MapReducer<E> extends CountedCompleter<E> {

```

```

* final E[] array; final MyMapper<E> mapper;
* final MyReducer<E> reducer; final int lo, hi;
* MapReducer<E> sibling;
* E result;
* MapReducer(CountedCompleter<?> p, E[] array, MyMapper<E> mapper,
*     MyReducer<E> reducer, int lo, int hi) {
*     super(p);
*     this.array = array; this.mapper = mapper;
*     this.reducer = reducer; this.lo = lo; this.hi = hi;
* }
* public void compute() {
*     if (hi - lo >= 2) {
*         int mid = (lo + hi) >>> 1;
*         MapReducer<E> left = new MapReducer(this, array, mapper, reducer, lo, mid);
*         MapReducer<E> right = new MapReducer(this, array, mapper, reducer, mid, hi);
*         left.sibling = right;
*         right.sibling = left;
*         setPendingCount(1); // only right is pending
*         right.fork();
*         left.compute(); // directly execute left
*     }
*     else {
*         if (hi > lo)
*             result = mapper.apply(array[lo]);
*         tryComplete();
*     }
* }
* public void onCompletion(CountedCompleter<?> caller) {
*     if (caller != this) {
*         MapReducer<E> child = (MapReducer<E>)caller;
*         MapReducer<E> sib = child.sibling;
*         if (sib == null || sib.result == null)
*             result = child.result;
*         else
*             result = reducer.apply(child.result, sib.result);
*     }
* }
* public E getRawResult() { return result; }
*
* public static <E> E mapReduce(E[] array, MyMapper<E> mapper, MyReducer<E> reducer) {
*     return new MapReducer<E>(null, array, mapper, reducer,
*         0, array.length).invoke();
* }
* }</pre>

```

\* Here, method { @code onCompletion } takes a form common to many  
\* completion designs that combine results. This callback-style method  
\* is triggered once per task, in either of the two different contexts

- \* in which the pending count is, or becomes, zero: (1) by a task
- \* itself, if its pending count is zero upon invocation of { @code
- \* tryComplete }, or (2) by any of its subtasks when they complete and
- \* decrement the pending count to zero. The { @code caller } argument
- \* distinguishes cases. Most often, when the caller is { @code this },
- \* no action is necessary. Otherwise the caller argument can be used
- \* (usually via a cast) to supply a value (and/or links to other
- \* values) to be combined. Assuming proper use of pending counts, the
- \* actions inside { @code onCompletion } occur (once) upon completion of
- \* a task and its subtasks. No additional synchronization is required
- \* within this method to ensure thread safety of accesses to fields of
- \* this task or other completed tasks.

- \*
- \* <p><b>Completion Traversals</b>. If using { @code onCompletion } to
- \* process completions is inapplicable or inconvenient, you can use
- \* methods { @link #firstComplete } and { @link #nextComplete } to create
- \* custom traversals. For example, to define a MapReducer that only
- \* splits out right-hand tasks in the form of the third ForEach
- \* example, the completions must cooperatively reduce along
- \* unexhausted subtask links, which can be done as follows:

- \*
- \* <pre> { @code
- \* class MapReducer<E> extends CountedCompleter<E> { // version 2
- \* final E[] array; final MyMapper<E> mapper;
- \* final MyReducer<E> reducer; final int lo, hi;
- \* MapReducer<E> forks, next; // record subtask forks in list
- \* E result;
- \* MapReducer(CountedCompleter<?> p, E[] array, MyMapper<E> mapper,
- \* MyReducer<E> reducer, int lo, int hi, MapReducer<E> next) {
- \* super(p);
- \* this.array = array; this.mapper = mapper;
- \* this.reducer = reducer; this.lo = lo; this.hi = hi;
- \* this.next = next;
- \* }
- \* public void compute() {
- \* int l = lo, h = hi;
- \* while (h - l >= 2) {
- \* int mid = (l + h) >>> 1;
- \* addToPendingCount(1);
- \* (forks = new MapReducer(this, array, mapper, reducer, mid, h, forks)).fork();
- \* h = mid;
- \* }
- \* if (h > l)
- \* result = mapper.apply(array[l]);
- \* // process completions by reducing along and advancing subtask links
- \* for (CountedCompleter<?> c = firstComplete(); c != null; c = c.nextComplete()) {
- \* for (MapReducer t = (MapReducer)c, s = t.forks; s != null; s = t.forks = s.next)
- \* t.result = reducer.apply(t.result, s.result);

```

* }
* }
* public E getRawResult() { return result; }
*
* public static <E> E mapReduce(E[] array, MyMapper<E> mapper, MyReducer<E> reducer) {
*     return new MapReducer<E>(null, array, mapper, reducer,
*         0, array.length, null).invoke();
* }
* }}</pre>

```

**Triggers.** Some CountedCompleters are themselves never forked, but instead serve as bits of plumbing in other designs; including those in which the completion of one or more async tasks triggers another async task. For example:

```

<pre> { @code
class HeaderBuilder extends CountedCompleter<...> { ... }
class BodyBuilder extends CountedCompleter<...> { ... }
class PacketSender extends CountedCompleter<...> {
    PacketSender(...) { super(null, 1); ... } // trigger on second completion
    public void compute() { } // never called
    public void onCompletion(CountedCompleter<?> caller) { sendPacket(); }
}
// sample use:
PacketSender p = new PacketSender();
new HeaderBuilder(p, ...).fork();
new BodyBuilder(p, ...).fork();
}</pre>

```

```

* @since 1.8
* @author Doug Lea
*/

```

```

@SuppressWarnings("all")
public abstract class CountedCompleter<T> extends ForkJoinTask<T> {
    private static final long serialVersionUID = 5232453752276485070L;

```

```

/** This task's completer, or null if none */
final CountedCompleter<?> completer;
/** The number of pending tasks until completion */
volatile int pending;

```

```

/**
 * Creates a new CountedCompleter with the given completer
 * and initial pending count.
 *
 * @param completer this task's completer, or { @code null } if none
 * @param initialPendingCount the initial pending count
 */

```

```

protected CountedCompleter(CountedCompleter<?> completer,
    int initialPendingCount) {
    this.completer = completer;
    this.pending = initialPendingCount;
}

/**
 * Creates a new CountedCompleter with the given completer
 * and an initial pending count of zero.
 *
 * @param completer this task's completer, or { @code null } if none
 */
protected CountedCompleter(CountedCompleter<?> completer) {
    this.completer = completer;
}

/**
 * Creates a new CountedCompleter with no completer
 * and an initial pending count of zero.
 */
protected CountedCompleter() {
    this.completer = null;
}

/**
 * The main computation performed by this task.
 */
public abstract void compute();

/**
 * Performs an action when method { @link #tryComplete } is invoked
 * and the pending count is zero, or when the unconditional
 * method { @link #complete } is invoked. By default, this method
 * does nothing. You can distinguish cases by checking the
 * identity of the given caller argument. If not equal to { @code
 * this }, then it is typically a subtask that may contain results
 * (and/or links to other results) to combine.
 *
 * @param caller the task invoking this method (which may
 * be this task itself)
 */
public void onCompletion(CountedCompleter<?> caller) {
}

/**
 * Performs an action when method { @link
 * #completeExceptionally(Throwable) } is invoked or method { @link
 * #compute } throws an exception, and this task has not already

```

```

* otherwise completed normally. On entry to this method, this task
* {@link ForkJoinTask#isCompletedAbnormally}. The return value
* of this method controls further propagation: If {@code true}
* and this task has a completer that has not completed, then that
* completer is also completed exceptionally, with the same
* exception as this completer. The default implementation of
* this method does nothing except return {@code true}.
*
* @param ex the exception
* @param caller the task invoking this method (which may
* be this task itself)
* @return {@code true} if this exception should be propagated to this
* task's completer, if one exists
*/
public boolean onExceptionalCompletion(Throwable ex, CountedCompleter<?> caller) {
    return true;
}

/**
 * Returns the completer established in this task's constructor,
 * or {@code null} if none.
 *
 * @return the completer
 */
public final CountedCompleter<?> getCompleter() {
    return completer;
}

/**
 * Returns the current pending count.
 *
 * @return the current pending count
 */
public final int getPendingCount() {
    return pending;
}

/**
 * Sets the pending count to the given value.
 *
 * @param count the count
 */
public final void setPendingCount(int count) {
    pending = count;
}

/**
 * Adds (atomically) the given value to the pending count.

```

```

*
* @param delta the value to add
*/
public final void addToPendingCount(int delta) {
    int c;
    do {} while (!U.compareAndSwapInt(this, PENDING, c = pending, c+delta));
}

/**
* Sets (atomically) the pending count to the given count only if
* it currently holds the given expected value.
*
* @param expected the expected value
* @param count the new value
* @return {@code true} if successful
*/
public final boolean compareAndSetPendingCount(int expected, int count) {
    return U.compareAndSwapInt(this, PENDING, expected, count);
}

/**
* If the pending count is nonzero, (atomically) decrements it.
*
* @return the initial (undecremented) pending count holding on entry
* to this method
*/
public final int decrementPendingCountUnlessZero() {
    int c;
    do {} while ((c = pending) != 0 &&
        !U.compareAndSwapInt(this, PENDING, c, c - 1));
    return c;
}

/**
* Returns the root of the current computation; i.e., this
* task if it has no completer, else its completer's root.
*
* @return the root of the current computation
*/
public final CountedCompleter<?> getRoot() {
    CountedCompleter<?> a = this, p;
    while ((p = a.completer) != null)
        a = p;
    return a;
}

/**
* If the pending count is nonzero, decrements the count;

```



```

* otherwise invokes { @link #onCompletion(CountedCompleter) }
* and then similarly tries to complete this task's completer,
* if one exists, else marks this task as complete.
*/
public final void tryComplete() {
    CountedCompleter<?> a = this, s = a;
    for (int c;;) {
        if ((c = a.pending) == 0) {
            a.onCompletion(s);
            if ((a = (s = a).completer) == null) {
                s.quietlyComplete();
                return;
            }
        }
        else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
            return;
    }
}

/**
 * Equivalent to { @link #tryComplete } but does not invoke { @link
 * #onCompletion(CountedCompleter) } along the completion path:
 * If the pending count is nonzero, decrements the count;
 * otherwise, similarly tries to complete this task's completer, if
 * one exists, else marks this task as complete. This method may be
 * useful in cases where { @code onCompletion } should not, or need
 * not, be invoked for each completer in a computation.
 */
public final void propagateCompletion() {
    CountedCompleter<?> a = this, s = a;
    for (int c;;) {
        if ((c = a.pending) == 0) {
            if ((a = (s = a).completer) == null) {
                s.quietlyComplete();
                return;
            }
        }
        else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
            return;
    }
}

/**
 * Regardless of pending count, invokes
 * { @link #onCompletion(CountedCompleter) }, marks this task as
 * complete and further triggers { @link #tryComplete } on this
 * task's completer, if one exists. The given rawResult is
 * used as an argument to { @link #setRawResult } before invoking

```

```

* {@link #onCompletion(CountedCompleter)} or marking this task
* as complete; its value is meaningful only for classes
* overriding {@code setRawResult}. This method does not modify
* the pending count.
*
* <p>This method may be useful when forcing completion as soon as
* any one (versus all) of several subtask results are obtained.
* However, in the common (and recommended) case in which {@code
* setRawResult} is not overridden, this effect can be obtained
* more simply using {@code quietlyCompleteRoot();}.
*
* @param rawResult the raw result
*/
public void complete(T rawResult) {
    CountedCompleter<?> p;
    setRawResult(rawResult);
    onCompletion(this);
    quietlyComplete();
    if ((p = completer) != null)
        p.tryComplete();
}

/**
* If this task's pending count is zero, returns this task;
* otherwise decrements its pending count and returns {@code
* null}. This method is designed to be used with {@link
* #nextComplete} in completion traversal loops.
*
* @return this task, if pending count was zero, else {@code null}
*/
public final CountedCompleter<?> firstComplete() {
    for (int c;;) {
        if ((c = pending) == 0)
            return this;
        else if (U.compareAndSwapInt(this, PENDING, c, c - 1))
            return null;
    }
}

/**
* If this task does not have a completer, invokes {@link
* ForkJoinTask#quietlyComplete} and returns {@code null}. Or, if
* the completer's pending count is non-zero, decrements that
* pending count and returns {@code null}. Otherwise, returns the
* completer. This method can be used as part of a completion
* traversal loop for homogeneous task hierarchies:
*

```

```

* <pre> { @code
* for (CountedCompleter<?> c = firstComplete());
*   c != null;
*   c = c.nextComplete()) {
* // ... process c ...
* }</pre>
*
* @return the completer, or { @code null } if none
*/
public final CountedCompleter<?> nextComplete() {
    CountedCompleter<?> p;
    if ((p = completer) != null)
        return p.firstComplete();
    else {
        quietlyComplete();
        return null;
    }
}

/**
* Equivalent to { @code getRoot().quietlyComplete()}.
*/
public final void quietlyCompleteRoot() {
    for (CountedCompleter<?> a = this, p;;) {
        if ((p = a.completer) == null) {
            a.quietlyComplete();
            return;
        }
        a = p;
    }
}

/**
* Supports ForkJoinTask exception propagation.
*/
void internalPropagateException(Throwable ex) {
    CountedCompleter<?> a = this, s = a;
    while (a.onExceptionalCompletion(ex, s) &&
        (a = (s = a).completer) != null && a.status >= 0 &&
        a.recordExceptionalCompletion(ex) == EXCEPTIONAL)
        ;
}

/**
* Implements execution conventions for CountedCompleters.
*/
protected final boolean exec() {
    compute();
}

```

```

    return false;
}

/**
 * Returns the result of the computation. By default
 * returns {@code null}, which is appropriate for {@code Void}
 * actions, but in other cases should be overridden, almost
 * always to return a field or function of a field that
 * holds the result upon completion.
 *
 * @return the result of the computation
 */
public T getRawResult() { return null; }

/**
 * A method that result-bearing CountedCompleters may optionally
 * use to help maintain result data. By default, does nothing.
 * Overrides are not recommended. However, if this method is
 * overridden to update existing objects or fields, then it must
 * in general be defined to be thread-safe.
 */
protected void setRawResult(T t) { }

// Unsafe mechanics
private static final sun.misc.Unsafe U;
private static final long PENDING;
static {
    try {
        U = getUnsafe();
        PENDING = U.objectFieldOffset
            (CountedCompleter.class.getDeclaredField("pending"));
    } catch (Exception e) {
        throw new Error(e);
    }
}

/**
 * Returns a sun.misc.Unsafe. Suitable for use in a 3rd party package.
 * Replace with a simple call to Unsafe.getUnsafe when integrating
 * into a jdk.
 *
 * @return a sun.misc.Unsafe
 */
private static sun.misc.Unsafe getUnsafe() {
    try {
        return sun.misc.Unsafe.getUnsafe();
    } catch (SecurityException tryReflectionInstead) {}
    try {

```

```

return java.security.AccessController.doPrivileged
    (new java.security.PrivilegedExceptionAction<sun.misc.Unsafe>() {
        public sun.misc.Unsafe run() throws Exception {
            Class<sun.misc.Unsafe> k = sun.misc.Unsafe.class;
            for (java.lang.reflect.Field f : k.getDeclaredFields()) {
                f.setAccessible(true);
                Object x = f.get(null);
                if (k.isInstance(x))
                    return k.cast(x);
            }
            throw new NoSuchFieldError("the Unsafe");
        }
    });
} catch (java.security.PrivilegedActionException e) {
    throw new RuntimeException("Could not initialize intrinsics",
        e.getCause());
}
}
}
/*
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 * License for the specific language governing permissions and limitations
 * under the License.
 */

package io.netty.util.concurrent;

import java.util.concurrent.TimeUnit;

/**
 * A skeletal {@link Future} implementation which represents a {@link Future} which has been completed already.
 */
public abstract class CompleteFuture<V> extends AbstractFuture<V> {

    private final EventExecutor executor;

    /**
     * Creates a new instance.
     */

```

```

* @param executor the {@link EventExecutor} associated with this future
*/
protected CompleteFuture(EventExecutor executor) {
    this.executor = executor;
}

/**
* Return the {@link EventExecutor} which is used by this {@link CompleteFuture}.
*/
protected EventExecutor executor() {
    return executor;
}

@Override
public Future<V> addListener(GenericFutureListener<? extends Future<? super V>> listener) {
    if (listener == null) {
        throw new NullPointerException("listener");
    }
    DefaultPromise.notifyListener(executor(), this, listener);
    return this;
}

@Override
public Future<V> addListeners(GenericFutureListener<? extends Future<? super V>>... listeners) {
    if (listeners == null) {
        throw new NullPointerException("listeners");
    }
    for (GenericFutureListener<? extends Future<? super V>> l: listeners) {
        if (l == null) {
            break;
        }
        DefaultPromise.notifyListener(executor(), this, l);
    }
    return this;
}

@Override
public Future<V> removeListener(GenericFutureListener<? extends Future<? super V>> listener) {
    // NOOP
    return this;
}

@Override
public Future<V> removeListeners(GenericFutureListener<? extends Future<? super V>>... listeners) {
    // NOOP
    return this;
}

```

```
@Override
public Future<V> await() throws InterruptedException {
    if (Thread.interrupted()) {
        throw new InterruptedException();
    }
    return this;
}
```

```
@Override
public boolean await(long timeout, TimeUnit unit) throws InterruptedException {
    if (Thread.interrupted()) {
        throw new InterruptedException();
    }
    return true;
}
```

```
@Override
public Future<V> sync() throws InterruptedException {
    return this;
}
```

```
@Override
public Future<V> syncUninterruptibly() {
    return this;
}
```

```
@Override
public boolean await(long timeoutMillis) throws InterruptedException {
    if (Thread.interrupted()) {
        throw new InterruptedException();
    }
    return true;
}
```

```
@Override
public Future<V> awaitUninterruptibly() {
    return this;
}
```

```
@Override
public boolean awaitUninterruptibly(long timeout, TimeUnit unit) {
    return true;
}
```

```
@Override
public boolean awaitUninterruptibly(long timeoutMillis) {
    return true;
}
```

```

@Override
public boolean isDone() {
    return true;
}

@Override
public boolean isCancellable() {
    return false;
}

@Override
public boolean isCancelled() {
    return false;
}

@Override
public boolean cancel(boolean mayInterruptIfRunning) {
    return false;
}
}
/*
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 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */

package io.netty.util;

/**
 * An {@link IllegalStateException} which is raised when a user attempts to access a {@link ReferenceCounted}
 * whose
 * reference count has been decreased to 0 (and consequently freed).
 */
public class IllegalReferenceCountException extends IllegalStateException {

    private static final long serialVersionUID = -2507492394288153468L;

```



```

public IllegalReferenceCountException() { }

public IllegalReferenceCountException(int refCnt) {
    this("refCnt: " + refCnt);
}

public IllegalReferenceCountException(int refCnt, int increment) {
    this("refCnt: " + refCnt + ", " + (increment > 0? "increment: " + increment : "decrement: " + -increment));
}

public IllegalReferenceCountException(String message) {
    super(message);
}

public IllegalReferenceCountException(String message, Throwable cause) {
    super(message, cause);
}

public IllegalReferenceCountException(Throwable cause) {
    super(cause);
}
}
}
/*
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 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */
package io.netty.channel;

import io.netty.util.ReferenceCountUtil;
import io.netty.util.internal.TypeParameterMatcher;

/**
 * {@link ChannelInboundHandlerAdapter} which allows to explicit only handle a specific type of messages.
 *
 * For example here is an implementation which only handle {@link String} messages.
 *
 * <pre>

```

```

* public class StringHandler extends
*     { @link SimpleChannelInboundHandler}&lt;&gt;{@link String}&gt; {
*
*     {@code @Override}
*     protected void channelRead0({ @link ChannelHandlerContext} ctx, { @link String} message)
*         throws { @link Exception} {
*         System.out.println(message);
*     }
* }
* </pre>

```

\* Be aware that depending of the constructor parameters it will release all handled messages.

\* <h3>Forward compatibility notice</h3>

\* <p>

\* Please keep in mind that { @link #channelRead0(ChannelHandlerContext, Object)} will be renamed to

\* { @code messageReceived(ChannelHandlerContext, I)} in 5.0.

\* </p>

\*/

```

public abstract class SimpleChannelInboundHandler<I> extends ChannelInboundHandlerAdapter {

```

```

    private final TypeParameterMatcher matcher;

```

```

    private final boolean autoRelease;

```

```

    /**

```

```

     * @see { @link #SimpleChannelInboundHandler(boolean)} with { @code true} as boolean parameter.

```

```

     */

```

```

    protected SimpleChannelInboundHandler() {

```

```

        this(true);

```

```

    }

```

```

    /**

```

```

     * Create a new instance which will try to detect the types to match out of the type parameter of the class.

```

```

     *

```

```

     * @param autoRelease { @code true} if handled messages should be released automatically by pass them to

```

```

     *     { @link ReferenceCountUtil#release(Object)}.

```

```

     */

```

```

    protected SimpleChannelInboundHandler(boolean autoRelease) {

```

```

        matcher = TypeParameterMatcher.find(this, SimpleChannelInboundHandler.class, "I");

```

```

        this.autoRelease = autoRelease;

```

```

    }

```

```

    /**

```

```

     * @see { @link #SimpleChannelInboundHandler(Class, boolean)} with { @code true} as boolean value.

```

```

     */

```

```

    protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType) {

```

```

        this(inboundMessageType, true);

```

```

    }

```

```

/**
 * Create a new instance
 *
 * @param inboundMessageType The type of messages to match
 * @param autoRelease        {@code true} if handled messages should be released automatically by pass them to
 *                            {@link ReferenceCountUtil#release(Object)}.
 */
protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType, boolean autoRelease) {
    matcher = TypeParameterMatcher.get(inboundMessageType);
    this.autoRelease = autoRelease;
}

/**
 * Returns {@code true} if the given message should be handled. If {@code false} it will be passed to the next
 * {@link ChannelInboundHandler} in the {@link ChannelPipeline}.
 */
public boolean acceptInboundMessage(Object msg) throws Exception {
    return matcher.match(msg);
}

@Override
public void channelRead(ChannelHandlerContext ctx, Object msg) throws Exception {
    boolean release = true;
    try {
        if (acceptInboundMessage(msg)) {
            @SuppressWarnings("unchecked")
            I imsg = (I) msg;
            channelRead0(ctx, imsg);
        } else {
            release = false;
            ctx.fireChannelRead(msg);
        }
    } finally {
        if (autoRelease && release) {
            ReferenceCountUtil.release(msg);
        }
    }
}

/**
 * <strong>Please keep in mind that this method will be renamed to
 * {@code messageReceived(ChannelHandlerContext, I)} in 5.0.</strong>
 *
 * Is called for each message of type {@link I}.
 *
 * @param ctx the {@link ChannelHandlerContext} which this {@link SimpleChannelInboundHandler}
 * belongs to

```

```

    * @param msg      the message to handle
    * @throws Exception is thrown if an error occurred
    */
    protected abstract void channelRead0(ChannelHandlerContext ctx, I msg) throws Exception;
}
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 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */
package io.netty.channel;

import io.netty.util.concurrent.CompleteFuture;
import io.netty.util.concurrent.EventExecutor;
import io.netty.util.concurrent.Future;
import io.netty.util.concurrent.GenericFutureListener;

/**
 * A skeletal {@link ChannelFuture} implementation which represents a
 * {@link ChannelFuture} which has been completed already.
 */
abstract class CompleteChannelFuture extends CompleteFuture<Void> implements ChannelFuture {

    private final Channel channel;

    /**
     * Creates a new instance.
     *
     * @param channel the {@link Channel} associated with this future
     */
    protected CompleteChannelFuture(Channel channel, EventExecutor executor) {
        super(executor);
        if (channel == null) {
            throw new NullPointerException("channel");
        }
        this.channel = channel;
    }
}

```

```

@Override
protected EventExecutor executor() {
    EventExecutor e = super.executor();
    if (e == null) {
        return channel().eventLoop();
    } else {
        return e;
    }
}

```

```

@Override
public ChannelFuture addListener(GenericFutureListener<? extends Future<? super Void>> listener) {
    super.addListener(listener);
    return this;
}

```

```

@Override
public ChannelFuture addListeners(GenericFutureListener<? extends Future<? super Void>>... listeners) {
    super.addListeners(listeners);
    return this;
}

```

```

@Override
public ChannelFuture removeListener(GenericFutureListener<? extends Future<? super Void>> listener) {
    super.removeListener(listener);
    return this;
}

```

```

@Override
public ChannelFuture removeListeners(GenericFutureListener<? extends Future<? super Void>>... listeners) {
    super.removeListeners(listeners);
    return this;
}

```

```

@Override
public ChannelFuture syncUninterruptibly() {
    return this;
}

```

```

@Override
public ChannelFuture sync() throws InterruptedException {
    return this;
}

```

```

@Override
public ChannelFuture await() throws InterruptedException {
    return this;
}

```

```

@Override
public ChannelFuture awaitUninterruptibly() {
    return this;
}

@Override
public Channel channel() {
    return channel;
}

@Override
public Void getNow() {
    return null;
}
}
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 */
package io.netty.buffer;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

/**
 * A derived buffer which simply forwards all data access requests to its
 * parent. It is recommended to use { @link ByteBuffer#duplicate() } instead
 * of calling the constructor explicitly.
 */
public class DuplicatedByteBuffer extends AbstractDerivedByteBuffer {

```

```

private final ByteBuf buffer;

public DuplicatedByteBuf(ByteBuf buffer) {
    super(buffer.maxCapacity());

    if (buffer instanceof DuplicatedByteBuf) {
        this.buffer = ((DuplicatedByteBuf) buffer).buffer;
    } else {
        this.buffer = buffer;
    }

    setIndex(buffer.readerIndex(), buffer.writerIndex());
}

@Override
public ByteBuf unwrap() {
    return buffer;
}

@Override
public ByteBufAllocator alloc() {
    return buffer.alloc();
}

@Override
public ByteOrder order() {
    return buffer.order();
}

@Override
public boolean isDirect() {
    return buffer.isDirect();
}

@Override
public int capacity() {
    return buffer.capacity();
}

@Override
public ByteBuf capacity(int newCapacity) {
    buffer.capacity(newCapacity);
    return this;
}

@Override
public boolean hasArray() {

```

```

    return buffer.hasArray();
}

@Override
public byte[] array() {
    return buffer.array();
}

@Override
public int arrayOffset() {
    return buffer.arrayOffset();
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

@Override
public long memoryAddress() {
    return buffer.memoryAddress();
}

@Override
public byte getByte(int index) {
    return _getByte(index);
}

@Override
protected byte _getByte(int index) {
    return buffer.getByte(index);
}

@Override
public short getShort(int index) {
    return _getShort(index);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index);
}

@Override
public int getUnsignedMedium(int index) {
    return _getUnsignedMedium(index);
}
}

```



```

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index);
}

@Override
public int getInt(int index) {
    return _getInt(index);
}

@Override
protected int _getInt(int index) {
    return buffer.getInt(index);
}

@Override
public long getLong(int index) {
    return _getLong(index);
}

@Override
protected long _getLong(int index) {
    return buffer.getLong(index);
}

@Override
public ByteBuf copy(int index, int length) {
    return buffer.copy(index, length);
}

@Override
public ByteBuf slice(int index, int length) {
    return buffer.slice(index, length);
}

@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}

@Override

```

```
public ByteBuf getBytes(int index, ByteBuffer dst) {
    buffer.getBytes(index, dst);
    return this;
}
```

```
@Override
public ByteBuf setByte(int index, int value) {
    _setByte(index, value);
    return this;
}
```

```
@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index, value);
}
```

```
@Override
public ByteBuf setShort(int index, int value) {
    _setShort(index, value);
    return this;
}
```

```
@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index, value);
}
```

```
@Override
public ByteBuf setMedium(int index, int value) {
    _setMedium(index, value);
    return this;
}
```

```
@Override
protected void _setMedium(int index, int value) {
    buffer.setMedium(index, value);
}
```

```
@Override
public ByteBuf setInt(int index, int value) {
    _setInt(index, value);
    return this;
}
```

```
@Override
protected void _setInt(int index, int value) {
    buffer.setInt(index, value);
}
```

```

@Override
public ByteBuf setLong(int index, long value) {
    _setLong(index, value);
    return this;
}

@Override
protected void _setLong(int index, long value) {
    buffer.setLong(index, value);
}

@Override
public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
    buffer.setBytes(index, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
    buffer.setBytes(index, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
    buffer.setBytes(index, src);
    return this;
}

@Override
public ByteBuf getBytes(int index, OutputStream out, int length)
    throws IOException {
    buffer.getBytes(index, out, length);
    return this;
}

@Override
public int getBytes(int index, GatheringByteChannel out, int length)
    throws IOException {
    return buffer.getBytes(index, out, length);
}

@Override
public int setBytes(int index, InputStream in, int length)
    throws IOException {
    return buffer.setBytes(index, in, length);
}

```

```

@Override
public int setBytes(int index, ScatteringByteChannel in, int length)
    throws IOException {
    return buffer.setBytes(index, in, length);
}

@Override
public int.nioBufferCount() {
    return buffer.nioBufferCount();
}

@Override
public ByteBuffer[].nioBuffers(int index, int length) {
    return buffer.nioBuffers(index, length);
}

@Override
public ByteBuffer internalNioBuffer(int index, int length) {
    return nioBuffer(index, length);
}

@Override
public int.forEachByte(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByte(index, length, processor);
}

@Override
public int.forEachByteDesc(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByteDesc(index, length, processor);
}
}
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 */
package io.netty.buffer;

```

```

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

/**
 * A derived buffer which exposes its parent's sub-region only. It is
 * recommended to use {@link ByteBuffer#slice()} and
 * {@link ByteBuffer#slice(int, int)} instead of calling the constructor
 * explicitly.
 */
public class SlicedByteBuffer extends AbstractDerivedByteBuffer {

    private final ByteBuffer buffer;
    private final int adjustment;
    private final int length;

    public SlicedByteBuffer(ByteBuffer buffer, int index, int length) {
        super(length);
        if (index < 0 || index > buffer.capacity() - length) {
            throw new IndexOutOfBoundsException(buffer.toString() + ".slice(" + index + ", " + length + ")");
        }

        if (buffer instanceof SlicedByteBuffer) {
            this.buffer = ((SlicedByteBuffer) buffer).buffer;
            adjustment = ((SlicedByteBuffer) buffer).adjustment + index;
        } else if (buffer instanceof DuplicatedByteBuffer) {
            this.buffer = buffer.unwrap();
            adjustment = index;
        } else {
            this.buffer = buffer;
            adjustment = index;
        }
        this.length = length;

        writerIndex(length);
    }

    @Override
    public ByteBuffer unwrap() {
        return buffer;
    }
}

```

```

@Override
public ByteBufAllocator alloc() {
    return buffer.alloc();
}

@Override
public ByteOrder order() {
    return buffer.order();
}

@Override
public boolean isDirect() {
    return buffer.isDirect();
}

@Override
public int capacity() {
    return length;
}

@Override
public ByteBuf capacity(int newCapacity) {
    throw new UnsupportedOperationException("sliced buffer");
}

@Override
public boolean hasArray() {
    return buffer.hasArray();
}

@Override
public byte[] array() {
    return buffer.array();
}

@Override
public int arrayOffset() {
    return buffer.arrayOffset() + adjustment;
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

@Override
public long memoryAddress() {
    return buffer.memoryAddress() + adjustment;
}

```

```

}

@Override
protected byte _getBytes(int index) {
    return buffer.getBytes(index + adjustment);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index + adjustment);
}

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index + adjustment);
}

@Override
protected int _getInt(int index) {
    return buffer.getInt(index + adjustment);
}

@Override
protected long _getLong(int index) {
    return buffer.getLong(index + adjustment);
}

@Override
public ByteBuf duplicate() {
    ByteBuf duplicate = buffer.slice(adjustment, length);
    duplicate.setIndex(readerIndex(), writerIndex());
    return duplicate;
}

@Override
public ByteBuf copy(int index, int length) {
    checkIndex(index, length);
    return buffer.copy(index + adjustment, length);
}

@Override
public ByteBuf slice(int index, int length) {
    checkIndex(index, length);
    if (length == 0) {
        return Unpooled.EMPTY_BUFFER;
    }
    return buffer.slice(index + adjustment, length);
}

```

```
@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}
```

```
@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}
```

```
@Override
public ByteBuf getBytes(int index, ByteBuffer dst) {
    checkIndex(index, dst.remaining());
    buffer.getBytes(index + adjustment, dst);
    return this;
}
```

```
@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index + adjustment, value);
}
```

```
@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index + adjustment, value);
}
```

```
@Override
protected void _setMedium(int index, int value) {
    buffer.setMedium(index + adjustment, value);
}
```

```
@Override
protected void _setInt(int index, int value) {
    buffer.setInt(index + adjustment, value);
}
```

```
@Override
protected void _setLong(int index, long value) {
    buffer.setLong(index + adjustment, value);
}
```

```
@Override
```



```

public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

```

```

@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

```

```

@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
    checkIndex(index, src.remaining());
    buffer.setBytes(index + adjustment, src);
    return this;
}

```

```

@Override
public ByteBuf getBytes(int index, OutputStream out, int length) throws IOException {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, out, length);
    return this;
}

```

```

@Override
public int getBytes(int index, GatheringByteChannel out, int length) throws IOException {
    checkIndex(index, length);
    return buffer.getBytes(index + adjustment, out, length);
}

```

```

@Override
public int setBytes(int index, InputStream in, int length) throws IOException {
    checkIndex(index, length);
    return buffer.setBytes(index + adjustment, in, length);
}

```

```

@Override
public int setBytes(int index, ScatteringByteChannel in, int length) throws IOException {
    checkIndex(index, length);
    return buffer.setBytes(index + adjustment, in, length);
}

```

```

@Override
public int nioBufferCount() {
    return buffer.nioBufferCount();
}

```

```

}

@Override
public ByteBuffer.nioBuffer(int index, int length) {
    checkIndex(index, length);
    return buffer.nioBuffer(index + adjustment, length);
}

@Override
public ByteBuffer[].nioBuffers(int index, int length) {
    checkIndex(index, length);
    return buffer.nioBuffers(index + adjustment, length);
}

@Override
public ByteBuffer internalNioBuffer(int index, int length) {
    checkIndex(index, length);
    return nioBuffer(index, length);
}

@Override
public int.forEachByte(int index, int length, ByteBufProcessor processor) {
    int ret = buffer.forEachByte(index + adjustment, length, processor);
    if (ret >= adjustment) {
        return ret - adjustment;
    } else {
        return -1;
    }
}

@Override
public int.forEachByteDesc(int index, int length, ByteBufProcessor processor) {
    int ret = buffer.forEachByteDesc(index + adjustment, length, processor);
    if (ret >= adjustment) {
        return ret - adjustment;
    } else {
        return -1;
    }
}
}
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```

```

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*/
package io.netty.handler.codec.marshalling;

import org.jboss.marshalling.ByteInput;

import java.io.IOException;

/**
 * {@link ByteInput} implementation which wraps another {@link ByteInput} and throws a {@link
 * TooBigObjectException}
 * if the read limit was reached.
 */
class LimitingByteInput implements ByteInput {

    // Use a static instance here to remove the overhead of fillStackTrace
    private static final TooBigObjectException EXCEPTION = new TooBigObjectException();

    private final ByteInput input;
    private final long limit;
    private long read;

    public LimitingByteInput(ByteInput input, long limit) {
        if (limit <= 0) {
            throw new IllegalArgumentException("The limit MUST be > 0");
        }
        this.input = input;
        this.limit = limit;
    }

    @Override
    public void close() throws IOException {
        // Nothing to do
    }

    @Override
    public int available() throws IOException {
        return readable(input.available());
    }

    @Override
    public int read() throws IOException {
        int readable = readable(1);

```

```

    if (readable > 0) {
        int b = input.read();
        read++;
        return b;
    } else {
        throw EXCEPTION;
    }
}

@Override
public int read(byte[] array) throws IOException {
    return read(array, 0, array.length);
}

@Override
public int read(byte[] array, int offset, int length) throws IOException {
    int readable = readable(length);
    if (readable > 0) {
        int i = input.read(array, offset, readable);
        read += i;
        return i;
    } else {
        throw EXCEPTION;
    }
}

@Override
public long skip(long bytes) throws IOException {
    int readable = readable((int) bytes);
    if (readable > 0) {
        long i = input.skip(readable);
        read += i;
        return i;
    } else {
        throw EXCEPTION;
    }
}

private int readable(int length) {
    return (int) Math.min(length, limit - read);
}

/**
 * Exception that will get thrown if the {@link Object} is too big to unmarshall
 *
 */
static final class TooBigObjectException extends IOException {
    private static final long serialVersionUID = 1L;
}

```

```

    }
}
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 */

package io.netty.handler.codec.sctp;

import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;
import io.netty.channel.ChannelHandlerContext;
import io.netty.channel.ChannelInboundHandler;
import io.netty.channel.sctp.SctpMessage;
import io.netty.handler.codec.MessageToMessageDecoder;

import java.util.HashMap;
import java.util.List;
import java.util.Map;

/**
 * {@link MessageToMessageDecoder} which will take care of handle fragmented {@link SctpMessage}s, so
 * only <strong>complete</strong> {@link SctpMessage}s will be forwarded to the next
 * {@link ChannelInboundHandler}.
 */
public class SctpMessageCompletionHandler extends MessageToMessageDecoder<SctpMessage> {
    private final Map<Integer, ByteBuf> fragments = new HashMap<Integer, ByteBuf>();

    @Override
    protected void decode(ChannelHandlerContext ctx, SctpMessage msg, List<Object> out) throws Exception {
        final ByteBuf byteBuf = msg.content();
        final int protocolIdentifier = msg.protocolIdentifier();
        final int streamIdentifier = msg.streamIdentifier();
        final boolean isComplete = msg.isComplete();

        ByteBuf frag;
        if (fragments.containsKey(streamIdentifier)) {

```

```

        frag = fragments.remove(streamIdentifier);
    } else {
        frag = Unpooled.EMPTY_BUFFER;
    }

    if (isComplete && !frag.isReadable()) {
        //data chunk is not fragmented
        out.add(msg);
    } else if (!isComplete && frag.isReadable()) {
        //more message to complete
        fragments.put(streamIdentifier, Unpooled.wrappedBuffer(frag, byteBuf));
    } else if (isComplete && frag.isReadable()) {
        //last message to complete
        fragments.remove(streamIdentifier);
        SctpMessage assembledMsg = new SctpMessage(
            protocolIdentifier,
            streamIdentifier,
            Unpooled.wrappedBuffer(frag, byteBuf));
        out.add(assembledMsg);
    } else {
        //first incomplete message
        fragments.put(streamIdentifier, byteBuf);
    }
    byteBuf.retain();
}
}
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 */
package io.netty.handler.codec;

import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;

/**
 * A set of commonly used delimiters for { @link DelimiterBasedFrameDecoder}.

```

```

*/
public final class Delimiters {

    /**
     * Returns a {@code NUL (0x00)} delimiter, which could be used for
     * Flash XML socket or any similar protocols.
     */
    public static ByteBuf[] nulDelimiter() {
        return new ByteBuf[] {
            Unpooled.wrappedBuffer(new byte[] { 0 });
        }

    /**
     * Returns {@code CR ('\r')} and {@code LF ('\n')} delimiters, which could
     * be used for text-based line protocols.
     */
    public static ByteBuf[] lineDelimiter() {
        return new ByteBuf[] {
            Unpooled.wrappedBuffer(new byte[] { '\r', '\n' }),
            Unpooled.wrappedBuffer(new byte[] { '\n' }),
        };
    }

    private Delimiters() {
        // Unused
    }
}

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 * under the License.
 */
package io.netty.handler.codec;

import io.netty.buffer.ByteBuf;
import io.netty.channel.ChannelHandlerContext;

import java.util.List;

```

```

/**
 * A decoder that splits the received { @link ByteBuf}s by one or more
 * delimiters. It is particularly useful for decoding the frames which ends
 * with a delimiter such as { @link Delimiters#nulDelimiter() NUL} or
 * { @linkplain Delimiters#lineDelimiter() newline characters}.
 *
 * <h3>Predefined delimiters</h3>
 * <p>
 * { @link Delimiters} defines frequently used delimiters for convenience' sake.
 *
 * <h3>Specifying more than one delimiter</h3>
 * <p>
 * { @link DelimiterBasedFrameDecoder} allows you to specify more than one
 * delimiter. If more than one delimiter is found in the buffer, it chooses
 * the delimiter which produces the shortest frame. For example, if you have
 * the following data in the buffer:
 * <pre>
 * +-----+
 * | ABC\nDEF\r\n |
 * +-----+
 * </pre>
 * a { @link DelimiterBasedFrameDecoder}({ @link Delimiters#lineDelimiter() Delimiters.lineDelimiter()})
 * will choose { @code '\n'} as the first delimiter and produce two frames:
 * <pre>
 * +----+-----+
 * | ABC | DEF |
 * +----+-----+
 * </pre>
 * rather than incorrectly choosing { @code '\r\n'} as the first delimiter:
 * <pre>
 * +-----+
 * | ABC\nDEF |
 * +-----+
 * </pre>
 */
public class DelimiterBasedFrameDecoder extends ByteToMessageDecoder {

    private final ByteBuf[] delimiters;
    private final int maxFrameLength;
    private final boolean stripDelimiter;
    private final boolean failFast;
    private boolean discardingTooLongFrame;
    private int tooLongFrameLength;
    /** Set only when decoding with "\n" and "\r\n" as the delimiter. */
    private final LineBasedFrameDecoder lineBasedDecoder;

/**

```



```

* Creates a new instance.
*
* @param maxFrameLength the maximum length of the decoded frame.
*     A { @link TooLongFrameException } is thrown if
*     the length of the frame exceeds this value.
* @param delimiter the delimiter
*/
public DelimiterBasedFrameDecoder(int maxFrameLength, ByteBuf delimiter) {
    this(maxFrameLength, true, delimiter);
}

/**
* Creates a new instance.
*
* @param maxFrameLength the maximum length of the decoded frame.
*     A { @link TooLongFrameException } is thrown if
*     the length of the frame exceeds this value.
* @param stripDelimiter whether the decoded frame should strip out the
*     delimiter or not
* @param delimiter the delimiter
*/
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, ByteBuf delimiter) {
    this(maxFrameLength, stripDelimiter, true, delimiter);
}

/**
* Creates a new instance.
*
* @param maxFrameLength the maximum length of the decoded frame.
*     A { @link TooLongFrameException } is thrown if
*     the length of the frame exceeds this value.
* @param stripDelimiter whether the decoded frame should strip out the
*     delimiter or not
* @param failFast If <tt>true</tt>, a { @link TooLongFrameException } is
*     thrown as soon as the decoder notices the length of the
*     frame will exceed <tt>maxFrameLength</tt> regardless of
*     whether the entire frame has been read.
*     If <tt>false</tt>, a { @link TooLongFrameException } is
*     thrown after the entire frame that exceeds
*     <tt>maxFrameLength</tt> has been read.
* @param delimiter the delimiter
*/
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, boolean failFast,
    ByteBuf delimiter) {
    this(maxFrameLength, stripDelimiter, failFast, new ByteBuf[] {
        delimiter.slice(delimiter.readerIndex(), delimiter.readableBytes())});
}

```

```

}

/**
 * Creates a new instance.
 *
 * @param maxFrameLength the maximum length of the decoded frame.
 *     A { @link TooLongFrameException } is thrown if
 *     the length of the frame exceeds this value.
 * @param delimiters the delimiters
 */
public DelimiterBasedFrameDecoder(int maxFrameLength, ByteBuf... delimiters) {
    this(maxFrameLength, true, delimiters);
}

/**
 * Creates a new instance.
 *
 * @param maxFrameLength the maximum length of the decoded frame.
 *     A { @link TooLongFrameException } is thrown if
 *     the length of the frame exceeds this value.
 * @param stripDelimiter whether the decoded frame should strip out the
 *     delimiter or not
 * @param delimiters the delimiters
 */
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, ByteBuf... delimiters) {
    this(maxFrameLength, stripDelimiter, true, delimiters);
}

/**
 * Creates a new instance.
 *
 * @param maxFrameLength the maximum length of the decoded frame.
 *     A { @link TooLongFrameException } is thrown if
 *     the length of the frame exceeds this value.
 * @param stripDelimiter whether the decoded frame should strip out the
 *     delimiter or not
 * @param failFast If <tt>true</tt>, a { @link TooLongFrameException } is
 *     thrown as soon as the decoder notices the length of the
 *     frame will exceed <tt>maxFrameLength</tt> regardless of
 *     whether the entire frame has been read.
 *     If <tt>>false</tt>, a { @link TooLongFrameException } is
 *     thrown after the entire frame that exceeds
 *     <tt>maxFrameLength</tt> has been read.
 * @param delimiters the delimiters
 */
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, boolean failFast, ByteBuf... delimiters) {

```

```

validateMaxFrameLength(maxFrameLength);
if (delimiters == null) {
    throw new NullPointerException("delimiters");
}
if (delimiters.length == 0) {
    throw new IllegalArgumentException("empty delimiters");
}

if (isLineBased(delimiters) && !isSubclass()) {
    lineBasedDecoder = new LineBasedFrameDecoder(maxFrameLength, stripDelimiter, failFast);
    this.delimiters = null;
} else {
    this.delimiters = new ByteBuf[delimiters.length];
    for (int i = 0; i < delimiters.length; i++) {
        ByteBuf d = delimiters[i];
        validateDelimiter(d);
        this.delimiters[i] = d.slice(d.readerIndex(), d.readableBytes());
    }
    lineBasedDecoder = null;
}
this.maxFrameLength = maxFrameLength;
this.stripDelimiter = stripDelimiter;
this.failFast = failFast;
}

/** Returns true if the delimiters are "\n" and "\r\n". */
private static boolean isLineBased(final ByteBuf[] delimiters) {
    if (delimiters.length != 2) {
        return false;
    }
    ByteBuf a = delimiters[0];
    ByteBuf b = delimiters[1];
    if (a.capacity() < b.capacity()) {
        a = delimiters[1];
        b = delimiters[0];
    }
    return a.capacity() == 2 && b.capacity() == 1
        && a.getBytes(0) == '\r' && a.getBytes(1) == '\n'
        && b.getBytes(0) == '\n';
}

/**
 * Return { @code true } if the current instance is a subclass of DelimiterBasedFrameDecoder
 */
private boolean isSubclass() {
    return getClass() != DelimiterBasedFrameDecoder.class;
}

```

```

@Override
protected final void decode(ChannelHandlerContext ctx, ByteBuf in, List<Object> out) throws Exception {
    Object decoded = decode(ctx, in);
    if (decoded != null) {
        out.add(decoded);
    }
}

/**
 * Create a frame out of the {@link ByteBuf} and return it.
 *
 * @param ctx      the {@link ChannelHandlerContext} which this {@link ByteToMessageDecoder}
belongs to
 * @param buffer   the {@link ByteBuf} from which to read data
 * @return frame   the {@link ByteBuf} which represent the frame or {@code null} if no frame could
 *                 be created.
 */
protected Object decode(ChannelHandlerContext ctx, ByteBuf buffer) throws Exception {
    if (lineBasedDecoder != null) {
        return lineBasedDecoder.decode(ctx, buffer);
    }
    // Try all delimiters and choose the delimiter which yields the shortest frame.
    int minFrameLength = Integer.MAX_VALUE;
    ByteBuf minDelim = null;
    for (ByteBuf delim: delimiters) {
        int frameLength = indexOf(buffer, delim);
        if (frameLength >= 0 && frameLength < minFrameLength) {
            minFrameLength = frameLength;
            minDelim = delim;
        }
    }

    if (minDelim != null) {
        int minDelimLength = minDelim.capacity();
        ByteBuf frame;

        if (discardingTooLongFrame) {
            // We've just finished discarding a very large frame.
            // Go back to the initial state.
            discardingTooLongFrame = false;
            buffer.skipBytes(minFrameLength + minDelimLength);

            int tooLongFrameLength = this.tooLongFrameLength;
            this.tooLongFrameLength = 0;
            if (!failFast) {
                fail(ctx, tooLongFrameLength);
            }
        }
        return null;
    }
}

```

```

    }

    if (minFrameLength > maxFrameLength) {
        // Discard read frame.
        buffer.skipBytes(minFrameLength + minDelimLength);
        fail(ctx, minFrameLength);
        return null;
    }

    if (stripDelimiter) {
        frame = buffer.readBytes(minFrameLength);
        buffer.skipBytes(minDelimLength);
    } else {
        frame = buffer.readBytes(minFrameLength + minDelimLength);
    }

    return frame;
} else {
    if (!discardingTooLongFrame) {
        if (buffer.readableBytes() > maxFrameLength) {
            // Discard the content of the buffer until a delimiter is found.
            tooLongFrameLength = buffer.readableBytes();
            buffer.skipBytes(buffer.readableBytes());
            discardingTooLongFrame = true;
            if (failFast) {
                fail(ctx, tooLongFrameLength);
            }
        }
    } else {
        // Still discarding the buffer since a delimiter is not found.
        tooLongFrameLength += buffer.readableBytes();
        buffer.skipBytes(buffer.readableBytes());
    }
    return null;
}
}

private void fail(ChannelHandlerContext ctx, long frameLength) {
    if (frameLength > 0) {
        ctx.fireExceptionCaught(
            new TooLongFrameException(
                "frame length exceeds " + maxFrameLength +
                ": " + frameLength + " - discarded"));
    } else {
        ctx.fireExceptionCaught(
            new TooLongFrameException(
                "frame length exceeds " + maxFrameLength +
                " - discarding"));
    }
}

```

```

    }
}

/**
 * Returns the number of bytes between the readerIndex of the haystack and
 * the first needle found in the haystack. -1 is returned if no needle is
 * found in the haystack.
 */
private static int indexOf(ByteBuf haystack, ByteBuf needle) {
    for (int i = haystack.readerIndex(); i < haystack.writerIndex(); i++) {
        int haystackIndex = i;
        int needleIndex;
        for (needleIndex = 0; needleIndex < needle.capacity(); needleIndex++) {
            if (haystack.getBytes(haystackIndex) != needle.getBytes(needleIndex)) {
                break;
            } else {
                haystackIndex++;
                if (haystackIndex == haystack.writerIndex() &&
                    needleIndex != needle.capacity() - 1) {
                    return -1;
                }
            }
        }
    }

    if (needleIndex == needle.capacity()) {
        // Found the needle from the haystack!
        return i - haystack.readerIndex();
    }
}

return -1;
}

private static void validateDelimiter(ByteBuf delimiter) {
    if (delimiter == null) {
        throw new NullPointerException("delimiter");
    }
    if (!delimiter.isReadable()) {
        throw new IllegalArgumentException("empty delimiter");
    }
}

private static void validateMaxFrameLength(int maxFrameLength) {
    if (maxFrameLength <= 0) {
        throw new IllegalArgumentException(
            "maxFrameLength must be a positive integer: " +
            maxFrameLength);
    }
}
}

```

```

}
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 */
package io.netty.handler.ssl;

/**
 * Event that is fired once the SSL handshake is complete, which may be because it was successful or there
 * was an error.
 */
public final class SslHandshakeCompletionEvent {

    public static final SslHandshakeCompletionEvent SUCCESS = new SslHandshakeCompletionEvent();

    private final Throwable cause;

    /**
     * Creates a new event that indicates a successful handshake.
     */
    private SslHandshakeCompletionEvent() {
        cause = null;
    }

    /**
     * Creates a new event that indicates an unsuccessful handshake.
     * Use { @link #SUCCESS } to indicate a successful handshake.
     */
    public SslHandshakeCompletionEvent(Throwable cause) {
        if (cause == null) {
            throw new NullPointerException("cause");
        }
        this.cause = cause;
    }

    /**

```

```

* Return {@code true} if the handshake was successful
*/
public boolean isSuccess() {
    return cause == null;
}

/**
* Return the {@link Throwable} if {@link #isSuccess()} returns {@code false}
* and so the handshake failed.
*/
public Throwable cause() {
    return cause;
}
}

```

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```
/*          _          */
**  _____  //  _  Scala API          **
**  /_/_/_/_/_|_/_/_| (c) 2005-2013, LAMP/EPFL      **
**  _\|/_/_/_|/_/_/_| http://scala-lang.org/      **
** /_/_/_/_/_|/_/_/_/_|          **
**          |          **
/*          */
/*
```

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```
/*! jQuery UI - v1.9.0 - 2012-10-05
```

```
* http://jqueryui.com
```

```
* Includes: jquery.ui.core.js, jquery.ui.widget.js, jquery.ui.mouse.js, jquery.ui.position.js, jquery.ui.accordion.js,
jquery.ui.autocomplete.js, jquery.ui.button.js, jquery.ui.datepicker.js, jquery.ui.dialog.js, jquery.ui.draggable.js,
jquery.ui.droppable.js, jquery.ui.effect.js, jquery.ui.effect-blind.js, jquery.ui.effect-bounce.js, jquery.ui.effect-clip.js,
jquery.ui.effect-drop.js, jquery.ui.effect-explode.js, jquery.ui.effect-fade.js, jquery.ui.effect-fold.js, jquery.ui.effect-
highlight.js, jquery.ui.effect-pulsate.js, jquery.ui.effect-scale.js, jquery.ui.effect-shake.js, jquery.ui.effect-slide.js,
jquery.ui.effect-transfer.js, jquery.ui.menu.js, jquery.ui.progressbar.js, jquery.ui.resizable.js, jquery.ui.selectable.js,
jquery.ui.slider.js, jquery.ui.sortable.js, jquery.ui.spinner.js, jquery.ui.tabs.js, jquery.ui.tooltip.js
```

```
* Copyright (c) 2012 jQuery Foundation and other contributors Licensed MIT */
```

```
/*! jQuery v1.8.2 jquery.com | jquery.org/license */
```

```
/**
```

```
* @preserve jquery.layout 1.3.0 - Release Candidate 30.62
```

```
* $Date: 2012-08-04 08:00:00 (Thu, 23 Aug 2012) $
```

```
* $Rev: 303006 $
```

```
*
```

```
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```

```
* Kevin Dalman (http://allpro.net)
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```
*
```

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```

```

*
* Changelog: http://layout.jquery-dev.net/changelog.cfm#1.3.0.rc30.62
* NOTE: This is a short-term release to patch a couple of bugs.
* These bugs are listed as officially fixed in RC30.7, which will be released shortly.
*
* Docs: http://layout.jquery-dev.net/documentation.html
* Tips: http://layout.jquery-dev.net/tips.html
* Help: http://groups.google.com/group/jquery-ui-layout
*/
/**
* jquery.layout.state 1.0
* $Date: 2011-07-16 08:00:00 (Sat, 16 July 2011) $
*
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*
* Dual licensed under the GPL (http://www.gnu.org/licenses/gpl.html)
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*
* @dependancies: UI Layout 1.3.0.rc30.1 or higher
* @dependancies: $.ui.cookie (above)
*
* @support: http://groups.google.com/group/jquery-ui-layout
*/
/**
* jquery.layout.buttons 1.0
* $Date: 2011-07-16 08:00:00 (Sat, 16 July 2011) $
*
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*
* @dependancies: UI Layout 1.3.0.rc30.1 or higher
*
* @support: http://groups.google.com/group/jquery-ui-layout
*
* Docs: [ to come ]
* Tips: [ to come ]
*/
/**
* jquery.layout.browserZoom 1.0
* $Date: 2011-12-29 08:00:00 (Thu, 29 Dec 2011) $
*
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*

```

```

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*
* @dependencies: UI Layout 1.3.0.rc30.1 or higher
*
* @support: http://groups.google.com/group/jquery-ui-layout
*
* @todo: Extend logic to handle other problematic zooming in browsers
* @todo: Add hotkey/mousewheel bindings to _instantly_ respond to these zoom event
*/
// +-----+ \\
// and; Raphaël 2.1.0 - JavaScript Vector Library          and; \\
// +-----and; \\
// and; Copyright © 2008-2012 Dmitry Baranovskiy (http://raphaeljs.com) and; \\
// and; Copyright © 2008-2012 Sencha Labs (http://sencha.com)          and; \\
// +-----and; \\
// and; Licensed under the MIT (http://raphaeljs.com/license.html) license.and; \\
// +-----+ \\
/*
* tools.tooltip 1.1.3 - Tooltips done right.
*
* Copyright (c) 2009 Tero Piirainen
* http://flowplayer.org/tools/tooltip.html
*
* Dual licensed under MIT and GPL 2+ licenses
* http://www.opensource.org/licenses
*
* Launch : November 2008
* Date: ${date}
* Revision: ${revision}
*/
/*
* Written by Dawid Kurzyniec, based on public domain code written by Doug Lea
* and publicly available documentation, and released to the public domain, as
* explained at http://creativecommons.org/licenses/publicdomain
*/
// -----
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//
// The primary distribution site is http://scalax.scalaforge.org/
//
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//
// -----

```

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## 4.0.0.RELEASE

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# 1.146 spring-core 4.0.0.Release

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*/

package org.springframework.util.xml;

import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import javax.xml.XMLConstants;
import javax.xml.namespace.NamespaceContext;

import org.springframework.util.Assert;

/**
 * Simple {@code javax.xml.namespace.NamespaceContext} implementation. Follows the standard
 * {@code NamespaceContext} contract, and is loadable via a {@code java.util.Map} or
 * {@code java.util.Properties} object
 *
 * @author Arjen Poutsma
 * @since 3.0
 */
public class SimpleNamespaceContext implements NamespaceContext {

    private Map<String, String> prefixToNamespaceUri = new HashMap<String, String>();

    private Map<String, List<String>> namespaceUriToPrefixes = new HashMap<String, List<String>>();

    private String defaultNamespaceUri = "";

    @Override
    public String getNamespaceURI(String prefix) {
        Assert.notNull(prefix, "prefix is null");
        if (XMLConstants.XML_NS_PREFIX.equals(prefix)) {
            return XMLConstants.XML_NS_URI;
        }
        else if (XMLConstants.XMLNS_ATTRIBUTE.equals(prefix)) {
            return XMLConstants.XMLNS_ATTRIBUTE_NS_URI;
        }
        else if (XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {

```

```

    return defaultNamespaceUri;
}
else if (prefixToNamespaceUri.containsKey(prefix)) {
    return prefixToNamespaceUri.get(prefix);
}
return "";
}

@Override
public String getPrefix(String namespaceUri) {
    List<?> prefixes = getPrefixesInternal(namespaceUri);
    return prefixes.isEmpty() ? null : (String) prefixes.get(0);
}

@Override
public Iterator<String> getPrefixes(String namespaceUri) {
    return getPrefixesInternal(namespaceUri).iterator();
}

/**
 * Sets the bindings for this namespace context. The supplied map must consist of string key value pairs.
 *
 * @param bindings the bindings
 */
public void setBindings(Map<String, String> bindings) {
    for (Map.Entry<String, String> entry : bindings.entrySet()) {
        bindNamespaceUri(entry.getKey(), entry.getValue());
    }
}

/**
 * Binds the given namespace as default namespace.
 *
 * @param namespaceUri the namespace uri
 */
public void bindDefaultNamespaceUri(String namespaceUri) {
    bindNamespaceUri(XMLConstants.DEFAULT_NS_PREFIX, namespaceUri);
}

/**
 * Binds the given prefix to the given namespace.
 *
 * @param prefix the namespace prefix
 * @param namespaceUri the namespace uri
 */
public void bindNamespaceUri(String prefix, String namespaceUri) {
    Assert.notNull(prefix, "No prefix given");
    Assert.notNull(namespaceUri, "No namespaceUri given");
}

```

```

if (XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {
    defaultNamespaceUri = namespaceUri;
}
else {
    prefixToNamespaceUri.put(prefix, namespaceUri);
    getPrefixesInternal(namespaceUri).add(prefix);
}
}

/** Removes all declared prefixes. */
public void clear() {
    prefixToNamespaceUri.clear();
}

/**
 * Returns all declared prefixes.
 *
 * @return the declared prefixes
 */
public Iterator<String> getBoundPrefixes() {
    return prefixToNamespaceUri.keySet().iterator();
}

private List<String> getPrefixesInternal(String namespaceUri) {
    if (defaultNamespaceUri.equals(namespaceUri)) {
        return Collections.singletonList(XMLConstants.DEFAULT_NS_PREFIX);
    }
    else if (XMLConstants.XML_NS_URI.equals(namespaceUri)) {
        return Collections.singletonList(XMLConstants.XML_NS_PREFIX);
    }
    else if (XMLConstants.XMLNS_ATTRIBUTE_NS_URI.equals(namespaceUri)) {
        return Collections.singletonList(XMLConstants.XMLNS_ATTRIBUTE);
    }
    else {
        List<String> list = namespaceUriToPrefixes.get(namespaceUri);
        if (list == null) {
            list = new ArrayList<String>();
            namespaceUriToPrefixes.put(namespaceUri, list);
        }
        return list;
    }
}

/**
 * Removes the given prefix from this context.
 *
 * @param prefix the prefix to be removed
 */

```

```

public void removeBinding(String prefix) {
    if (XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {
        defaultNamespaceUri = "";
    }
    else {
        String namespaceUri = prefixToNamespaceUri.remove(prefix);
        List<String> prefixes = getPrefixesInternal(namespaceUri);
        prefixes.remove(prefix);
    }
}
}
}
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 * limitations under the License.
 */

package org.springframework.util.xml;

import javax.xml.transform.ErrorListener;
import javax.xml.transform.TransformerException;

import org.apache.commons.logging.Log;

/**
 * Simple {@code javax.xml.transform.ErrorListener} implementation:
 * logs warnings using the given Commons Logging logger instance,
 * and rethrows errors to discontinue the XML transformation.
 *
 * @author Juergen Hoeller
 * @since 1.2
 */
public class SimpleTransformErrorListener implements ErrorListener {

    private final Log logger;

    /**

```

```

* Create a new SimpleTransformErrorListener for the given
* Commons Logging logger instance.
*/
public SimpleTransformErrorListener(Log logger) {
    this.logger = logger;
}

@Override
public void warning(TransformerException ex) throws TransformerException {
    logger.warn("XSLT transformation warning", ex);
}

@Override
public void error(TransformerException ex) throws TransformerException {
    logger.error("XSLT transformation error", ex);
}

@Override
public void fatalError(TransformerException ex) throws TransformerException {
    throw ex;
}

}
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* limitations under the License.
*/

package org.springframework.util.xml;

import org.apache.commons.logging.Log;
import org.xml.sax.ErrorHandler;
import org.xml.sax.SAXException;
import org.xml.sax.SAXParseException;

/**

```

```

* Simple { @code org.xml.sax.ErrorHandler } implementation:
* logs warnings using the given Commons Logging logger instance,
* and rethrows errors to discontinue the XML transformation.
*
* @author Juergen Hoeller
* @since 1.2
*/
public class SimpleSaxErrorHandler implements ErrorHandler {

    private final Log logger;

    /**
     * Create a new SimpleSaxErrorHandler for the given
     * Commons Logging logger instance.
     */
    public SimpleSaxErrorHandler(Log logger) {
        this.logger = logger;
    }

    @Override
    public void warning(SAXParseException ex) throws SAXException {
        logger.warn("Ignored XML validation warning", ex);
    }

    @Override
    public void error(SAXParseException ex) throws SAXException {
        throw ex;
    }

    @Override
    public void fatalError(SAXParseException ex) throws SAXException {
        throw ex;
    }

}
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```
package org.springframework.core.task;
```

```
import java.io.Serializable;  
import java.util.concurrent.Callable;  
import java.util.concurrent.Future;  
import java.util.concurrent.FutureTask;  
import java.util.concurrent.ThreadFactory;
```

```
import org.springframework.util.Assert;  
import org.springframework.util.ConcurrencyThrottleSupport;  
import org.springframework.util.CustomizableThreadCreator;  
import org.springframework.util.concurrent.ListenableFuture;  
import org.springframework.util.concurrent.ListenableFutureTask;
```

```
/**  
 * {@link TaskExecutor} implementation that fires up a new Thread for each task,  
 * executing it asynchronously.  
 *  
 * <p>Supports limiting concurrent threads through the "concurrencyLimit"  
 * bean property. By default, the number of concurrent threads is unlimited.  
 *  
 * <p><b>NOTE: This implementation does not reuse threads!</b> Consider a  
 * thread-pooling TaskExecutor implementation instead, in particular for  
 * executing a large number of short-lived tasks.  
 *  
 * @author Juergen Hoeller  
 * @since 2.0  
 * @see #setConcurrencyLimit  
 * @see SyncTaskExecutor  
 * @see org.springframework.scheduling.concurrent.ThreadPoolTaskExecutor  
 * @see org.springframework.scheduling.commonj.WorkManagerTaskExecutor  
 */
```

```
@SuppressWarnings("serial")  
public class SimpleAsyncTaskExecutor extends CustomizableThreadCreator implements  
AsyncListenableTaskExecutor, Serializable {
```

```
/**  
 * Permit any number of concurrent invocations: that is, don't throttle concurrency.  
 */
```

```
public static final int UNBOUNDED_CONCURRENCY =  
ConcurrencyThrottleSupport.UNBOUNDED_CONCURRENCY;
```

```
/**
```

```

* Switch concurrency 'off': that is, don't allow any concurrent invocations.
*/
public static final int NO_CONCURRENCY = ConcurrencyThrottleSupport.NO_CONCURRENCY;

/** Internal concurrency throttle used by this executor */
private final ConcurrencyThrottleAdapter concurrencyThrottle = new ConcurrencyThrottleAdapter();

private ThreadFactory threadFactory;

/**
 * Create a new SimpleAsyncTaskExecutor with default thread name prefix.
 */
public SimpleAsyncTaskExecutor() {
    super();
}

/**
 * Create a new SimpleAsyncTaskExecutor with the given thread name prefix.
 * @param threadNamePrefix the prefix to use for the names of newly created threads
 */
public SimpleAsyncTaskExecutor(String threadNamePrefix) {
    super(threadNamePrefix);
}

/**
 * Create a new SimpleAsyncTaskExecutor with the given external thread factory.
 * @param threadFactory the factory to use for creating new Threads
 */
public SimpleAsyncTaskExecutor(ThreadFactory threadFactory) {
    this.threadFactory = threadFactory;
}

/**
 * Specify an external factory to use for creating new Threads,
 * instead of relying on the local properties of this executor.
 * <p>You may specify an inner ThreadFactory bean or also a ThreadFactory reference
 * obtained from JNDI (on a Java EE 6 server) or some other lookup mechanism.
 * @see #setThreadNamePrefix
 * @see #setThreadPriority
 */
public void setThreadFactory(ThreadFactory threadFactory) {
    this.threadFactory = threadFactory;
}

/**

```

```

* Return the external factory to use for creating new Threads, if any.
*/
public final ThreadFactory getThreadFactory() {
    return this.threadFactory;
}

/**
* Set the maximum number of parallel accesses allowed.
* -1 indicates no concurrency limit at all.
* <p>In principle, this limit can be changed at runtime,
* although it is generally designed as a config time setting.
* NOTE: Do not switch between -1 and any concrete limit at runtime,
* as this will lead to inconsistent concurrency counts: A limit
* of -1 effectively turns off concurrency counting completely.
* @see #UNBOUNDED_CONCURRENCY
*/
public void setConcurrencyLimit(int concurrencyLimit) {
    this.concurrencyThrottle.setConcurrencyLimit(concurrencyLimit);
}

/**
* Return the maximum number of parallel accesses allowed.
*/
public final int getConcurrencyLimit() {
    return this.concurrencyThrottle.getConcurrencyLimit();
}

/**
* Return whether this throttle is currently active.
* @return { @code true } if the concurrency limit for this instance is active
* @see #getConcurrencyLimit()
* @see #setConcurrencyLimit
*/
public final boolean isThrottleActive() {
    return this.concurrencyThrottle.isThrottleActive();
}

/**
* Executes the given task, within a concurrency throttle
* if configured (through the superclass's settings).
* @see #doExecute(Runnable)
*/
@Override
public void execute(Runnable task) {
    execute(task, TIMEOUT_INDEFINITE);
}

```

```

/**
 * Executes the given task, within a concurrency throttle
 * if configured (through the superclass's settings).
 * <p>Executes urgent tasks (with 'immediate' timeout) directly,
 * bypassing the concurrency throttle (if active). All other
 * tasks are subject to throttling.
 * @see #TIMEOUT_IMMEDIATE
 * @see #doExecute(Runnable)
 */
@Override
public void execute(Runnable task, long startTimeout) {
    Assert.notNull(task, "Runnable must not be null");
    if (isThrottleActive() && startTimeout > TIMEOUT_IMMEDIATE) {
        this.concurrencyThrottle.beforeAccess();
        doExecute(new ConcurrencyThrottlingRunnable(task));
    }
    else {
        doExecute(task);
    }
}

@Override
public Future<?> submit(Runnable task) {
    FutureTask<Object> future = new FutureTask<Object>(task, null);
    execute(future, TIMEOUT_INDEFINITE);
    return future;
}

@Override
public <T> Future<T> submit(Callable<T> task) {
    FutureTask<T> future = new FutureTask<T>(task);
    execute(future, TIMEOUT_INDEFINITE);
    return future;
}

@Override
public ListenableFuture<?> submitListenable(Runnable task) {
    ListenableFutureTask<Object> future = new ListenableFutureTask<Object>(task, null);
    execute(future, TIMEOUT_INDEFINITE);
    return future;
}

@Override
public <T> ListenableFuture<T> submitListenable(Callable<T> task) {
    ListenableFutureTask<T> future = new ListenableFutureTask<T>(task);
    execute(future, TIMEOUT_INDEFINITE);
    return future;
}

```

```

/**
 * Template method for the actual execution of a task.
 * <p>The default implementation creates a new Thread and starts it.
 * @param task the Runnable to execute
 * @see #setThreadFactory
 * @see #createThread
 * @see java.lang.Thread#start()
 */
protected void doExecute(Runnable task) {
    Thread thread = (this.threadFactory != null ? this.threadFactory.newThread(task) : createThread(task));
    thread.start();
}

```

```

/**
 * Subclass of the general ConcurrencyThrottleSupport class,
 * making {@code beforeAccess()} and {@code afterAccess()}
 * visible to the surrounding class.
 */
private static class ConcurrencyThrottleAdapter extends ConcurrencyThrottleSupport {

    @Override
    protected void beforeAccess() {
        super.beforeAccess();
    }

    @Override
    protected void afterAccess() {
        super.afterAccess();
    }
}

```

```

/**
 * This Runnable calls {@code afterAccess()} after the
 * target Runnable has finished its execution.
 */
private class ConcurrencyThrottlingRunnable implements Runnable {

    private final Runnable target;

    public ConcurrencyThrottlingRunnable(Runnable target) {
        this.target = target;
    }

    @Override
    public void run() {

```

```

try {
    this.target.run();
}
finally {
    concurrencyThrottle.afterAccess();
}
}
}

}
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*/

package org.springframework.core.env;

/**
* Parses a {@code String[]} of command line arguments in order to populate a
* {@link CommandLineArgs} object.
*
* <h3>Working with option arguments</h3>
* Option arguments must adhere to the exact syntax:
* <pre class="code">--optName[=optValue]</pre>
* That is, options must be prefixed with "{@code --}", and may or may not specify a value.
* If a value is specified, the name and value must be separated <em>without spaces</em>
* by an equals sign ("=").
*
* <h4>Valid examples of option arguments</h4>
* <pre class="code">
* --foo
* --foo=bar
* --foo="bar then baz"
* --foo=bar,baz,biz</pre>
*
* <h4>Invalid examples of option arguments</h4>
* <pre class="code">

```

```

* -foo
* --foo bar
* --foo = bar
* --foo=bar --foo=baz --foo=biz</pre>
*
* <h3>Working with non-option arguments</h3>
* Any and all arguments specified at the command line without the "{ @code --}" option
* prefix will be considered as "non-option arguments" and made available through the
* { @link CommandLineArgs#getNonOptionArgs()} method.
*
* @author Chris Beams
* @since 3.1
*/
class SimpleCommandLineArgsParser {

    /**
     * Parse the given { @code String} array based on the rules described { @linkplain
     * SimpleCommandLineArgsParser above}, returning a fully-populated
     * { @link CommandLineArgs} object.
     * @param args command line arguments, typically from a { @code main()} method
     */
    public CommandLineArgs parse(String... args) {
        CommandLineArgs commandLineArgs = new CommandLineArgs();
        for (String arg : args) {
            if (arg.startsWith("--")) {
                String optionText = arg.substring(2, arg.length());
                String optionName;
                String optionValue = null;
                if (optionText.contains("=")) {
                    optionName = optionText.substring(0, optionText.indexOf("="));
                    optionValue = optionText.substring(optionText.indexOf("=")+1, optionText.length());
                }
                else {
                    optionName = optionText;
                }
                if (optionName.isEmpty() || (optionValue != null && optionValue.isEmpty())) {
                    throw new IllegalArgumentException("Invalid argument syntax: " + arg);
                }
                commandLineArgs.addOptionArg(optionName, optionValue);
            }
            else {
                commandLineArgs.addNonOptionArg(arg);
            }
        }
        return commandLineArgs;
    }
}

```

```

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 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```
package org.springframework.core.env;
```

```
import java.util.List;
```

```

/**
 * {@link CommandLinePropertySource} implementation backed by a simple String array.
 *
 * <h3>Purpose</h3>
 * This {@code CommandLinePropertySource} implementation aims to provide the simplest
 * possible approach to parsing command line arguments. As with all {@code
 * CommandLinePropertySource} implementations, command line arguments are broken into two
 * distinct groups: <em>option arguments</em> and <em>non-option arguments</em>, as
 * described below <em>(some sections copied from Javadoc for {@link SimpleCommandLineArgsParser}</em>:
 *
 * <h3>Working with option arguments</h3>
 * Option arguments must adhere to the exact syntax:
 * <pre class="code">--optName[=optValue]</pre>
 * That is, options must be prefixed with "{@code --}", and may or may not specify a value.
 * If a value is specified, the name and value must be separated <em>without spaces</em>
 * by an equals sign ("=").
 *
 * <h4>Valid examples of option arguments</h4>
 * <pre class="code">
 * --foo
 * --foo=bar
 * --foo="bar then baz"
 * --foo=bar,baz,biz</pre>
 *
 * <h4>Invalid examples of option arguments</h4>
 * <pre class="code">
 * -foo
 * --foo bar

```



```

* --foo = bar
* --foo=bar --foo=baz --foo=biz</pre>
*
* <h3>Working with non-option arguments</h3>
* Any and all arguments specified at the command line without the "{ @code --}" option
* prefix will be considered as "non-option arguments" and made available through the
* { @link #getNonOptionArgs()} method.
*
* <h2>Typical usage</h2>
* <pre class="code">
* public static void main(String[] args) {
*     PropertySource<?> ps = new SimpleCommandLinePropertySource(args);
*     // ...
* }</pre>
*
* See { @link CommandLinePropertySource} for complete general usage examples.
*
* <h3>Beyond the basics</h3>
*
* <p>When more fully-featured command line parsing is necessary, consider using
* the provided { @link JOptCommandLinePropertySource}, or implement your own
* { @code CommandLinePropertySource} against the command line parsing library of your
* choice!
*
* @author Chris Beams
* @since 3.1
* @see CommandLinePropertySource
* @see JOptCommandLinePropertySource
*/
public class SimpleCommandLinePropertySource extends CommandLinePropertySource<CommandLineArgs> {

    /**
     * Create a new { @code SimpleCommandLinePropertySource} having the default name
     * and backed by the given { @code String[]} of command line arguments.
     * @see CommandLinePropertySource#COMMAND_LINE_PROPERTY_SOURCE_NAME
     * @see CommandLinePropertySource#CommandLinePropertySource(Object)
     */
    public SimpleCommandLinePropertySource(String... args) {
        super(new SimpleCommandLineArgsParser().parse(args));
    }

    /**
     * Create a new { @code SimpleCommandLinePropertySource} having the given name
     * and backed by the given { @code String[]} of command line arguments.
     */
    public SimpleCommandLinePropertySource(String name, String[] args) {
        super(name, new SimpleCommandLineArgsParser().parse(args));
    }
}

```

```

/**
 * Get the property names for the option arguments.
 */
@Override
public String[] getPropertyNames() {
    return source.getOptionNames().toArray(new String[source.getOptionNames().size()]);
}

@Override
protected boolean containsOption(String name) {
    return this.source.containsOption(name);
}

@Override
protected List<String> getOptionValues(String name) {
    return this.source.getOptionValues(name);
}

@Override
protected List<String> getNonOptionArgs() {
    return this.source.getNonOptionArgs();
}
}
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 * limitations under the License.
 */

package org.springframework.core;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;

```

```

import org.springframework.util.Assert;
import org.springframework.util.StringUtils;
import org.springframework.util.StringValueResolver;

/**
 * Simple implementation of the {@link AliasRegistry} interface.
 * Serves as base class for
 * {@link org.springframework.beans.factory.support.BeanDefinitionRegistry}
 * implementations.
 *
 * @author Juergen Hoeller
 * @since 2.5.2
 */
public class SimpleAliasRegistry implements AliasRegistry {

    /** Map from alias to canonical name */
    private final Map<String, String> aliasMap = new ConcurrentHashMap<String, String>(16);

    @Override
    public void registerAlias(String name, String alias) {
        Assert.hasText(name, "'name' must not be empty");
        Assert.hasText(alias, "'alias' must not be empty");
        if (alias.equals(name)) {
            this.aliasMap.remove(alias);
        }
        else {
            if (!allowAliasOverriding()) {
                String registeredName = this.aliasMap.get(alias);
                if (registeredName != null && !registeredName.equals(name)) {
                    throw new IllegalStateException("Cannot register alias '" + alias + "' for name '" +
                        name + "': It is already registered for name '" + registeredName + "'.");
                }
            }
            checkForAliasCircle(name, alias);
            this.aliasMap.put(alias, name);
        }
    }

    /**
     * Return whether alias overriding is allowed.
     * Default is {@code true}.
     */
    protected boolean allowAliasOverriding() {
        return true;
    }
}

```

```

@Override
public void removeAlias(String alias) {
    String name = this.aliasMap.remove(alias);
    if (name == null) {
        throw new IllegalStateException("No alias '" + alias + "' registered");
    }
}

@Override
public boolean isAlias(String name) {
    return this.aliasMap.containsKey(name);
}

@Override
public String[] getAliases(String name) {
    List<String> result = new ArrayList<String>();
    synchronized (this.aliasMap) {
        retrieveAliases(name, result);
    }
    return StringUtils.toStringArray(result);
}

/**
 * Transitively retrieve all aliases for the given name.
 * @param name the target name to find aliases for
 * @param result the resulting aliases list
 */
private void retrieveAliases(String name, List<String> result) {
    for (Map.Entry<String, String> entry : this.aliasMap.entrySet()) {
        String registeredName = entry.getValue();
        if (registeredName.equals(name)) {
            String alias = entry.getKey();
            result.add(alias);
            retrieveAliases(alias, result);
        }
    }
}

/**
 * Resolve all alias target names and aliases registered in this
 * factory, applying the given StringValueResolver to them.
 * <p>The value resolver may for example resolve placeholders
 * in target bean names and even in alias names.
 * @param valueResolver the StringValueResolver to apply
 */
public void resolveAliases(StringValueResolver valueResolver) {
    Assert.notNull(valueResolver, "StringValueResolver must not be null");
    synchronized (this.aliasMap) {

```

```

Map<String, String> aliasCopy = new HashMap<String, String>(this.aliasMap);
for (String alias : aliasCopy.keySet()) {
    String registeredName = aliasCopy.get(alias);
    String resolvedAlias = valueResolver.resolveStringValue(alias);
    String resolvedName = valueResolver.resolveStringValue(registeredName);
    if (resolvedAlias.equals(resolvedName)) {
        this.aliasMap.remove(alias);
    }
    else if (!resolvedAlias.equals(alias)) {
        String existingName = this.aliasMap.get(resolvedAlias);
        if (existingName != null && !existingName.equals(resolvedName)) {
            throw new IllegalStateException(
                "Cannot register resolved alias '" + resolvedAlias + "' (original: '" + alias +
                "') for name '" + resolvedName + "': It is already registered for name '" +
                registeredName + "'");
        }
        checkForAliasCircle(resolvedName, resolvedAlias);
        this.aliasMap.remove(alias);
        this.aliasMap.put(resolvedAlias, resolvedName);
    }
    else if (!registeredName.equals(resolvedName)) {
        this.aliasMap.put(alias, resolvedName);
    }
}
}

/**
 * Determine the raw name, resolving aliases to canonical names.
 * @param name the user-specified name
 * @return the transformed name
 */
public String canonicalName(String name) {
    String canonicalName = name;
    // Handle aliasing...
    String resolvedName;
    do {
        resolvedName = this.aliasMap.get(canonicalName);
        if (resolvedName != null) {
            canonicalName = resolvedName;
        }
    }
    while (resolvedName != null);
    return canonicalName;
}

/**
 * Check whether the given name points back to given alias as an alias

```

```

* in the other direction, catching a circular reference upfront and
* throwing a corresponding IllegalStateException.
* @param name the candidate name
* @param alias the candidate alias
* @see #registerAlias
*/
protected void checkForAliasCircle(String name, String alias) {
    if (alias.equals(canonicalName(name))) {
        throw new IllegalStateException("Cannot register alias '" + alias +
            "' for name '" + name + "': Circular reference - '" +
            name + "' is a direct or indirect alias for '" + alias + "' already");
    }
}

}
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*/

package org.springframework.core.type.classreading;

import java.io.IOException;

import org.springframework.core.io.DefaultResourceLoader;
import org.springframework.core.io.Resource;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
* Simple implementation of the { @link MetadataReaderFactory } interface,
* creating a new ASM { @link org.springframework.asm.ClassReader } for every request.
*
* @author Juergen Hoeller
* @since 2.5
*/
public class SimpleMetadataReaderFactory implements MetadataReaderFactory {

```

```

private final ResourceLoader resourceLoader;

/**
 * Create a new SimpleMetadataReaderFactory for the default class loader.
 */
public SimpleMetadataReaderFactory() {
    this.resourceLoader = new DefaultResourceLoader();
}

/**
 * Create a new SimpleMetadataReaderFactory for the given resource loader.
 * @param resourceLoader the Spring ResourceLoader to use
 * (also determines the ClassLoader to use)
 */
public SimpleMetadataReaderFactory(ResourceLoader resourceLoader) {
    this.resourceLoader = (resourceLoader != null ? resourceLoader : new DefaultResourceLoader());
}

/**
 * Create a new SimpleMetadataReaderFactory for the given class loader.
 * @param classLoader the ClassLoader to use
 */
public SimpleMetadataReaderFactory(ClassLoader classLoader) {
    this.resourceLoader =
        (classLoader != null ? new DefaultResourceLoader(classLoader) : new DefaultResourceLoader());
}

/**
 * Return the ResourceLoader that this MetadataReaderFactory has been
 * constructed with.
 */
public final ResourceLoader getResourceLoader() {
    return this.resourceLoader;
}

@Override
public MetadataReader getMetadataReader(String className) throws IOException {
    String resourcePath = ResourceLoader.CLASSPATH_URL_PREFIX +
        ClassUtils.convertClassNameToResourcePath(className) + ClassUtils.CLASS_FILE_SUFFIX;
    return getMetadataReader(this.resourceLoader.getResource(resourcePath));
}

@Override
public MetadataReader getMetadataReader(Resource resource) throws IOException {

```

```

return new SimpleMetadataReader(resource, this.resourceLoader.getClassLoader());
}

}

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 */

package org.springframework.core.type.classreading;

import java.io.BufferedInputStream;
import java.io.IOException;
import java.io.InputStream;

import org.springframework.asm.ClassReader;
import org.springframework.core.NestedIOException;
import org.springframework.core.io.Resource;
import org.springframework.core.type.AnnotationMetadata;
import org.springframework.core.type.ClassMetadata;

/**
 * {@link MetadataReader} implementation based on an ASM
 * {@link org.springframework.asm.ClassReader}.
 *
 * <p>Package-visible in order to allow for repackaging the ASM library
 * without effect on users of the {@code core.type} package.
 *
 * @author Juergen Hoeller
 * @author Costin Leau
 * @since 2.5
 */
final class SimpleMetadataReader implements MetadataReader {

    private final Resource resource;

    private final ClassMetadata classMetadata;

```



```
private final AnnotationMetadata annotationMetadata;
```

```
SimpleMetadataReader(Resource resource, ClassLoader classLoader) throws IOException {  
    InputStream is = new BufferedInputStream(resource.getInputStream());  
    ClassReader classReader;  
    try {  
        classReader = new ClassReader(is);  
    }  
    catch (IllegalArgumentException ex) {  
        throw new NestedIOException("ASM ClassReader failed to parse class file - " +  
            "probably due to a new Java class file version that isn't supported yet: " + resource, ex);  
    }  
    finally {  
        is.close();  
    }  
}
```

```
AnnotationMetadataReadingVisitor visitor = new AnnotationMetadataReadingVisitor(classLoader);  
classReader.accept(visitor, ClassReader.SKIP_DEBUG);
```

```
this.annotationMetadata = visitor;  
// (since AnnotationMetadataReadingVisitor extends ClassMetadataReadingVisitor)  
this.classMetadata = visitor;  
this.resource = resource;  
}
```

```
@Override  
public Resource getResource() {  
    return this.resource;  
}
```

```
@Override  
public ClassMetadata getClassMetadata() {  
    return this.classMetadata;  
}
```

```
@Override  
public AnnotationMetadata getAnnotationMetadata() {  
    return this.annotationMetadata;  
}
```

```
}
```

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## 1.149 spring-test 4.1.0

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## 1.151 spring-web 4.0.0.Release

### 1.151.1 Available under license :

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 */

package org.springframework.web.context;

import javax.servlet.ServletContext;

import org.springframework.context.ApplicationContext;

/**
 * Interface to provide configuration for a web application. This is read-only while
 * the application is running, but may be reloaded if the implementation supports this.
 */
```

```

* <p>This interface adds a { @code getServletContext() } method to the generic
* ApplicationContext interface, and defines a well-known application attribute name
* that the root context must be bound to in the bootstrap process.
*
* <p>Like generic application contexts, web application contexts are hierarchical.
* There is a single root context per application, while each servlet in the application
* (including a dispatcher servlet in the MVC framework) has its own child context.
*
* <p>In addition to standard application context lifecycle capabilities,
* WebApplicationContext implementations need to detect { @link ServletContextAware }
* beans and invoke the { @code setServletContext } method accordingly.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @since January 19, 2001
* @see ServletContextAware#setServletContext
*/
public interface WebApplicationContext extends ApplicationContext {

    /**
     * Context attribute to bind root WebApplicationContext to on successful startup.
     * <p>Note: If the startup of the root context fails, this attribute can contain
     * an exception or error as value. Use WebApplicationContextUtils for convenient
     * lookup of the root WebApplicationContext.
     * @see org.springframework.web.context.support.WebApplicationContextUtils#getWebApplicationContext
     * @see
     org.springframework.web.context.support.WebApplicationContextUtils#getRequiredWebApplicationContext
     */
    String ROOT_WEB_APPLICATION_CONTEXT_ATTRIBUTE = WebApplicationContext.class.getName() +
    ".ROOT";

    /**
     * Scope identifier for request scope: "request".
     * Supported in addition to the standard scopes "singleton" and "prototype".
     */
    String SCOPE_REQUEST = "request";

    /**
     * Scope identifier for session scope: "session".
     * Supported in addition to the standard scopes "singleton" and "prototype".
     */
    String SCOPE_SESSION = "session";

    /**
     * Scope identifier for global session scope: "globalSession".
     * Supported in addition to the standard scopes "singleton" and "prototype".
     */
    String SCOPE_GLOBAL_SESSION = "globalSession";

```



```

/**
 * Scope identifier for the global web application scope: "application".
 * Supported in addition to the standard scopes "singleton" and "prototype".
 */
String SCOPE_APPLICATION = "application";

/**
 * Name of the ServletContext environment bean in the factory.
 * @see javax.servlet.ServletContext
 */
String SERVLET_CONTEXT_BEAN_NAME = "servletContext";

/**
 * Name of the ServletContext/PortletContext init-params environment bean in the factory.
 * <p>Note: Possibly merged with ServletConfig/PortletConfig parameters.
 * ServletConfig parameters override ServletContext parameters of the same name.
 * @see javax.servlet.ServletContext#getInitParameterNames()
 * @see javax.servlet.ServletContext#getInitParameter(String)
 * @see javax.servlet.ServletConfig#getInitParameterNames()
 * @see javax.servlet.ServletConfig#getInitParameter(String)
 */
String CONTEXT_PARAMETERS_BEAN_NAME = "contextParameters";

/**
 * Name of the ServletContext/PortletContext attributes environment bean in the factory.
 * @see javax.servlet.ServletContext#getAttributeNames()
 * @see javax.servlet.ServletContext#getAttribute(String)
 */
String CONTEXT_ATTRIBUTES_BEAN_NAME = "contextAttributes";

/**
 * Return the standard Servlet API ServletContext for this application.
 * <p>Also available for a Portlet application, in addition to the PortletContext.
 */
ServletContext getServletContext();

}
/**
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```
package org.springframework.web.context.support;
```

```
import java.io.File;
import javax.servlet.ServletContext;
```

```
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ApplicationObjectSupport;
import org.springframework.web.context.ServletContextAware;
import org.springframework.web.context.WebApplicationContext;
import org.springframework.web.util.WebUtils;
```

```
/**
 * Convenient superclass for application objects running in a WebApplicationContext.
 * Provides { @code getWebApplicationContext()}, { @code getServletContext()},
 * and { @code getTempDir()} methods.
 *
 * @author Juergen Hoeller
 * @since 28.08.2003
 * @see SpringBeanAutowiringSupport
 */
```

```
public abstract class WebApplicationObjectSupport extends ApplicationObjectSupport
    implements ServletContextAware {
```

```
    private ServletContext servletContext;
```

```
    @Override
    public final void setServletContext(ServletContext servletContext) {
        if (servletContext != this.servletContext) {
            this.servletContext = servletContext;
            if (servletContext != null) {
                initServletContext(servletContext);
            }
        }
    }
}
```

```
/**
 * Overrides the base class behavior to enforce running in an ApplicationContext.
 * All accessors will throw IllegalStateException if not running in a context.
 * @see #getApplicationContext()
 * @see #getMessageSourceAccessor()
 */
```

```

* @see #getWebApplicationContext()
* @see #getServletContext()
* @see #getTempDir()
*/
@Override
protected boolean isContextRequired() {
    return true;
}

/**
 * Calls { @link #initServletContext(javax.servlet.ServletContext)} if the
 * given ApplicationContext is a { @link WebApplicationContext}.
 */
@Override
protected void initApplicationContext(ApplicationContext context) {
    super.initApplicationContext(context);
    if (this.servletContext == null && context instanceof WebApplicationContext) {
        this.servletContext = ((WebApplicationContext) context).getServletContext();
        if (this.servletContext != null) {
            initServletContext(this.servletContext);
        }
    }
}

/**
 * Subclasses may override this for custom initialization based
 * on the ServletContext that this application object runs in.
 * <p>The default implementation is empty. Called by
 * { @link #initApplicationContext(org.springframework.context.ApplicationContext)}
 * as well as { @link #setServletContext(javax.servlet.ServletContext)}.
 * @param servletContext the ServletContext that this application object runs in
 * (never { @code null})
 */
protected void initServletContext(ServletContext servletContext) {
}

/**
 * Return the current application context as WebApplicationContext.
 * <p><b>NOTE:</b> Only use this if you actually need to access
 * WebApplicationContext-specific functionality. Preferably use
 * { @code getApplicationContext()} or { @code getServletContext()}
 * else, to be able to run in non-WebApplicationContext environments as well.
 * @throws IllegalStateException if not running in a WebApplicationContext
 * @see #getApplicationContext()
 */
protected final WebApplicationContext getWebApplicationContext() throws IllegalStateException {
    ApplicationContext ctx = getApplicationContext();
    if (ctx instanceof WebApplicationContext) {

```

```

return (WebApplicationContext) getApplicationContext();
}
else if (isContextRequired()) {
    throw new IllegalStateException("WebApplicationObjectSupport instance [" + this +
        "] does not run in a WebApplicationContext but in: " + ctx);
}
else {
    return null;
}
}

/**
 * Return the current ServletContext.
 * @throws IllegalStateException if not running within a ServletContext
 */
protected final ServletContext getServletContext() throws IllegalStateException {
    if (this.servletContext != null) {
        return this.servletContext;
    }
    ServletContext servletContext = getWebApplicationContext().getServletContext();
    if (servletContext == null && isContextRequired()) {
        throw new IllegalStateException("WebApplicationObjectSupport instance [" + this +
            "] does not run within a ServletContext. Make sure the object is fully configured!");
    }
    return servletContext;
}

/**
 * Return the temporary directory for the current web application,
 * as provided by the servlet container.
 * @return the File representing the temporary directory
 * @throws IllegalStateException if not running within a ServletContext
 * @see org.springframework.web.util.WebUtils#getTempDir(javax.servlet.ServletContext)
 */
protected final File getTempDir() throws IllegalStateException {
    return WebUtils.getTempDir(getServletContext());
}

}

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```
package org.springframework.web.context.support;
```

```
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
```

```
import org.springframework.beans.factory.config.ConfigurableListableBeanFactory;
import org.springframework.context.support.StaticApplicationContext;
import org.springframework.core.env.ConfigurableEnvironment;
import org.springframework.core.io.Resource;
import org.springframework.core.io.support.ResourcePatternResolver;
import org.springframework.ui.context.Theme;
import org.springframework.ui.context.ThemeSource;
import org.springframework.ui.context.support.UiApplicationContextUtils;
import org.springframework.web.context.ConfigurableWebApplicationContext;
import org.springframework.web.context.ServletConfigAware;
import org.springframework.web.context.ServletContextAware;
```

```
/**
```

```
* Static {@link org.springframework.web.context.WebApplicationContext}
* implementation for testing. Not intended for use in production applications.
*
* <p>Implements the {@link org.springframework.web.context.ConfigurableWebApplicationContext}
* interface to allow for direct replacement of an {@link XmlWebApplicationContext},
* despite not actually supporting external configuration files.
*
* <p>Interprets resource paths as servlet context resources, i.e. as paths beneath
* the web application root. Absolute paths, e.g. for files outside the web app root,
* can be accessed via "file:" URLs, as implemented by
* {@link org.springframework.core.io.DefaultResourceLoader}.
*
* <p>In addition to the special beans detected by
* {@link org.springframework.context.support.AbstractApplicationContext},
* this class detects a bean of type {@link org.springframework.ui.context.ThemeSource}
* in the context, under the special bean name "themeSource".
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.ui.context.ThemeSource
*/
```

```
public class StaticWebApplicationContext extends StaticApplicationContext
    implements ConfigurableWebApplicationContext, ThemeSource {
```

```

private ServletContext servletContext;

private ServletConfig servletConfig;

private String namespace;

private ThemeSource themeSource;

public StaticWebApplicationContext() {
    setDisplayName("Root WebApplicationContext");
}

/**
 * Set the ServletContext that this WebApplicationContext runs in.
 */
@Override
public void setServletContext(ServletContext servletContext) {
    this.servletContext = servletContext;
}

@Override
public ServletContext getServletContext() {
    return this.servletContext;
}

@Override
public void setServletConfig(ServletConfig servletConfig) {
    this.servletConfig = servletConfig;
    if (servletConfig != null && this.servletContext == null) {
        this.servletContext = servletConfig.getServletContext();
    }
}

@Override
public ServletConfig getServletConfig() {
    return this.servletConfig;
}

@Override
public void setNamespace(String namespace) {
    this.namespace = namespace;
    if (namespace != null) {
        setDisplayName("WebApplicationContext for namespace '" + namespace + "'");
    }
}

```

```

@Override
public String getNamespace() {
    return this.namespace;
}

/**
 * The {@link StaticWebApplicationContext} class does not support this method.
 * @throws UnsupportedOperationException <b>always</b>
 */
@Override
public void setConfigLocation(String configLocation) {
    if (configLocation != null) {
        throw new UnsupportedOperationException("StaticWebApplicationContext does not support config locations");
    }
}

/**
 * The {@link StaticWebApplicationContext} class does not support this method.
 * @throws UnsupportedOperationException <b>always</b>
 */
@Override
public void setConfigLocations(String[] configLocations) {
    if (configLocations != null) {
        throw new UnsupportedOperationException("StaticWebApplicationContext does not support config locations");
    }
}

@Override
public String[] getConfigLocations() {
    return null;
}

/**
 * Register request/session scopes, a {@link ServletContextAwareProcessor}, etc.
 */
@Override
protected void postProcessBeanFactory(ConfigurableListableBeanFactory beanFactory) {
    beanFactory.addBeanPostProcessor(new ServletContextAwareProcessor(this.servletContext, this.servletConfig));
    beanFactory.ignoreDependencyInterface(ServletContextAware.class);
    beanFactory.ignoreDependencyInterface(ServletConfigAware.class);

    WebApplicationContextUtils.registerWebApplicationScopes(beanFactory, this.servletContext);
    WebApplicationContextUtils.registerEnvironmentBeans(beanFactory, this.servletContext, this.servletConfig);
}

/**

```

```

* This implementation supports file paths beneath the root of the ServletContext.
* @see ServletContextResource
*/
@Override
protected Resource getResourceByPath(String path) {
    return new ServletContextResource(this.servletContext, path);
}

/**
* This implementation supports pattern matching in unexpanded WARs too.
* @see ServletContextResourcePatternResolver
*/
@Override
protected ResourcePatternResolver getResourcePatternResolver() {
    return new ServletContextResourcePatternResolver(this);
}

/**
* Create and return a new {@link StandardServletEnvironment}.
*/
@Override
protected ConfigurableEnvironment createEnvironment() {
    return new StandardServletEnvironment();
}

/**
* Initialize the theme capability.
*/
@Override
protected void onRefresh() {
    this.themeSource = UiApplicationContextUtils.initThemeSource(this);
}

@Override
protected void initPropertySources() {
    super.initPropertySources();
    WebApplicationContextUtils.initServletPropertySources(
        this.getEnvironment().getPropertySources(), this.servletContext, this.servletConfig);
}

@Override
public Theme getTheme(String themeName) {
    return this.themeSource.getTheme(themeName);
}
}
/*
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```



```

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*/

```

```
package org.springframework.web.context.support;
```

```
import java.io.IOException;
```

```
import org.springframework.beans.BeansException;
import org.springframework.beans.factory.support.DefaultListableBeanFactory;
import org.springframework.beans.factory.xml.ResourceEntityResolver;
import org.springframework.beans.factory.xml.XmlBeanDefinitionReader;
```

```
/**
```

```

* { @link org.springframework.web.context.WebApplicationContext } implementation
* which takes its configuration from XML documents, understood by an
* { @link org.springframework.beans.factory.xml.XmlBeanDefinitionReader }.
* This is essentially the equivalent of
* { @link org.springframework.context.support.AbstractXmlApplicationContext }
* for a web environment.
*

```

```

* <p>By default, the configuration will be taken from "/WEB-INF/applicationContext.xml"
* for the root context, and "/WEB-INF/test-servlet.xml" for a context with the namespace
* "test-servlet" (like for a DispatcherServlet instance with the servlet-name "test").
*

```

```

* <p>The config location defaults can be overridden via the "contextConfigLocation"
* context-param of { @link org.springframework.web.context.ContextLoader } and servlet
* init-param of { @link org.springframework.web.servlet.FrameworkServlet }. Config locations
* can either denote concrete files like "/WEB-INF/context.xml" or Ant-style patterns
* like "/WEB-INF/*-context.xml" (see { @link org.springframework.util.PathMatcher }
* javadoc for pattern details).
*

```

```

* <p>Note: In case of multiple config locations, later bean definitions will
* override ones defined in earlier loaded files. This can be leveraged to
* deliberately override certain bean definitions via an extra XML file.
*

```

```

* <p><b>For a WebApplicationContext that reads in a different bean definition format,
* create an analogous subclass of { @link AbstractRefreshableWebApplicationContext }.</b>

```

```

* Such a context implementation can be specified as "contextClass" context-param
* for ContextLoader or "contextClass" init-param for FrameworkServlet.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see #setNamespace
* @see #setConfigLocations
* @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
* @see org.springframework.web.context.ContextLoader#initWebApplicationContext
* @see org.springframework.web.servlet.FrameworkServlet#initWebApplicationContext
*/
public class XmlWebApplicationContext extends AbstractRefreshableWebApplicationContext {

    /** Default config location for the root context */
    public static final String DEFAULT_CONFIG_LOCATION = "/WEB-INF/applicationContext.xml";

    /** Default prefix for building a config location for a namespace */
    public static final String DEFAULT_CONFIG_LOCATION_PREFIX = "/WEB-INF/";

    /** Default suffix for building a config location for a namespace */
    public static final String DEFAULT_CONFIG_LOCATION_SUFFIX = ".xml";

    /**
     * Loads the bean definitions via an XmlBeanDefinitionReader.
     * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
     * @see #initBeanDefinitionReader
     * @see #loadBeanDefinitions
     */
    @Override
    protected void loadBeanDefinitions(DefaultListableBeanFactory beanFactory) throws BeansException, IOException
    {
        // Create a new XmlBeanDefinitionReader for the given BeanFactory.
        XmlBeanDefinitionReader beanDefinitionReader = new XmlBeanDefinitionReader(beanFactory);

        // Configure the bean definition reader with this context's
        // resource loading environment.
        beanDefinitionReader.setEnvironment(this.getEnvironment());
        beanDefinitionReader.setResourceLoader(this);
        beanDefinitionReader.setEntityResolver(new ResourceEntityResolver(this));

        // Allow a subclass to provide custom initialization of the reader,
        // then proceed with actually loading the bean definitions.
        initBeanDefinitionReader(beanDefinitionReader);
        loadBeanDefinitions(beanDefinitionReader);
    }

    /**

```

```

* Initialize the bean definition reader used for loading the bean
* definitions of this context. Default implementation is empty.
* <p>Can be overridden in subclasses, e.g. for turning off XML validation
* or using a different XmlBeanDefinitionParser implementation.
* @param beanDefinitionReader the bean definition reader used by this context
* @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader#setValidationMode
* @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader#setDocumentReaderClass
*/
protected void initBeanDefinitionReader(XmlBeanDefinitionReader beanDefinitionReader) {
}

/**
* Load the bean definitions with the given XmlBeanDefinitionReader.
* <p>The lifecycle of the bean factory is handled by the refreshBeanFactory method;
* therefore this method is just supposed to load and/or register bean definitions.
* <p>Delegates to a ResourcePatternResolver for resolving location patterns
* into Resource instances.
* @throws java.io.IOException if the required XML document isn't found
* @see #refreshBeanFactory
* @see #getConfigLocations
* @see #getResources
* @see #getResourcePatternResolver
*/
protected void loadBeanDefinitions(XmlBeanDefinitionReader reader) throws IOException {
    String[] configLocations = getConfigLocations();
    if (configLocations != null) {
        for (String configLocation : configLocations) {
            reader.loadBeanDefinitions(configLocation);
        }
    }
}

/**
* The default location for the root context is "/WEB-INF/applicationContext.xml",
* and "/WEB-INF/test-servlet.xml" for a context with the namespace "test-servlet"
* (like for a DispatcherServlet instance with the servlet-name "test").
*/
@Override
protected String[] getDefaultConfigLocations() {
    if (getNamespace() != null) {
        return new String[] {DEFAULT_CONFIG_LOCATION_PREFIX + getNamespace() +
DEFAULT_CONFIG_LOCATION_SUFFIX};
    }
    else {
        return new String[] {DEFAULT_CONFIG_LOCATION};
    }
}

```

```

}
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 */

package org.springframework.web.context.support;

import java.util.Arrays;
import java.util.LinkedHashSet;
import java.util.Set;

import org.springframework.beans.factory.support.BeanNameGenerator;
import org.springframework.beans.factory.support.DefaultListableBeanFactory;
import org.springframework.context.annotation.AnnotatedBeanDefinitionReader;
import org.springframework.context.annotation.AnnotationConfigUtils;
import org.springframework.context.annotation.ClassPathBeanDefinitionScanner;
import org.springframework.context.annotation.ScopeMetadataResolver;
import org.springframework.util.Assert;
import org.springframework.util.StringUtils;
import org.springframework.web.context.ContextLoader;

/**
 * {@link org.springframework.web.context.WebApplicationContext WebApplicationContext}
 * implementation which accepts annotated classes as input - in particular
 * {@link org.springframework.context.annotation.Configuration @Configuration}-annotated
 * classes, but also plain {@link org.springframework.stereotype.Component @Component}
 * classes and JSR-330 compliant classes using {@code javax.inject} annotations. Allows
 * for registering classes one by one (specifying class names as config location) as well
 * as for classpath scanning (specifying base packages as config location).
 *
 * <p>This is essentially the equivalent of
 * {@link org.springframework.context.annotation.AnnotationConfigApplicationContext
 * AnnotationConfigApplicationContext} for a web environment.
 *
 * <p>To make use of this application context, the
 * {@link plain ContextLoader#CONTEXT_CLASS_PARAM "contextClass"} context-param for

```

```

* ContextLoader and/or "contextClass" init-param for FrameworkServlet must be set to
* the fully-qualified name of this class.
*
* <p>As of Spring 3.1, this class may also be directly instantiated and injected into
* Spring's { @code DispatcherServlet } or { @code ContextLoaderListener } when using the
* new { @link org.springframework.web.WebApplicationInitializer WebApplicationInitializer }
* code-based alternative to { @code web.xml }. See its Javadoc for details and usage examples.
*
* <p>Unlike { @link XmlWebApplicationContext }, no default configuration class locations
* are assumed. Rather, it is a requirement to set the
* { @linkplain ContextLoader#CONFIG_LOCATION_PARAM "contextConfigLocation" }
* context-param for { @link ContextLoader } and/or "contextConfigLocation" init-param for
* FrameworkServlet. The param-value may contain both fully-qualified
* class names and base packages to scan for components. See { @link #loadBeanDefinitions }
* for exact details on how these locations are processed.
*
* <p>As an alternative to setting the "contextConfigLocation" parameter, users may
* implement an { @link org.springframework.context.ApplicationContextInitializer
* ApplicationContextInitializer } and set the
* { @linkplain ContextLoader#CONTEXT_INITIALIZER_CLASSES_PARAM "contextInitializerClasses" }
* context-param / init-param. In such cases, users should favor the { @link #refresh() }
* and { @link #scan(String...)} methods over the { @link #setConfigLocation(String) }
* method, which is primarily for use by { @code ContextLoader }.
*
* <p>Note: In case of multiple { @code @Configuration } classes, later { @code @Bean }
* definitions will override ones defined in earlier loaded files. This can be leveraged
* to deliberately override certain bean definitions via an extra Configuration class.
*
* @author Chris Beams
* @author Juergen Hoeller
* @since 3.0
* @see org.springframework.context.annotation.AnnotationConfigApplicationContext
*/
public class AnnotationConfigWebApplicationContext extends AbstractRefreshableWebApplicationContext {

    private BeanNameGenerator beanNameGenerator;

    private ScopeMetadataResolver scopeMetadataResolver;

    private final Set<Class<?>> annotatedClasses = new LinkedHashSet<Class<?>>();

    private final Set<String> basePackages = new LinkedHashSet<String>();

    /**
     * Set a custom { @link BeanNameGenerator } for use with { @link AnnotatedBeanDefinitionReader }
     * and/or { @link ClassPathBeanDefinitionScanner }.
     * <p>Default is { @link org.springframework.context.annotation.AnnotationBeanNameGenerator }.

```

```

* @see AnnotatedBeanDefinitionReader#setBeanNameGenerator
* @see ClassPathBeanDefinitionScanner#setBeanNameGenerator
*/
public void setBeanNameGenerator(BeanNameGenerator beanNameGenerator) {
    this.beanNameGenerator = beanNameGenerator;
}

/**
* Return the custom { @link BeanNameGenerator } for use with { @link AnnotatedBeanDefinitionReader }
* and/or { @link ClassPathBeanDefinitionScanner }, if any.
*/
protected BeanNameGenerator getBeanNameGenerator() {
    return this.beanNameGenerator;
}

/**
* Set a custom { @link ScopeMetadataResolver } for use with { @link AnnotatedBeanDefinitionReader }
* and/or { @link ClassPathBeanDefinitionScanner }.
* <p>Default is an { @link org.springframework.context.annotation.AnnotationScopeMetadataResolver }.
* @see AnnotatedBeanDefinitionReader#setScopeMetadataResolver
* @see ClassPathBeanDefinitionScanner#setScopeMetadataResolver
*/
public void setScopeMetadataResolver(ScopeMetadataResolver scopeMetadataResolver) {
    this.scopeMetadataResolver = scopeMetadataResolver;
}

/**
* Return the custom { @link ScopeMetadataResolver } for use with { @link AnnotatedBeanDefinitionReader }
* and/or { @link ClassPathBeanDefinitionScanner }, if any.
*/
protected ScopeMetadataResolver getScopeMetadataResolver() {
    return this.scopeMetadataResolver;
}

/**
* Register one or more annotated classes to be processed.
* Note that { @link #refresh() } must be called in order for the context
* to fully process the new class.
* <p>Calls to { @code register } are idempotent; adding the same
* annotated class more than once has no additional effect.
* @param annotatedClasses one or more annotated classes,
* e.g. { @link org.springframework.context.annotation.Configuration @Configuration } classes
* @see #scan(String...)
* @see #loadBeanDefinitions(DefaultListableBeanFactory)
* @see #setConfigLocation(String)
* @see #refresh()
*/

```

```

public void register(Class<?>... annotatedClasses) {
    Assert.notEmpty(annotatedClasses, "At least one annotated class must be specified");
    this.annotatedClasses.addAll(Arrays.asList(annotatedClasses));
}

/**
 * Perform a scan within the specified base packages.
 * Note that { @link #refresh()} must be called in order for the context to
 * fully process the new class.
 * @param basePackages the packages to check for annotated classes
 * @see #loadBeanDefinitions(DefaultListableBeanFactory)
 * @see #register(Class...)
 * @see #setConfigLocation(String)
 * @see #refresh()
 */
public void scan(String... basePackages) {
    Assert.notEmpty(basePackages, "At least one base package must be specified");
    this.basePackages.addAll(Arrays.asList(basePackages));
}

/**
 * Register a { @link org.springframework.beans.factory.config.BeanDefinition} for
 * any classes specified by { @link #register(Class...)} and scan any packages
 * specified by { @link #scan(String...)}.
 * <p>For any values specified by { @link #setConfigLocation(String)} or
 * { @link #setConfigLocations(String[])}, attempt first to load each location as a
 * class, registering a { @code BeanDefinition} if class loading is successful,
 * and if class loading fails (i.e. a { @code ClassNotFoundException} is raised),
 * assume the value is a package and attempt to scan it for annotated classes.
 * <p>Enables the default set of annotation configuration post processors, such that
 * { @code @Autowired}, { @code @Required}, and associated annotations can be used.
 * <p>Configuration class bean definitions are registered with generated bean
 * definition names unless the { @code value} attribute is provided to the stereotype
 * annotation.
 * @see #register(Class...)
 * @see #scan(String...)
 * @see #setConfigLocation(String)
 * @see #setConfigLocations(String[])
 * @see AnnotatedBeanDefinitionReader
 * @see ClassPathBeanDefinitionScanner
 */
@Override
protected void loadBeanDefinitions(DefaultListableBeanFactory beanFactory) {
    AnnotatedBeanDefinitionReader reader = new AnnotatedBeanDefinitionReader(beanFactory);
    reader.setEnvironment(this.getEnvironment());

    ClassPathBeanDefinitionScanner scanner = new ClassPathBeanDefinitionScanner(beanFactory);

```

```

scanner.setEnvironment(this.getEnvironment());

BeanNameGenerator beanNameGenerator = getBeanNameGenerator();
ScopeMetadataResolver scopeMetadataResolver = getScopeMetadataResolver();
if (beanNameGenerator != null) {
    reader.setBeanNameGenerator(beanNameGenerator);
    scanner.setBeanNameGenerator(beanNameGenerator);
    beanFactory.registerSingleton(
        AnnotationConfigUtils.CONFIGURATION_BEAN_NAME_GENERATOR, beanNameGenerator);
}
if (scopeMetadataResolver != null) {
    reader.setScopeMetadataResolver(scopeMetadataResolver);
    scanner.setScopeMetadataResolver(scopeMetadataResolver);
}

if (!this.annotatedClasses.isEmpty()) {
    if (logger.isInfoEnabled()) {
        logger.info("Registering annotated classes: [" +
            StringUtils.collectionToCommaDelimitedString(this.annotatedClasses) + "]);
    }
    reader.register(this.annotatedClasses.toArray(new Class<?>[this.annotatedClasses.size()]));
}

if (!this.basePackages.isEmpty()) {
    if (logger.isInfoEnabled()) {
        logger.info("Scanning base packages: [" +
            StringUtils.collectionToCommaDelimitedString(this.basePackages) + "]);
    }
    scanner.scan(this.basePackages.toArray(new String[this.basePackages.size()]));
}

String[] configLocations = getConfigLocations();
if (configLocations != null) {
    for (String configLocation : configLocations) {
        try {
            Class<?> clazz = getClassLoader().loadClass(configLocation);
            if (logger.isInfoEnabled()) {
                logger.info("Successfully resolved class for [" + configLocation + "]);
            }
            reader.register(clazz);
        }
        catch (ClassNotFoundException ex) {
            if (logger.isDebugEnabled()) {
                logger.debug("Could not load class for config location [" + configLocation +
                    "] - trying package scan. " + ex);
            }
        }
        int count = scanner.scan(configLocation);
        if (logger.isInfoEnabled()) {

```



```

    if (count == 0) {
        logger.info("No annotated classes found for specified class/package [" + configLocation + "]);
    }
    else {
        logger.info("Found " + count + " annotated classes in package [" + configLocation + "]);
    }
}
}
}
}
}
}

}
/*
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 * limitations under the License.
 */

package org.springframework.web.context.support;

import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;

import org.springframework.beans.factory.config.ConfigurableListableBeanFactory;
import org.springframework.beans.factory.support.DefaultListableBeanFactory;
import org.springframework.context.support.GenericApplicationContext;
import org.springframework.core.env.ConfigurableEnvironment;
import org.springframework.core.io.Resource;
import org.springframework.core.io.support.ResourcePatternResolver;
import org.springframework.ui.context.Theme;
import org.springframework.ui.context.ThemeSource;
import org.springframework.ui.context.support.UiApplicationContextUtils;
import org.springframework.util.ObjectUtils;
import org.springframework.util.StringUtils;
import org.springframework.web.context.ConfigurableWebApplicationContext;
import org.springframework.web.context.ConfigurableWebEnvironment;
import org.springframework.web.context.ServletContextAware;

```

```

/**
 * Subclass of { @link GenericApplicationContext }, suitable for web environments.
 *
 * <p>Implements the
 * { @link org.springframework.web.context.ConfigurableWebApplicationContext },
 * but is not intended for declarative setup in { @code web.xml }. Instead,
 * it is designed for programmatic setup, for example for building nested contexts or
 * for use within Spring 3.1 { @link org.springframework.web.WebApplicationInitializer}s.
 *
 * <p><b>If you intend to implement a WebApplicationContext that reads bean definitions
 * from configuration files, consider deriving from AbstractRefreshableWebApplicationContext,
 * reading the bean definitions in an implementation of the { @code loadBeanDefinitions }
 * method.</b>
 *
 * <p>Interprets resource paths as servlet context resources, i.e. as paths beneath
 * the web application root. Absolute paths, e.g. for files outside the web app root,
 * can be accessed via "file:" URLs, as implemented by AbstractApplicationContext.
 *
 * <p>In addition to the special beans detected by
 * { @link org.springframework.context.support.AbstractApplicationContext },
 * this class detects a ThemeSource bean in the context, with the name "themeSource".
 *
 * @author Juergen Hoeller
 * @author Chris Beams
 * @since 1.2
 */
public class GenericWebApplicationContext extends GenericApplicationContext
    implements ConfigurableWebApplicationContext, ThemeSource {

    private ServletContext servletContext;

    private ThemeSource themeSource;

    /**
     * Create a new GenericWebApplicationContext.
     * @see #setServletContext
     * @see #registerBeanDefinition
     * @see #refresh
     */
    public GenericWebApplicationContext() {
        super();
    }

    /**
     * Create a new GenericWebApplicationContext for the given ServletContext.
     * @param servletContext the ServletContext to run in

```

```

* @see #registerBeanDefinition
* @see #refresh
*/
public GenericWebApplicationContext(ServletContext servletContext) {
    this.servletContext = servletContext;
}

/**
* Create a new GenericWebApplicationContext with the given DefaultListableBeanFactory.
* @param beanFactory the DefaultListableBeanFactory instance to use for this context
* @see #setServletContext
* @see #registerBeanDefinition
* @see #refresh
*/
public GenericWebApplicationContext(DefaultListableBeanFactory beanFactory) {
    super(beanFactory);
}

/**
* Create a new GenericWebApplicationContext with the given DefaultListableBeanFactory.
* @param beanFactory the DefaultListableBeanFactory instance to use for this context
* @param servletContext the ServletContext to run in
* @see #registerBeanDefinition
* @see #refresh
*/
public GenericWebApplicationContext(DefaultListableBeanFactory beanFactory, ServletContext servletContext) {
    super(beanFactory);
    this.servletContext = servletContext;
}

/**
* Set the ServletContext that this WebApplicationContext runs in.
*/
@Override
public void setServletContext(ServletContext servletContext) {
    this.servletContext = servletContext;
}

@Override
public ServletContext getServletContext() {
    return this.servletContext;
}

@Override
public String getApplicationName() {
    return (this.servletContext != null ? this.servletContext.getContextPath() : "");
}

```

```

/**
 * Create and return a new {@link StandardServletEnvironment}.
 */
@Override
protected ConfigurableEnvironment createEnvironment() {
    return new StandardServletEnvironment();
}

/**
 * Register ServletContextAwareProcessor.
 * @see ServletContextAwareProcessor
 */
@Override
protected void postProcessBeanFactory(ConfigurableListableBeanFactory beanFactory) {
    beanFactory.addBeanPostProcessor(new ServletContextAwareProcessor(this.servletContext));
    beanFactory.ignoreDependencyInterface(ServletContextAware.class);

    WebApplicationContextUtils.registerWebApplicationScopes(beanFactory, this.servletContext);
    WebApplicationContextUtils.registerEnvironmentBeans(beanFactory, this.servletContext);
}

/**
 * This implementation supports file paths beneath the root of the ServletContext.
 * @see ServletContextResource
 */
@Override
protected Resource getResourceByPath(String path) {
    return new ServletContextResource(this.servletContext, path);
}

/**
 * This implementation supports pattern matching in unexpanded WARs too.
 * @see ServletContextResourcePatternResolver
 */
@Override
protected ResourcePatternResolver getResourcePatternResolver() {
    return new ServletContextResourcePatternResolver(this);
}

/**
 * Initialize the theme capability.
 */
@Override
protected void onRefresh() {
    this.themeSource = UiApplicationContextUtils.initThemeSource(this);
}

```

```

/**
 * {@inheritDoc}
 * <p>Replace {@code Servlet}-related property sources.
 */
@Override
protected void initPropertySources() {
    super.initPropertySources();
    ConfigurableEnvironment env = this.getEnvironment();
    if (env instanceof ConfigurableWebEnvironment) {
        ((ConfigurableWebEnvironment)env).initPropertySources(
            this.servletContext, null);
    }
}

@Override
public Theme getTheme(String themeName) {
    return this.themeSource.getTheme(themeName);
}

// -----
// Pseudo-implementation of ConfigurableWebApplicationContext
// -----

@Override
public void setServletConfig(ServletConfig servletConfig) {
    // no-op
}

@Override
public ServletConfig getServletConfig() {
    throw new UnsupportedOperationException(
        "GenericWebApplicationContext does not support getServletConfig()");
}

@Override
public void setNamespace(String namespace) {
    // no-op
}

@Override
public String getNamespace() {
    throw new UnsupportedOperationException(
        "GenericWebApplicationContext does not support getNamespace()");
}

@Override
public void setConfigLocation(String configLocation) {

```

```

if (StringUtils.hasText(configLocation)) {
    throw new UnsupportedOperationException(
        "GenericWebApplicationContext does not support setConfigLocation(). " +
        "Do you still have an 'contextConfigLocations' init-param set?");
}
}

@Override
public void setConfigLocations(String[] configLocations) {
    if (!ObjectUtils.isEmpty(configLocations)) {
        throw new UnsupportedOperationException(
            "GenericWebApplicationContext does not support setConfigLocations(). " +
            "Do you still have an 'contextConfigLocations' init-param set?");
    }
}

@Override
public String[] getConfigLocations() {
    throw new UnsupportedOperationException(
        "GenericWebApplicationContext does not support getConfigLocations()");
}
}
/*
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 * limitations under the License.
 */

package org.springframework.web.context.support;

import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;

import org.springframework.beans.factory.config.ConfigurableListableBeanFactory;
import org.springframework.context.support.AbstractRefreshableConfigApplicationContext;
import org.springframework.core.env.ConfigurableEnvironment;
import org.springframework.core.io.Resource;

```

```

import org.springframework.core.io.support.ResourcePatternResolver;
import org.springframework.ui.context.Theme;
import org.springframework.ui.context.ThemeSource;
import org.springframework.ui.context.support.UiApplicationContextUtils;
import org.springframework.web.context.ConfigurableWebApplicationContext;
import org.springframework.web.context.ConfigurableWebEnvironment;
import org.springframework.web.context.ServletConfigAware;
import org.springframework.web.context.ServletContextAware;

/**
 * {@link org.springframework.context.support.AbstractRefreshableApplicationContext}
 * subclass which implements the
 * {@link org.springframework.web.context.ConfigurableWebApplicationContext}
 * interface for web environments. Provides a "configLocations" property,
 * to be populated through the ConfigurableWebApplicationContext interface
 * on web application startup.
 *
 * <p>This class is as easy to subclass as AbstractRefreshableApplicationContext:
 * All you need to implement is the {@link #loadBeanDefinitions} method;
 * see the superclass javadoc for details. Note that implementations are supposed
 * to load bean definitions from the files specified by the locations returned
 * by the {@link #getConfigLocations} method.
 *
 * <p>Interprets resource paths as servlet context resources, i.e. as paths beneath
 * the web application root. Absolute paths, e.g. for files outside the web app root,
 * can be accessed via "file:" URLs, as implemented by
 * {@link org.springframework.core.io.DefaultResourceLoader}.
 *
 * <p>In addition to the special beans detected by
 * {@link org.springframework.context.support.AbstractApplicationContext},
 * this class detects a bean of type {@link org.springframework.ui.context.ThemeSource}
 * in the context, under the special bean name "themeSource".
 *
 * <p><b>This is the web context to be subclassed for a different bean definition format.</b>
 * Such a context implementation can be specified as "contextClass" context-param
 * for {@link org.springframework.web.context.ContextLoader} or as "contextClass"
 * init-param for {@link org.springframework.web.servlet.FrameworkServlet},
 * replacing the default {@link XmlWebApplicationContext}. It will then automatically
 * receive the "contextConfigLocation" context-param or init-param, respectively.
 *
 * <p>Note that WebApplicationContext implementations are generally supposed
 * to configure themselves based on the configuration received through the
 * {@link ConfigurableWebApplicationContext} interface. In contrast, a standalone
 * application context might allow for configuration in custom startup code
 * (for example, {@link org.springframework.context.support.GenericApplicationContext}).
 *
 * @author Juergen Hoeller
 * @since 1.1.3

```

```
* @see #loadBeanDefinitions
* @see org.springframework.web.context.ConfigurableWebApplicationContext#setConfigLocations
* @see org.springframework.ui.context.ThemeSource
* @see XmlWebApplicationContext
*/
```

```
public abstract class AbstractRefreshableWebApplicationContext extends
AbstractRefreshableConfigApplicationContext
implements ConfigurableWebApplicationContext, ThemeSource {
```

```
/** Servlet context that this context runs in */
private ServletContext servletContext;
```

```
/** Servlet config that this context runs in, if any */
private ServletConfig servletConfig;
```

```
/** Namespace of this context, or { @code null } if root */
private String namespace;
```

```
/** the ThemeSource for this ApplicationContext */
private ThemeSource themeSource;
```

```
public AbstractRefreshableWebApplicationContext() {
    setDisplayName("Root WebApplicationContext");
}
```

```
@Override
public void setServletContext(ServletContext servletContext) {
    this.servletContext = servletContext;
}
```

```
@Override
public ServletContext getServletContext() {
    return this.servletContext;
}
```

```
@Override
public void setServletConfig(ServletConfig servletConfig) {
    this.servletConfig = servletConfig;
    if (servletConfig != null && this.servletContext == null) {
        setServletContext(servletConfig.getServletContext());
    }
}
```

```
@Override
public ServletConfig getServletConfig() {
    return this.servletConfig;
}
```



```

}

@Override
public void setNamespace(String namespace) {
    this.namespace = namespace;
    if (namespace != null) {
        setDisplayName("WebApplicationContext for namespace '" + namespace + "'");
    }
}

@Override
public String getNamespace() {
    return this.namespace;
}

@Override
public String[] getConfigLocations() {
    return super.getConfigLocations();
}

@Override
public String getApplicationName() {
    return (this.servletContext != null ? this.servletContext.getContextPath() : "");
}

/**
 * Create and return a new {@link StandardServletEnvironment}. Subclasses may override
 * in order to configure the environment or specialize the environment type returned.
 */
@Override
protected ConfigurableEnvironment createEnvironment() {
    return new StandardServletEnvironment();
}

/**
 * Register request/session scopes, a {@link ServletContextAwareProcessor}, etc.
 */
@Override
protected void postProcessBeanFactory(ConfigurableListableBeanFactory beanFactory) {
    beanFactory.addBeanPostProcessor(new ServletContextAwareProcessor(this.servletContext, this.servletConfig));
    beanFactory.ignoreDependencyInterface(ServletContextAware.class);
    beanFactory.ignoreDependencyInterface(ServletConfigAware.class);

    WebApplicationContextUtils.registerWebApplicationScopes(beanFactory, this.servletContext);
    WebApplicationContextUtils.registerEnvironmentBeans(beanFactory, this.servletContext, this.servletConfig);
}

/**

```

```

* This implementation supports file paths beneath the root of the ServletContext.
* @see ServletContextResource
*/
@Override
protected Resource getResourceByPath(String path) {
    return new ServletContextResource(this.servletContext, path);
}

/**
* This implementation supports pattern matching in unexpanded WARs too.
* @see ServletContextResourcePatternResolver
*/
@Override
protected ResourcePatternResolver getResourcePatternResolver() {
    return new ServletContextResourcePatternResolver(this);
}

/**
* Initialize the theme capability.
*/
@Override
protected void onRefresh() {
    this.themeSource = UiApplicationContextUtils.initThemeSource(this);
}

/**
* {@inheritDoc}
* <p>Replace {@code Servlet}-related property sources.
*/
@Override
protected void initPropertySources() {
    super.initPropertySources();
    ConfigurableEnvironment env = this.getEnvironment();
    if (env instanceof ConfigurableWebEnvironment) {
        ((ConfigurableWebEnvironment)env).initPropertySources(
            this.servletContext, this.servletConfig);
    }
}

@Override
public Theme getTheme(String themeName) {
    return this.themeSource.getTheme(themeName);
}

}
/*
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*

```

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- \* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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- \* limitations under the License.
- \*/

```
package org.springframework.web.context.support;
```

```
import static
org.springframework.web.context.support.StandardServletEnvironment.SERVLET_CONFIG_PROPERTY_SOUR
CE_NAME;
import static
org.springframework.web.context.support.StandardServletEnvironment.SERVLET_CONTEXT_PROPERTY_SOU
RCE_NAME;
```

```
import java.io.Serializable;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.Map;
```

```
import javax.faces.context.ExternalContext;
import javax.faces.context.FacesContext;
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.http.HttpSession;
```

```
import org.springframework.beans.factory.ObjectFactory;
import org.springframework.beans.factory.config.ConfigurableListableBeanFactory;
import org.springframework.core.env.MutablePropertySources;
import org.springframework.core.env.PropertySource.StubPropertySource;
import org.springframework.util.Assert;
import org.springframework.util.ClassUtils;
import org.springframework.web.context.ConfigurableWebApplicationContext;
import org.springframework.web.context.WebApplicationContext;
import org.springframework.web.context.request.RequestAttributes;
import org.springframework.web.context.request.RequestContextHolder;
import org.springframework.web.context.request.RequestScope;
import org.springframework.web.context.request.ServletRequestAttributes;
import org.springframework.web.context.request.ServletWebRequest;
```

```

import org.springframework.web.context.request.SessionScope;
import org.springframework.web.context.request.WebRequest;

/**
 * Convenience methods for retrieving the root
 * { @link org.springframework.web.context.WebApplicationContext } for a given
 * { @code ServletContext }. This is e.g. useful for accessing a Spring
 * context from within custom web views or Struts actions.
 *
 * <p>Note that there are more convenient ways of accessing the root context for
 * many web frameworks, either part of Spring or available as external library.
 * This helper class is just the most generic way to access the root context.
 *
 * @author Juergen Hoeller
 * @see org.springframework.web.context.ContextLoader
 * @see org.springframework.web.servlet.FrameworkServlet
 * @see org.springframework.web.servlet.DispatcherServlet
 * @see org.springframework.web.jsf.FacesContextUtils
 * @see org.springframework.web.jsf.el.SpringBeanFacesELResolver
 */
public abstract class WebApplicationContextUtils {

    private static final boolean jsfPresent =
        ClassUtils.isPresent("javax.faces.context.FacesContext", RequestContextHolder.class.getClassLoader());

    /**
     * Find the root WebApplicationContext for this web application, which is
     * typically loaded via { @link org.springframework.web.context.ContextLoaderListener }.
     * <p>Will rethrow an exception that happened on root context startup,
     * to differentiate between a failed context startup and no context at all.
     * @param sc ServletContext to find the web application context for
     * @return the root WebApplicationContext for this web app
     * @throws IllegalStateException if the root WebApplicationContext could not be found
     * @see
     org.springframework.web.context.WebApplicationContext#ROOT_WEB_APPLICATION_CONTEXT_ATTRIBUTE
     */
    public static WebApplicationContext getRequiredWebApplicationContext(ServletContext sc)
        throws IllegalStateException {

        WebApplicationContext wac = getWebApplicationContext(sc);
        if (wac == null) {
            throw new IllegalStateException("No WebApplicationContext found: no ContextLoaderListener registered?");
        }
        return wac;
    }
}

```

```

/**
 * Find the root WebApplicationContext for this web application, which is
 * typically loaded via {@link org.springframework.web.context.ContextLoaderListener}.
 * <p>Will rethrow an exception that happened on root context startup,
 * to differentiate between a failed context startup and no context at all.
 * @param sc ServletContext to find the web application context for
 * @return the root WebApplicationContext for this web app, or {@code null} if none
 * @see
org.springframework.web.context.WebApplicationContext#ROOT_WEB_APPLICATION_CONTEXT_ATTRIBU
TE
 */
public static WebApplicationContext getWebApplicationContext(ServletContext sc) {
    return getWebApplicationContext(sc,
WebApplicationContext.ROOT_WEB_APPLICATION_CONTEXT_ATTRIBUTE);
}

/**
 * Find a custom WebApplicationContext for this web application.
 * @param sc ServletContext to find the web application context for
 * @param attrName the name of the ServletContext attribute to look for
 * @return the desired WebApplicationContext for this web app, or {@code null} if none
 */
public static WebApplicationContext getWebApplicationContext(ServletContext sc, String attrName) {
    Assert.notNull(sc, "ServletContext must not be null");
    Object attr = sc.getAttribute(attrName);
    if (attr == null) {
        return null;
    }
    if (attr instanceof RuntimeException) {
        throw (RuntimeException) attr;
    }
    if (attr instanceof Error) {
        throw (Error) attr;
    }
    if (attr instanceof Exception) {
        throw new IllegalStateException((Exception) attr);
    }
    if (!(attr instanceof WebApplicationContext)) {
        throw new IllegalStateException("Context attribute is not of type WebApplicationContext: " + attr);
    }
    return (WebApplicationContext) attr;
}

/**
 * Register web-specific scopes ("request", "session", "globalSession")
 * with the given BeanFactory, as used by the WebApplicationContext.
 * @param beanFactory the BeanFactory to configure

```

```

*/
public static void registerWebApplicationScopes(ConfigurableListableBeanFactory beanFactory) {
    registerWebApplicationScopes(beanFactory, null);
}

/**
 * Register web-specific scopes ("request", "session", "globalSession", "application")
 * with the given BeanFactory, as used by the WebApplicationContext.
 * @param beanFactory the BeanFactory to configure
 * @param sc the ServletContext that we're running within
 */
public static void registerWebApplicationScopes(ConfigurableListableBeanFactory beanFactory, ServletContext sc)
{
    beanFactory.registerScope(WebApplicationContext.SCOPE_REQUEST, new RequestScope());
    beanFactory.registerScope(WebApplicationContext.SCOPE_SESSION, new SessionScope(false));
    beanFactory.registerScope(WebApplicationContext.SCOPE_GLOBAL_SESSION, new SessionScope(true));
    if (sc != null) {
        ServletContextScope appScope = new ServletContextScope(sc);
        beanFactory.registerScope(WebApplicationContext.SCOPE_APPLICATION, appScope);
        // Register as ServletContext attribute, for ContextCleanupListener to detect it.
        sc.setAttribute(ServletContextScope.class.getName(), appScope);
    }

    beanFactory.registerResolvableDependency(ServletRequest.class, new RequestObjectFactory());
    beanFactory.registerResolvableDependency(HttpSession.class, new SessionObjectFactory());
    beanFactory.registerResolvableDependency(WebRequest.class, new WebRequestObjectFactory());
    if (jsfPresent) {
        FacesDependencyRegistrar.registerFacesDependencies(beanFactory);
    }
}

/**
 * Register web-specific environment beans ("contextParameters", "contextAttributes")
 * with the given BeanFactory, as used by the WebApplicationContext.
 * @param bf the BeanFactory to configure
 * @param sc the ServletContext that we're running within
 */
public static void registerEnvironmentBeans(ConfigurableListableBeanFactory bf, ServletContext sc) {
    registerEnvironmentBeans(bf, sc, null);
}

/**
 * Register web-specific environment beans ("contextParameters", "contextAttributes")
 * with the given BeanFactory, as used by the WebApplicationContext.
 * @param bf the BeanFactory to configure
 * @param sc the ServletContext that we're running within
 * @param config the ServletConfig of the containing Portlet
 */

```

```

public static void registerEnvironmentBeans(
    ConfigurableListableBeanFactory bf, ServletContext sc, ServletConfig config) {

    if (sc != null && !bf.containsBean(WebApplicationContext.SERVLET_CONTEXT_BEAN_NAME)) {
        bf.registerSingleton(WebApplicationContext.SERVLET_CONTEXT_BEAN_NAME, sc);
    }

    if (config != null &&
!bf.containsBean(ConfigurableWebApplicationContext.SERVLET_CONFIG_BEAN_NAME)) {
        bf.registerSingleton(ConfigurableWebApplicationContext.SERVLET_CONFIG_BEAN_NAME, config);
    }

    if (!bf.containsBean(WebApplicationContext.CONTEXT_PARAMETERS_BEAN_NAME)) {
        Map<String, String> parameterMap = new HashMap<String, String>();
        if (sc != null) {
            Enumeration<?> paramNameEnum = sc.getInitParameterNames();
            while (paramNameEnum.hasMoreElements()) {
                String paramName = (String) paramNameEnum.nextElement();
                parameterMap.put(paramName, sc.getInitParameter(paramName));
            }
        }
        if (config != null) {
            Enumeration<?> paramNameEnum = config.getInitParameterNames();
            while (paramNameEnum.hasMoreElements()) {
                String paramName = (String) paramNameEnum.nextElement();
                parameterMap.put(paramName, config.getInitParameter(paramName));
            }
        }
        bf.registerSingleton(WebApplicationContext.CONTEXT_PARAMETERS_BEAN_NAME,
            Collections.unmodifiableMap(parameterMap));
    }

    if (!bf.containsBean(WebApplicationContext.CONTEXT_ATTRIBUTES_BEAN_NAME)) {
        Map<String, Object> attributeMap = new HashMap<String, Object>();
        if (sc != null) {
            Enumeration<?> attrNameEnum = sc.getAttributeNames();
            while (attrNameEnum.hasMoreElements()) {
                String attrName = (String) attrNameEnum.nextElement();
                attributeMap.put(attrName, sc.getAttribute(attrName));
            }
        }
        bf.registerSingleton(WebApplicationContext.CONTEXT_ATTRIBUTES_BEAN_NAME,
            Collections.unmodifiableMap(attributeMap));
    }
}

/**
 * Convenient variant of { @link #initServletPropertySources(MutablePropertySources,

```

```

* ServletContext, ServletConfig) that always provides {@code null} for the
* {@link ServletConfig} parameter.
* @see #initServletPropertySources(MutablePropertySources, ServletContext, ServletConfig)
*/
public static void initServletPropertySources(
    MutablePropertySources propertySources, ServletContext servletContext) {
    initServletPropertySources(propertySources, servletContext, null);
}

/**
 * Replace {@code Servlet}-based {@link StubPropertySource stub property sources} with
 * actual instances populated with the given {@code servletContext} and
 * {@code servletConfig} objects.
 * <p>This method is idempotent with respect to the fact it may be called any number
 * of times but will perform replacement of stub property sources with their
 * corresponding actual property sources once and only once.
 * @param propertySources the {@link MutablePropertySources} to initialize (must not
 * be {@code null})
 * @param servletContext the current {@link ServletContext} (ignored if {@code null}
 * or if the {@link StandardServletEnvironment#SERVLET_CONTEXT_PROPERTY_SOURCE_NAME
 * servlet context property source} has already been initialized)
 * @param servletConfig the current {@link ServletConfig} (ignored if {@code null}
 * or if the {@link StandardServletEnvironment#SERVLET_CONFIG_PROPERTY_SOURCE_NAME
 * servlet config property source} has already been initialized)
 * @see org.springframework.core.env.PropertySource.StubPropertySource
 * @see org.springframework.core.env.ConfigurableEnvironment#getPropertySources()
 */
public static void initServletPropertySources(
    MutablePropertySources propertySources, ServletContext servletContext, ServletConfig servletConfig) {
    Assert.notNull(propertySources, "propertySources must not be null");
    if(servletContext != null &&
        propertySources.contains(SERVLET_CONTEXT_PROPERTY_SOURCE_NAME) &&
        propertySources.get(SERVLET_CONTEXT_PROPERTY_SOURCE_NAME) instanceof StubPropertySource) {
        propertySources.replace(SERVLET_CONTEXT_PROPERTY_SOURCE_NAME, new
    ServletContextPropertySource(SERVLET_CONTEXT_PROPERTY_SOURCE_NAME, servletContext));
    }
    if(servletConfig != null &&
        propertySources.contains(SERVLET_CONFIG_PROPERTY_SOURCE_NAME) &&
        propertySources.get(SERVLET_CONFIG_PROPERTY_SOURCE_NAME) instanceof StubPropertySource) {
        propertySources.replace(SERVLET_CONFIG_PROPERTY_SOURCE_NAME, new
    ServletConfigPropertySource(SERVLET_CONFIG_PROPERTY_SOURCE_NAME, servletConfig));
    }
}

/**
 * Return the current RequestAttributes instance as ServletRequestAttributes.
 * @see RequestContextHolder#currentRequestAttributes()
 */

```



```

private static ServletRequestAttributes currentRequestAttributes() {
    RequestAttributes requestAttr = RequestContextHolder.currentRequestAttributes();
    if (!(requestAttr instanceof ServletRequestAttributes)) {
        throw new IllegalStateException("Current request is not a servlet request");
    }
    return (ServletRequestAttributes) requestAttr;
}

/**
 * Factory that exposes the current request object on demand.
 */
@SuppressWarnings("serial")
private static class RequestObjectFactory implements ObjectFactory<ServletRequest>, Serializable {

    @Override
    public ServletRequest getObject() {
        return currentRequestAttributes().getRequest();
    }

    @Override
    public String toString() {
        return "Current HttpServletRequest";
    }
}

/**
 * Factory that exposes the current session object on demand.
 */
@SuppressWarnings("serial")
private static class SessionObjectFactory implements ObjectFactory<HttpSession>, Serializable {

    @Override
    public HttpSession getObject() {
        return currentRequestAttributes().getRequest().getSession();
    }

    @Override
    public String toString() {
        return "Current HttpSession";
    }
}

/**
 * Factory that exposes the current WebRequest object on demand.
 */

```

```

@SuppressWarnings("serial")
private static class WebRequestObjectFactory implements ObjectFactory<WebRequest>, Serializable {

    @Override
    public WebRequest getObject() {
        return new ServletWebRequest(currentRequestAttributes().getRequest());
    }

    @Override
    public String toString() {
        return "Current ServletWebRequest";
    }
}

/**
 * Inner class to avoid hard-coded JSF dependency.
 */
private static class FacesDependencyRegistrar {

    public static void registerFacesDependencies(ConfigurableListableBeanFactory beanFactory) {
        beanFactory.registerResolvableDependency(FacesContext.class, new ObjectFactory<FacesContext>() {
            @Override
            public FacesContext getObject() {
                return FacesContext.getCurrentInstance();
            }
        });
        @Override
        public String toString() {
            return "Current JSF FacesContext";
        }
    });
    beanFactory.registerResolvableDependency(ExternalContext.class, new ObjectFactory<ExternalContext>() {
        @Override
        public ExternalContext getObject() {
            return FacesContext.getCurrentInstance().getExternalContext();
        }
        @Override
        public String toString() {
            return "Current JSF ExternalContext";
        }
    });
}

/**
 * Copyright 2002-2013 the original author or authors.
 */

```

```

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* limitations under the License.
*/

```

```
package org.springframework.web.context;
```

```
import javax.servlet.ServletConfig;
import javax.servlet.ServletContext;
```

```
import org.springframework.context.ConfigurableApplicationContext;
```

```
/**
```

```

* Interface to be implemented by configurable web application contexts.
* Supported by {@link ContextLoader} and
* {@link org.springframework.web.servlet.FrameworkServlet}.
*

```

```

* <p>Note: The setters of this interface need to be called before an
* invocation of the {@link #refresh} method inherited from
* {@link org.springframework.context.ConfigurableApplicationContext}.
* They do not cause an initialization of the context on their own.
*

```

```

* @author Juergen Hoeller
* @since 05.12.2003
* @see #refresh
* @see ContextLoader#createWebApplicationContext
* @see org.springframework.web.servlet.FrameworkServlet#createWebApplicationContext
*/

```

```
public interface ConfigurableWebApplicationContext extends WebApplicationContext,
ConfigurableApplicationContext {
```

```
/**
```

```

* Prefix for ApplicationContext ids that refer to context path and/or servlet name.
*/

```

```
String APPLICATION_CONTEXT_ID_PREFIX = WebApplicationContext.class.getName() + ":";
```

```
/**
```

```

* Name of the ServletConfig environment bean in the factory.
* @see javax.servlet.ServletConfig
*/

```

```
*/
```

```

String SERVLET_CONFIG_BEAN_NAME = "servletConfig";

/**
 * Set the ServletContext for this web application context.
 * <p>Does not cause an initialization of the context: refresh needs to be
 * called after the setting of all configuration properties.
 * @see #refresh()
 */
void setServletContext(ServletContext servletContext);

/**
 * Set the ServletConfig for this web application context.
 * Only called for a WebApplicationContext that belongs to a specific Servlet.
 * @see #refresh()
 */
void setServletConfig(ServletConfig servletConfig);

/**
 * Return the ServletConfig for this web application context, if any.
 */
ServletConfig getServletConfig();

/**
 * Set the namespace for this web application context,
 * to be used for building a default context config location.
 * The root web application context does not have a namespace.
 */
void setNamespace(String namespace);

/**
 * Return the namespace for this web application context, if any.
 */
String getNamespace();

/**
 * Set the config locations for this web application context in init-param style,
 * i.e. with distinct locations separated by commas, semicolons or whitespace.
 * <p>If not set, the implementation is supposed to use a default for the
 * given namespace or the root web application context, as appropriate.
 */
void setConfigLocation(String configLocation);

/**
 * Set the config locations for this web application context.
 * <p>If not set, the implementation is supposed to use a default for the
 * given namespace or the root web application context, as appropriate.
 */

```

```

void setConfigLocations(String[] configLocations);

/**
 * Return the config locations for this web application context,
 * or { @code null } if none specified.
 */
String[] getConfigLocations();

}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.springframework.web.bind.support;

/**
 * Simple implementation of the { @link SessionStatus } interface,
 * keeping the { @code complete } flag as an instance variable.
 *
 * @author Juergen Hoeller
 * @since 2.5
 */
public class SimpleSessionStatus implements SessionStatus {

    private boolean complete = false;

    @Override
    public void setComplete() {
        this.complete = true;
    }

    @Override
    public boolean isComplete() {
        return this.complete;
    }
}

```

```

}
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.springframework.web.util;

import java.io.Serializable;
import java.net.URI;
import java.util.Collections;
import java.util.LinkedHashMap;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.regex.Matcher;
import java.util.regex.Pattern;

import org.springframework.util.Assert;

/**
 * Represents a URI template. A URI template is a URI-like String that contains variables enclosed
 * by braces ({@code {}}), which can be expanded to produce an actual URI.
 *
 * <p>See {@link #expand(Map)}, {@link #expand(Object[])}, and {@link #match(String)} for example usages.
 *
 * @author Arjen Poutsma
 * @author Juergen Hoeller
 * @since 3.0
 * @see <a href="http://bitworking.org/projects/URI-Templates/">URI Templates</a>
 */
@SuppressWarnings("serial")
public class UriTemplate implements Serializable {

    /** Captures URI template variable names. */
    private static final Pattern NAMES_PATTERN = Pattern.compile("\\{([^\}]+?)\\}");

```

```

/** Replaces template variables in the URI template. */
private static final String DEFAULT_VARIABLE_PATTERN = "(.*)";

private final UriComponents uriComponents;

private final List<String> variableNames;

private final Pattern matchPattern;

private final String uriTemplate;

/**
 * Construct a new {@code UriTemplate} with the given URI String.
 * @param uriTemplate the URI template string
 */
public UriTemplate(String uriTemplate) {
    Parser parser = new Parser(uriTemplate);
    this.uriTemplate = uriTemplate;
    this.variableNames = parser.getVariableNames();
    this.matchPattern = parser.getMatchPattern();
    this.uriComponents = UriComponentsBuilder.fromUriString(uriTemplate).build();
}

/**
 * Return the names of the variables in the template, in order.
 * @return the template variable names
 */
public List<String> getVariableNames() {
    return this.variableNames;
}

/**
 * Given the Map of variables, expands this template into a URI. The Map keys represent variable names,
 * the Map values variable values. The order of variables is not significant.
 * <p>Example:
 * <pre class="code">
 * UriTemplate template = new UriTemplate("http://example.com/hotels/{hotel}/bookings/{booking}");
 * Map<String, String> uriVariables = new HashMap<String, String>();
 * uriVariables.put("booking", "42");
 * uriVariables.put("hotel", "1");
 * System.out.println(template.expand(uriVariables));
 * </pre>
 * will print: <blockquote>{@code http://example.com/hotels/1/bookings/42}</blockquote>
 * @param uriVariables the map of URI variables
 * @return the expanded URI

```

```

* @throws IllegalArgumentException if { @code uriVariables } is { @code null };
* or if it does not contain values for all the variable names
*/
public URI expand(Map<String, ?> uriVariables) {
    UriComponents expandedComponents = uriComponents.expand(uriVariables);
    UriComponents encodedComponents = expandedComponents.encode();
    return encodedComponents.toUri();
}

/**
 * Given an array of variables, expand this template into a full URI. The array represent variable values.
 * The order of variables is significant.
 * <p>Example:
 * <pre class="code">
 * UriTemplate template = new UriTemplate("http://example.com/hotels/{hotel}/bookings/{booking}");
 * System.out.println(template.expand("1", "42"));
 * </pre>
 * will print: <blockquote>{ @code http://example.com/hotels/1/bookings/42}</blockquote>
 * @param uriVariableValues the array of URI variables
 * @return the expanded URI
 * @throws IllegalArgumentException if { @code uriVariables } is { @code null }
 * or if it does not contain sufficient variables
 */
public URI expand(Object... uriVariableValues) {
    UriComponents expandedComponents = uriComponents.expand(uriVariableValues);
    UriComponents encodedComponents = expandedComponents.encode();
    return encodedComponents.toUri();
}

/**
 * Indicate whether the given URI matches this template.
 * @param uri the URI to match to
 * @return { @code true } if it matches; { @code false } otherwise
 */
public boolean matches(String uri) {
    if (uri == null) {
        return false;
    }
    Matcher matcher = this.matchPattern.matcher(uri);
    return matcher.matches();
}

/**
 * Match the given URI to a map of variable values. Keys in the returned map are variable names,
 * values are variable values, as occurred in the given URI.
 * <p>Example:
 * <pre class="code">
 * UriTemplate template = new UriTemplate("http://example.com/hotels/{hotel}/bookings/{booking}");

```



```

* System.out.println(template.match("http://example.com/hotels/1/bookings/42"));
* </pre>
* will print: <blockquote>{@code {hotel=1, booking=42}}</blockquote>
* @param uri the URI to match to
* @return a map of variable values
*/
public Map<String, String> match(String uri) {
    Assert.notNull(uri, "'uri' must not be null");
    Map<String, String> result = new LinkedHashMap<String, String>(this.variableNames.size());
    Matcher matcher = this.matchPattern.matcher(uri);
    if (matcher.find()) {
        for (int i = 1; i <= matcher.groupCount(); i++) {
            String name = this.variableNames.get(i - 1);
            String value = matcher.group(i);
            result.put(name, value);
        }
    }
    return result;
}

@Override
public String toString() {
    return this.uriTemplate;
}

/**
 * Static inner class to parse URI template strings into a matching regular expression.
 */
private static class Parser {

    private final List<String> variableNames = new LinkedList<String>();

    private final StringBuilder patternBuilder = new StringBuilder();

    private Parser(String uriTemplate) {
        Assert.hasText(uriTemplate, "'uriTemplate' must not be null");
        Matcher m = NAMES_PATTERN.matcher(uriTemplate);
        int end = 0;
        while (m.find()) {
            this.patternBuilder.append(quote(uriTemplate, end, m.start()));
            String match = m.group(1);
            int colonIdx = match.indexOf(':');
            if (colonIdx == -1) {
                this.patternBuilder.append(DEFAULT_VARIABLE_PATTERN);
                this.variableNames.add(match);
            }
            else {

```

```

    if (colonIdx + 1 == match.length()) {
        throw new IllegalArgumentException(
            "No custom regular expression specified after ':' in \"" + match + "\"");
    }
    String variablePattern = match.substring(colonIdx + 1, match.length());
    this.patternBuilder.append('(');
    this.patternBuilder.append(variablePattern);
    this.patternBuilder.append(')');
    String variableName = match.substring(0, colonIdx);
    this.variableNames.add(variableName);
}
end = m.end();
}
this.patternBuilder.append(quote(uriTemplate, end, uriTemplate.length()));
int lastIdx = this.patternBuilder.length() - 1;
if (lastIdx >= 0 && this.patternBuilder.charAt(lastIdx) == '/') {
    this.patternBuilder.deleteCharAt(lastIdx);
}
}

private String quote(String fullPath, int start, int end) {
    if (start == end) {
        return "";
    }
    return Pattern.quote(fullPath.substring(start, end));
}

private List<String> getVariableNames() {
    return Collections.unmodifiableList(this.variableNames);
}

private Pattern getMatchPattern() {
    return Pattern.compile(this.patternBuilder.toString());
}
}

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```

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- \*/

```
package org.springframework.web.jsf.el;
```

```
import java.beans.FeatureDescriptor;
import java.util.Iterator;
import javax.el.ELContext;
import javax.el.ELException;
import javax.el.ELResolver;
import javax.faces.context.FacesContext;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
```

```
import org.springframework.beans.BeansException;
import org.springframework.web.context.WebApplicationContext;
import org.springframework.web.jsf.FacesContextUtils;
```

```
/**
```

```
* Special JSF { @code ELResolver } that exposes the Spring { @code WebApplicationContext }
* instance under a variable named "webApplicationContext".
```

```
*
```

```
* <p>In contrast to { @link SpringBeanFacesELResolver }, this ELResolver variant
* does <i>not</i> resolve JSF variable names as Spring bean names. It rather
* exposes Spring's root WebApplicationContext <i>itself</i> under a special name,
* and is able to resolve "webApplicationContext.mySpringManagedBusinessObject"
* dereferences to Spring-defined beans in that application context.
```

```
*
```

```
* <p>Configure this resolver in your { @code faces-config.xml } file as follows:
```

```
*
```

```
* <pre class="code">
```

```
* <application>
```

```
* ...
```

```
* <el-resolver>org.springframework.web.jsf.el.WebApplicationContextFacesELResolver</el-resolver>
```

```
* </application></pre>
```

```
*
```

```
* @author Juergen Hoeller
```

```
* @since 2.5
```

```
* @see SpringBeanFacesELResolver
```

```
* @see org.springframework.web.jsf.FacesContextUtils#getWebApplicationContext
```

```
*/
```

```
public class WebApplicationContextFacesELResolver extends ELResolver {
```

```
/**
```

```
* Name of the exposed WebApplicationContext variable: "webApplicationContext".
```

```

*/
public static final String WEB_APPLICATION_CONTEXT_VARIABLE_NAME = "webApplicationContext";

/** Logger available to subclasses */
protected final Log logger = LogFactory.getLog(getClass());

@Override
public Object getValue(ELContext elContext, Object base, Object property) throws ELException {
    if (base != null) {
        if (base instanceof WebApplicationContext) {
            WebApplicationContext wac = (WebApplicationContext) base;
            String beanName = property.toString();
            if (logger.isTraceEnabled()) {
                logger.trace("Attempting to resolve property '" + beanName + "' in root WebApplicationContext");
            }
            if (wac.containsBean(beanName)) {
                if (logger.isDebugEnabled()) {
                    logger.debug("Successfully resolved property '" + beanName + "' in root WebApplicationContext");
                }
                elContext.setPropertyResolved(true);
                try {
                    return wac.getBean(beanName);
                }
                catch (BeansException ex) {
                    throw new ELException(ex);
                }
            }
            else {
                // Mimic standard JSF/JSP behavior when base is a Map by returning null.
                return null;
            }
        }
        else {
            if (WEB_APPLICATION_CONTEXT_VARIABLE_NAME.equals(property)) {
                elContext.setPropertyResolved(true);
                return getWebApplicationContext(elContext);
            }
        }
    }

    return null;
}

@Override
public Class<?> getType(ELContext elContext, Object base, Object property) throws ELException {
    if (base != null) {

```

```

if (base instanceof WebApplicationContext) {
    WebApplicationContext wac = (WebApplicationContext) base;
    String beanName = property.toString();
    if (logger.isDebugEnabled()) {
        logger.debug("Attempting to resolve property '" + beanName + "' in root WebApplicationContext");
    }
    if (wac.containsBean(beanName)) {
        if (logger.isDebugEnabled()) {
            logger.debug("Successfully resolved property '" + beanName + "' in root WebApplicationContext");
        }
        elContext.setPropertyResolved(true);
        try {
            return wac.getType(beanName);
        }
        catch (BeansException ex) {
            throw new ELException(ex);
        }
    }
    else {
        // Mimic standard JSF/JSP behavior when base is a Map by returning null.
        return null;
    }
}
else {
    if (WEB_APPLICATION_CONTEXT_VARIABLE_NAME.equals(property)) {
        elContext.setPropertyResolved(true);
        return WebApplicationContext.class;
    }
}

return null;
}

@Override
public void setValue(ELContext elContext, Object base, Object property, Object value) throws ELException {
}

@Override
public boolean isReadOnly(ELContext elContext, Object base, Object property) throws ELException {
    if (base instanceof WebApplicationContext) {
        elContext.setPropertyResolved(true);
        return false;
    }
    return false;
}

@Override

```

```

public Iterator<FeatureDescriptor> getFeatureDescriptors(ELContext elContext, Object base) {
    return null;
}

@Override
public Class<?> getCommonPropertyType(ELContext elContext, Object base) {
    return Object.class;
}

/**
 * Retrieve the WebApplicationContext reference to expose.
 * <p>The default implementation delegates to FacesContextUtils,
 * returning {@code null} if no WebApplicationContext found.
 * @param elContext the current JSF ELContext
 * @return the Spring web application context
 * @see org.springframework.web.jsf.FacesContextUtils#getWebApplicationContext
 */
protected WebApplicationContext getWebApplicationContext(ELContext elContext) {
    FacesContext facesContext = FacesContext.getCurrentInstance();
    return FacesContextUtils.getRequiredWebApplicationContext(facesContext);
}

}

/*
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 *
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 * you may not use this file except in compliance with the License.
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.springframework.web;

import javax.servlet.ServletContext;
import javax.servlet.ServletException;

/**
 * Interface to be implemented in Servlet 3.0+ environments in order to configure the
 * {@link ServletContext} programmatically -- as opposed to (or possibly in conjunction

```

\* with) the traditional { @code web.xml}-based approach.

\*

\* <p>Implementations of this SPI will be detected automatically by { @link

\* SpringServletContainerInitializer}, which itself is bootstrapped automatically

\* by any Servlet 3.0 container. See { @linkplain SpringServletContainerInitializer its

\* Javadoc} for details on this bootstrapping mechanism.

\*

\* <h2>Example</h2>

\* <h3>The traditional, XML-based approach</h3>

\* Most Spring users building a web application will need to register Spring's { @code

\* DispatcherServlet}. For reference, in WEB-INF/web.xml, this would typically be done as

\* follows:

\* <pre class="code">

\* { @code

\* <servlet>

\* <servlet-name>dispatcher</servlet-name>

\* <servlet-class>

\* org.springframework.web.servlet.DispatcherServlet

\* </servlet-class>

\* <init-param>

\* <param-name>contextConfigLocation</param-name>

\* <param-value>/WEB-INF/spring/dispatcher-config.xml</param-value>

\* </init-param>

\* <load-on-startup>1</load-on-startup>

\* </servlet>

\*

\* <servlet-mapping>

\* <servlet-name>dispatcher</servlet-name>

\* <url-pattern></url-pattern>

\* </servlet-mapping></pre>

\*

\* <h3>The code-based approach with { @code WebApplicationInitializer}</h3>

\* Here is the equivalent { @code DispatcherServlet} registration logic,

\* { @code WebApplicationInitializer}-style:

\* <pre class="code">

\* public class MyWebAppInitializer implements WebApplicationInitializer {

\*

\* &#064;Override

\* public void onStartUp(ServletContext container) {

\* XmlWebApplicationContext appContext = new XmlWebApplicationContext();

\* appContext.setConfigLocation("/WEB-INF/spring/dispatcher-config.xml");

\*

\* ServletRegistration.Dynamic dispatcher =

\* container.addServlet("dispatcher", new DispatcherServlet(appContext));

\* dispatcher.setLoadOnStartup(1);

\* dispatcher.addMapping("");

\* }

\*

```

* }</pre>
*
* As an alternative to the above, you can also extend from { @link
* org.springframework.web.servlet.support.AbstractDispatcherServletInitializer}.
*
* As you can see, thanks to Servlet 3.0's new { @link ServletContext#addServlet} method
* we're actually registering an <em>instance</em> of the { @code DispatcherServlet}, and
* this means that the { @code DispatcherServlet} can now be treated like any other object
* -- receiving constructor injection of its application context in this case.
*
* <p>This style is both simpler and more concise. There is no concern for dealing with
* init-params, etc, just normal JavaBean-style properties and constructor arguments. You
* are free to create and work with your Spring application contexts as necessary before
* injecting them into the { @code DispatcherServlet}.
*
* <p>Most major Spring Web components have been updated to support this style of
* registration. You'll find that { @code DispatcherServlet}, { @code FrameworkServlet},
* { @code ContextLoaderListener} and { @code DelegatingFilterProxy} all now support
* constructor arguments. Even if a component (e.g. non-Spring, other third party) has not
* been specifically updated for use within { @code WebApplicationInitializers}, they still
* may be used in any case. The Servlet 3.0 { @code ServletContext} API allows for setting
* init-params, context-params, etc programmatically.
*
* <h2>A 100% code-based approach to configuration</h2>
* In the example above, { @code WEB-INF/web.xml} was successfully replaced with code in
* the form of a { @code WebApplicationInitializer}, but the actual
* { @code dispatcher-config.xml} Spring configuration remained XML-based.
* { @code WebApplicationInitializer} is a perfect fit for use with Spring's code-based
* { @code @Configuration} classes. See @ { @link
* org.springframework.context.annotation.Configuration Configuration} Javadoc for
* complete details, but the following example demonstrates refactoring to use Spring's
* { @link org.springframework.web.context.support.AnnotationConfigWebApplicationContext
* AnnotationConfigWebApplicationContext} in lieu of { @code XmlWebApplicationContext}, and
* user-defined { @code @Configuration} classes { @code AppConfig} and
* { @code DispatcherConfig} instead of Spring XML files. This example also goes a bit
* beyond those above to demonstrate typical configuration of the 'root' application
* context and registration of the { @code ContextLoaderListener}:
* <pre class="code">
* public class MyWebAppInitializer implements WebApplicationInitializer {
*
*     &#064;Override
*     public void onStartUp(ServletContext container) {
*         // Create the 'root' Spring application context
*         AnnotationConfigWebApplicationContext rootContext =
*             new AnnotationConfigWebApplicationContext();
*         rootContext.register(AppConfig.class);
*
*         // Manage the lifecycle of the root application context

```



```

* container.addListener(new ContextLoaderListener(rootContext));
*
* // Create the dispatcher servlet's Spring application context
* AnnotationConfigWebApplicationContext dispatcherContext =
*     new AnnotationConfigWebApplicationContext();
* dispatcherContext.register(DispatcherConfig.class);
*
* // Register and map the dispatcher servlet
* ServletRegistration.Dynamic dispatcher =
*     container.addServlet("dispatcher", new DispatcherServlet(dispatcherContext));
* dispatcher.setLoadOnStartup(1);
* dispatcher.addMapping("/");
* }
* }</pre>
*
* As an alternative to the above, you can also extend from {@link org.springframework.web.servlet.support.AbstractAnnotationConfigDispatcherServletInitializer}.
*
* Remember that WebApplicationInitializer implementations are detected automatically -- so you are free to package them within your application as you see fit.
*
* <h2>Ordering WebApplicationInitializer execution</h2>
* WebApplicationInitializer implementations may optionally be annotated at the class level with Spring's {@link org.springframework.core.annotation.Order Order} annotation or may implement Spring's {@link org.springframework.core.Ordered Ordered} interface. If so, the initializers will be ordered prior to invocation. This provides a mechanism for users to ensure the order in which servlet container initialization occurs. Use of this feature is expected to be rare, as typical applications will likely centralize all container initialization within a single WebApplicationInitializer.
*
* <h2>Caveats</h2>
*
* <h3>web.xml versioning</h3>
* <p>WEB-INF/web.xml and WebApplicationInitializer use are not mutually exclusive; for example, web.xml can register one servlet, and a WebApplicationInitializer can register another. An initializer can even modify registrations performed in web.xml through methods such as {@link ServletContext#getServletRegistration\(String\)}. However, if WEB-INF/web.xml is present in the application, its version attribute must be set to "3.0" or greater, otherwise ServletContainerInitializer bootstrapping will be ignored by the servlet container.</p>
*
* <h3>Mapping to "/" under Tomcat</h3>
* <p>Apache Tomcat maps its internal DefaultServlet to "/", and on Tomcat versions  $\geq 7.0.14$ , this servlet mapping cannot be overridden programmatically. 7.0.15 fixes this issue. Overriding the "/" servlet mapping has also been tested

```

```

* successfully under GlassFish 3.1.<p>
*
* @author Chris Beams
* @since 3.1
* @see SpringServletContainerInitializer
* @see org.springframework.web.context.AbstractContextLoaderInitializer
* @see org.springframework.web.servlet.support.AbstractDispatcherServletInitializer
* @see org.springframework.web.servlet.support.AbstractAnnotationConfigDispatcherServletInitializer
*/
public interface WebApplicationInitializer {

/**
* Configure the given {@link ServletContext} with any servlets, filters, listeners
* context-params and attributes necessary for initializing this web application. See
* examples {@linkplain WebApplicationInitializer above}.
* @param servletContext the {@code ServletContext} to initialize
* @throws ServletException if any call against the given {@code ServletContext}
* throws a {@code ServletException}
*/
void onStartup(ServletContext servletContext) throws ServletException;

}
/*
* Copyright 2002-2013 the original author or authors.
*
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

package org.springframework.web.client;

import java.io.IOException;
import java.lang.reflect.Type;
import java.net.URI;
import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import java.util.Set;

```

```

import javax.xml.transform.Source;

import org.springframework.core.ParameterizedTypeReference;
import org.springframework.http.HttpEntity;
import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpMethod;
import org.springframework.http.MediaType;
import org.springframework.http.ResponseEntity;
import org.springframework.http.client.ClientHttpRequest;
import org.springframework.http.client.ClientHttpRequestFactory;
import org.springframework.http.client.ClientHttpResponse;
import org.springframework.http.client.support.InterceptingHttpAccessor;
import org.springframework.http.converter.ByteArrayHttpMessageConverter;
import org.springframework.http.converter.GenericHttpMessageConverter;
import org.springframework.http.converter.HttpMessageConverter;
import org.springframework.http.converter.ResourceHttpMessageConverter;
import org.springframework.http.converter.StringHttpMessageConverter;
import org.springframework.http.converter.feed.AtomFeedHttpMessageConverter;
import org.springframework.http.converter.feed.RssChannelHttpMessageConverter;
import org.springframework.http.converter.json.MappingJackson2HttpMessageConverter;
import org.springframework.http.converter.support.AllEncompassingFormHttpMessageConverter;
import org.springframework.http.converter.xml.Jaxb2RootElementHttpMessageConverter;
import org.springframework.http.converter.xml.SourceHttpMessageConverter;
import org.springframework.util.Assert;
import org.springframework.util.ClassUtils;
import org.springframework.web.util.UriTemplate;

/**
 * <strong>Spring's central class for synchronous client-side HTTP access.</strong>
 * It simplifies communication with HTTP servers, and enforces RESTful principles.
 * It handles HTTP connections, leaving application code to provide URLs
 * (with possible template variables) and extract results.
 *
 * <p>The main entry points of this template are the methods named after the six main HTTP methods:
 * <table>
 * <tr><th>HTTP method</th><th>RestTemplate methods</th></tr>
 * <tr><td>DELETE</td><td>{ @link #delete }</td></tr>
 * <tr><td>GET</td><td>{ @link #getForObject }</td></tr>
 * <tr><td></td><td>{ @link #getForEntity }</td></tr>
 * <tr><td>HEAD</td><td>{ @link #headForHeaders }</td></tr>
 * <tr><td>OPTIONS</td><td>{ @link #optionsForAllow }</td></tr>
 * <tr><td>POST</td><td>{ @link #postForLocation }</td></tr>
 * <tr><td></td><td>{ @link #postForObject }</td></tr>
 * <tr><td>PUT</td><td>{ @link #put }</td></tr>
 * <tr><td>any</td><td>{ @link #exchange }</td></tr>
 * <tr><td></td><td>{ @link #execute }</td></tr> </table>
 *
 * <p>The { @code exchange } and { @code execute } methods are generalized versions of the more specific methods

```

listed

- \* above them. They support additional, less frequently used combinations including support for requests using the HTTP PATCH method. However, note that the underlying HTTP library must also support the desired combination.

\*

- \* 

For each of these HTTP methods, there are three corresponding Java methods in the `RestTemplate`.

- \* Two variants take a `String` URI as first argument (eg. `getForObject(String, Class, Object[])`),

- \* `getForObject(String, Class, Map)`), and are capable of substituting any `UriTemplate` URI templates

- \* in that URL using either a `String` variable arguments array, or a `Map<String, String>`.

- \* The string varargs variant expands the given template variables in order, so that

- \* 

```
class="code">
```

- \* 

```
String result = restTemplate.getForObject("http://example.com/hotels/{hotel}/bookings/{booking}", String.class, "42",
```

- \* 

```
"21");
```

- \* 

```
</pre>
```

- \* will perform a GET on `http://example.com/hotels/42/bookings/21`. The map variant expands the template based

- \* on variable name, and is therefore more useful when using many variables, or when a single variable is used multiple

- \* times. For example:

- \* 

```
class="code">
```

- \* 

```
Map<String, String> vars = Collections.singletonMap("hotel", "42");
```

- \* 

```
String result = restTemplate.getForObject("http://example.com/hotels/{hotel}/rooms/{hotel}", String.class, vars);
```

- \* 

```
</pre>
```

- \* will perform a GET on `http://example.com/hotels/42/rooms/42`. Alternatively, there are `URI` variant

- \* methods (`getForObject(URI, Class)`), which do not allow for URI templates, but allow you to reuse a single,

- \* expanded URI multiple times.

\*

- \* 

Furthermore, the `String`-argument methods assume that the URL String is unencoded. This means that

- \* 

```
class="code">
```

- \* 

```
restTemplate.getForObject("http://example.com/hotel list");
```

- \* 

```
</pre>
```

- \* will perform a GET on `http://example.com/hotel%20list`. As a result, any URL passed that is already encoded

- \* will be encoded twice (i.e. `http://example.com/hotel%20list` will become `http://example.com/hotel%2520list`).

- \* If this behavior is undesirable, use the `URI`-argument methods, which

- \* will not perform any URL encoding.

\*

- \* 

Objects passed to and returned from these methods are converted to and from HTTP messages by

- \* `HttpMessageConverter` instances. Converters for the main mime types are registered by default,

- \* but you can also write your own converter and register it via the `setMessageConverters` messageConverters

- \* bean property.

```

*
* <p>This template uses a { @link org.springframework.http.client.SimpleClientHttpRequestFactory } and a
* { @link DefaultResponseErrorHandler } as default strategies for creating HTTP connections or handling HTTP
errors,
* respectively. These defaults can be overridden through the { @link #setRequestFactory(ClientHttpRequestFactory)
* requestFactory } and { @link #setErrorHandler(ResponseErrorHandler) errorHandler } bean properties.
*
* @author Arjen Poutsma
* @since 3.0
* @see HttpMessageConverter
* @see RequestCallback
* @see ResponseExtractor
* @see ResponseErrorHandler
* @see AsyncRestTemplate
*/
public class RestTemplate extends InterceptingHttpAccessor implements RestOperations {

    private static boolean romePresent =
        ClassUtils.isPresent("com.sun.syndication.feed.WireFeed", RestTemplate.class.getClassLoader());

    private static final boolean jaxb2Present =
        ClassUtils.isPresent("javax.xml.bind.Binder", RestTemplate.class.getClassLoader());

    private static final boolean jackson2Present =
        ClassUtils.isPresent("com.fasterxml.jackson.databind.ObjectMapper", RestTemplate.class.getClassLoader()) &&
        ClassUtils.isPresent("com.fasterxml.jackson.core.JsonGenerator", RestTemplate.class.getClassLoader());

    private static final boolean jacksonPresent =
        ClassUtils.isPresent("org.codehaus.jackson.map.ObjectMapper", RestTemplate.class.getClassLoader()) &&
        ClassUtils.isPresent("org.codehaus.jackson.JsonGenerator", RestTemplate.class.getClassLoader());

    private final ResponseExtractor<HttpHeaders> headersExtractor = new HeadersExtractor();

    private List<HttpMessageConverter<?>> messageConverters = new ArrayList<HttpMessageConverter<?>>();

    private ResponseErrorHandler errorHandler = new DefaultResponseErrorHandler();

    /**
     * Create a new instance of the { @link RestTemplate } using default settings.
     */
    @SuppressWarnings("deprecation")
    public RestTemplate() {
        this.messageConverters.add(new ByteArrayHttpMessageConverter());
        this.messageConverters.add(new StringHttpMessageConverter());
        this.messageConverters.add(new ResourceHttpMessageConverter());
        this.messageConverters.add(new SourceHttpMessageConverter<Source>());
    }

```

```

this.messageConverters.add(new AllEncompassingFormHttpMessageConverter());
if (romePresent) {
    this.messageConverters.add(new AtomFeedHttpMessageConverter());
    this.messageConverters.add(new RssChannelHttpMessageConverter());
}
if (jaxb2Present) {
    this.messageConverters.add(new Jaxb2RootElementHttpMessageConverter());
}
if (jackson2Present) {
    this.messageConverters.add(new MappingJackson2HttpMessageConverter());
}
else if (jacksonPresent) {
    this.messageConverters.add(new
org.springframework.http.converter.json.MappingJacksonHttpMessageConverter());
}
}

/**
 * Create a new instance of the {@link RestTemplate} based on the given {@link ClientHttpRequestFactory}.
 * @param requestFactory HTTP request factory to use
 * @see org.springframework.http.client.SimpleClientHttpRequestFactory
 * @see org.springframework.http.client.HttpComponentsClientHttpRequestFactory
 */
public RestTemplate(ClientHttpRequestFactory requestFactory) {
    this();
    setRequestFactory(requestFactory);
}

/**
 * Set the message body converters to use.
 * <p>These converters are used to convert from and to HTTP requests and responses.
 */
public void setMessageConverters(List<HttpMessageConverter<?>> messageConverters) {
    Assert.notEmpty(messageConverters, "'messageConverters' must not be empty");
    this.messageConverters = messageConverters;
}

/**
 * Return the message body converters.
 */
public List<HttpMessageConverter<?>> getMessageConverters() {
    return this.messageConverters;
}

/**
 * Set the error handler.
 * <p>By default, RestTemplate uses a {@link DefaultResponseErrorHandler}.

```

```

*/
public void setErrorHandler(ResponseErrorHandler errorHandler) {
    Assert.notNull(errorHandler, "'errorHandler' must not be null");
    this.errorHandler = errorHandler;
}

/**
 * Return the error handler.
 */
public ResponseErrorHandler getErrorHandler() {
    return this.errorHandler;
}

// GET

@Override
public <T> T getObject(String url, Class<T> responseType, Object... urlVariables) throws RestClientException
{
    RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    HttpMessageConverterExtractor<T> responseExtractor =
        new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor, urlVariables);
}

@Override
public <T> T getObject(String url, Class<T> responseType, Map<String, ?> urlVariables) throws
RestClientException {
    RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    HttpMessageConverterExtractor<T> responseExtractor =
        new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor, urlVariables);
}

@Override
public <T> T getObject(URI url, Class<T> responseType) throws RestClientException {
    RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    HttpMessageConverterExtractor<T> responseExtractor =
        new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor);
}

@Override
public <T> ResponseEntity<T> getForEntity(String url, Class<T> responseType, Object... urlVariables)
throws RestClientException {
    RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor, urlVariables);
}

```

```

}

@Override
public <T> ResponseEntity<T> getForEntity(String url, Class<T> responseType, Map<String, ?> urlVariables)
    throws RestClientException {
    RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor, urlVariables);
}

```

```

@Override
public <T> ResponseEntity<T> getForEntity(URI url, Class<T> responseType) throws RestClientException {
    RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor);
}

```

```
// HEAD
```

```

@Override
public HttpHeaders headForHeaders(String url, Object... urlVariables) throws RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    return execute(url, HttpMethod.HEAD, null, headersExtractor, urlVariables);
}

```

```

@Override
public HttpHeaders headForHeaders(String url, Map<String, ?> urlVariables) throws RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    return execute(url, HttpMethod.HEAD, null, headersExtractor, urlVariables);
}

```

```

@Override
public HttpHeaders headForHeaders(URI url) throws RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    return execute(url, HttpMethod.HEAD, null, headersExtractor);
}

```

```
// POST
```

```

@Override
public URI postForLocation(String url, Object request, Object... urlVariables) throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request);
    HttpHeaders headers = execute(url, HttpMethod.POST, requestCallback, this.headersExtractor, urlVariables);
    return headers.getLocation();
}

```

```

@Override
public URI postForLocation(String url, Object request, Map<String, ?> urlVariables)

```



```

    throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request);
    HttpHeaders headers = execute(url, HttpMethod.POST, requestCallback, this.headersExtractor, uriVariables);
    return headers.getLocation();
    }

```

```

@Override
public URI postForLocation(URI url, Object request) throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request);
    HttpHeaders headers = execute(url, HttpMethod.POST, requestCallback, this.headersExtractor);
    return headers.getLocation();
}

```

```

@Override
public <T> T postForObject(String url, Object request, Class<T> responseType, Object... uriVariables)
    throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request, responseType);
    HttpResponseMessageExtractor<T> responseExtractor =
        new HttpResponseMessageExtractor<T>(responseType, getMessageConverters(), logger);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}

```

```

@Override
public <T> T postForObject(String url, Object request, Class<T> responseType, Map<String, ?> uriVariables)
    throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request, responseType);
    HttpResponseMessageExtractor<T> responseExtractor =
        new HttpResponseMessageExtractor<T>(responseType, getMessageConverters(), logger);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}

```

```

@Override
public <T> T postForObject(URI url, Object request, Class<T> responseType) throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request, responseType);
    HttpResponseMessageExtractor<T> responseExtractor =
        new HttpResponseMessageExtractor<T>(responseType, getMessageConverters());
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor);
}

```

```

@Override
public <T> ResponseEntity<T> postForEntity(String url, Object request, Class<T> responseType, Object...
uriVariables)
    throws RestClientException {

    RequestCallback requestCallback = httpEntityCallback(request, responseType);
    ResponseEntity<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}

```

```

@Override
public <T> ResponseEntity<T> postForEntity(String url, Object request, Class<T> responseType, Map<String, ?>
uriVariables)
    throws RestClientException {

    RequestCallback requestCallback = httpEntityCallback(request, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ResponseEntity<T> postForEntity(URI url, Object request, Class<T> responseType) throws
RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor);
}

// PUT

@Override
public void put(String url, Object request, Object... uriVariables) throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request);
    execute(url, HttpMethod.PUT, requestCallback, null, uriVariables);
}

@Override
public void put(String url, Object request, Map<String, ?> uriVariables) throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request);
    execute(url, HttpMethod.PUT, requestCallback, null, uriVariables);
}

@Override
public void put(URI url, Object request) throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request);
    execute(url, HttpMethod.PUT, requestCallback, null);
}

// DELETE

@Override
public void delete(String url, Object... uriVariables) throws RestClientException {
    execute(url, HttpMethod.DELETE, null, null, uriVariables);
}

@Override
public void delete(String url, Map<String, ?> uriVariables) throws RestClientException {

```

```

execute(url, HttpMethod.DELETE, null, null, urlVariables);
}

@Override
public void delete(URI url) throws RestClientException {
    execute(url, HttpMethod.DELETE, null, null);
}

// OPTIONS

@Override
public Set<HttpMethod> optionsForAllow(String url, Object... urlVariables) throws RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    HttpHeaders headers = execute(url, HttpMethod.OPTIONS, null, headersExtractor, urlVariables);
    return headers.getAllow();
}

@Override
public Set<HttpMethod> optionsForAllow(String url, Map<String, ?> urlVariables) throws RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    HttpHeaders headers = execute(url, HttpMethod.OPTIONS, null, headersExtractor, urlVariables);
    return headers.getAllow();
}

@Override
public Set<HttpMethod> optionsForAllow(URI url) throws RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    HttpHeaders headers = execute(url, HttpMethod.OPTIONS, null, headersExtractor);
    return headers.getAllow();
}

// exchange

@Override
public <T> ResponseEntity<T> exchange(String url, HttpMethod method,
    HttpEntity<?> requestEntity, Class<T> responseType, Object... uriVariables) throws RestClientException {

    RequestCallback requestCallback = httpEntityCallback(requestEntity, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ResponseEntity<T> exchange(String url, HttpMethod method,
    HttpEntity<?> requestEntity, Class<T> responseType, Map<String, ?> uriVariables) throws RestClientException {

    RequestCallback requestCallback = httpEntityCallback(requestEntity, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);

```

```

return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ResponseEntity<T> exchange(URL url, HttpMethod method, HttpEntity<?> requestEntity,
    Class<T> responseType) throws RestClientException {

    RequestCallback requestCallback = httpEntityCallback(requestEntity, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, method, requestCallback, responseExtractor);
}

@Override
public <T> ResponseEntity<T> exchange(String url, HttpMethod method, HttpEntity<?> requestEntity,
    ParameterizedTypeReference<T> responseType, Object... uriVariables) throws RestClientException {

    Type type = responseType.getType();
    RequestCallback requestCallback = httpEntityCallback(requestEntity, type);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(type);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ResponseEntity<T> exchange(String url, HttpMethod method, HttpEntity<?> requestEntity,
    ParameterizedTypeReference<T> responseType, Map<String, ?> uriVariables) throws RestClientException {

    Type type = responseType.getType();
    RequestCallback requestCallback = httpEntityCallback(requestEntity, type);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(type);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ResponseEntity<T> exchange(URL url, HttpMethod method, HttpEntity<?> requestEntity,
    ParameterizedTypeReference<T> responseType) throws RestClientException {

    Type type = responseType.getType();
    RequestCallback requestCallback = httpEntityCallback(requestEntity, type);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(type);
    return execute(url, method, requestCallback, responseExtractor);
}

// general execution

@Override
public <T> T execute(String url, HttpMethod method, RequestCallback requestCallback,
    ResponseExtractor<T> responseExtractor, Object... uriVariables) throws RestClientException {

```

```

URI expanded = new UriTemplate(url).expand(urlVariables);
return doExecute(expanded, method, requestCallback, responseExtractor);
}

@Override
public <T> T execute(String url, HttpMethod method, RequestCallback requestCallback,
    ResponseExtractor<T> responseExtractor, Map<String, ?> urlVariables) throws RestClientException {

    URI expanded = new UriTemplate(url).expand(urlVariables);
    return doExecute(expanded, method, requestCallback, responseExtractor);
}

@Override
public <T> T execute(URI url, HttpMethod method, RequestCallback requestCallback,
    ResponseExtractor<T> responseExtractor) throws RestClientException {

    return doExecute(url, method, requestCallback, responseExtractor);
}

/**
 * Execute the given method on the provided URI. The {@link ClientHttpRequest} is processed using the {@link
 * RequestCallback}; the response with the {@link ResponseExtractor}.
 * @param url the fully-expanded URL to connect to
 * @param method the HTTP method to execute (GET, POST, etc.)
 * @param requestCallback object that prepares the request (can be {@code null})
 * @param responseExtractor object that extracts the return value from the response (can be {@code null})
 * @return an arbitrary object, as returned by the {@link ResponseExtractor}
 */
protected <T> T doExecute(URI url, HttpMethod method, RequestCallback requestCallback,
    ResponseExtractor<T> responseExtractor) throws RestClientException {

    Assert.notNull(url, "'url' must not be null");
    Assert.notNull(method, "'method' must not be null");
    ClientHttpResponse response = null;
    try {
        ClientHttpRequest request = createRequest(url, method);
        if (requestCallback != null) {
            requestCallback.doWithRequest(request);
        }
        response = request.execute();
        if (!getErrorHandler().hasError(response)) {
            logResponseStatus(method, url, response);
        }
    } else {
        handleResponseError(method, url, response);
    }
    if (responseExtractor != null) {
        return responseExtractor.extractData(response);
    }
}

```

```

    }
    else {
        return null;
    }
}
catch (IOException ex) {
    throw new ResourceAccessException("I/O error on " + method.name() +
        " request for \"" + url + "\":" + ex.getMessage(), ex);
}
finally {
    if (response != null) {
        response.close();
    }
}
}

private void logResponseStatus(HttpMethod method, URI url, ClientHttpResponse response) {
    if (logger.isDebugEnabled()) {
        try {
            logger.debug(method.name() + " request for \"" + url + "\" resulted in " +
                response.getStatusCode() + " (" +
                response.getStatusText() + ")");
        }
        catch (IOException e) {
            // ignore
        }
    }
}

private void handleResponseError(HttpMethod method, URI url, ClientHttpResponse response) throws IOException
{
    if (logger.isWarnEnabled()) {
        try {
            logger.warn(
                method.name() + " request for \"" + url + "\" resulted in " + response.getStatusCode() + " (" +
                response.getStatusText() + "); invoking error handler");
        }
        catch (IOException e) {
            // ignore
        }
    }
    getErrorHandler().handleError(response);
}

/**
 * Returns a request callback implementation that prepares the request { @code Accept }
 * headers based on the given response type and configured
 * { @linkplain #getMessageConverters() message converters }.

```

```

*/
protected <T> RequestCallback acceptHeaderRequestCallback(Class<T> responseType) {
    return new AcceptHeaderRequestCallback(responseType);
}

/**
 * Returns a request callback implementation that writes the given object to the
 * request stream.
 */
protected <T> RequestCallback httpEntityCallback(Object requestBody) {
    return new HttpEntityRequestCallback(requestBody);
}

/**
 * Returns a request callback implementation that writes the given object to the
 * request stream.
 */
protected <T> RequestCallback httpEntityCallback(Object requestBody,
    Type responseType) {
    return new HttpEntityRequestCallback(requestBody, responseType);
}

/**
 * Returns a response extractor for { @link ResponseEntity }.
 */
protected <T> ResponseExtractor<ResponseEntity<T>> responseEntityExtractor(Type responseType) {
    return new ResponseEntityResponseExtractor<T>(responseType);
}

/**
 * Returns a response extractor for { @link HttpHeaders }.
 */
protected ResponseExtractor<HttpHeaders> headersExtractor() {
    return this.headersExtractor;
}

/**
 * Request callback implementation that prepares the request's accept headers.
 */
private class AcceptHeaderRequestCallback implements RequestCallback {

    private final Type responseType;

    private AcceptHeaderRequestCallback(Type responseType) {
        this.responseType = responseType;
    }
}

```

```

@Override
public void doWithRequest(ClientHttpRequest request) throws IOException {
    if (responseType != null) {
        Class<?> responseClass = null;
        if (responseType instanceof Class) {
            responseClass = (Class<?>) responseType;
        }

        List<MediaType> allSupportedMediaTypes = new ArrayList<MediaType>();
        for (HttpMessageConverter<?> converter : getMessageConverters()) {
            if (responseClass != null) {
                if (converter.canRead(responseClass, null)) {
                    allSupportedMediaTypes.addAll(getSupportedMediaTypes(converter));
                }
            }
            else if (converter instanceof GenericHttpMessageConverter) {

                GenericHttpMessageConverter<?> genericConverter = (GenericHttpMessageConverter<?>) converter;
                if (genericConverter.canRead(responseType, null, null)) {
                    allSupportedMediaTypes.addAll(getSupportedMediaTypes(converter));
                }
            }

        }
        if (!allSupportedMediaTypes.isEmpty()) {
            MediaType.sortBySpecificity(allSupportedMediaTypes);
            if (logger.isDebugEnabled()) {
                logger.debug("Setting request Accept header to " +
                    allSupportedMediaTypes);
            }
            request.getHeaders().setAccept(allSupportedMediaTypes);
        }
    }
}

private List<MediaType> getSupportedMediaTypes(HttpMessageConverter<?> messageConverter) {
    List<MediaType> supportedMediaTypes = messageConverter.getSupportedMediaTypes();
    List<MediaType> result = new ArrayList<MediaType>(supportedMediaTypes.size());
    for (MediaType supportedMediaType : supportedMediaTypes) {
        if (supportedMediaType.getCharSet() != null) {
            supportedMediaType =
                new MediaType(supportedMediaType.getType(), supportedMediaType.getSubtype());
        }
        result.add(supportedMediaType);
    }
    return result;
}
}

```



```

/**
 * Request callback implementation that writes the given object to the request stream.
 */
private class HttpEntityRequestCallback extends AcceptHeaderRequestCallback {

    private final HttpEntity<?> requestEntity;

    private HttpEntityRequestCallback(Object requestBody) {
        this(requestBody, null);
    }

    private HttpEntityRequestCallback(Object requestBody, Type responseType) {
        super(responseType);
        if (requestBody instanceof HttpEntity) {
            this.requestEntity = (HttpEntity<?>) requestBody;
        }
        else if (requestBody != null) {
            this.requestEntity = new HttpEntity<Object>(requestBody);
        }
        else {
            this.requestEntity = HttpEntity.EMPTY;
        }
    }

    @Override
    @SuppressWarnings("unchecked")
    public void doWithRequest(ClientHttpRequest httpRequest) throws IOException {
        super.doWithRequest(httpRequest);
        if (!requestEntity.hasBody()) {
            HttpHeaders httpHeaders = httpRequest.getHeaders();
            HttpHeaders requestHeaders = requestEntity.getHeaders();
            if (!requestHeaders.isEmpty()) {
                httpHeaders.putAll(requestHeaders);
            }
            if (httpHeaders.getContentLength() == -1) {
                httpHeaders.setContentLength(0L);
            }
        }
        else {
            Object requestBody = requestEntity.getBody();
            Class<?> requestType = requestBody.getClass();
            HttpHeaders requestHeaders = requestEntity.getHeaders();
            MediaType requestContentType = requestHeaders.getContentType();
            for (HttpMessageConverter<?> messageConverter : getMessageConverters()) {
                if (messageConverter.canWrite(requestType, requestContentType)) {
                    if (!requestHeaders.isEmpty()) {

```

```

    httpRequest.getHeaders().putAll(requestHeaders);
}
if (logger.isDebugEnabled()) {
    if (requestContentType != null) {
        logger.debug("Writing [" + requestBody + "] as \"" + requestContentType +
            "\" using [" + messageConverter + "]");
    }
    else {
        logger.debug("Writing [" + requestBody + "] using [" + messageConverter + "]");
    }
}

((HttpMessageConverter<Object>) messageConverter).write(
    requestBody, requestContentType, httpRequest);
return;
}
}

String message = "Could not write request: no suitable HttpMessageConverter found for request type [" +
    requestType.getName() + "]";
if (requestContentType != null) {
    message += " and content type [" + requestContentType + "]";
}
throw new RestClientException(message);
}
}
}

/**
 * Response extractor for {@link HttpEntity}.
 */
private class ResponseEntityResponseExtractor<T> implements ResponseExtractor<ResponseEntity<T>> {

    private final HttpMessageConverterExtractor<T> delegate;

    public ResponseEntityResponseExtractor(Type responseType) {
        if (responseType != null && !Void.class.equals(responseType)) {
            this.delegate = new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
        } else {
            this.delegate = null;
        }
    }

    @Override
    public ResponseEntity<T> extractData(ClientHttpResponse response) throws IOException {
        if (this.delegate != null) {
            T body = this.delegate.extractData(response);
            return new ResponseEntity<T>(body, response.getHeaders(), response.getStatusCode());
        }
    }
}

```

```

    }
    else {
        return new ResponseEntity<T>(response.getHeaders(), response.getStatusCode());
    }
}

/**
 * Response extractor that extracts the response { @link HttpHeaders }.
 */
private static class HeadersExtractor implements ResponseExtractor<HttpHeaders> {

    @Override
    public HttpHeaders extractData(ClientHttpResponse response) throws IOException {
        return response.getHeaders();
    }
}

/*
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 * limitations under the License.
 */

package org.springframework.web.client;

import java.io.IOException;
import java.io.OutputStream;
import java.lang.reflect.Type;
import java.net.URI;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.TimeoutException;

```

```

import org.springframework.core.ParameterizedTypeReference;
import org.springframework.core.task.AsyncListenableTaskExecutor;
import org.springframework.core.task.AsyncTaskExecutor;
import org.springframework.core.task.SimpleAsyncTaskExecutor;
import org.springframework.http.HttpEntity;
import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpMethod;
import org.springframework.http.ResponseEntity;
import org.springframework.http.client.AsyncClientHttpRequest;
import org.springframework.http.client.AsyncClientHttpRequestFactory;
import org.springframework.http.client.ClientHttpRequest;
import org.springframework.http.client.ClientHttpRequestFactory;
import org.springframework.http.client.ClientHttpResponse;
import org.springframework.http.client.SimpleClientHttpRequestFactory;
import org.springframework.http.converter.HttpMessageConverter;
import org.springframework.util.Assert;
import org.springframework.util.concurrent.ListenableFuture;
import org.springframework.util.concurrent.ListenableFutureAdapter;
import org.springframework.util.concurrent.ListenableFutureCallback;
import org.springframework.web.util.UriTemplate;

/**
 * <strong>Spring's central class for asynchronous client-side HTTP access.</strong>
 * Exposes similar methods as { @link RestTemplate }, but returns { @link ListenableFuture }
 * wrappers as opposed to concrete results.
 *
 * <p>The { @code AsyncRestTemplate } exposes a synchronous { @link RestTemplate } via the
 * { @link #getRestOperations() } method, and it shares its
 * { @linkplain #setErrorHandler(ResponseErrorHandler) error handler } and
 * { @linkplain #setMessageConverters(List) message converters } with this
 * { @code RestTemplate }.
 *
 * <p>For more information, please refer to the { @link RestTemplate } API documentation.
 *
 * @author Arjen Poutsma
 * @since 4.0
 * @see RestTemplate
 */
public class AsyncRestTemplate extends AsyncHttpAccessor implements AsyncRestOperations {

    private final RestTemplate syncTemplate;

    /**
     * Create a new instance of the { @code AsyncRestTemplate } using default settings.
     * <p>This constructor uses a { @link SimpleClientHttpRequestFactory } in combination

```

```

* with a { @link SimpleAsyncTaskExecutor } for asynchronous execution.
*/
public AsyncRestTemplate() {
    this(new SimpleAsyncTaskExecutor());
}

/**
 * Create a new instance of the { @code AsyncRestTemplate } using the given
 * { @link AsyncTaskExecutor }.
 * <p>This constructor uses a { @link SimpleClientHttpRequestFactory } in combination
 * with the given { @code AsyncTaskExecutor } for asynchronous execution.
 */
public AsyncRestTemplate(AsyncListenableTaskExecutor taskExecutor) {
    Assert.notNull(taskExecutor, "AsyncTaskExecutor must not be null");
    SimpleClientHttpRequestFactory requestFactory =
        new SimpleClientHttpRequestFactory();
    requestFactory.setTaskExecutor(taskExecutor);
    this.syncTemplate = new RestTemplate(requestFactory);
    setAsyncRequestFactory(requestFactory);
}

/**
 * Create a new instance of the { @code AsyncRestTemplate } using the given
 * { @link AsyncClientHttpRequestFactory }.
 * <p>This constructor will cast the given asynchronous
 * { @code AsyncClientHttpRequestFactory } to a { @link ClientHttpRequestFactory }. Since
 * all implementations of { @code ClientHttpRequestFactory } provided in Spring also
 * implement { @code AsyncClientHttpRequestFactory }, this should not result in a
 * { @code ClassCastException }.
 */
public AsyncRestTemplate(AsyncClientHttpRequestFactory asyncRequestFactory) {
    this(asyncRequestFactory, (ClientHttpRequestFactory) asyncRequestFactory);
}

/**
 * Creates a new instance of the { @code AsyncRestTemplate } using the given
 * asynchronous and synchronous request factories.
 * @param asyncRequestFactory the asynchronous request factory
 * @param syncRequestFactory the synchronous request factory
 */
public AsyncRestTemplate(AsyncClientHttpRequestFactory asyncRequestFactory,
    ClientHttpRequestFactory syncRequestFactory) {
    this(asyncRequestFactory, new RestTemplate(syncRequestFactory));
}

/**
 * Create a new instance of the { @code AsyncRestTemplate } using the given
 * { @link AsyncClientHttpRequestFactory } and synchronous { @link RestTemplate }.

```

```

* @param requestFactory the asynchronous request factory to use
* @param restTemplate the synchronous template to use
*/
public AsyncRestTemplate(AsyncClientHttpRequestFactory requestFactory,
    RestTemplate restTemplate) {
    Assert.notNull(restTemplate, "'restTemplate' must not be null");
    this.syncTemplate = restTemplate;
    setAsyncRequestFactory(requestFactory);
}

/**
 * Set the error handler.
 * <p>By default, AsyncRestTemplate uses a
 * { @link org.springframework.web.client.DefaultResponseErrorHandler}.
 */
public void setErrorHandler(ResponseErrorHandler errorHandler) {
    this.syncTemplate.setErrorHandler(errorHandler);
}

/** Return the error handler. */
public ResponseErrorHandler getErrorHandler() {
    return this.syncTemplate.getErrorHandler();
}

@Override
public RestOperations getRestOperations() {
    return this.syncTemplate;
}

/**
 * Set the message body converters to use.
 * <p>These converters are used to convert from and to HTTP requests and responses.
 */
public void setMessageConverters(List<HttpMessageConverter<?>> messageConverters) {
    this.syncTemplate.setMessageConverters(messageConverters);
}

/**
 * Return the message body converters.
 */
public List<HttpMessageConverter<?>> getMessageConverters() {
    return syncTemplate.getMessageConverters();
}

// GET

```

```

@Override
public <T> ListenableFuture<ResponseEntity<T>> getForEntity(String url, Class<T> responseType, Object...
uriVariables)
    throws RestClientException {

    AsyncRequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor, uriVariables);
}

```

```

@Override
public <T> ListenableFuture<ResponseEntity<T>> getForEntity(String url, Class<T> responseType,
    Map<String, ?> uriVariables) throws RestClientException {

    AsyncRequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor, uriVariables);
}

```

```

@Override
public <T> ListenableFuture<ResponseEntity<T>> getForEntity(URI url, Class<T> responseType) throws
RestClientException {
    AsyncRequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor);
}

```

// HEAD

```

@Override
public ListenableFuture<HttpHeaders> headForHeaders(String url, Object... uriVariables) throws
RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    return execute(url, HttpMethod.HEAD, null, headersExtractor, uriVariables);
}

```

```

@Override
public ListenableFuture<HttpHeaders> headForHeaders(String url, Map<String, ?> uriVariables) throws
RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    return execute(url, HttpMethod.HEAD, null, headersExtractor, uriVariables);
}

```

```

@Override
public ListenableFuture<HttpHeaders> headForHeaders(URI url) throws RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    return execute(url, HttpMethod.HEAD, null, headersExtractor);
}

```

```

// POST

@Override
public ListenableFuture<URI> postForLocation(String url, HttpEntity<?> request,
    Object... uriVariables) throws RestClientException {
    AsyncRequestCallback requestCallback = httpEntityCallback(request);
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    ListenableFuture<HttpHeaders> headersFuture =
        execute(url, HttpMethod.POST, requestCallback, headersExtractor,
            uriVariables);
    return extractLocationHeader(headersFuture);
}

@Override
public ListenableFuture<URI> postForLocation(String url, HttpEntity<?> request,
    Map<String, ?> uriVariables) throws RestClientException {
    AsyncRequestCallback requestCallback = httpEntityCallback(request);
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    ListenableFuture<HttpHeaders> headersFuture =
        execute(url, HttpMethod.POST, requestCallback, headersExtractor,
            uriVariables);
    return extractLocationHeader(headersFuture);
}

@Override
public ListenableFuture<URI> postForLocation(URI url, HttpEntity<?> request)
    throws RestClientException {
    AsyncRequestCallback requestCallback = httpEntityCallback(request);
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    ListenableFuture<HttpHeaders> headersFuture =
        execute(url, HttpMethod.POST, requestCallback, headersExtractor);
    return extractLocationHeader(headersFuture);
}

private static ListenableFuture<URI> extractLocationHeader(final ListenableFuture<HttpHeaders> headersFuture) {
    return new ListenableFuture<URI>() {

        @Override
        public void addCallback(final ListenableFutureCallback<? super URI> callback) {
            headersFuture.addCallback(new ListenableFutureCallback<HttpHeaders>() {

                @Override
                public void onSuccess(HttpHeaders result) {
                    callback.onSuccess(result.getLocation());
                }
            });
        }

        @Override
        public void onFailure(Throwable t) {
    
```



```

        callback.onFailure(t);
    }
});
}

@Override
public boolean cancel(boolean mayInterruptIfRunning) {
    return headersFuture.cancel(mayInterruptIfRunning);
}

@Override
public boolean isCancelled() {
    return headersFuture.isCancelled();
}

@Override
public boolean isDone() {
    return headersFuture.isDone();
}

@Override
public URI get() throws InterruptedException, ExecutionException {
    HttpHeaders headers = headersFuture.get();
    return headers.getLocation();
}

@Override
public URI get(long timeout, TimeUnit unit)
    throws InterruptedException, ExecutionException, TimeoutException {
    HttpHeaders headers = headersFuture.get(timeout, unit);
    return headers.getLocation();
}
};
}

@Override
public <T> ListenableFuture<ResponseEntity<T>> postForEntity(String url, HttpEntity<?> request,
    Class<T> responseType, Object... uriVariables) throws RestClientException {
    AsyncRequestCallback requestCallback = httpEntityCallback(request, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor =
        responseEntityExtractor(responseType);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor,
        uriVariables);
}

@Override
public <T> ListenableFuture<ResponseEntity<T>> postForEntity(String url, HttpEntity<?> request,
    Class<T> responseType, Map<String, ?> uriVariables)
    throws RestClientException {
    AsyncRequestCallback requestCallback = httpEntityCallback(request, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor =
        responseEntityExtractor(responseType);

```

```

return execute(url, HttpMethod.POST, requestCallback, responseExtractor,
    uriVariables);
}

@Override
public <T> ListenableFuture<ResponseEntity<T>> postForEntity(URI url, HttpEntity<?> request,
    Class<T> responseType) throws RestClientException {
    AsyncRequestCallback requestCallback = httpEntityCallback(request, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor =
        responseEntityExtractor(responseType);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor);
}

// PUT

@Override
public ListenableFuture<?> put(String url, HttpEntity<?> request, Object... uriVariables)
    throws RestClientException {
    AsyncRequestCallback requestCallback = httpEntityCallback(request);
    return execute(url, HttpMethod.PUT, requestCallback, null, uriVariables);
}

@Override
public ListenableFuture<?> put(String url, HttpEntity<?> request,
    Map<String, ?> uriVariables) throws RestClientException {
    AsyncRequestCallback requestCallback = httpEntityCallback(request);
    return execute(url, HttpMethod.PUT, requestCallback, null, uriVariables);
}

@Override
public ListenableFuture<?> put(URI url, HttpEntity<?> request) throws RestClientException {
    AsyncRequestCallback requestCallback = httpEntityCallback(request);
    return execute(url, HttpMethod.PUT, requestCallback, null);
}

// DELETE

@Override
public ListenableFuture<?> delete(String url, Object... uriVariables)
    throws RestClientException {
    return execute(url, HttpMethod.DELETE, null, null, uriVariables);
}

@Override
public ListenableFuture<?> delete(String url, Map<String, ?> uriVariables)
    throws RestClientException {
    return execute(url, HttpMethod.DELETE, null, null, uriVariables);
}

```

```

@Override
public ListenableFuture<?> delete(URI url) throws RestClientException {
    return execute(url, HttpMethod.DELETE, null, null);
}

// OPTIONS

@Override
public ListenableFuture<Set<HttpMethod>> optionsForAllow(String url, Object... uriVariables) throws
RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    ListenableFuture<HttpHeaders> headersFuture = execute(url, HttpMethod.OPTIONS, null, headersExtractor,
uriVariables);
    return extractAllowHeader(headersFuture);
}

@Override
public ListenableFuture<Set<HttpMethod>> optionsForAllow(String url, Map<String, ?> uriVariables) throws
RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    ListenableFuture<HttpHeaders> headersFuture = execute(url, HttpMethod.OPTIONS, null, headersExtractor,
uriVariables);
    return extractAllowHeader(headersFuture);
}

@Override
public ListenableFuture<Set<HttpMethod>> optionsForAllow(URI url) throws RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    ListenableFuture<HttpHeaders> headersFuture = execute(url, HttpMethod.OPTIONS, null, headersExtractor);
    return extractAllowHeader(headersFuture);
}

private static ListenableFuture<Set<HttpMethod>> extractAllowHeader(final ListenableFuture<HttpHeaders>
headersFuture) {
    return new ListenableFuture<Set<HttpMethod>>() {

@Override
public void addCallback(
    final ListenableFutureCallback<? super Set<HttpMethod>> callback) {
    headersFuture.addCallback(new ListenableFutureCallback<HttpHeaders>() {

@Override
public void onSuccess(HttpHeaders result) {
    callback.onSuccess(result.getAllow());
}
}
}

@Override
public void onFailure(Throwable t) {

```

```

        callback.onFailure(t);
    }
});
}

@Override
public boolean cancel(boolean mayInterruptIfRunning) {
    return headersFuture.cancel(mayInterruptIfRunning);
}

@Override
public boolean isCancelled() {
    return headersFuture.isCancelled();
}

@Override
public boolean isDone() {
    return headersFuture.isDone();
}

@Override
public Set<HttpMethod> get() throws InterruptedException, ExecutionException {
    HttpHeaders headers = headersFuture.get();
    return headers.getAll();
}

@Override
public Set<HttpMethod> get(long timeout, TimeUnit unit)
    throws InterruptedException, ExecutionException, TimeoutException {
    HttpHeaders headers = headersFuture.get(timeout, unit);
    return headers.getAll();
}
};
}

// exchange

@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(String url, HttpMethod method,
    HttpEntity<?> requestEntity, Class<T> responseType, Object... uriVariables)
    throws RestClientException {
    AsyncRequestCallback requestCallback =
        httpEntityCallback(requestEntity, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor =
        responseEntityExtractor(responseType);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(String url, HttpMethod method,
    HttpEntity<?> requestEntity, Class<T> responseType,

```

```

    Map<String, ?> uriVariables) throws RestClientException {
    AsyncRequestCallback requestCallback =
        httpEntityCallback(requestEntity, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor =
        responseEntityExtractor(responseType);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

```

@Override

```

public <T> ListenableFuture<ResponseEntity<T>> exchange(URI url, HttpMethod method,
    HttpEntity<?> requestEntity, Class<T> responseType)
    throws RestClientException {
    AsyncRequestCallback requestCallback =
        httpEntityCallback(requestEntity, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor =
        responseEntityExtractor(responseType);
    return execute(url, method, requestCallback, responseExtractor);
}

```

@Override

```

public <T> ListenableFuture<ResponseEntity<T>> exchange(String url, HttpMethod method,
    HttpEntity<?> requestEntity, ParameterizedTypeReference<T> responseType,
    Object... uriVariables) throws RestClientException {
    Type type = responseType.getType();
    AsyncRequestCallback requestCallback = httpEntityCallback(requestEntity, type);
    ResponseExtractor<ResponseEntity<T>> responseExtractor =
        responseEntityExtractor(type);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

```

@Override

```

public <T> ListenableFuture<ResponseEntity<T>> exchange(String url, HttpMethod method,
    HttpEntity<?> requestEntity, ParameterizedTypeReference<T> responseType,
    Map<String, ?> uriVariables) throws RestClientException {
    Type type = responseType.getType();
    AsyncRequestCallback requestCallback = httpEntityCallback(requestEntity, type);
    ResponseExtractor<ResponseEntity<T>> responseExtractor =
        responseEntityExtractor(type);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

```

@Override

```

public <T> ListenableFuture<ResponseEntity<T>> exchange(URI url, HttpMethod method,
    HttpEntity<?> requestEntity, ParameterizedTypeReference<T> responseType)
    throws RestClientException {
    Type type = responseType.getType();
    AsyncRequestCallback requestCallback = httpEntityCallback(requestEntity, type);
    ResponseExtractor<ResponseEntity<T>> responseExtractor =

```

```

        responseEntityExtractor(type);
    return execute(url, method, requestCallback, responseExtractor);
}

// general execution

@Override
public <T> ListenableFuture<T> execute(String url, HttpMethod method,
    AsyncRequestCallback requestCallback, ResponseExtractor<T> responseExtractor,
    Object... urlVariables) throws RestClientException {

    URI expanded = new UriTemplate(url).expand(urlVariables);
    return doExecute(expanded, method, requestCallback, responseExtractor);
}

@Override
public <T> ListenableFuture<T> execute(String url, HttpMethod method,
    AsyncRequestCallback requestCallback, ResponseExtractor<T> responseExtractor,
    Map<String, ?> urlVariables) throws RestClientException {

    URI expanded = new UriTemplate(url).expand(urlVariables);
    return doExecute(expanded, method, requestCallback, responseExtractor);
}

@Override
public <T> ListenableFuture<T> execute(URI url, HttpMethod method,
    AsyncRequestCallback requestCallback, ResponseExtractor<T> responseExtractor)
    throws RestClientException {

    return doExecute(url, method, requestCallback, responseExtractor);
}

/**
 * Execute the given method on the provided URI. The
 * {@link org.springframework.http.client.ClientHttpRequest}
 * is processed using the {@link RequestCallback}; the response with
 * the {@link ResponseExtractor}.
 * @param url the fully-expanded URL to connect to
 * @param method the HTTP method to execute (GET, POST, etc.)
 * @param requestCallback object that prepares the request (can be {@code null})
 * @param responseExtractor object that extracts the return value from the response (can
 * be {@code null})
 * @return an arbitrary object, as returned by the {@link ResponseExtractor}
 */
protected <T> ListenableFuture<T> doExecute(URI url, HttpMethod method, AsyncRequestCallback
requestCallback,
    ResponseExtractor<T> responseExtractor) throws RestClientException {

```

```

Assert.notNull(url, "'url' must not be null");
Assert.notNull(method, "'method' must not be null");
try {
    AsyncClientHttpRequest request = createAsyncRequest(url, method);
    if (requestCallback != null) {
        requestCallback.doWithRequest(request);
    }
    ListenableFuture<ClientHttpResponse> responseFuture = request.executeAsync();
    return new ResponseExtractorFuture<T>(method, url, responseFuture,
        responseExtractor);
}
catch (IOException ex) {
    throw new ResourceAccessException("I/O error on " + method.name() +
        " request for \"" + url + "\": " + ex.getMessage(), ex);
}
}

private void logResponseStatus(HttpMethod method, URI url, ClientHttpResponse response) {
    if (logger.isDebugEnabled()) {
        try {
            logger.debug("Async " + method.name() + " request for \"" + url +
                "\" resulted in " + response.getStatusCode() + " (" +
                response.getStatusText() + ")");
        }
        catch (IOException ex) {
            // ignore
        }
    }
}

private void handleResponseError(HttpMethod method, URI url, ClientHttpResponse response) throws IOException
{
    if (logger.isWarnEnabled()) {
        try {
            logger.warn("Async " + method.name() + " request for \"" + url +
                "\" resulted in " + response.getStatusCode() + " (" +
                response.getStatusText() + "); invoking error handler");
        }
        catch (IOException ex) {
            // ignore
        }
    }
    getErrorHandler().handleError(response);
}

/**
 * Returns a request callback implementation that prepares the request { @code Accept}

```

```

* headers based on the given response type and configured { @linkplain
* #getMessageConverters() message converters}.
*/
protected <T> AsyncRequestCallback acceptHeaderRequestCallback(Class<T> responseType) {
    return new AsyncRequestCallbackAdapter(this.syncTemplate.acceptHeaderRequestCallback(responseType));
}

/**
* Returns a request callback implementation that writes the given object to the
* request stream.
*/
protected <T> AsyncRequestCallback httpEntityCallback(HttpEntity<T> requestBody) {
    return new AsyncRequestCallbackAdapter(this.syncTemplate.httpEntityCallback(requestBody));
}

/**
* Returns a request callback implementation that writes the given object to the
* request stream.
*/
protected <T> AsyncRequestCallback httpEntityCallback(HttpEntity<T> request, Type responseType) {
    return new AsyncRequestCallbackAdapter(this.syncTemplate.httpEntityCallback(request, responseType));
}

/**
* Returns a response extractor for { @link ResponseEntity }.
*/
protected <T> ResponseExtractor<ResponseEntity<T>> responseEntityExtractor(Type responseType) {
    return this.syncTemplate.responseEntityExtractor(responseType);
}

/**
* Returns a response extractor for { @link HttpHeaders }.
*/
protected ResponseExtractor<HttpHeaders> headersExtractor() {
    return this.syncTemplate.headersExtractor();
}

/**
* Future returned from
* { @link #doExecute(URI, HttpMethod, AsyncRequestCallback, ResponseExtractor)}
*/
private class ResponseExtractorFuture<T>
    extends ListenableFutureAdapter<T, ClientHttpResponse> {

    private final HttpMethod method;

    private final URI url;

```



```

private final ResponseExtractor<T> responseExtractor;

public ResponseExtractorFuture(HttpMethod method, URI url,
    ListenableFuture<ClientHttpResponse> clientHttpResponseFuture,
    ResponseExtractor<T> responseExtractor) {
    super(clientHttpResponseFuture);
    this.method = method;
    this.url = url;
    this.responseExtractor = responseExtractor;
}

@Override
protected final T adapt(ClientHttpResponse response) throws ExecutionException {
    try {
        if (!getErrorHandler().hasError(response)) {
            logResponseStatus(this.method, this.url, response);
        }
        else {
            handleResponseError(this.method, this.url, response);
        }
        return convertResponse(response);
    }
    catch (IOException ex) {
        throw new ExecutionException(ex);
    }
    finally {
        if (response != null) {
            response.close();
        }
    }
}

protected T convertResponse(ClientHttpResponse response) throws IOException {
    return responseExtractor != null ? responseExtractor.extractData(response) :
        null;
}

/**
 * Adapts a {@link RequestCallback} to the {@link AsyncRequestCallback} interface.
 */
private static class AsyncRequestCallbackAdapter implements AsyncRequestCallback {

    private final RequestCallback adaptee;

    /**
     * Create a new {@code AsyncRequestCallbackAdapter} from the given

```

```

* {@link RequestCallback}.
* @param requestCallback the callback to base this adapter on
*/
public AsyncRequestCallbackAdapter(RequestCallback requestCallback) {
    this.adaptee = requestCallback;
}

@Override
public void doWithRequest(final AsyncClientHttpRequest request) throws IOException {
    if (this.adaptee != null) {
        this.adaptee.doWithRequest(new ClientHttpRequest() {
            @Override
            public ClientHttpResponse execute() throws IOException {
                throw new UnsupportedOperationException("execute not supported");
            }
            @Override
            public OutputStream getBody() throws IOException {
                return request.getBody();
            }
            @Override
            public HttpMethod getMethod() {
                return request.getMethod();
            }
            @Override
            public URI getURI() {
                return request.getURI();
            }
            @Override
            public HttpHeaders getHeaders() {
                return request.getHeaders();
            }
        });
    }
}

}
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* limitations under the License.  
*/
```

```
package org.springframework.http.client;
```

```
import java.io.IOException;  
import java.net.HttpURLConnection;  
import java.net.Proxy;  
import java.net.URI;  
import java.net.URL;  
import java.net.URLConnection;
```

```
import org.springframework.core.task.AsyncListenableTaskExecutor;  
import org.springframework.http.HttpMethod;  
import org.springframework.util.Assert;
```

```
/**
```

```
 * { @link ClientHttpRequestFactory } implementation that uses standard J2SE facilities.
```

```
 *
```

```
 * @author Arjen Poutsma
```

```
 * @author Juergen Hoeller
```

```
 * @since 3.0
```

```
 * @see java.net.HttpURLConnection
```

```
 * @see HttpClientComponentsClientHttpRequestFactory
```

```
 */
```

```
public class SimpleClientHttpRequestFactory  
    implements ClientHttpRequestFactory, AsyncClientHttpRequestFactory {
```

```
    private static final int DEFAULT_CHUNK_SIZE = 4096;
```

```
    private Proxy proxy;
```

```
    private boolean bufferRequestBody = true;
```

```
    private int chunkSize = DEFAULT_CHUNK_SIZE;
```

```
    private int connectTimeout = -1;
```

```
    private int readTimeout = -1;
```

```
    private boolean outputStreaming = true;
```

```
    private AsyncListenableTaskExecutor taskExecutor;
```

```

/**
 * Set the {@link Proxy} to use for this request factory.
 */
public void setProxy(Proxy proxy) {
    this.proxy = proxy;
}

/**
 * Indicates whether this request factory should buffer the {@link plain ClientHttpRequest#getBody()} request body
 * internally.
 * <p>Default is {@code true}. When sending large amounts of data via POST or PUT, it is recommended
 * to change this property to {@code false}, so as not to run out of memory. This will result in a
 * {@link ClientHttpRequest} that either streams directly to the underlying {@link HttpURLConnection}
 * (if the {@link org.springframework.http.HttpHeaders#getContentLength()} Content-Length} is known in
 * advance),
 * or that will use "Chunked transfer encoding" (if the {@code Content-Length} is not known in advance).
 * @see #setChunkSize(int)
 * @see HttpURLConnection#setFixedLengthStreamingMode(int)
 */
public void setBufferRequestBody(boolean bufferRequestBody) {
    this.bufferRequestBody = bufferRequestBody;
}

/**
 * Sets the number of bytes to write in each chunk when not buffering request bodies locally.
 * <p>Note that this parameter is only used when {@link #setBufferRequestBody(boolean) bufferRequestBody} is
 * set
 * to {@code false}, and the {@link org.springframework.http.HttpHeaders#getContentLength()} Content-Length}
 * is not known in advance.
 * @see #setBufferRequestBody(boolean)
 */
public void setChunkSize(int chunkSize) {
    this.chunkSize = chunkSize;
}

/**
 * Set the underlying URLConnection's connect timeout (in milliseconds).
 * A timeout value of 0 specifies an infinite timeout.
 * <p>Default is the system's default timeout.
 * @see URLConnection#setConnectTimeout(int)
 */
public void setConnectTimeout(int connectTimeout) {
    this.connectTimeout = connectTimeout;
}

/**
 * Set the underlying URLConnection's read timeout (in milliseconds).
 * A timeout value of 0 specifies an infinite timeout.

```

```

* <p>Default is the system's default timeout.
* @see URLConnection#setReadTimeout(int)
*/
public void setReadTimeout(int readTimeout) {
    this.readTimeout = readTimeout;
}

/**
* Set if the underlying URLConnection can be set to 'output streaming' mode. When
* output streaming is enabled, authentication and redirection cannot be handled
* automatically. If output streaming is disabled the
* { @link HttpURLConnection#setFixedLengthStreamingMode(int)
* setFixedLengthStreamingMode} and
* { @link HttpURLConnection#setChunkedStreamingMode(int) setChunkedStreamingMode}
* methods of the underlying connection will never be called.
* <p>Default is { @code true}.
* @param outputStreaming if output streaming is enabled
*/
public void setOutputStreaming(boolean outputStreaming) {
    this.outputStreaming = outputStreaming;
}

/**
* Sets the task executor for this request factory. Setting this property is required
* for { @linkplain #createAsyncRequest(URI, HttpMethod) creating asynchronous
* request}.
* @param taskExecutor the task executor
*/
public void setTaskExecutor(AsyncListenableTaskExecutor taskExecutor) {
    this.taskExecutor = taskExecutor;
}

@Override
public ClientHttpRequest createRequest(URI uri, HttpMethod httpMethod) throws IOException {
    HttpURLConnection connection = openConnection(uri.toURL(), this.proxy);
    prepareConnection(connection, httpMethod.name());
    if (this.bufferRequestBody) {
        return new SimpleBufferingClientHttpRequest(connection, this.outputStreaming);
    }
    else {
        return new SimpleStreamingClientHttpRequest(connection, this.chunkSize, this.outputStreaming);
    }
}

/**
* { @inheritDoc}
* <p>Setting the { @link #setTaskExecutor(org.springframework.core.task.AsyncListenableTaskExecutor)
taskExecutor} property

```

```

* is required before calling this method.
*/
@Override
public AsyncClientHttpRequest createAsyncRequest(URI uri, HttpMethod httpMethod)
    throws IOException {
    Assert.state(this.taskExecutor != null, "Asynchronous execution requires an " +
        "AsyncTaskExecutor to be set");
    HttpURLConnection connection = openConnection(uri.toURL(), this.proxy);
    prepareConnection(connection, httpMethod.name());
    if (this.bufferRequestBody) {
        return new SimpleBufferingAsyncClientHttpRequest(connection, this.outputStreaming, this.taskExecutor);
    }
    else {
        return new SimpleStreamingAsyncClientHttpRequest(connection, this.chunkSize,
            this.outputStreaming, this.taskExecutor);
    }
}

/**
 * Opens and returns a connection to the given URL.
 * <p>The default implementation uses the given { @linkplain #setProxy(java.net.Proxy) proxy } -
 * if any - to open a connection.
 * @param url the URL to open a connection to
 * @param proxy the proxy to use, may be { @code null }
 * @return the opened connection
 * @throws IOException in case of I/O errors
 */
protected HttpURLConnection openConnection(URL url, Proxy proxy) throws IOException {
    HttpURLConnection urlConnection = (proxy != null ? url.openConnection(proxy) : url.openConnection());
    Assert.isInstanceOf(HttpURLConnection.class, urlConnection);
    return (HttpURLConnection) urlConnection;
}

/**
 * Template method for preparing the given { @link HttpURLConnection }.
 * <p>The default implementation prepares the connection for input and output, and sets the HTTP method.
 * @param connection the connection to prepare
 * @param httpMethod the HTTP request method ({ @code GET }, { @code POST }, etc.)
 * @throws IOException in case of I/O errors
 */
protected void prepareConnection(HttpURLConnection connection, String httpMethod) throws IOException {
    if (this.connectTimeout >= 0) {
        connection.setConnectTimeout(this.connectTimeout);
    }
    if (this.readTimeout >= 0) {
        connection.setReadTimeout(this.readTimeout);
    }
    connection.setDoInput(true);
}

```

```

if ("GET".equals(httpMethod)) {
    connection.setInstanceFollowRedirects(true);
}
else {
    connection.setInstanceFollowRedirects(false);
}
if ("PUT".equals(httpMethod) || "POST".equals(httpMethod) || "PATCH".equals(httpMethod)) {
    connection.setDoOutput(true);
}
else {
    connection.setDoOutput(false);
}
connection.setRequestMethod(httpMethod);
}

}

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 * limitations under the License.
 */

package org.springframework.http.client;

import java.io.IOException;
import java.io.InputStream;
import java.net.HttpURLConnection;

import org.springframework.http.HttpHeaders;
import org.springframework.util.StringUtils;

/**
 * {@link ClientHttpResponse} implementation that uses standard J2SE facilities.
 * Obtained via {@link SimpleBufferingClientHttpRequest#execute()} and
 * {@link SimpleStreamingClientHttpRequest#execute()}.
 *
 * @author Arjen Poutsma
 * @since 3.0

```

```

*/
final class SimpleClientHttpResponse extends AbstractClientHttpResponse {

    private final HttpURLConnection connection;

    private HttpHeaders headers;

    SimpleClientHttpResponse(HttpURLConnection connection) {
        this.connection = connection;
    }

    @Override
    public int getRawStatusCode() throws IOException {
        return this.connection.getResponseCode();
    }

    @Override
    public String getStatusText() throws IOException {
        return this.connection.getResponseMessage();
    }

    @Override
    public HttpHeaders getHeaders() {
        if (this.headers == null) {
            this.headers = new HttpHeaders();
            // Header field 0 is the status line for most HttpURLConnections, but not on GAE
            String name = this.connection.getHeaderFieldKey(0);
            if (StringUtils.hasLength(name)) {
                this.headers.add(name, this.connection.getHeaderField(0));
            }
            int i = 1;
            while (true) {
                name = this.connection.getHeaderFieldKey(i);
                if (!StringUtils.hasLength(name)) {
                    break;
                }
                this.headers.add(name, this.connection.getHeaderField(i));
                i++;
            }
        }
        return this.headers;
    }

    @Override
    public InputStream getBody() throws IOException {
        InputStream errorStream = this.connection.getErrorStream();

```



```

return (errorStream != null ? errorStream : this.connection.getInputStream());
}

@Override
public void close() {
    this.connection.disconnect();
}

}
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 */

package org.springframework.http.client;

import java.io.IOException;
import java.io.OutputStream;
import java.net.HttpURLConnection;
import java.net.URI;
import java.net.URISyntaxException;
import java.util.List;
import java.util.Map;

import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpMethod;
import org.springframework.util.StreamUtils;

/**
 * {@link ClientHttpRequest} implementation that uses standard J2SE facilities to execute streaming requests.
 * Created via the {@link SimpleClientHttpRequestFactory}.
 *
 * @author Arjen Poutsma
 * @since 3.0
 * @see SimpleClientHttpRequestFactory#createRequest(java.net.URI, HttpMethod)
 */
final class SimpleStreamingClientHttpRequest extends AbstractClientHttpRequest {

```

```

private final HttpURLConnection connection;

private final int chunkSize;

private OutputStream body;

private final boolean outputStreaming;

SimpleStreamingClientHttpRequest(HttpURLConnection connection, int chunkSize,
    boolean outputStreaming) {
    this.connection = connection;
    this.chunkSize = chunkSize;
    this.outputStreaming = outputStreaming;
}

@Override
public HttpMethod getMethod() {
    return HttpMethod.valueOf(this.connection.getRequestMethod());
}

@Override
public URI getURI() {
    try {
        return this.connection.getURL().toURI();
    }
    catch (URISyntaxException ex) {
        throw new IllegalStateException("Could not get HttpURLConnection URI: " + ex.getMessage(), ex);
    }
}

@Override
protected OutputStream getBodyInternal(HttpHeaders headers) throws IOException {
    if (this.body == null) {
        if(this.outputStreaming) {
            int contentLength = (int) headers.getContentLength();
            if (contentLength >= 0) {
                this.connection.setFixedLengthStreamingMode(contentLength);
            }
            else {
                this.connection.setChunkedStreamingMode(this.chunkSize);
            }
        }
        writeHeaders(headers);
        this.connection.connect();
        this.body = this.connection.getOutputStream();
    }
}

```

```

return StreamUtils.nonClosing(this.body);
}

private void writeHeaders(Headers headers) {
for (Map.Entry<String, List<String>> entry : headers.entrySet()) {
String headerName = entry.getKey();
for (String headerValue : entry.getValue()) {
this.connection.addRequestProperty(headerName, headerValue);
}
}
}

@Override
protected ClientHttpResponse executeInternal(Headers headers) throws IOException {
try {
if (this.body != null) {
this.body.close();
}
else {
writeHeaders(headers);
this.connection.connect();
}
}
catch (IOException ex) {
// ignore
}
return new SimpleClientHttpResponse(this.connection);
}

}
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*/

package org.springframework.http.client;

```

```

import java.io.IOException;
import java.net.HttpURLConnection;
import java.net.URI;
import java.net.URISyntaxException;
import java.util.List;
import java.util.Map;

import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpMethod;
import org.springframework.util.FileCopyUtils;

/**
 * {@link ClientHttpRequest} implementation that uses standard J2SE facilities to execute buffered requests.
 * Created via the {@link SimpleClientHttpRequestFactory}.
 *
 * @author Arjen Poutsma
 * @since 3.0
 * @see SimpleClientHttpRequestFactory#createRequest(java.net.URI, HttpMethod)
 */
final class SimpleBufferingClientHttpRequest extends AbstractBufferingClientHttpRequest {

    private final HttpURLConnection connection;

    private final boolean outputStreaming;

    SimpleBufferingClientHttpRequest(HttpURLConnection connection, boolean outputStreaming) {
        this.connection = connection;
        this.outputStreaming = outputStreaming;
    }

    @Override
    public HttpMethod getMethod() {
        return HttpMethod.valueOf(this.connection.getRequestMethod());
    }

    @Override
    public URI getURI() {
        try {
            return this.connection.getURL().toURI();
        }
        catch (URISyntaxException ex) {
            throw new IllegalStateException("Could not get HttpURLConnection URI: " + ex.getMessage(), ex);
        }
    }

    @Override

```

```

protected ClientHttpResponse executeInternal(HttpHeaders headers, byte[] bufferedOutput) throws IOException {
    for (Map.Entry<String, List<String>> entry : headers.entrySet()) {
        String headerName = entry.getKey();
        for (String headerValue : entry.getValue()) {
            this.connection.addRequestProperty(headerName, headerValue);
        }
    }

    if (this.connection.getDoOutput() && this.outputStreaming) {
        this.connection.setFixedLengthStreamingMode(bufferedOutput.length);
    }
    this.connection.connect();
    if (this.connection.getDoOutput()) {
        FileCopyUtils.copy(bufferedOutput, this.connection.getOutputStream());
    }

    return new SimpleClientHttpResponse(this.connection);
}

}
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 * limitations under the License.
 */

package org.springframework.http.client;

import java.io.IOException;
import java.io.OutputStream;
import java.net.HttpURLConnection;
import java.net.URI;
import java.net.URISyntaxException;
import java.util.List;
import java.util.Map;
import java.util.concurrent.Callable;

import org.springframework.core.task.AsyncListenableTaskExecutor;

```

```

import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpMethod;
import org.springframework.util.StreamUtils;
import org.springframework.util.concurrent.ListenableFuture;

/**
 * {@link org.springframework.http.client.ClientHttpRequest} implementation that uses
 * standard J2SE facilities to execute streaming requests. Created via the {@link
 * org.springframework.http.client.SimpleClientHttpRequestFactory}.
 *
 * @author Arjen Poutsma
 * @see org.springframework.http.client.SimpleClientHttpRequestFactory#createRequest(java.net.URI,
 *      org.springframework.http.HttpMethod)
 * @since 3.0
 */
final class SimpleStreamingAsyncClientHttpRequest extends AbstractAsyncClientHttpRequest {

    private final HttpURLConnection connection;

    private final int chunkSize;

    private OutputStream body;

    private final boolean outputStreaming;

    private final AsyncListenableTaskExecutor taskExecutor;

    SimpleStreamingAsyncClientHttpRequest(HttpURLConnection connection, int chunkSize,
        boolean outputStreaming, AsyncListenableTaskExecutor taskExecutor) {
        this.connection = connection;
        this.chunkSize = chunkSize;
        this.outputStreaming = outputStreaming;
        this.taskExecutor = taskExecutor;
    }

    @Override
    public HttpMethod getMethod() {
        return HttpMethod.valueOf(this.connection.getRequestMethod());
    }

    @Override
    public URI getURI() {
        try {
            return this.connection.getURL().toURI();
        }
        catch (URISyntaxException ex) {
            throw new IllegalStateException(
                "Could not get HttpURLConnection URI: " + ex.getMessage(), ex);
        }
    }
}

```

```

}
}

@Override
protected OutputStream getBodyInternal(HttpHeaders headers) throws IOException {
    if (this.body == null) {
        if (this.outputStreaming) {
            int contentLength = (int) headers.getContentLength();
            if (contentLength >= 0) {
                this.connection.setFixedLengthStreamingMode(contentLength);
            }
            else {
                this.connection.setChunkedStreamingMode(this.chunkSize);
            }
        }
        writeHeaders(headers);
        this.connection.connect();
        this.body = this.connection.getOutputStream();
    }
    return StreamUtils.nonClosing(this.body);
}

```

```

private void writeHeaders(HttpHeaders headers) {
    for (Map.Entry<String, List<String>> entry : headers.entrySet()) {
        String headerName = entry.getKey();
        for (String headerValue : entry.getValue()) {
            this.connection.addRequestProperty(headerName, headerValue);
        }
    }
}

```

```

@Override
protected ListenableFuture<ClientHttpResponse> executeInternal(final HttpHeaders headers)
    throws IOException {
    return taskExecutor.submitListenable(new Callable<ClientHttpResponse>() {
        @Override
        public ClientHttpResponse call() throws Exception {
            try {
                if (body != null) {
                    body.close();
                }
                else {
                    writeHeaders(headers);
                    connection.connect();
                }
            }
            catch (IOException ex) {
                // ignore
            }
        }
    });
}

```

```

    }
    return new SimpleClientHttpResponse(connection);
    }
});

}

}
/*
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 * limitations under the License.
 */

package org.springframework.http.client;

import java.io.IOException;
import java.net.HttpURLConnection;
import java.net.URI;
import java.net.URISyntaxException;
import java.util.List;
import java.util.Map;
import java.util.concurrent.Callable;

import org.springframework.core.task.AsyncListenableTaskExecutor;
import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpMethod;
import org.springframework.util.FileCopyUtils;
import org.springframework.util.concurrent.ListenableFuture;

/**
 * {@link org.springframework.http.client.ClientHttpRequest} implementation that uses
 * standard J2SE facilities to execute buffered requests. Created via the
 * {@link org.springframework.http.client.SimpleClientHttpRequestFactory}.
 *
 * @author Arjen Poutsma
 * @since 3.0
 * @see org.springframework.http.client.SimpleClientHttpRequestFactory#createRequest(java.net.URI,

```



```

org.springframework.http.HttpMethod)
*/
final class SimpleBufferingAsyncClientHttpRequest extends AbstractBufferingAsyncClientHttpRequest {

    private final HttpURLConnection connection;

    private final boolean outputStreaming;

    private final AsyncListenableTaskExecutor taskExecutor;

    SimpleBufferingAsyncClientHttpRequest(HttpURLConnection connection,
        boolean outputStreaming, AsyncListenableTaskExecutor taskExecutor) {
        this.connection = connection;
        this.outputStreaming = outputStreaming;
        this.taskExecutor = taskExecutor;
    }

    @Override
    public HttpMethod getMethod() {
        return HttpMethod.valueOf(this.connection.getRequestMethod());
    }

    @Override
    public URI getURI() {
        try {
            return this.connection.getURL().toURI();
        }
        catch (URISyntaxException ex) {
            throw new IllegalStateException("Could not get HttpURLConnection URI: " + ex.getMessage(), ex);
        }
    }

    @Override
    protected ListenableFuture<ClientHttpResponse> executeInternal(
        final HttpHeaders headers, final byte[] bufferedOutput) throws IOException {
        return taskExecutor.submitListenable(new Callable<ClientHttpResponse>() {
            @Override
            public ClientHttpResponse call() throws Exception {
                for (Map.Entry<String, List<String>> entry : headers.entrySet()) {
                    String headerName = entry.getKey();
                    for (String headerValue : entry.getValue()) {
                        connection.addRequestProperty(headerName, headerValue);
                    }
                }

                if (connection.getDoOutput() && outputStreaming) {
                    connection.setFixedLengthStreamingMode(bufferedOutput.length);
                }
            }
        });
    }
}

```

```

        connection.connect();
        if (connection.getDoOutput()) {
            FileCopyUtils.copy(bufferedOutput, connection.getOutputStream());
        }
        return new SimpleClientHttpResponse(connection);
    }
});
}

}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.springframework.remoting.httpinvoker;

import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.net.HttpURLConnection;
import java.net.URL;
import java.net.URLConnection;
import java.util.Locale;
import java.util.zip.GZIPInputStream;

import org.springframework.context.i18n.LocaleContext;
import org.springframework.context.i18n.LocaleContextHolder;
import org.springframework.remoting.support.RemoteInvocationResult;
import org.springframework.util.StringUtils;

/**
 * HttpInvokerRequestExecutor implementation that uses standard J2SE facilities
 * to execute POST requests, without support for HTTP authentication or
 * advanced configuration options.
 */

```

```

* <p>Designed for easy subclassing, customizing specific template methods.
* However, consider CommonsHttpInvokerRequestExecutor for more sophisticated
* needs: The J2SE HttpURLConnection is rather limited in its capabilities.
*
* @author Juergen Hoeller
* @since 1.1
* @see java.net.HttpURLConnection
*/
public class SimpleHttpInvokerRequestExecutor extends AbstractHttpInvokerRequestExecutor {

    private int connectTimeout = -1;

    private int readTimeout = -1;

    /**
     * Set the underlying URLConnection's connect timeout (in milliseconds).
     * A timeout value of 0 specifies an infinite timeout.
     * <p>Default is the system's default timeout.
     * @see URLConnection#setConnectTimeout(int)
     */
    public void setConnectTimeout(int connectTimeout) {
        this.connectTimeout = connectTimeout;
    }

    /**
     * Set the underlying URLConnection's read timeout (in milliseconds).
     * A timeout value of 0 specifies an infinite timeout.
     * <p>Default is the system's default timeout.
     * @see URLConnection#setReadTimeout(int)
     */
    public void setReadTimeout(int readTimeout) {
        this.readTimeout = readTimeout;
    }

    /**
     * Execute the given request through a standard J2SE HttpURLConnection.
     * <p>This method implements the basic processing workflow:
     * The actual work happens in this class's template methods.
     * @see #openConnection
     * @see #prepareConnection
     * @see #writeRequestBody
     * @see #validateResponse
     * @see #readResponseBody
     */
    @Override
    protected RemoteInvocationResult doExecuteRequest(

```

```
HttpInvokerClientConfiguration config, ByteArrayOutputStream baos)
throws IOException, ClassNotFoundException {
```

```
    HttpURLConnection con = openConnection(config);
    prepareConnection(con, baos.size());
    writeRequestBody(config, con, baos);
    validateResponse(config, con);
    InputStream responseBody = readResponseBody(config, con);

    return readRemoteInvocationResult(responseBody, config.getCodebaseUrl());
}
```

```
/**
```

```
 * Open an HttpURLConnection for the given remote invocation request.
 * @param config the HTTP invoker configuration that specifies the
 * target service
 * @return the HttpURLConnection for the given request
 * @throws IOException if thrown by I/O methods
 * @see java.net.URL#openConnection()
 */
```

```
protected HttpURLConnection openConnection(HttpInvokerClientConfiguration config) throws IOException {
    URLConnection con = new URL(config.getServiceUrl()).openConnection();
    if (!(con instanceof HttpURLConnection)) {
        throw new IOException("Service URL [" + config.getServiceUrl() + "] is not an HTTP URL");
    }
    return (HttpURLConnection) con;
}
```

```
/**
```

```
 * Prepare the given HTTP connection.
 * <p>The default implementation specifies POST as method,
 * "application/x-java-serialized-object" as "Content-Type" header,
 * and the given content length as "Content-Length" header.
 * @param connection the HTTP connection to prepare
 * @param contentLength the length of the content to send
 * @throws IOException if thrown by HttpURLConnection methods
 * @see java.net.HttpURLConnection#setRequestMethod
 * @see java.net.HttpURLConnection#setRequestProperty
 */
```

```
protected void prepareConnection(HttpURLConnection connection, int contentLength) throws IOException {
    if (this.connectTimeout >= 0) {
        connection.setConnectTimeout(this.connectTimeout);
    }
    if (this.readTimeout >= 0) {
        connection.setReadTimeout(this.readTimeout);
    }
    connection.setDoOutput(true);
    connection.setRequestMethod(HTTP_METHOD_POST);
}
```

```

connection.setRequestProperty(HTTP_HEADER_CONTENT_TYPE, getContentType());
connection.setRequestProperty(HTTP_HEADER_CONTENT_LENGTH, Integer.toString(contentLength));

LocaleContext localeContext = LocaleContextHolder.getLocaleContext();
if (localeContext != null) {
    Locale locale = localeContext.getLocale();
    if (locale != null) {
        connection.setRequestProperty(HTTP_HEADER_ACCEPT_LANGUAGE, StringUtils.toLanguageTag(locale));
    }
}
if (isAcceptGzipEncoding()) {
    connection.setRequestProperty(HTTP_HEADER_ACCEPT_ENCODING, ENCODING_GZIP);
}
}

/**
 * Set the given serialized remote invocation as request body.
 * <p>The default implementation simply write the serialized invocation to the
 * HttpURLConnection's OutputStream. This can be overridden, for example, to write
 * a specific encoding and potentially set appropriate HTTP request headers.
 * @param config the HTTP invoker configuration that specifies the target service
 * @param con the HttpURLConnection to write the request body to
 * @param baos the ByteArrayOutputStream that contains the serialized
 * RemoteInvocation object
 * @throws IOException if thrown by I/O methods
 * @see java.net.HttpURLConnection#getOutputStream()
 * @see java.net.HttpURLConnection#setRequestProperty
 */
protected void writeRequestBody(
    HttpInvokerClientConfiguration config, HttpURLConnection con, ByteArrayOutputStream baos)
    throws IOException {

    baos.writeTo(con.getOutputStream());
}

/**
 * Validate the given response as contained in the HttpURLConnection object,
 * throwing an exception if it does not correspond to a successful HTTP response.
 * <p>Default implementation rejects any HTTP status code beyond 2xx, to avoid
 * parsing the response body and trying to deserialize from a corrupted stream.
 * @param config the HTTP invoker configuration that specifies the target service
 * @param con the HttpURLConnection to validate
 * @throws IOException if validation failed
 * @see java.net.HttpURLConnection#getResponseCode()
 */
protected void validateResponse(HttpInvokerClientConfiguration config, HttpURLConnection con)
    throws IOException {

```

```

if (con.getResponseCode() >= 300) {
    throw new IOException(
        "Did not receive successful HTTP response: status code = " + con.getResponseCode() +
        ", status message = [" + con.getResponseMessage() + "]");
}
}

/**
 * Extract the response body from the given executed remote invocation
 * request.
 * <p>The default implementation simply reads the serialized invocation
 * from the HttpURLConnection's InputStream. If the response is recognized
 * as GZIP response, the InputStream will get wrapped in a GZIPInputStream.
 * @param config the HTTP invoker configuration that specifies the target service
 * @param con the HttpURLConnection to read the response body from
 * @return an InputStream for the response body
 * @throws IOException if thrown by I/O methods
 * @see #isGzipResponse
 * @see java.util.zip.GZIPInputStream
 * @see java.net.HttpURLConnection#getInputStream()
 * @see java.net.HttpURLConnection#getHeaderField(int)
 * @see java.net.HttpURLConnection#getHeaderFieldKey(int)
 */
protected InputStream readResponseBody(HttpInvokerClientConfiguration config, HttpURLConnection con)
    throws IOException {

    if (isGzipResponse(con)) {
        // GZIP response found - need to unzip.
        return new GZIPInputStream(con.getInputStream());
    }
    else {
        // Plain response found.
        return con.getInputStream();
    }
}

/**
 * Determine whether the given response is a GZIP response.
 * <p>Default implementation checks whether the HTTP "Content-Encoding"
 * header contains "gzip" (in any casing).
 * @param con the HttpURLConnection to check
 */
protected boolean isGzipResponse(HttpURLConnection con) {
    String encodingHeader = con.getHeaderField(HTTP_HEADER_CONTENT_ENCODING);
    return (encodingHeader != null && encodingHeader.toLowerCase().contains(ENCODING_GZIP));
}
}

```

```

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 * limitations under the License.
 */

```

```
package org.springframework.remoting.httpinvoker;
```

```
import java.io.IOException;
import java.io.InputStream;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.OutputStream;
```

```
import com.sun.net.httpserver.HttpExchange;
import com.sun.net.httpserver.HttpHandler;
```

```
import org.springframework.remoting.rmi.RemoteInvocationSerializingExporter;
import org.springframework.remoting.support.RemoteInvocation;
import org.springframework.remoting.support.RemoteInvocationResult;
```

```
/**
 * HTTP request handler that exports the specified service bean as
 * HTTP invoker service endpoint, accessible via an HTTP invoker proxy.
 * Designed for Sun's JRE 1.6 HTTP server, implementing the
 * {@link com.sun.net.httpserver.HttpHandler} interface.
 *
 * <p>Deserializes remote invocation objects and serializes remote invocation
 * result objects. Uses Java serialization just like RMI, but provides the
 * same ease of setup as Caucho's HTTP-based Hessian and Burlap protocols.
 *
 * <p><b>HTTP invoker is the recommended protocol for Java-to-Java remoting.</b>
 * It is more powerful and more extensible than Hessian and Burlap, at the
 * expense of being tied to Java. Nevertheless, it is as easy to set up as
 * Hessian and Burlap, which is its main advantage compared to RMI.
 *
 * @author Juergen Hoeller
 * @since 2.5.1
 */

```

```

* @see org.springframework.remoting.httpinvoker.HttpInvokerClientInterceptor
* @see org.springframework.remoting.httpinvoker.HttpInvokerProxyFactoryBean
* @see org.springframework.remoting.caucho.SimpleHessianServiceExporter
* @see org.springframework.remoting.caucho.SimpleBurlapServiceExporter
*/
public class SimpleHttpInvokerServiceExporter extends RemoteInvocationSerializingExporter
implements HttpHandler {

/**
 * Reads a remote invocation from the request, executes it,
 * and writes the remote invocation result to the response.
 * @see #readRemoteInvocation(com.sun.net.httpserver.HttpExchange)
 * @see #invokeAndCreateResult(org.springframework.remoting.support.RemoteInvocation, Object)
 * @see #writeRemoteInvocationResult(com.sun.net.httpserver.HttpExchange,
org.springframework.remoting.support.RemoteInvocationResult)
 */
@Override
public void handle(HttpExchange exchange) throws IOException {
try {
RemoteInvocation invocation = readRemoteInvocation(exchange);
RemoteInvocationResult result = invokeAndCreateResult(invocation, getProxy());
writeRemoteInvocationResult(exchange, result);
exchange.close();
}
catch (ClassNotFoundException ex) {
exchange.sendResponseHeaders(500, -1);
logger.error("Class not found during deserialization", ex);
}
}

/**
 * Read a RemoteInvocation from the given HTTP request.
 * <p>Delegates to
 * {@link #readRemoteInvocation(com.sun.net.httpserver.HttpExchange, java.io.InputStream)}
 * with the
 * {@link com.sun.net.httpserver.HttpExchange#getRequestBody()} request's input stream}.
 * @param exchange current HTTP request/response
 * @return the RemoteInvocation object
 * @throws java.io.IOException in case of I/O failure
 * @throws ClassNotFoundException if thrown by deserialization
 */
protected RemoteInvocation readRemoteInvocation(HttpExchange exchange)
throws IOException, ClassNotFoundException {

return readRemoteInvocation(exchange, exchange.getRequestBody());
}

/**

```



```

* Deserialize a RemoteInvocation object from the given InputStream.
* <p>Gives { @link #decorateInputStream } a chance to decorate the stream
* first (for example, for custom encryption or compression). Creates a
* { @link org.springframework.remoting.rmi.CodebaseAwareObjectInputStream}
* and calls { @link #doReadRemoteInvocation } to actually read the object.
* <p>Can be overridden for custom serialization of the invocation.
* @param exchange current HTTP request/response
* @param is the InputStream to read from
* @return the RemoteInvocation object
* @throws java.io.IOException in case of I/O failure
* @throws ClassNotFoundException if thrown during deserialization
*/
protected RemoteInvocation readRemoteInvocation(HttpExchange exchange, InputStream is)
    throws IOException, ClassNotFoundException {

    ObjectInputStream ois = createObjectInputStream(decorateInputStream(exchange, is));
    return doReadRemoteInvocation(ois);
}

/**
* Return the InputStream to use for reading remote invocations,
* potentially decorating the given original InputStream.
* <p>The default implementation returns the given stream as-is.
* Can be overridden, for example, for custom encryption or compression.
* @param exchange current HTTP request/response
* @param is the original InputStream
* @return the potentially decorated InputStream
* @throws java.io.IOException in case of I/O failure
*/
protected InputStream decorateInputStream(HttpExchange exchange, InputStream is) throws IOException {
    return is;
}

/**
* Write the given RemoteInvocationResult to the given HTTP response.
* @param exchange current HTTP request/response
* @param result the RemoteInvocationResult object
* @throws java.io.IOException in case of I/O failure
*/
protected void writeRemoteInvocationResult(HttpExchange exchange, RemoteInvocationResult result)
    throws IOException {

    exchange.getResponseHeaders().set("Content-Type", getContentType());
    exchange.sendResponseHeaders(200, 0);
    writeRemoteInvocationResult(exchange, result, exchange.getResponseBody());
}

/**

```

```

* Serialize the given RemoteInvocation to the given OutputStream.
* <p>The default implementation gives { @link #decorateOutputStream } a chance
* to decorate the stream first (for example, for custom encryption or compression).
* Creates an { @link java.io.ObjectOutputStream } for the final stream and calls
* { @link #doWriteRemoteInvocationResult } to actually write the object.
* <p>Can be overridden for custom serialization of the invocation.
* @param exchange current HTTP request/response
* @param result the RemoteInvocationResult object
* @param os the OutputStream to write to
* @throws java.io.IOException in case of I/O failure
* @see #decorateOutputStream
* @see #doWriteRemoteInvocationResult
*/
protected void writeRemoteInvocationResult(
    HttpExchange exchange, RemoteInvocationResult result, OutputStream os) throws IOException {

    ObjectOutputStream oos = createObjectOutputStream(decorateOutputStream(exchange, os));
    doWriteRemoteInvocationResult(result, oos);
    oos.flush();
}

/**
* Return the OutputStream to use for writing remote invocation results,
* potentially decorating the given original OutputStream.
* <p>The default implementation returns the given stream as-is.
* Can be overridden, for example, for custom encryption or compression.
* @param exchange current HTTP request/response
* @param os the original OutputStream
* @return the potentially decorated OutputStream
* @throws java.io.IOException in case of I/O failure
*/
protected OutputStream decorateOutputStream(HttpExchange exchange, OutputStream os) throws IOException {
    return os;
}

}

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```

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\*/

```
package org.springframework.remoting.caucho;
```

```
import java.io.ByteArrayOutputStream;  
import java.io.IOException;
```

```
import com.sun.net.httpserver.HttpExchange;  
import com.sun.net.httpserver.HttpHandler;
```

```
import org.springframework.util.FileCopyUtils;
```

```
/**
```

```
* HTTP request handler that exports the specified service bean as  
* Burlap service endpoint, accessible via a Burlap proxy.  
* Designed for Sun's JRE 1.6 HTTP server, implementing the  
* { @link com.sun.net.httpserver.HttpHandler } interface.  
*
```

```
* <p>Burlap is a slim, XML-based RPC protocol.  
* For information on Burlap, see the  
* <a href="http://www.caucho.com/burlap">Burlap website</a>.  
* This exporter requires Burlap 3.x.  
*
```

```
* <p>Note: Burlap services exported with this class can be accessed by  
* any Burlap client, as there isn't any special handling involved.  
*
```

```
* @author Juergen Hoeller
```

```
* @since 2.5.1
```

```
* @see org.springframework.remoting.caucho.BurlapClientInterceptor
```

```
* @see org.springframework.remoting.caucho.BurlapProxyFactoryBean
```

```
* @see SimpleHessianServiceExporter
```

```
* @see org.springframework.remoting.httpinvoker.SimpleHttpInvokerServiceExporter
```

```
* @deprecated as of Spring 4.0, since Burlap hasn't evolved in years
```

```
* and is effectively retired (in contrast to its sibling Hessian)
```

```
*/
```

```
@Deprecated
```

```
public class SimpleBurlapServiceExporter extends BurlapExporter implements HttpHandler {
```

```
/**
```

```
* Processes the incoming Burlap request and creates a Burlap response.  
*/
```

```
@Override
```

```
public void handle(HttpExchange exchange) throws IOException {
```

```
    if (!"POST".equals(exchange.getRequestMethod())) {
```

```
        exchange.getResponseHeaders().set("Allow", "POST");
```

```
        exchange.sendResponseHeaders(405, -1);
```

```

    return;
}

ByteArrayOutputStream output = new ByteArrayOutputStream(1024);
try {
    invoke(exchange.getRequestBody(), output);
}
catch (Throwable ex) {
    exchange.sendResponseHeaders(500, -1);
    logger.error("Burlap skeleton invocation failed", ex);
}

exchange.sendResponseHeaders(200, output.size());
FileCopyUtils.copy(output.toByteArray(), exchange.getResponseBody());
}

}
/*
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 * limitations under the License.
 */

package org.springframework.remoting.caucho;

import java.io.ByteArrayOutputStream;
import java.io.IOException;

import com.sun.net.httpserver.HttpExchange;
import com.sun.net.httpserver.HttpHandler;

import org.springframework.util.FileCopyUtils;

/**
 * HTTP request handler that exports the specified service bean as
 * Hessian service endpoint, accessible via a Hessian proxy.
 * Designed for Sun's JRE 1.6 HTTP server, implementing the
 * {@link com.sun.net.httpserver.HttpHandler} interface.

```

```

*
* <p>Hessian is a slim, binary RPC protocol.
* For information on Hessian, see the
* <a href="http://www.caucho.com/hessian">Hessian website</a>.
* <b>Note: As of Spring 4.0, this exporter requires Hessian 4.0 or above.</b>
*
* <p>Hessian services exported with this class can be accessed by
* any Hessian client, as there isn't any special handling involved.
*
* @author Juergen Hoeller
* @since 2.5.1
* @see org.springframework.remoting.caucho.HessianClientInterceptor
* @see org.springframework.remoting.caucho.HessianProxyFactoryBean
* @see org.springframework.remoting.httpinvoker.SimpleHttpInvokerServiceExporter
*/
public class SimpleHessianServiceExporter extends HessianExporter implements HttpHandler {

    /**
     * Processes the incoming Hessian request and creates a Hessian response.
     */
    @Override
    public void handle(HttpExchange exchange) throws IOException {
        if (!"POST".equals(exchange.getRequestMethod())) {
            exchange.getResponseHeaders().set("Allow", "POST");
            exchange.sendResponseHeaders(405, -1);
            return;
        }

        ByteArrayOutputStream output = new ByteArrayOutputStream(1024);
        try {
            invoke(exchange.getRequestBody(), output);
        }
        catch (Throwable ex) {
            exchange.sendResponseHeaders(500, -1);
            logger.error("Hessian skeleton invocation failed", ex);
            return;
        }

        exchange.getResponseHeaders().set("Content-Type", CONTENT_TYPE_HESSIAN);
        exchange.sendResponseHeaders(200, output.size());
        FileCopyUtils.copy(output.toByteArray(), exchange.getResponseBody());
    }

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```

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- \*/

```
package org.springframework.remoting.jaxws;
```

```
import java.net.InetSocketAddress;
import java.util.List;
import javax.jws.WebService;
import javax.xml.ws.Endpoint;
import javax.xml.ws.WebServiceProvider;
```

```
import com.sun.net.httpserver.Authenticator;
import com.sun.net.httpserver.Filter;
import com.sun.net.httpserver.HttpContext;
import com.sun.net.httpserver.HttpServer;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
```

```
/**
 * Simple exporter for JAX-WS services, autodetecting annotated service beans
 * (through the JAX-WS { @link javax.jws.WebService } annotation) and exporting
 * them through the HTTP server included in Sun's JDK 1.6. The full address
 * for each service will consist of the server's base address with the
 * service name appended (e.g. "http://localhost:8080/OrderService").
 *
 * <p>Note that this exporter will only work on Sun's JDK 1.6 or higher, as well
 * as on JDKs that ship Sun's entire class library as included in the Sun JDK.
 * For a portable JAX-WS exporter, have a look at { @link SimpleJaxWsServiceExporter }.
 *
 * @author Juergen Hoeller
 * @since 2.5.5
 * @see javax.jws.WebService
 * @see javax.xml.ws.Endpoint#publish(Object)
 * @see SimpleJaxWsServiceExporter
 */
```

```
public class SimpleHttpServerJaxWsServiceExporter extends AbstractJaxWsServiceExporter {

    protected final Log logger = LogFactory.getLog(getClass());
```

```

private HttpServer server;

private int port = 8080;

private String hostname;

private int backlog = -1;

private int shutdownDelay = 0;

private String basePath = "/";

private List<Filter> filters;

private Authenticator authenticator;

private boolean localServer = false;

/**
 * Specify an existing HTTP server to register the web service contexts
 * with. This will typically be a server managed by the general Spring
 * { @link org.springframework.remoting.support.SimpleHttpServerFactoryBean}.
 * <p>Alternatively, configure a local HTTP server through the
 * { @link #setPort "port"}, { @link #setHostname "hostname"} and
 * { @link #setBacklog "backlog"} properties (or rely on the defaults there).
 */
public void setServer(HttpServer server) {
    this.server = server;
}

/**
 * Specify the HTTP server's port. Default is 8080.
 * <p>Only applicable for a locally configured HTTP server.
 * Ignored when the { @link #setServer "server"} property has been specified.
 */
public void setPort(int port) {
    this.port = port;
}

/**
 * Specify the HTTP server's hostname to bind to. Default is localhost;
 * can be overridden with a specific network address to bind to.
 * <p>Only applicable for a locally configured HTTP server.
 * Ignored when the { @link #setServer "server"} property has been specified.
 */
public void setHostname(String hostname) {
    this.hostname = hostname;
}

```

```

}

/**
 * Specify the HTTP server's TCP backlog. Default is -1,
 * indicating the system's default value.
 * <p>Only applicable for a locally configured HTTP server.
 * Ignored when the { @link #setServer "server" } property has been specified.
 */
public void setBacklog(int backlog) {
    this.backlog = backlog;
}

/**
 * Specify the number of seconds to wait until HTTP exchanges have
 * completed when shutting down the HTTP server. Default is 0.
 * <p>Only applicable for a locally configured HTTP server.
 * Ignored when the { @link #setServer "server" } property has been specified.
 */
public void setShutdownDelay(int shutdownDelay) {
    this.shutdownDelay = shutdownDelay;
}

/**
 * Set the base path for context publication. Default is "/".
 * <p>For each context publication path, the service name will be
 * appended to this base address. E.g. service name "OrderService"
 * -> "/OrderService".
 * @see javax.xml.ws.Endpoint#publish(Object)
 * @see javax.jws.WebService#serviceName()
 */
public void setBasePath(String basePath) {
    this.basePath = basePath;
}

/**
 * Register common { @link com.sun.net.httpserver.Filter Filters } to be
 * applied to all detected { @link javax.jws.WebService } annotated beans.
 */
public void setFilters(List<Filter> filters) {
    this.filters = filters;
}

/**
 * Register a common { @link com.sun.net.httpserver.Authenticator } to be
 * applied to all detected { @link javax.jws.WebService } annotated beans.
 */
public void setAuthenticator(Authenticator authenticator) {
    this.authenticator = authenticator;
}

```



```

}

@Override
public void afterPropertiesSet() throws Exception {
    if (this.server == null) {
        InetAddress address = (this.hostname != null ?
            new InetAddress(this.hostname, this.port) : new InetAddress(this.port));
        this.server = HttpServer.create(address, this.backlog);
        if (this.logger.isInfoEnabled()) {
            this.logger.info("Starting HttpServer at address " + address);
        }
        this.server.start();
        this.localServer = true;
    }
    super.afterPropertiesSet();
}

```

```

@Override
protected void publishEndpoint(Endpoint endpoint, WebService annotation) {
    endpoint.publish(buildHttpContext(endpoint, annotation.serviceName()));
}

```

```

@Override
protected void publishEndpoint(Endpoint endpoint, WebServiceProvider annotation) {
    endpoint.publish(buildHttpContext(endpoint, annotation.serviceName()));
}

```

```

/**
 * Build the HttpContext for the given endpoint.
 * @param endpoint the JAX-WS Provider Endpoint object
 * @param serviceName the given service name
 * @return the fully populated HttpContext
 */
protected HttpContext buildHttpContext(Endpoint endpoint, String serviceName) {
    String fullPath = calculateEndpointPath(endpoint, serviceName);
    HttpContext httpContext = this.server.createContext(fullPath);
    if (this.filters != null) {
        httpContext.getFilters().addAll(this.filters);
    }
    if (this.authenticator != null) {
        httpContext.setAuthenticator(this.authenticator);
    }
    return httpContext;
}

```

```

/**
 * Calculate the full endpoint path for the given endpoint.

```

```

* @param endpoint the JAX-WS Provider Endpoint object
* @param serviceName the given service name
* @return the full endpoint path
*/
protected String calculateEndpointPath(Endpoint endpoint, String serviceName) {
    return this.basePath + serviceName;
}

@Override
public void destroy() {
    super.destroy();
    if (this.localServer) {
        logger.info("Stopping HttpServer");
        this.server.stop(this.shutdownDelay);
    }
}

}
/*
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*/

package org.springframework.remoting.jaxws;

import javax.jws.WebService;
import javax.xml.ws.Endpoint;
import javax.xml.ws.WebServiceProvider;

/**
* Simple exporter for JAX-WS services, autodetecting annotated service beans
* (through the JAX-WS { @link javax.jws.WebService } annotation) and exporting
* them with a configured base address (by default "http://localhost:8080/")
* using the JAX-WS provider's built-in publication support. The full address
* for each service will consist of the base address with the service name
* appended (e.g. "http://localhost:8080/OrderService").

```

```

*
* <p>Note that this exporter will only work if the JAX-WS runtime actually
* supports publishing with an address argument, i.e. if the JAX-WS runtime
* ships an internal HTTP server. This is the case with the JAX-WS runtime
* that's included in Sun's JDK 1.6 but not with the standalone JAX-WS 2.1 RI.
*
* <p>For explicit configuration of JAX-WS endpoints with Sun's JDK 1.6
* HTTP server, consider using { @link SimpleHttpServerJaxWsServiceExporter}!
*
* @author Juergen Hoeller
* @since 2.5
* @see javax.jws.WebService
* @see javax.xml.ws.Endpoint#publish(String)
* @see SimpleHttpServerJaxWsServiceExporter
*/
public class SimpleJaxWsServiceExporter extends AbstractJaxWsServiceExporter {

    public static final String DEFAULT_BASE_ADDRESS = "http://localhost:8080/";

    private String baseAddress = DEFAULT_BASE_ADDRESS;

    /**
     * Set the base address for exported services.
     * Default is "http://localhost:8080/".
     * <p>For each actual publication address, the service name will be
     * appended to this base address. E.g. service name "OrderService"
     * -> "http://localhost:8080/OrderService".
     * @see javax.xml.ws.Endpoint#publish(String)
     * @see javax.jws.WebService#serviceName()
     */
    public void setBaseAddress(String baseAddress) {
        this.baseAddress = baseAddress;
    }

    @Override
    protected void publishEndpoint(Endpoint endpoint, WebService annotation) {
        endpoint.publish(calculateEndpointAddress(endpoint, annotation.serviceName()));
    }

    @Override
    protected void publishEndpoint(Endpoint endpoint, WebServiceProvider annotation) {
        endpoint.publish(calculateEndpointAddress(endpoint, annotation.serviceName()));
    }

    /**
     * Calculate the full endpoint address for the given endpoint.

```



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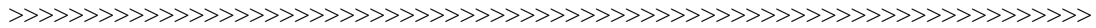
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