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1.1 "Java Concurrency in Practice" book annotations 1.0
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1.2 A Hibernate Core Module 4.2.6.Final
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 * Hibernate, Relational Persistence for Idiomatic Java
 *
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package org.hibernate.ejb;

import java.util.Map;
import javax.persistence.PersistenceContextType;
import javax.persistence.PersistenceException;
import javax.persistence.spi.PersistenceUnitTransactionType;
import org.jboss.logging.Logger;
import org.hibernate.HibernateException;
import org.hibernate.Interceptor;
import org.hibernate.Session;
import org.hibernate.engine.spi.SessionOwner;
import org.hibernate.annotations.common.util.ReflectHelper;
import org.hibernate.engine.spi.SessionBuilderImplementor;
import org.hibernate.engine.spi.SessionImplementor;

/**
 * Hibernate implementation of {@link javax.persistence.EntityManager}.
 *
 * @author Gavin King
 */
public class EntityManagerImpl extends AbstractEntityManagerImpl implements SessionOwner {

    public static final EntityManagerMessageLogger LOG =
    Logger.getMessageLogger(EntityManagerMessageLogger.class,
        EntityManagerImpl.class.getName());

    protected Session session;
    protected boolean open;
    protected boolean discardOnClose;
    private Class sessionInterceptorClass;

    public EntityManagerImpl(
        EntityManagerFactoryImpl entityManagerFactory,
        PersistenceContextType pcType,
        PersistenceUnitTransactionType transactionType,
        boolean discardOnClose,
        Map<String, Object> pmiOptions, Map<String, Object> pmiOptionsForQuery,
        Map<String, Object> pmiResultOptions,
        List<Interceptor> interceptors,
        Session versionedSession, Session nonVersionedSession,
        boolean isSessionVersion_SR)
            throws PersistenceException {

            super(pmiOptions, pmiOptionsForQuery, pmiResultOptions, interceptors,
                versionedSession, nonVersionedSession, isSessionVersion_SR);

            this.sessionInterceptorClass = (Class) ReflectHelper
                .getMethod("org.hibernate.ejb.internal.EntityManagerMessageLogger.getClassRef", 0)
                .invoke(null, null);

            this.session = session;

            if (session != null) {
                session.setEntityInterceptor(new EntityInterceptor());
                open = true;
            }
        }

    }

    public static final EntityManagerMessageLogger LOG =
        Logger.getMessageLogger(com 혹은 org.hibernate.ejb informação)
```java
Class sessionInterceptorClass,
Map properties) {
    super(entityManagerFactory, pcType, transactionType, properties);
    this.open = true;
    this.discardOnClose = discardOnClose;
    Object localSessionInterceptor = null;
    if (properties != null) {
        localSessionInterceptor = properties.get(AvailableSettings.SESSION_INTERCEPTOR);
    }
    if (localSessionInterceptor != null) {
        if (localSessionInterceptor instanceof Class) {
            sessionInterceptorClass = (Class) localSessionInterceptor;
        } else if (localSessionInterceptor instanceof String) {
            try {
                sessionInterceptorClass =
                    ReflectHelper.classForName((String) localSessionInterceptor, EntityManagerImpl.class);
            } catch (ClassNotFoundException e) {
                throw new PersistenceException("Unable to instanciate interceptor: " + localSessionInterceptor, e);
            }
        } else {
            throw new PersistenceException("Unable to instanciate interceptor: " + localSessionInterceptor);
        }
    }
    this.sessionInterceptorClass = sessionInterceptorClass;
    postInit();
}

@Override
    public Session getSession() {
        if (!open) {
            throw new IllegalStateException("EntityManager is closed");
        }
        return getRawSession();
    }

@Override
    protected Session getRawSession() {
        if (session == null) {
            SessionBuilderImplementor sessionBuilder =
                getEntityManagerFactory().getSessionFactory().withOptions();
            sessionBuilder.owner(this);
            if (sessionInterceptorClass != null) {
                try {
                    Interceptor interceptor = (Interceptor) sessionInterceptorClass.newInstance();
                    sessionBuilder.interceptor(interceptor);
                }
```
catch (InstantiationException e) {
    throw new PersistenceException("Unable to instanciate session interceptor: " + sessionInterceptorClass, e);
}
catch (IllegalAccessException e) {
    throw new PersistenceException("Unable to instanciate session interceptor: " + sessionInterceptorClass, e);
}
catch (ClassCastException e) {
    throw new PersistenceException("Session interceptor does not implement Interceptor: " + sessionInterceptorClass, e);
}
}

sessionBuilder.autoJoinTransactions( getTransactionType() != PersistenceUnitTransactionType.JTA );

session = sessionBuilder.openSession();
if ( persistenceContextType == PersistenceContextType.TRANSACTION ) {
    ( (SessionImplementor) session ).setAutoClear( true );
}
return session;

public void close() {
    checkEntityManagerFactory();
    if ( !open ) {
        throw new IllegalStateException( "EntityManager is closed" );
    }
    if ( discardOnClose || !isTransactionInProgress() ) {
        //close right now
        if ( session != null ) {
            session.close();
        }
    }
    // Otherwise, session auto-close will be enabled by shouldAutoCloseSession().
    open = false;
}

public boolean isOpen() {
    //adjustFlushMode(); //don't adjust, can't be done on closed EM
    checkEntityManagerFactory();
    try {
        if ( open ) {
            getSession().isOpen(); //to force enlistment in tx
        }
        return open;
    }
    catch (HibernateException he) {
        throw PersistenceException( he );
        return false;
    }
}
@Override
public boolean shouldAutoCloseSession() {
    return !isOpen();
}

private void checkEntityManagerFactory() {
    if (!getEntityManagerFactory().isOpen()) {
        open = false;
    }
}

/*
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 */

package org.hibernate.ejb;

import java.util.Collection;
import java.util.HashMap;
import java.util.Map;
import java.util.Set;
import javax.persistence.CacheRetrieveMode;
import javax.persistence.CacheStoreMode;
import javax.persistence.FlushModeType;
import javax.persistence.Parameter;
import javax.persistence.TransactionRequiredException;
import javax.persistence.TypedQuery;

import java.util.Collection;
import java.util.HashMap;
import java.util.Map;
import java.util.Set;
import javax.persistence.CacheRetrieveMode;
import javax.persistence.CacheStoreMode;
import javax.persistence.FlushModeType;
import javax.persistence.Parameter;
import javax.persistence.TransactionRequiredException;
import javax.persistence.TypedQuery;
import org.jboss.logging.Logger;
import org.hibernate.CacheMode;
import org.hibernate.FlushMode;
import org.hibernate.HibernateException;
import org.hibernate.LockMode;
import org.hibernate.TypeMismatchException;
import org.hibernate.ejb.internal.EntityManagerMessageLogger;
import org.hibernate.ejb.util.CacheModeHelper;
import org.hibernate.ejb.util.ConfigurationHelper;
import org.hibernate.ejb.util.LockModeTypeHelper;
import org.hibernate.hql.internal.QueryExecutionRequestException;

import static org.hibernate.ejb.QueryHints.HINT_CACHEABLE;
import static org.hibernate.ejb.QueryHints.HINT_CACHE_MODE;
import static org.hibernate.ejb.QueryHints.HINT_CACHE_REGION;
import static org.hibernate.ejb.QueryHints.HINT_COMMENT;
import static org.hibernate.ejb.QueryHints.HINT_FETCH_SIZE;
import static org.hibernate.ejb.QueryHints.HINT_FLUSH_MODE;
import static org.hibernate.ejb.QueryHints.HINT_READONLY;
import static org.hibernate.ejb.QueryHints.HINT_TIMEOUT;
import static org.hibernate.ejb.QueryHints.SPEC_HINT_TIMEOUT;

/**
 * Intended as a base class providing convenience in implementing both { @link javax.persistence.Query} and
 * { @link javax.persistence.TypedQuery}.
 * <p/>
 * IMPL NOTE : This issue, and the reason for this distinction, is that criteria and hl.sql queries share no
 * commonality currently in Hibernate internals.
 * 
 * @author Steve Ebersole
 */
public abstract class AbstractQueryImpl<X> implements TypedQuery<X> {

    private static final EntityManagerMessageLogger LOG =
        Logger.getMessageLogger(EntityManagerMessageLogger.class,
                                AbstractQueryImpl.class.getName());

    private final HibernateEntityManagerImplementor entityManager;

    public AbstractQueryImpl(HibernateEntityManagerImplementor entityManager) {
        this.entityManager = entityManager;
    }

    protected HibernateEntityManagerImplementor getEntityManager() {
        return entityManager;
    }
}
/**
 * Actually execute the update; all pre-requisites have been checked.
 *
 * @return The number of "affected rows".
 */
protected abstract int internalExecuteUpdate();

@Override
@SuppressWarnings({ "ThrowableInstanceNeverThrown" })
public int executeUpdate() {
    try {
        if (!entityManager.isTransactionInProgress()) {
            entityManager.throwPersistenceException( new TransactionRequiredException( "Executing an update/delete query" ) );
            return 0;
        }
        return internalExecuteUpdate();
    }
    catch (QueryExecutionRequestException he) {
        throw new IllegalStateException(he);
    }
    catch (TypeMismatchException e) {
        throw new IllegalArgumentException(e);
    }
    catch(HibernateException he) {
        entityManager.throwPersistenceException(he);
        return 0;
    }
}

private int maxResults = -1;

/**
 * Apply the given max results value.
 *
 * @param maxResults The specified max results
 */
protected abstract void applyMaxResults(int maxResults);

@Override
public TypedQuery<X> setMaxResults(int maxResult) {
    if (maxResult < 0) {
        throw new IllegalArgumentException("Negative value (" + maxResult + ") passed to setMaxResults");
    }
    this.maxResults = maxResult;
applyMaxResults( maxResult );
return this;
}

public int getSpecifiedMaxResults() {
return maxResults;
}

@Override
public int getMaxResults() {
return maxResults == -1
? Integer.MAX_VALUE // stupid spec... MAX_VALUE??
: maxResults;
}

private int firstResult;

/**
 * Apply the given first-result value.
 * @param firstResult The specified first-result value.
 */
protected abstract void applyFirstResult(int firstResult);

@Override
public TypedQuery<X> setFirstResult(int firstResult) {
if ( firstResult < 0 ) {
throw new IllegalArgumentException(
"Negative value (" + firstResult + ") passed to setFirstResult"
);
}
this.firstResult = firstResult;
applyFirstResult( firstResult );
return this;
}

@Override
public int getFirstResult() {
return firstResult;
}

private Map<String, Object> hints;

@Override
public Map<String, Object> getHints() {
return hints;
}
protected abstract void applyTimeout(int timeout);

protected abstract void applyLockTimeout(int timeout);

protected abstract void applyComment(String comment);

protected abstract void applyFetchSize(int fetchSize);

protected abstract void applyCacheable(boolean isCacheable);

protected abstract void applyCacheRegion(String regionName);

protected abstract void applyReadOnly(boolean isReadOnly);

protected abstract void applyCacheMode(CacheMode cacheMode);

protected abstract void applyFlushMode(FlushMode flushMode);

protected abstract boolean canApplyLockModes();

protected abstract void applyAliasSpecificLockMode(String alias, LockMode lockMode);

@Override
@SuppressWarnings( "deprecation" )
public TypedQuery<X> setHint(String hintName, Object value) {
    boolean skipped = false;
    try {
        if ( HINT_TIMEOUT.equals( hintName ) ) {
            applyTimeout( ConfigurationHelper.getInteger( value ) );
        }
        else if ( SPEC_HINT_TIMEOUT.equals( hintName ) ) {
            int timeout = (int)Math.round(ConfigurationHelper.getInteger( value ).doubleValue() / 1000.0 );
            applyTimeout( timeout );
        }
        else if ( AvailableSettings.LOCK_TIMEOUT.equals( hintName ) ) {
            applyLockTimeout( ConfigurationHelper.getInteger( value ) );
        }
        else if ( HINT_COMMENT.equals( hintName ) ) {
            applyComment( (String) value );
        }
        else if ( HINT_FETCH_SIZE.equals( hintName ) ) {
            applyFetchSize( ConfigurationHelper.getInteger( value ) );
        }
        else if ( HINT_CACHEABLE.equals( hintName ) ) {
            applyCacheable( ConfigurationHelper.getBoolean( value ) );
        }
        else if ( HINT_CACHE_REGION.equals( hintName ) ) {
            applyCacheRegion( String.valueOf( value ) );
        }
    }

    return new QueryImpl<X>( this, hintName, value, skipped, true );
}
applyCacheRegion( (String) value );
}
else if ( HINT_READONLY.equals( hintName ) ) {
applyReadonly( ConfigurationHelper.getBoolean( value ) );
}
else if ( HINT_CACHE_MODE.equals( hintName ) ) {
applyCacheMode( ConfigurationHelper.getCacheMode( value ) );
}
else if ( HINT_FLUSH_MODE.equals( hintName ) ) {
applyFlushMode( ConfigurationHelper.getFlushMode( value ) );
}
else if ( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE.equals( hintName ) ) {
final CacheRetrieveMode retrieveMode = (CacheRetrieveMode) value;

CacheStoreMode storeMode = hints != null
? (CacheStoreMode) hints.get( AvailableSettings.SHARED_CACHE_STORE_MODE )
: null;
if ( storeMode == null ) {
storeMode = (CacheStoreMode) entityManager.getProperties()
.get( AvailableSettings.SHARED_CACHE_STORE_MODE );
}
applyCacheMode( CacheModeHelper.interpretCacheMode( storeMode, retrieveMode )
);
}
else if ( AvailableSettings.SHARED_CACHE_STORE_MODE.equals( hintName ) ) {
final CacheStoreMode storeMode = (CacheStoreMode) value;
}
else if ( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE.equals( hintName ) ) {
final CacheRetrieveMode retrieveMode = hints != null
? (CacheRetrieveMode) hints.get( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE )
: null;
if ( retrieveMode == null ) {
retrieveMode = (CacheRetrieveMode) entityManager.getProperties()
.get( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE );
}
applyCacheMode( CacheModeHelper.interpretCacheMode( storeMode, retrieveMode )
);
}
else if ( hintName.startsWith( AvailableSettings.ALIAS_SPECIFIC_LOCK_MODE ) ) {
if ( ! canApplyLockModes() ) {
skipped = true;
}
else {
// extract the alias
final String alias = hintName.substring( AvailableSettings.ALIAS_SPECIFIC_LOCK_MODE.length() + 1 );
// determine the LockMode
try {
final LockMode lockMode = LockModeTypeHelper.interpretLockMode( value );
applyAliasSpecificLockMode( alias, lockMode );
}
catch ( Exception e ) {
    LOG.unableToDetermineLockModeValue(hintName, value);
    skipped = true;
}
}
}
else {
    skipped = true;
    LOG.ignoringUnrecognizedQueryHint(hintName);
}
}
catch ( ClassCastException e ) {
throw new IllegalArgumentException( "Value for hint" );
}

if ( !skipped ) {
if ( hints == null ) {
    hints = new HashMap<String,Object>();
}
    hints.put( hintName, value );
}

return this;
}

@SuppressWarnings( {"UnusedDeclaration"})
public Set<String> getSupportedHints() {
    return QueryHints.getDefinedHints();
}

@Override
public abstract TypedQuery<X> setLockMode(javax.persistence.LockModeType lockModeType);

@Override
public abstract javax.persistence.LockModeType getLockMode();

private FlushModeType jpaFlushMode;

@Override
public TypedQuery<X> setFlushMode(FlushModeType jpaFlushMode) {
    this.jpaFlushMode = jpaFlushMode;
    // TODO : treat as hint?
    if ( jpaFlushMode == FlushModeType.AUTO ) {
        applyFlushMode( FlushMode.AUTO );
    }
}
else if ( jpaFlushMode == FlushModeType.COMMIT ) {
    applyFlushMode( FlushMode.COMMIT );
}
return this;
}

@SuppressWarnings( {"UnusedDeclaration"} )
protected FlushModeType getSpecifiedFlushMode() { return jpaFlushMode; }

@Override
public FlushModeType getFlushMode() {
    return jpaFlushMode != null ? jpaFlushMode :
          entityManager.getFlushMode();
}

private Map parameterBindings;

@SuppressWarnings( {"unchecked"})
protected void registerParameterBinding(Parameter parameter, Object value) {
if ( parameter == null ) {
    throw new IllegalArgumentException( "parameter cannot be null" );
}
validateParameterBinding( parameter, value );
if ( parameterBindings == null ) {
    parameterBindings = new HashMap();
}
    parameterBindings.put( parameter, value );
}

private void validateParameterBinding(Parameter parameter, Object value) {
if ( value == null || parameter.getParameterType() == null ) {
    // nothing we can check
    return;
}
if ( Collection.class.isInstance( value ) &&
    ! Collection.class.isAssignableFrom( parameter.getParameterType() ) ) {
    // we have a collection passed in where we are expecting a non-collection.
    // NOTE : this can happen in Hibernate's notion of "parameter list" binding
    // NOTE2 : the case of a collection value and an expected collection (if that can even happen)
    //          will fall through to the main check.
    validateCollectionValuedParameterMultiBinding( parameter, (Collection) value );
}
else if ( value.getClass().isArray() ) {
    validateArrayValuedParameterBinding( parameter, value );
} else {
    if ( ! parameter.getParameterType().isInstance( value ) ) {
        throw new IllegalArgumentException(
            String.format("Parameter value [%s] did not match expected type [%s]",
                    value,
                    parameter.getParameterType().getName() )
        );
    }
}

private void validateCollectionValuedParameterMultiBinding(Parameter parameter, Collection value) {
    // validate the elements...
    for ( Object element : value ) {
        if ( ! parameter.getParameterType().isInstance( element ) ) {
            throw new IllegalArgumentException(
                String.format("Parameter value element [%s] did not match expected type [%s]",
                        element,
                        parameter.getParameterType().getName() )
            );
        }
    }
}

private void validateArrayValuedParameterBinding(Parameter parameter, Object value) {
    if ( ! parameter.getParameterType().isArray() ) {
        throw new IllegalArgumentException(
            String.format("Encountered array-valued parameter binding, but was expecting [%s]",
                        parameter.getParameterType().getName() )
        );
    }
    if ( value.getClass().getComponentType().isPrimitive() ) {
        // we have a primitive array. we validate that the actual array has the component type (type odf elements)
        // we expect based on the component type of the parameter specification
        if ( ! parameter.getParameterType().getComponentType().isAssignableFrom( value.getClass().getComponentType() ) ) {
            throw new IllegalArgumentException(
                String.format(
                    "Parameter value [%s] did not match expected type [%s]",
                    value,
                    parameter.getParameterType().getName() )
            );
        }
    }
}

if ( value.getClass().isPrimitive() ) {
    // we have a primitive array. we validate that the actual array has the component type (type odf elements)
    // we expect based on the component type of the parameter specification
    if ( ! parameter.getParameterType().getComponentType().isAssignableFrom( value.getClass().getComponentType() ) ) {
        throw new IllegalArgumentException(
            String.format(
                "Encountered array-valued parameter binding, but was expecting [%s]",
                parameter.getParameterType().getName() )
        );
    }
}
"Primitive array-valued parameter bind value type [%s] did not match expected type [%s]",
value.getClass().getComponentType().getName(),
parameter.getParameterType().getName()
)
);
}

else {
    // we have an object array. Here we loop over the array and physically check each element against
    // the type we expect based on the component type of the parameter specification
    final Object[] array = (Object[]) value;
    for ( Object element : array ) {
        if ( ! parameter.getParameterType().getComponentType().isInstance( element ) ) {
            throw new IllegalArgumentException(
                String.format(  
                    "Array-valued parameter value element [%s] did not match expected type [%s]",
                    element,
                    parameter.getParameterType().getName()
                )
            );
        }
    }
}

@Override
public boolean isBound(Parameter<?> param) {
    return parameterBindings != null && parameterBindings.containsKey( param );
}

@Override
@SuppressWarnings({ "unchecked" })
public <T> T getParameterValue(Parameter<T> param) {
    if ( parameterBindings == null ) {
        throw new IllegalStateException( "No parameters have been bound" );
    }
    try {
        T value = (T) parameterBindings.get( param );
        if ( value == null ) {
            throw new IllegalStateException( "Parameter has not been bound" );
        }
        return value;
    }
    catch ( ClassCastException cce ) {
        throw new IllegalStateException( "Encountered a parameter value type exception" );
    }
}
@Override
public Object getParameterValue(String name) {
    return getParameterValue( getParameter( name ) );
}

@Override
public Object getParameterValue(int position) {
    return getParameterValue( getParameter( position ) );
}

/*
* Hibernate, Relational Persistence for Idiomatic Java
*
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* Free Software Foundation, Inc.
* 51 Franklin Street, Fifth Floor
* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.Serializable;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import javax.persistence.CacheRetrieveMode;
import javax.persistence.CacheStoreMode;
import javax.persistence.EntityExistsException;
import javax.persistence.EntityManager;

import java.io.IOException;
import javax.persistence.EntityNotFoundException;
import javax.persistence.EntityTransaction;
import javax.persistence.FlushModeType;
import javax.persistence.LockModeType;
import javax.persistence.LockTimeoutException;
import javax.persistence.NoResultException;
import javax.persistence.NonUniqueResultException;
import javax.persistence.OptimisticLockException;
import javax.persistence.PersistenceContextType;
import javax.persistence.PersistenceException;
import javax.persistence.PessimisticLockException;
import javax.persistence.PessimisticLockScope;
import javax.persistence.Query;
import javax.persistence.QueryTimeoutException;
import javax.persistence.TransactionRequiredException;
import javax.persistence.Tuple;
import javax.persistence.TupleElement;
import javax.persistence.TypedQuery;
import javax.persistence.criteria.CriteriaBuilder;
import javax.persistence.criteria.CriteriaQuery;
import javax.persistence.criteria.Selection;
import javax.persistence.metamodel.Metamodel;
import javax.persistence.spi.PersistenceUnitTransactionType;
import javax.transaction.Status;
import javax.transaction.SystemException;
import javax.transaction.TransactionManager;
import org.jboss.logging.Logger;
import org.hibernate.AssertionFailure;
import org.hibernate.CacheMode;
import org.hibernate.FlushMode;
import org.hibernate.HibernateException;
import org.hibernate.LockMode;
import org.hibernate.LockOptions;
import org.hibernate.MappingException;
import org.hibernate.ObjectDeletedException;
import org.hibernate.ObjectNotFoundException;
import org.hibernate.QueryException;
import org.hibernate.SQLQuery;
import org.hibernate.Session;
import org.hibernate.StaleObjectStateException;
import org.hibernate.StaleStateException;
import org.hibernate.TransientObjectException;
import org.hibernate.TypeMismatchException;
import org.hibernate.UnresolvableObjectException;
import org.hibernate.cfg.Environment;
import org.hibernate.dialect.lock.LockingStrategyException;
import org.hibernate.dialect.lock.OptimisticEntityLockException;
import org.hibernate.dialect.lock.PessimisticEntityLockException;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.ValueHandlerFactory;
import org.hibernate.ejb.criteria.expression.CompoundSelectionImpl;
import org.hibernate.ejb.internal.EntityManagerMessageLogger;
import org.hibernate.ejb.util.CacheModeHelper;
import org.hibernate.ejb.util.ConfigurationHelper;
import org.hibernate.ejb.util.LockModeTypeHelper;
import org.hibernate.engine.ResultSetMappingDefinition;
import org.hibernate.engine.query.spi.HQLQueryPlan;
import org.hibernate.engine.query.spi.sql.NativeSQLQueryReturn;
import org.hibernate.engine.query.spi.sql.NativeSQLQueryRootReturn;
import org.hibernate.engine.spi.NamedSQLQueryDefinition;
import org.hibernate.engine.spi.SessionFactoryImplementor;
import org.hibernate.engine.spi.SessionImplementor;
import org.hibernate.engine.transaction.internal.jta.JtaStatusHelper;
import org.hibernate.engine.transaction.spi.JoinStatus;
import org.hibernate.engine.transaction.spi.TransactionCoordinator;
import org.hibernate.engine.transaction.spi.TransactionImplementor;
import org.hibernate.engine.transaction.synchronization.spi.AfterCompletionAction;
import org.hibernate.engine.transaction.synchronization.spi.ExceptionMapper;
import org.hibernate.engine.transaction.synchronization.spi.ManagedFlushChecker;
import org.hibernate.engine.transaction.synchronization.spi.SynchronizationCallbackCoordinator;
import org.hibernate.internal.util.ReflectHelper;
import org.hibernate.internal.util.collections.CollectionHelper;
import org.hibernate.proxy.HibernateProxy;
import org.hibernate.service.jta.platform.spi.JtaPlatform;
import org.hibernate.transform.BasicTransformerAdapter;
import org.hibernate.type.Type;

/**
 * @author <a href="mailto:gavin@hibernate.org">Gavin King</a>
 * @author Emmanuel Bernard
 * @author Steve Ebersole
 * @author Hardy Ferentschik
 */
@SuppressWarnings("unchecked")
public abstract class AbstractEntityManagerImpl implements HibernateEntityManagerImplementor, Serializable {
    private static final long serialVersionUID = 78818181L;
    private static final EntityManagerMessageLogger LOG =
            Logger.getMessageLogger(EntityManagerMessageLogger.class,
                    AbstractEntityManagerImpl.class.getName());
    private static final List<String> entityManagerSpecificProperties = new ArrayList<String>();

    private static final EntityManagerMessageLogger LOG =
            Logger.getMessageLogger(EntityManagerMessageLogger.class,
                    AbstractEntityManagerImpl.class.getName());
    private static final List<String> entityManagerSpecificProperties = new ArrayList<String>();

    private static final long serialVersionUID = 78818181L;

    private static final EntityManagerMessageLogger LOG =
            Logger.getMessageLogger(EntityManagerMessageLogger.class,
                    AbstractEntityManagerImpl.class.getName());
    private static final List<String> entityManagerSpecificProperties = new ArrayList<String>();
static {
    entityManagerSpecificProperties.add( AvailableSettings.LOCK_SCOPE );
    entityManagerSpecificProperties.add( AvailableSettings.LOCK_TIMEOUT );
    entityManagerSpecificProperties.add( AvailableSettings.FLUSH_MODE );
    entityManagerSpecificProperties.add( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE );
    entityManagerSpecificProperties.add( AvailableSettings.SHARED_CACHE_STORE_MODE );
    entityManagerSpecificProperties.add( QueryHints.SPEC_HINT_TIMEOUT );
}

private EntityManagerFactoryImpl entityManagerFactory;
protected transient TransactionImpl tx = new TransactionImpl( this );
protected PersistenceContextType persistenceContextType;
private PersistenceUnitTransactionType transactionType;
private Map<String, Object> properties;
private LockOptions lockOptions;

protected AbstractEntityManagerImpl(
    EntityManagerFactoryImpl entityManagerFactory,
    PersistenceContextType type,
    PersistenceUnitTransactionType transactionType,
    Map properties) {
    this.entityManagerFactory = entityManagerFactory;
    this.persistenceContextType = type;
    this.transactionType = transactionType;

    this.lockOptions = new LockOptions();
    this.properties = new HashMap<String, Object>();
    for ( String key : entityManagerSpecificProperties ) {
        if ( entityManagerFactory.getProperties().containsKey( key ) ) {
            this.properties.put( key, entityManagerFactory.getProperties().get( key ) );
        }
        if ( properties != null && properties.containsKey( key ) ) {
            this.properties.put( key, properties.get( key ) );
        }
    }

    public PersistenceUnitTransactionType getTransactionType() {
        return transactionType;
    }

    protected void postInit() {
        //register in Sync if needed
        if ( PersistenceUnitTransactionType.JTA.equals( transactionType ) ) {
            joinTransaction( false );
        }
    }

    setDefaultCloseOperation();
applyProperties();
}

private void applyProperties() {
getSession().setFlushMode( ConfigurationHelper.getFlushMode( properties.get( AvailableSettings.FLUSH_MODE ) ) );
setLockOptions( this.properties, this.lockOptions );
getSession().setCacheMode( CacheModeHelper.interpretCacheMode( currentCacheStoreMode(), currentCacheRetrieveMode() ) );
}

private Query applyProperties(Query query) {
if ( lockOptions.getLockMode() != LockMode.NONE ) {
query.setLockMode( getLockMode(lockOptions.getLockMode()) );
}
Object queryTimeout;
if ( (queryTimeout = getProperties().get(QueryHints.SPEC_HINT_TIMEOUT)) != null ) {
query.setHint( QueryHints.SPEC_HINT_TIMEOUT, queryTimeout );
}
Object lockTimeout;
if( (lockTimeout = getProperties().get(AvailableSettings.LOCK_TIMEOUT ))!=null){
query.setHint( AvailableSettings.LOCK_TIMEOUT, lockTimeout );
}
return query;
}

private CacheRetrieveMode currentCacheRetrieveMode() {
return determineCacheRetrieveMode( properties );
}

private CacheRetrieveMode determineCacheRetrieveMode(Map<String, Object> settings) {
return ( CacheRetrieveMode ) settings.get( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE );
}

private CacheStoreMode currentCacheStoreMode() {
return determineCacheStoreMode( properties );
}

private CacheStoreMode determineCacheStoreMode(Map<String, Object> settings) {
return ( CacheStoreMode ) properties.get( AvailableSettings.SHARED_CACHE_STORE_MODE );
}

private void setLockOptions(Map<String, Object> props, LockOptions options) {
Object lockScope = props.get( AvailableSettings.LOCK_SCOPE );
if ( lockScope instanceof String && PessimisticLockScope.valueOf( ( String ) lockScope ) ==
     PessimisticLockScope.EXTENDED ) {
    options.setScope( true );
}
else if ( lockScope instanceof PessimisticLockScope ) {
    boolean extended = PessimisticLockScope.EXTENDED.equals( lockScope );
    options.setScopet( extended );
}
else if ( lockScope != null ) {
    throw new PersistenceException( "Unable to parse " + AvailableSettings.LOCK_SCOPE + ": " + lockScope );
}

Object lockTimeout = props.get( AvailableSettings.LOCK_TIMEOUT );
int timeout = 0;
boolean timeoutSet = false;
if ( lockTimeout instanceof String ) {
    timeout = Integer.parseInt( ( String ) lockTimeout );
    timeoutSet = true;
}
else if ( lockTimeout instanceof Number ) {
    timeout = ( (Number) lockTimeout ).intValue();
    timeoutSet = true;
}
else if ( lockTimeout != null ) {
    throw new PersistenceException( "Unable to parse " + AvailableSettings.LOCK_TIMEOUT + ": " + lockTimeout );
}
if ( timeoutSet ) {
    if ( timeout < 0 ) {
        options.setTimeOut( LockOptions.WAIT_FOREVER );
    }
    else if ( timeout == 0 ) {
        options.setTimeOut( LockOptions.NO_WAIT );
    }
    else {
        options.setTimeOut( timeout );
    }
}

/**
 * Sets the default property values for the properties the entity manager supports and which are not already explicitly
 * set.
 */
private void setDefaultProperties() {
    if ( properties.get( AvailableSettings.FLUSH_MODE ) == null ) {
        properties.put( AvailableSettings.FLUSH_MODE, getSession().getFlushMode().toString() );
    }
    if ( properties.get( AvailableSettings.LOCK_SCOPE ) == null ) {
this.properties.put( AvailableSettings.LOCK_SCOPE, PessimisticLockScope.EXTENDED.name() );
}
if ( properties.get( AvailableSettings.LOCK_TIMEOUT ) == null ) {
properties.put( AvailableSettings.LOCK_TIMEOUT, LockOptions.WAIT_FOREVER );
}
if ( properties.get( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE ) == null ) {
properties.put( AvailableSettings.SHARED_CACHE_RETRIEVE_MODE,
CacheModeHelper.DEFAULT_RETRIEVE_MODE );
}
if ( properties.get( AvailableSettings.SHARED_CACHE_STORE_MODE ) == null ) {
properties.put( AvailableSettings.SHARED_CACHE_STORE_MODE,
CacheModeHelper.DEFAULT_STORE_MODE );
}

public Query createQuery(String jpaqlString) {
try {
return applyProperties( new QueryImpl<Object>( getSession().createQuery( jpaqlString ), this ) );
}
catch ( HibernateException he ) {
throw convert( he );
}
}

public <T> TypedQuery<T> createQuery(String jpaqlString, Class<T> resultClass) {
try {
// do the translation
org.hibernate.Query hqlQuery = getSession().createQuery( jpaqlString );

resultClassChecking( resultClass, hqlQuery );

// finally, build/return the query instance
return new QueryImpl<T>( hqlQuery, this );
}
catch ( HibernateException he ) {
throw convert( he );
}
}

public static class TupleBuilderTransformer extends BasicTransformerAdapter {
private List<TupleElement<?>> tupleElements;
private Map<String,HqlTupleElementImpl> tupleElementsByAlias;

public TupleBuilderTransformer(org.hibernate.Query hqlQuery) {
final Type[] resultTypes = hqlQuery.getReturnTypes();
final int tupleSize = resultTypes.length;

this.tupleElements = CollectionHelper.arrayList( tupleSize );
final String[] aliases = hqlQuery.getReturnAliases();
final boolean hasAliases = aliases != null && aliases.length > 0;
this.tupleElementsByAlias = hasAliases
? CollectionHelper.<String, HqlTupleElementImpl>mapOfSize( tupleSize )
: Collections.<String, HqlTupleElementImpl>emptyMap();

for ( int i = 0; i < tupleSize; i++ ) {
final HqlTupleElementImpl tupleElement = new HqlTupleElementImpl(
    i,
    aliases == null ? null : aliases[i],
    resultTypes[i]
);
tupleElements.add( tupleElement );
if ( hasAliases ) {
final String alias = aliases[i];
if ( alias != null ) {
tupleElementsByAlias.put( alias, tupleElement );
}
}
}

@Override
public Object transformTuple(Object[] tuple, String[] aliases) {
if ( tuple.length != tupleElements.size() ) {
throw new IllegalArgumentException(
    "Size mismatch between tuple result [" + tuple.length + "] and expected tuple elements [" +
tupleElements.size() + "]"
);
}
return new HqlTupleImpl( tuple );
}

public static class HqlTupleElementImpl<X> implements TupleElement<X> {
private final int position;
private final String alias;
private final Type hibernateType;

public HqlTupleElementImpl(int position, String alias, Type hibernateType) {
this.position = position;
this.alias = alias;
this.hibernateType = hibernateType;
}

@Override
public Class getJavaType() {
return hibernateType.getReturnedClass();
@Override
public String getAlias() {
    return alias;
}

public int getPosition() {
    return position;
}

public Type getHibernateType() {
    return hibernateType;
}

public class HqlTupleImpl implements Tuple {
    private Object[] tuple;

    public HqlTupleImpl(Object[] tuple) {
        this.tuple = tuple;
    }

    @Override
    public <X> X get(String alias, Class<X> type) {
        return (X) get( alias );
    }

    @Override
    public Object get(String alias) {
        HqlTupleElementImpl tupleElement = tupleElementsByAlias.get( alias );
        if ( tupleElement == null ) {
            throw new IllegalArgumentException( "Unknown alias [" + alias + "]" );
        }
        return tuple[ tupleElement.getPosition() ];
    }

    @Override
    public <X> X get(int i, Class<X> type) {
        return (X) get( i );
    }

    @Override
    public Object get(int i) {
        if ( i < 0 ) {
            throw new IllegalArgumentException( "requested tuple index must be greater than zero" );
        }
        if ( i > tuple.length ) {
throw new IllegalArgumentException( "requested tuple index exceeds actual tuple size" );
}
return tuple[i];
}

@Override
public Object[] toArray() {
    // todo : make a copy?
    return tuple;
}

@Override
public List<TupleElement<?>> getElements() {
    return tupleElements;
}

@Override
public <X> X get(TupleElement<X> tupleElement) {
    if ( HqlTupleElementImpl.class.isInstance( tupleElement ) ) {
        return get( ( (HqlTupleElementImpl) tupleElement ).getPosition(), tupleElement.getJavaType() );
    } else {
        return get( tupleElement.getAlias(), tupleElement.getJavaType() );
    }
}

public <T> TypedQuery<T> createQuery(
    String jpaqlString,
    Class<T> resultClass,
    Selection selection,
    Options options) {
    try {
        org.hibernate.Query hqlQuery = getSession().createQuery( jpaqlString );

        if ( options.getValueHandlers() == null ) {
            options.getResultMetadataValidator().validate( hqlQuery.getReturnTypes() );
        }

        // determine if we need a result transformer
        List tupleElements = Tuple.class.equals( resultClass )
            ? ( ( CompoundSelectionImpl<Tuple> ) selection ).getCompoundSelectionItems() :
            null;
        if ( options.getValueHandlers() != null || tupleElements != null ) {
            hqlQuery.setResultTransformer(
                new CriteriaQueryTransformer( options.getValueHandlers(), tupleElements )
            );
        }
    } catch ( Exception e ) {
        // TODO: handle error
    }
}
return new QueryImpl<T>( hqlQuery, this, options.getNamedParameterExplicitTypes() );
}
catch ( HibernateException he ) {
    throw convert( he );
}

private static class CriteriaQueryTransformer extends BasicTransformerAdapter {

    private final List<ValueHandlerFactory.ValueHandler> valueHandlers;
    private final List tupleElements;

    private CriteriaQueryTransformer(List<ValueHandlerFactory.ValueHandler> valueHandlers, List tupleElements) {
        // todo : should these 2 sizes match *always*?
        this.valueHandlers = valueHandlers;
        this.tupleElements = tupleElements;
    }

    @Override
    public Object transformTuple(Object[] tuple, String[] aliases) {
        final Object[] valueHandlerResult;
        if ( valueHandlers == null ) {
            valueHandlerResult = tuple;
        } else {
            valueHandlerResult = new Object[tuple.length];
            for ( int i = 0; i < tuple.length; i++ ) {
                ValueHandlerFactory.ValueHandler valueHandler = valueHandlers.get( i );
                valueHandlerResult[i] = valueHandler == null ? tuple[i] : valueHandler.convert( tuple[i] );
            }
        }
        return tupleElements == null ? valueHandlerResult.length == 1 ? valueHandlerResult[0] : valueHandlerResult : new TupleImpl( tuple );
    }

    private class TupleImpl implements Tuple {

        private final Object[] tuples;

        private TupleImpl(Object[] tuples) {
            if ( tuples.length != tupleElements.size() ) {
                throw new IllegalArgumentException(
                        "Size mismatch between tuple result [" + tuples.length + "] and expected tuple elements [" + tupleElements.size() + "]"
                );
            }
        }

        private class TupleImpl/Object[] tuples {
            if ( tuples.length != tupleElements.size() ) {
                throw new IllegalArgumentException("Size mismatch between tuple result [" + tuples.length + "] and expected tuple elements [" + tupleElements.size() + "]");
            }
        }

        private class TupleImpl implements Tuple {

            private final Object[] tuples;

            private TupleImpl(Object[] tuples) {
                if ( tuples.length != tupleElements.size() ) {
                    throw new IllegalArgumentException("Size mismatch between tuple result [" + tuples.length + "] and expected tuple elements [" + tupleElements.size() + "]");
                }
            }
public <X> X get(TupleElement<X> tupleElement) {
    int index = tupleElements.indexOf(tupleElement);
    if (index < 0) {
        throw new IllegalArgumentException(
            "Requested tuple element did not correspond to element in the result tuple"
        );
    }
    // index should be "in range" by nature of size check in ctor
    return (X) tuples[index];
}

public Object get(String alias) {
    int index = -1;
    if (alias != null) {
        alias = alias.trim();
        if (alias.length() > 0) {
            int i = 0;
            for (TupleElement selection : (List<TupleElement>) tupleElements) {
                if (alias.equals(selection.getAlias())) {
                    index = i;
                    break;
                }
                i++;
            }
        }
    }
    if (index < 0) {
        throw new IllegalArgumentException(
            "Given alias [" + alias + "] did not correspond to an element in the result tuple"
        );
    }
    // index should be "in range" by nature of size check in ctor
    return tuples[index];
}

public <X> X get(String alias, Class<X> type) {
    return (X) get(alias);
}

public Object get(int i) {
    if (i >= tuples.length) {
        throw new IllegalArgumentException(
            "Given index [" + i + "] was outside the range of result tuple size [" + tuples.length + "]" 
        );
    }
}


```java
}),
return tuples[i];
}

public <X> X get(int i, Class<X> type) {
return (X) get(i);
}

public Object[] toArray() {
return tuples;
}

public List<TupleElement<?>> getElements() {
return tupleElements;
}
}

private CriteriaQueryCompiler criteriaQueryCompiler;

public <T> TypedQuery<T> createQuery(CriteriaQuery<T> criteriaQuery) {
if (criteriaQueryCompiler == null) {
criteriaQueryCompiler = new CriteriaQueryCompiler(this);
}
return criteriaQueryCompiler.compile(criteriaQuery);
}

public Query createNamedQuery(String name) {
try {
org.hibernate.Query namedQuery = getSession().getNamedQuery(name);
try {
return new QueryImpl(namedQuery, this);
} catch (HibernateException he) {
throw convert(he);
}
} catch (MappingException e) {
throw new IllegalArgumentException("Named query not found: "+ name);
}
}

public <T> TypedQuery<T> createNamedQuery(String name, Class<T> resultClass) {
try {
/*
* Get the named query.
* If the named query is a SQL query, get the expected returned type from the query definition
```
* or its associated result set mapping
* If the named query is a HQL query, use getReturn()*/

org.hibernate.Query namedQuery = getSession().getNamedQuery( name );
//TODO clean this up to avoid downcasting
final SessionFactoryImplementor factoryImplementor = entityManagerFactory.getSessionFactory();
final NamedSQLQueryDefinition queryDefinition = factoryImplementor.getNamedSQLQuery( name );
try {
  if ( queryDefinition != null ) {
    Class<?> actualReturnedClass;

    final NativeSQLQueryReturn[] queryReturns;
    if ( queryDefinition.getQueryReturns() != null ) {
      queryReturns = queryDefinition.getQueryReturns();
    }
    else if ( queryDefinition.getResultSetRef() != null ) {
      final ResultSetMappingDefinition rsMapping = factoryImplementor.getResultSetMapping( queryDefinition.getResultSetRef() );
      queryReturns = rsMapping.getQueryReturns();
    }
    else {
      throw new AssertionFailure( "Unsupported named query model. Please report the bug in Hibernate EntityManager" );
    }
    if ( queryReturns.length > 1 ) {
      throw new IllegalArgumentException( "Cannot create TypedQuery for query with more than one return" );
    }
    final NativeSQLQueryReturn nativeSQLQueryReturn = queryReturns[0];
    if ( nativeSQLQueryReturn instanceof NativeSQLQueryRootReturn ) {
      final String entityClassName = ( ( NativeSQLQueryRootReturn ) nativeSQLQueryReturn ).getReturnEntityName();
      try {
        actualReturnedClass = ReflectHelper.classForName( entityClassName, AbstractEntityManagerImpl.class );
      }
      catch ( ClassNotFoundException e ) {
        throw new AssertionFailure( "Unable to instantiate class declared on named native query: " + name + " " + entityClassName );
      }
      if ( !resultClass.isAssignableFrom( actualReturnedClass ) ) {
        throw buildIncompatibleException( resultClass, actualReturnedClass );
      }
    }
    else {
      //TODO support other NativeSQLQueryReturn type. For now let it go.
    }
  }
}
else {
  resultClassChecking( resultClass, namedQuery );
}
return new QueryImpl<T>(namedQuery, this);
}
catch (HibernateException he) {
throw convert(he);
}
}
catch (MappingException e) {
throw new IllegalArgumentException("Named query not found: " + name);
}
}

private <T> void resultClassChecking(Class<T> resultClass, org.hibernate.Query query) {
// make sure the query is a select -> HHH-7192
final SessionImplementor session = unwrap(SessionImplementor.class);
final HQLQueryPlan queryPlan = session.getFactory().getQueryPlanCache().getHQLQueryPlan(
query.getQueryString(),
false,
session.getLoadQueryInfluencers().getEnabledFilters() );
if ( queryPlan.getTranslators()[0].isManipulationStatement() ) {
throw new IllegalArgumentException("Update/delete queries cannot be typed");
}

// do some return type validation checking
if ( Object[].class.equals(resultClass) ) {
// no validation needed
}
else if ( Tuple.class.equals(resultClass) ) {
TupleBuilderTransformer tupleTransformer = new TupleBuilderTransformer(query);
query.setResultTransformer(tupleTransformer);
}
else {
final Class dynamicInstantiationClass = queryPlan.getDynamicInstantiationResultType();
if ( dynamicInstantiationClass != null ) {
if (!resultClass.isAssignableFrom(dynamicInstantiationClass)) {
throw new IllegalArgumentException(
"Mismatch in requested result type [" + resultClass.getName() + "] and actual result type [" + dynamicInstantiationClass.getName() + "]"");
}
else if ( query.getReturnTypes().length == 1 ) {
// if we have only a single return expression, its java type should match with the requested type
if (!resultClass.isAssignableFrom(query.getReturnTypes()[0].getReturnedClass())) {
throw new IllegalArgumentException(
"Type specified for TypedQuery [" +

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resultClass.getName() +
"] is incompatible with query return type [" +
query.getReturnTypes()[0].getReturnedClass() + "]"
);
}
}
else {
throw new IllegalArgumentException(
"Cannot create TypedQuery for query with more than one return using requested result type [" +
resultClass.getName() + "]"
);
}
}

private IllegalArgumentException buildIncompatibleException(Class<?> resultClass, Class<?> actualResultClass) {
return new IllegalArgumentException(
"Type specified for TypedQuery [" +
resultClass.getName() + "] is incompatible with query return type [" +
actualResultClass + "]"
);
}

public Query createNativeQuery(String sqlString) {
try {
SQLQuery q = getSession().createSQLQuery( sqlString );
return new QueryImpl( q, this );
}
catch ( HibernateException he ) { 
throw convert( he );
}
}

public Query createNativeQuery(String sqlString, Class resultClass) {
try {
SQLQuery q = getSession().createSQLQuery( sqlString );
q.addEntity( "alias1", resultClass.getName(), LockMode.READ );
return new QueryImpl( q, this );
}
catch ( HibernateException he ) { 
throw convert( he );
}
}

public Query createNativeQuery(String sqlString, String resultSetMapping) {
try {
SQLQuery q = getSession().createSQLQuery( sqlString );
return new QueryImpl( q, this );
}
catch ( HibernateException he ) { 
throw convert( he );
}
}
q.setResultMapping( resultSetMapping );
return new QueryImpl( q, this );
}
catch ( HibernateException he ) {
throw convert( he );
}

@SuppressWarnings("unchecked")
public <T> T getReference(Class<T> entityClass, Object primaryKey) {
try {
return ( T ) getSession().load( entityClass, ( Serializable ) primaryKey );
} catch ( MappingException e ) {
throw new IllegalArgumentException( e.getMessage(), e );
} catch ( TypeMismatchException e ) {
throw new IllegalArgumentException( e.getMessage(), e );
} catch ( ClassCastException e ) {
throw new IllegalArgumentException( e.getMessage(), e );
} catch ( HibernateException he ) {
throw convert( he );
}

@SuppressWarnings("unchecked")
public <A> A find(Class<A> entityClass, Object primaryKey) {
return find( entityClass, primaryKey, null, null );
}

public <T> T find(Class<T> entityClass, Object primaryKey, Map<String, Object> properties) {
return find( entityClass, primaryKey, null, properties );
}

@SuppressWarnings("unchecked")
public <A> A find(Class<A> entityClass, Object primaryKey, LockModeType lockModeType) {
return find( entityClass, primaryKey, lockModeType, null );
}

public <A> A find(Class<A> entityClass, Object primaryKey, LockModeType lockModeType, Map<String, Object> properties) {
CacheMode previousCacheMode = getSession().getCacheMode();
CacheMode cacheMode = determineAppropriateLocalCacheMode( properties );
LockOptions lockOptions = null;
try {
getSession().setCacheMode( cacheMode );
}
if ( lockModeType != null ) {
  lockOptions = getLockRequest( lockModeType, properties );
  return ( A ) getSession().get( entityClass, ( Serializable ) primaryKey, lockOptions );
} 
else {
  return ( A ) getSession().get( entityClass, ( Serializable ) primaryKey );
}
}
catch ( EntityNotFoundException ignored ) { 
  // DefaultLoadEventListener.returnNarrowedProxy may throw ENFE (see HHH-7861 for details),
  // which find() should not throw. Find() should return null if the entity was not found.
  if ( LOG.isDebugEnabled() ) {
    String entityName = entityClass != null ? entityClass.getName(): null;
    String identifierValue = primaryKey != null ? primaryKey.toString() : null;
    LOG.ignoringEntityNotFound( entityName, identifierValue );
  }
  return null;
}
catch ( ObjectDeletedException e ) { 
  //the spec is silent about people doing remove() find() on the same PC
  return null;
}
catch ( ObjectNotFoundException e ) { 
  //should not happen on the entity itself with get
  throw new IllegalArgumentException( e.getMessage(), e );
}
catch ( MappingException e ) { 
  throw new IllegalArgumentException( e.getMessage(), e );
}
catch ( TypeMismatchException e ) { 
  throw new IllegalArgumentException( e.getMessage(), e );
}
catch ( ClassCastException e ) { 
  throw new IllegalArgumentException( e.getMessage(), e );
}
catch ( HibernateException he ) { 
  throw convert( he, lockOptions );
}
finally {
  getSession().setCacheMode( previousCacheMode );
}

public CacheMode determineAppropriateLocalCacheMode(Map<String, Object> localProperties) {
  CacheRetrieveMode retrieveMode = null;
}
CacheStoreMode storeMode = null;
if ( localProperties != null ) {
  retrieveMode = determineCacheRetrieveMode( localProperties );
  storeMode = determineCacheStoreMode( localProperties );
}
if ( retrieveMode == null ) {
  // use the EM setting
  retrieveMode = determineCacheRetrieveMode( this.properties );
}
if ( storeMode == null ) {
  // use the EM setting
  storeMode = determineCacheStoreMode( this.properties );
}
return CacheModeHelper.interpretCacheMode( storeMode, retrieveMode );

private void checkTransactionNeeded() {
if ( persistenceContextType == PersistenceContextType.TRANSACTION && !isTransactionInProgress() ) {
  //no need to mark as rollback, no tx in progress
  throw new TransactionRequiredException(
    "no transaction is in progress for a TRANSACTION type persistence context"
  );
}
}

public void persist(Object entity) {
  checkTransactionNeeded();
  try {
    getSession().persist( entity );
  } catch ( MappingException e ) {
    throw new IllegalArgumentException( e.getMessage() );
  } catch ( RuntimeException e ) {
    throw convert( e );
  }
}

@SuppressWarnings("unchecked")
public <A> A merge(A entity) {
  checkTransactionNeeded();
  try {
    return ( A ) getSession().merge( entity );
  } catch ( ObjectDeletedException sse ) {
    throw new IllegalArgumentException( sse );
  } catch ( MappingException e ) {
    throw new IllegalArgumentException( e.getMessage() );
  }
}
throw new IllegalArgumentException( e.getMessage(), e );
}
catch ( RuntimeException e ) { //including HibernateException
throw convert( e );
}

public void remove(Object entity) {
checkTransactionNeeded();
try {
getSession().delete( entity );
}
catch ( MappingException e ) {
throw new IllegalArgumentException( e.getMessage(), e );
}
catch ( RuntimeException e ) { //including HibernateException
throw convert( e );
}

public void refresh(Object entity) {
refresh( entity, null, null );
}

public void refresh(Object entity, Map<String, Object> properties) {
refresh( entity, null, properties );
}

public void refresh(Object entity, LockModeType lockModeType) {
refresh( entity, lockModeType, null );
}

public void refresh(Object entity, LockModeType lockModeType, Map<String, Object> properties) {
checkTransactionNeeded();
CacheMode previousCacheMode = getSession().getCacheMode();
CacheMode localCacheMode = determineAppropriateLocalCacheMode( properties );
LockOptions lockOptions = null;
try {
getSession().setCacheMode( localCacheMode );
if ( !getSession().contains( entity ) ) {
throw new IllegalArgumentException( "Entity not managed" );
}
if ( lockModeType != null ) {
lockOptions = getLockRequest( lockModeType, properties );
getSession().refresh( entity, lockOptions );
} else {
getSession().refresh( entity );
}
catch (MappingException e) {
    throw new IllegalArgumentException(e.getMessage(), e);
}

try {
    if (entity != null
        && !(entity instanceof HibernateProxy
            && getSession().getSessionFactory().getClassMetadata(entity.getClass()) == null)) {
        throw new IllegalArgumentException("Not an entity:" + entity.getClass());
    }
    return getSession().contains(entity);
}

public boolean contains(Object entity) {
    try {
        if (entity != null
            && !(entity instanceof HibernateProxy
                && getSession().getSessionFactory().getClassMetadata(entity.getClass()) == null)) {
            throw new IllegalArgumentException("Not an entity:" + entity.getClass());
        }
        return getSession().contains(entity);
    }
    catch (MappingException e) {
        throw new IllegalArgumentException(e.getMessage(), e);
    }
    catch (HibernateException he) {
        throw convert(he);
    }
}

public LockModeType getLockMode(Object entity) {
    if (!contains(entity)) {
        throw new IllegalArgumentException("entity not in the persistence context");
    }
    return getLockModeType(getSession().getCurrentLockMode(entity));
}

public void setProperty(String s, Object o) {
    if (entityManagerSpecificProperties.contains(s)) {
        properties.put(s, o);
        applyProperties();
    } else LOG.debug("Trying to set a property which is not supported on entity manager level");
}

public Map<String, Object> getProperties() {
    return Collections.unmodifiableMap(properties);
}
public void flush() {
    if (!isTransactionInProgress()) {
        throw new TransactionRequiredException( "no transaction is in progress" );
    }
    try {
        getSession().flush();
    } catch ( RuntimeException e ) {
        throw convert( e );
    }
}

/**
 * return a Session
 *
 * @throws IllegalStateException if the entity manager is closed
 */
public abstract Session getSession();

/**
 * Return a Session (even if the entity manager is closed).
 *
 * @return A session.
 */
protected abstract Session getRawSession();

public EntityTransaction getTransaction() {
    if ( transactionType == PersistenceUnitTransactionType.JTA ) {
        throw new IllegalStateException( "A JTA EntityManager cannot use getTransaction()" );
    }
    return tx;
}

/**
 * [@inheritdoc]
 */
public EntityManagerFactoryImpl getEntityManagerFactory() {
    return entityManagerFactory;
}

/**
 * [@inheritdoc]
 */
public HibernateEntityManagerFactory getFactory() {
    return entityManagerFactory;
}
public CriteriaBuilder getCriteriaBuilder() {
    return getEntityManagerFactory().getCriteriaBuilder();
}

/**
 * @inheritDoc
 */
public Metamodel getMetamodel() {
    return getEntityManagerFactory().getMetamodel();
}

public void setFlushMode(FlushModeType flushModeType) {
    if (flushModeType == FlushModeType.AUTO) {
        getSession().setFlushMode(FlushMode.AUTO);
    } else if (flushModeType == FlushModeType.COMMIT) {
        getSession().setFlushMode(FlushMode.COMMIT);
    } else {
        throw new AssertionFailure("Unknown FlushModeType: " + flushModeType);
    }
}

public void clear() {
    try {
        getSession().clear();
    } catch (HibernateException he) {
        throw convert(he);
    }
}

public void detach(Object entity) {
    try {
        getSession().evict(entity);
    } catch (HibernateException he) {
        throw convert(he);
    }
}

/**
 * Hibernate can be set in various flush modes that are unknown to
 * JPA 2.0. This method can then return null.
 * If it returns null, do em.unwrap(Session.class).getFlushMode() to get the
 * Hibernate flush mode
 */
public FlushModeType getFlushMode() {
    FlushMode mode = getSession().getFlushMode();
    if ( mode == FlushMode.AUTO ) {
        return FlushModeType.AUTO;
    }
    else if ( mode == FlushMode.COMMIT ) {
        return FlushModeType.COMMIT;
    }
    else {
        // otherwise this is an unknown mode for EJB3
        return null;
    }
}

public void lock(Object entity, LockModeType lockMode) {
    lock( entity, lockMode, null );
}

public void lock(Object entity, LockModeType lockModeType, Map<String, Object> properties) {
    LockOptions lockOptions = null;
    if ( !isTransactionInProgress() ) {
        throw new TransactionRequiredException( "no transaction is in progress" );
    }
    try {
        if ( !contains( entity ) ) {
            throw new IllegalArgumentException( "entity not in the persistence context" );
        }
        lockOptions = getLockRequest( lockModeType, properties );
        getSession().buildLockRequest( lockOptions ).lock( entity );
    }
    catch ( HibernateException he ) {
        throw convert( he, lockOptions );
    }
}

public LockOptions getLockRequest(LockModeType lockModeType, Map<String, Object> properties) {
    LockOptions lockOptions = new LockOptions();
    LockOptions.copy( this.lockOptions, lockOptions );
    lockOptions.setLockMode( getLockMode( lockModeType ) );
    if ( properties != null ) {
        setLockOptions( properties, lockOptions );
    }
    return lockOptions;
}

@SuppressWarnings("deprecation")
private static LockModeType getLockModeType(LockMode lockMode) {
    //TODO check that if we have UPGRADE_NOWAIT we have a timeout of zero?
    return LockModeTypeHelper.getLockModeType( lockMode );
}

private static LockMode getLockMode(LockModeType lockMode) {
    return LockModeTypeHelper.getLockMode( lockMode );
}

public boolean isTransactionInProgress() {
    return ((SessionImplementor) getRawSession() ).isTransactionInProgress();
}

private SessionFactoryImplementor sfi() {
    return (SessionFactoryImplementor) getRawSession().getSessionFactory();
}

protected void markAsRollback() {
    LOG.debugf("Mark transaction for rollback");
    if ( tx.isActive() ) {
        tx.setRollbackOnly();
    } else {
        //no explicit use of the tx. boundaries methods
        if ( PersistenceUnitTransactionType.JTA == transactionType ) {
            TransactionManager transactionManager = sfi().getServiceRegistry().getService( JtaPlatform.class ).retrieveTransactionManager();
            if ( transactionManager == null ) {
                throw new PersistenceException( "Using a JTA persistence context wo setting hibernate.transaction.manager_lookup_class" );
            }
            try {
                if ( transactionManager.getStatus() != Status.STATUS_NO_TRANSACTION ) {
                    transactionManager.setRollbackOnly();
                }
            }
            catch ( SystemException e ) {
                throw new PersistenceException( "Unable to set the JTA transaction as RollbackOnly", e );
            }
        }
        catch ( SystemException e ) {
            throw new PersistenceException( "EntityManager is closed" );
        }
    }
joinTransaction( true );

public <T> T unwrap(Class<T> clazz) {
    if ( Session.class.isAssignableFrom( clazz ) ) {
        return ( T ) getSession();
    }
    if ( SessionImplementor.class.isAssignableFrom( clazz ) ) {
        return ( T ) getSession();
    }
    if ( EntityManager.class.isAssignableFrom( clazz ) ) {
        return ( T ) this;
    }
    throw new PersistenceException( "Hibernate cannot unwrap " + clazz );
}

private void joinTransaction(boolean explicitRequest) {
    if ( transactionType != PersistenceUnitTransactionType.JTA ) {
        if ( explicitRequest ) {
            LOG.callingJoinTransactionOnNonJtaEntityManager();
        }
        return;
    }
    final SessionImplementor session = (SessionImplementor) getSession();
    final TransactionCoordinator transactionCoordinator = session.getTransactionCoordinator();
    final TransactionImplementor transaction = transactionCoordinator.getTransaction();
    transaction.markForJoin();
    transactionCoordinator.pulse();
    transaction.getTransaction().join();
    LOG.debug( "Looking for a JTA transaction to join" );
    if ( ! transactionCoordinator.isTransactionJoinable() ) {
        if ( explicitRequest ) {
            // if this is an explicit join request, log a warning so user can track underlying cause
            // of subsequent exceptions/messages
            LOG.unableToJoinTransaction(Environment.TRANSACTION_STRATEGY);
        }
    }
    try {
        if ( transaction.getJoinStatus() == JoinStatus.JOINED ) {
            LOG.debug( "Transaction already joined" );
            return; // noop
        }
    } catch ( Exception e ) {
        throw new PersistenceException( "Could not join transaction" );
    }
    // join the transaction and then recheck the status
transaction.join();
if ( transaction.getJoinStatus() == JoinStatus.NOT_JOINED ) {
    if ( explicitRequest ) {
        throw new TransactionRequiredException( "No active JTA transaction on joinTransaction call" );
    } else {
        LOG.debug( "Unable to join JTA transaction" );
        return;
    }
} else if ( transaction.getJoinStatus() == JoinStatus.MARKED_FOR_JOINED ) {
    throw new AssertionFailure( "Transaction MARKED_FOR_JOINED after isOpen() call" );
}

// register behavior changes
SynchronizationCallbackCoordinator callbackCoordinator =
    transactionCoordinator.getSynchronizationCallbackCoordinator();
callbackCoordinator.setManagedFlushChecker( new ManagedFlushCheckerImpl() );
callbackCoordinator.setExceptionMapper( new CallbackExceptionMapperImpl() );
callbackCoordinator.setAfterCompletionAction( new AfterCompletionActionImpl( session, transactionType ) );
}
catch ( HibernateException he ) {
    throw convert( he );
}

/**
 * returns the underlying session
 */
public Object getDelegate() {
    return getSession();
}

private void writeObject(ObjectOutputStream oos) throws IOException {
    oos.defaultWriteObject();
}

private void readObject(ObjectInputStream ois) throws IOException, ClassNotFoundException {
    ois.defaultReadObject();
    tx = new TransactionImpl( this );
}

/**
 * @inheritdoc
 */
public void handlePersistenceException(PersistenceException e) {
    if ( e instanceof NoResultException ) {
        return;
    }
}
if ( e instanceof NonUniqueResultException ) {
    return;
}
if ( e instanceof LockTimeoutException ) {
    return;
}
if ( e instanceof QueryTimeoutException ) {
    return;
}

try {
    markAsRollback();
} catch ( Exception ne ) {
    //we do not want the subsequent exception to swallow the original one
    LOG.unableToMarkForRollbackOnPersistenceException(ne);
}

/**
 * {@inheritDoc}
 */
public void throwPersistenceException(PersistenceException e) {
    handlePersistenceException(e);
    throw e;
}

/**
 * {@inheritDoc}
 */
//FIXME should we remove all calls to this method and use convert(RuntimeException) ?
public RuntimeException convert(HibernateException e) {
    return convert(e, null);
}

public RuntimeException convert(RuntimeException e) {
    RuntimeException result = e;
    if ( e instanceof HibernateException ) {
        result = convert( (HibernateException) e );
    } else {
        markAsRollback();
    }
    return result;
}

/**
public RuntimeException convert(HibernateException e, LockOptions lockOptions) {
  if (e instanceof StaleStateException) {
    PersistenceException converted = wrapStaleStateException((StaleStateException) e);
    handlePersistenceException(converted);
    return converted;
  }
  else if (e instanceof LockingStrategyException) {
    PersistenceException converted = wrapLockException(e, lockOptions);
    handlePersistenceException(converted);
    return converted;
  }
  else if (e instanceof org.hibernate.exception.LockTimeoutException) {
    PersistenceException converted = wrapLockException(e, lockOptions);
    handlePersistenceException(converted);
    return converted;
  }
  else if (e instanceof org.hibernate.PessimisticLockException) {
    PersistenceException converted = wrapLockException(e, lockOptions);
    handlePersistenceException(converted);
    return converted;
  }
  else if (e instanceof org.hibernate.QueryTimeoutException) {
    QueryTimeoutException converted = new QueryTimeoutException(e.getMessage(), e);
    handlePersistenceException(converted);
    return converted;
  }
  else if (e instanceof ObjectNotFoundException) {
    EntityNotFoundException converted = new EntityNotFoundException(e.getMessage());
    handlePersistenceException(converted);
    return converted;
  }
  else if (e instanceof org.hibernate.NonUniqueObjectException) {
    EntityExistsException converted = new EntityExistsException(e.getMessage());
    handlePersistenceException(converted);
    return converted;
  }
  else if (e instanceof org.hibernate.NonUniqueResultException) {
    NonUniqueResultException converted = new NonUniqueResultException(e.getMessage());
    handlePersistenceException(converted);
    return converted;
  }
  else if (e instanceof UnresolvableObjectException) {
    EntityNotFoundException converted = new EntityNotFoundException(e.getMessage());
    handlePersistenceException(converted);
    return converted;
  }
}
else if ( e instanceof QueryException ) {
    return new IllegalArgumentException( e );
}
else if ( e instanceof TransientObjectException ) {
    try {
        markAsRollback();
    } catch ( Exception ne ) {
        //we do not want the subsequent exception to swallow the original one
        LOG.unableToMarkForRollbackOnTransientObjectException(ne);
    }
    return new IllegalStateException( e ); //Spec 3.2.3 Synchronization rules
} else {
    PersistenceException converted = new PersistenceException( e );
    handlePersistenceException( converted );
    return converted;
}

/**
 * {@inheritDoc}
 */
public void throwPersistenceException(HibernateException e) {
    throw convert( e );
}

/**
 * {@inheritDoc}
 */
public PersistenceException wrapStaleStateException(StaleStateException e) {
    PersistenceException pe;
    if ( e instanceof StaleObjectStateException ) {
        StaleObjectStateException sose = ( StaleObjectStateException ) e;
        Serializable identifier = sose.getIdentifier();
        if ( identifier != null ) {
            try {
                Object entity = getRawSession().load( sose.getEntityName(), identifier );
                if ( entity instanceof Serializable ) {
                    //avoid some user errors regarding boundary crossing
                    pe = new OptimisticLockException( null, e, entity );
                } else {
                    pe = new OptimisticLockException( e );
                }
            } catch ( EntityNotFoundException enfe ) {
                pe = new OptimisticLockException( e );
            }
        }
    }
    catch ( EntityNotFoundException enfe ) {
        pe = new OptimisticLockException( e );
    }
    return pe;
}
public PersistenceException wrapLockException(HibernateException e, LockOptions lockOptions) {
    final PersistenceException pe;
    if ( e instanceof OptimisticEntityLockException ) {
        final OptimisticEntityLockException lockException = (OptimisticEntityLockException) e;
        pe = new OptimisticLockException( lockException.getMessage(), lockException, lockException.getEntity() );
    } else if ( e instanceof org.hibernate.exception.LockTimeoutException ) {
        pe = new LockTimeoutException( e.getMessage(), e, null );
    } else if ( e instanceof PessimisticEntityLockException ) {
        PessimisticEntityLockException lockException = (PessimisticEntityLockException) e;
        if ( lockOptions != null && lockOptions.getTimeOut() > -1 ) {
            // assume lock timeout occurred if a timeout or NO WAIT was specified
            pe = new LockTimeoutException( lockException.getMessage(), lockException, lockException.getEntity() );
        } else {
            pe = new PessimisticLockException( lockException.getMessage(), lockException, lockException.getEntity() );
        }
    } else if ( e instanceof org.hibernate.PessimisticLockException ) {
        org.hibernate.PessimisticLockException jdbcLockException = ( org.hibernate.PessimisticLockException ) e;
        if ( lockOptions != null && lockOptions.getTimeOut() > -1 ) {
            // assume lock timeout occurred if a timeout or NO WAIT was specified
            pe = new LockTimeoutException( jdbcLockException.getMessage(), jdbcLockException, null );
        } else {
            pe = new PessimisticLockException( jdbcLockException.getMessage(), jdbcLockException, null );
        }
    } else {
        pe = new OptimisticLockException( e );
    }
    return pe;
}

private static class AfterCompletionActionImpl implements AfterCompletionAction {
private final SessionImplementor session;
private final PersistenceUnitTransactionType transactionType;

private AfterCompletionActionImpl(SessionImplementor session, PersistenceUnitTransactionType transactionType) {
    this.session = session;
    this.transactionType = transactionType;
}

@Override
public void doAction(TransactionCoordinator transactionCoordinator, int status) {
    if (session.isClosed()) {
        LOG.trace("Session was closed; nothing to do");
        return;
    }

    final boolean successful = JtaStatusHelper.isCommitted(status);
    if (!successful && transactionType == PersistenceUnitTransactionType.JTA) {
        ((Session) session).clear();
    }
    session.getTransactionCoordinator().resetJoinStatus();
}

private static class ManagedFlushCheckerImpl implements ManagedFlushChecker {
    @Override
    public boolean shouldDoManagedFlush(TransactionCoordinator coordinator, int jtaStatus) {
        return !coordinator.getTransactionContext().isClosed() &&
            !coordinator.getTransactionContext().isFlushModeNever() &&
            !JtaStatusHelper.isRollback(jtaStatus);
    }
}

private class CallbackExceptionMapperImpl implements ExceptionMapper {
    @Override
    public RuntimeException mapStatusCheckFailure(String message, SystemException systemException) {
        throw new PersistenceException(message, systemException);
    }

    @Override
    public RuntimeException mapManagedFlushFailure(String message, RuntimeException failure) {
        if (HibernateException.class.isInstance(failure)) {
            throw convert(failure);
        }
        if (PersistenceException.class.isInstance(failure)) {
            throw failure;
        }
        throw new PersistenceException(message, failure);
    }
}
package org.hibernate.ejb;

import java.util.List;
import java.util.Map;
import javax.persistence.LockModeType;
import javax.persistence.PersistenceException;
import javax.persistence.TypedQuery;
import javax.persistence.criteria.Selection;
import org.hibernate.HibernateException;
import org.hibernate.LockOptions;
import org.hibernate.StaleStateException;
import org.hibernate.ejb.criteria.ValueHandlerFactory;
import org.hibernate.type.Type;

/**
 * Additional internal contracts for the Hibernate { @link javax.persistence.EntityManager } implementation.
 *
 * @author Emmanuel Bernard
 * @author Steve Ebersole
 */

public interface HibernateEntityManagerImplementor extends HibernateEntityManager {

}
/**
 * Get access to the Hibernate extended EMF contract.
 *
 * @return The Hibernate EMF contract for this EM.
 */
public HibernateEntityManagerFactory getFactory();

/**
 * Provides access to whether a transaction is currently in progress.
 *
 * @return True if a transaction is considered currently in progress; false otherwise.
 */
boolean isTransactionInProgress();

/**
 * Handles marking for rollback and other such operations that need to occur depending on the type of
 * exception being handled.
 *
 * @param e The exception being handled.
 */
public void handlePersistenceException(PersistenceException e);

/**
 * Delegates to { @link #handlePersistenceException} and then throws the given exception.
 *
 * @param e The exception being handled and finally thrown.
 */
public void throwPersistenceException(PersistenceException e);

/**
 * Converts a Hibernate-specific exception into a JPA-specified exception; note that the JPA sepcification makes use
 * of exceptions outside its exception hierarchy, though they are all runtime exceptions.
 * <p/>
 * Any appropriate/needed calls to { @link #handlePersistenceException} are also made.
 *
 * @param e The Hibernate exception.
 * @param lockOptions The lock options in effect at the time of exception (can be null)
 */
public RuntimeException convert(HibernateException e, LockOptions lockOptions);

/**
 * Converts a Hibernate-specific exception into a JPA-specified exception; note that the JPA sepcification makes use
 * of exceptions outside its exception hierarchy, though they are all runtime exceptions.
 * <p/>
 * Any appropriate/needed calls to { @link #handlePersistenceException} are also made.
 */
* @param e The Hibernate exception.
  *
* @return The JPA-specified exception
 */
public RuntimeException convert(HibernateException e);

/**
 * Delegates to {@link #convert} and then throws the given exception.
 * 
 * @param e The exception being handled and finally thrown.
 */
public void throwPersistenceException(HibernateException e);

public PersistenceException wrapStaleStateException(StaleStateException e);

/**
 * Convert from JPA 2 { @link LockModeType} & properties into { @link LockOptions}
 * 
 * @param lockModeType is the requested lock type
 * @param properties are the lock properties
 * 
 * @return the LockOptions
 */
public LockOptions getLockRequest(LockModeType lockModeType, Map<String, Object> properties);

public static interface Options {
  public static interface ResultMetadataValidator {
    public void validate(Type[] returnTypes);
  }

  /**
   * Get the conversions for the individual tuples in the query results.
   * 
   * @return Value conversions to be applied to the JPA QL results
   */
  public List<ValueHandlerFactory.ValueHandler> getValueHandlers();

  /**
   * Get the explicit parameter types. Generally speaking these would apply to implicit named
   * parameters.
   * 
   * @return The
   */
  public Map<String, Class> getNamedParameterExplicitTypes();
}

public ResultMetadataValidator getResultMetadataValidator();
/**
 * Used during "compiling" a JPA criteria query.
 *
 * @param jpaqlString The criteria query rendered as a JPA QL string
 * @param resultClass The result type (the type expected in the result list)
 * @param selection The selection(s)
 * @param options The options to use to build the query.
 * @param <T> The query type
 *
 * @return The typed query
 */

public <T> TypedQuery<T> createQuery(String jpaqlString, Class<T> resultClass, Selection selection, Options options);
}

/*
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 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */

//$Id$
package org.hibernate.ejb;

import javax.persistence.EntityTransaction;
import javax.persistence.PersistenceException;
import javax.persistence.RollbackException;
import org.hibernate.HibernateException;
import org.hibernate.Transaction;

import org.hibernate.HibernateException;
import org.hibernate.Session;
import org.hibernate.Transaction;

/**
public class TransactionImpl implements EntityTransaction {

    private HibernateEntityManagerImplementor entityManager;
    private Transaction tx;
    private boolean rollbackOnly;

    public TransactionImpl(AbstractEntityManagerImpl entityManager) {
        this.entityManager = entityManager;
    }

    private Session getSession() {
        return entityManager.getSession();
    }

    public void begin() {
        try {
            rollbackOnly = false;
            if ( tx != null && tx.isActive() ) {
                throw new IllegalStateException( "Transaction already active" );
            }
            //entityManager.adjustFlushMode();
            tx = getSession().beginTransaction();
        }
        catch (HibernateException he) {
            entityManager.throwPersistenceException( he );
        }
    }

    public void commit() {
        if ( tx == null || !tx.isActive() ) {
            throw new IllegalStateException( "Transaction not active" );
        }
        if ( rollbackOnly ) {
            tx.rollback();
            throw new RollbackException( "Transaction marked as rollbackOnly" );
        }
        try {
            tx.commit();
        }
        catch (Exception e) {
            Exception wrappedException;
            if ( e instanceof HibernateException ) {
                wrappedException = entityManager.convert( (HibernateException)e );
            }
            else {
                
            }
        }
    }
}
wrappedException = e;
}
try {
    //as per the spec we should rollback if commit fails
    tx.rollback();
} catch (Exception re) {
    //swallow
    
    throw new RollbackException( "Error while committing the transaction", wrappedException );
} finally {
    rollbackOnly = false;
}
//if closed and we commit, the mode should have been adjusted already
//if ( entityManager.isOpen() ) entityManager.adjustFlushMode();

public void rollback() {
    if ( tx == null || !tx.isActive() ) {
        throw new IllegalStateException( "Transaction not active" );
    }
    try {
        tx.rollback();
    } catch (Exception e) {
        throw new PersistenceException( "unexpected error when rollbacking", e );
    } finally {
        try {
            if (entityManager != null) {
                Session session = getSession();
                if ( session != null && session.isOpen() ) session.clear();
            }
        } catch (Throwable t) {
            //we don't really care here since it's only for safety purpose
        }
        rollbackOnly = false;
    }
}

public void setRollbackOnly() {
    if (!isActive()) throw new IllegalStateException( "Transaction not active" );
    this.rollbackOnly = true;
}

public boolean getRollbackOnly() {
if (!isActive()) throw new IllegalStateException("Transaction not active");
return rollbackOnly;
}

public boolean isActive() {
try {
return tx != null && tx.isActive();
}
catch (RuntimeException e) {
throw new PersistenceException("unexpected error when checking transaction status", e);
}
}

/*
 * Hibernate, Relational Persistence for Idiomatic Java
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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb;

import static javax.persistence.TemporalType.DATE;
import static javax.persistence.TemporalType.TIME;
import static javax.persistence.TemporalType.TIMESTAMP;
import java.util.Calendar;
import java.util.Collection;
import java.util.Collections;
import java.util.Date;
import java.util.HashSet;

import static java.util.Calendar;
import static java.util.Collection;
import static java.util.Collections;
import static java.util.Date;
import static java.util.HashSet;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.List;
import java.util.Map;
import java.util.Set;
import javax.persistence.NoResultException;
import javax.persistence.NonUniqueResultException;
import javax.persistence.Parameter;
import javax.persistence.PersistenceException;
import javax.persistence.Query;
import javax.persistence.TemporalType;
import javax.persistence.TransactionRequiredException;
import javax.persistence.TypedQuery;
import org.hibernate.CacheMode;
import org.hibernate.FlushMode;
import org.hibernate.HibernateException;
import org.hibernate.LockMode;
import org.hibernate.QueryParameterException;
import org.hibernate.TypeMismatchException;
import org.hibernate.ejb.internal.EntityManagerMessageLogger;
import org.hibernate.ejb.util.ConfigurationHelper;
import org.hibernate.ejb.util.LockModeTypeHelper;
import org.hibernate.engine.query.spi.NamedParameterDescriptor;
import org.hibernate.engine.query.spi.OrdinalParameterDescriptor;
import org.hibernate.engine.spi.SessionFactoryImplementor;
import org.hibernate.hql.internal.QueryExecutionRequestException;
import org.hibernate.internal.AbstractQueryImpl;
import org.hibernate.internal.SQLQueryImpl;
import org.hibernate.type.CompositeCustomType;
import org.hibernate.type.Type;
import org.jboss.logging.Logger;

/**
 * Hibernate implementation of both the {@link Query} and {@link TypedQuery} contracts.
 * @author <a href="mailto:gavin@hibernate.org">Gavin King</a>
 * @author Emmanuel Bernard
 * @author Steve Ebersole
 */
public class QueryImpl<X> extends org.hibernate.ejb.AbstractQueryImpl<X> implements TypedQuery<X>, HibernateQuery {

    public static final EntityManagerMessageLogger LOG =
    Logger.getMessageLogger(EntityManagerMessageLogger.class, QueryImpl.class.getName());

    private AbstractQueryImpl query;
    private Set<Integer> jpaPositionalIndices;
    private Set<Parameter<?>> parameters;

public QueryImpl(org.hibernate.Query query, AbstractEntityManagerImpl em) {
    this( query, em, Collections.<String, Class>emptyMap() );
}

public QueryImpl(
    org.hibernate.Query query,
    AbstractEntityManagerImpl em,
    Map<String,Class> namedParameterTypeRedefinitions) {
    super( em);
    if ( ! AbstractQueryImpl.class.isInstance( query ) ) {
        throw new IllegalStateException( String.format( "Unknown query type [%s]", query.getClass().getName() ) );
    }
    this.query = (AbstractQueryImpl) query;
    extractParameterInfo( namedParameterTypeRedefinitions );
}

@SuppressWarnings({ "unchecked", "RedundantCast" })
private void extractParameterInfo(Map<String,Class> namedParameterTypeRedefinition) {
    if ( ! AbstractQueryImpl.class.isInstance( query ) ) {
        throw new IllegalStateException( "Unknown query type for parameter extraction" );
    }
    HashSet<Parameter<?>> parameters = new HashSet<Parameter<?>>( );
    AbstractQueryImpl queryImpl = AbstractQueryImpl.class.cast( query );

    // extract named params
    for ( String name : (Set<String>) queryImpl.getParameterMetadata().getNamedParameterNames() ) {
        final NamedParameterDescriptor descriptor =
            queryImpl.getParameterMetadata().getNamedParameterDescriptor( name );
        Class javaType = namedParameterTypeRedefinition.get( name );
        if ( javaType != null && mightNeedRedefinition( javaType, descriptor.getExpectedType() ) ) {
            descriptor.resetExpectedType( sfi().getTypeResolver().heuristicType( javaType.getName() ) );
        }
        else if ( descriptor.getExpectedType() != null ) {
            javaType = descriptor.getExpectedType().getReturnedClass();
        }
        final ParameterImpl parameter = new ParameterImpl( name, javaType );
        parameters.add( parameter );
        if ( descriptor.isJpaStyle() ) {
            if ( jpaPositionalIndices == null ) {
                jpaPositionalIndices = new HashSet<Integer>();
            }
            jpaPositionalIndices.add( Integer.valueOf( name ) );
        }
    }
}
// extract positional parameters
for ( int i = 0, max = queryImpl.getParameterMetadata().getOrdinalParameterCount(); i < max; i++ ) {
    final OrdinalParameterDescriptor descriptor = queryImpl.getParameterMetadata().getOrdinalParameterDescriptor( i+1 );
    ParameterImpl parameter = new ParameterImpl( i + 1,
        descriptor.getExpectedType() == null ? null : descriptor.getExpectedType().getReturnedClass()
    );
    parameters.add( parameter );
    Integer position = descriptor.getOrdinalPosition();
    if (jpaPositionalIndices != null && jpaPositionalIndices.contains(position))
        LOG.parameterPositionOccurredAsBothJpaAndHibernatePositionalParameter(position);
}

this.parameters = java.util.Collections.unmodifiableSet( parameters );

private SessionFactoryImplementor sfi() {
    return (SessionFactoryImplementor) getEntityManager().getFactory().getSessionFactory();
}

private boolean mightNeedRedefinition(Class javaType, Type expectedType) {
    // only redefine dates/times/timestamps that are not wrapped in a CompositeCustomType
    if (expectedType == null)
        return java.util.Date.class.isAssignableFrom( javaType );
    else
        return java.util.Date.class.isAssignableFrom( javaType ) && !CompositeCustomType.class.isAssignableFrom( expectedType.getClass() );
}

private static class ParameterImpl implements Parameter {
    private final String name;
    private final Integer position;
    private final Class javaType;

    private ParameterImpl(String name, Class javaType) {
        this.name = name;
        this.javaType = javaType;
        this.position = null;
    }

    private ParameterImpl(Integer position, Class javaType) {
        this.position = position;
    }
}
this.javaType = javaType;
this.name = null;
}

public String getName() {
    return name;
}

public Integer getPosition() {
    return position;
}

public Class getParameterType() {
    return javaType;
}

public org.hibernate.Query getHibernateQuery() {
    return query;
}

@Override
protected int internalExecuteUpdate() {
    return query.executeUpdate();
}

@Override
protected void applyMaxResults(int maxResults) {
    query.setMaxResults(maxResults);
}

@Override
protected void applyFirstResult(int firstResult) {
    query.setFirstResult(firstResult);
}

@Override
protected void applyTimeout(int timeout) {
    query.setComment(comment);
}

@Override
protected void applyFetchSize(int fetchSize) {

query.setFetchSize(fetchSize);

@Override
protected void applyCacheable(boolean isCacheable) {
query.setCacheable(isCacheable);
}

@Override
protected void applyCacheRegion(String regionName) {
query.setCacheRegion(regionName);
}

@Override
protected void applyReadOnly(boolean isReadOnly) {
query.setReadOnly(isReadOnly);
}

@Override
protected void applyCacheMode(CacheMode cacheMode) {
query.setCacheMode(cacheMode);
}

@Override
protected void applyFlushMode(FlushMode flushMode) {
query.setFlushMode(flushMode);
}

@Override
protected boolean canApplyLockModes() {
return org.hibernate.internal.QueryImpl.class.isInstance(query) || SQLQueryImpl.class.isInstance(query);
}

@Override
protected void applyAliasSpecificLockMode(String alias, LockMode lockMode) {
query.getLockOptions().setAliasSpecificLockMode(alias, lockMode);
}

/**
 * @inheritDoc
 */
@SuppressWarnings({'unchecked', 'RedundantCast'})
public List<X> getResultList() {
try {
return query.list();
}
catch (QueryExecutionRequestException he) {
throw new IllegalStateException(he);
} catch( TypeMismatchException e ) {
throw new IllegalArgumentException(e);
} catch (HibernateException he) {
throw getEntityManager().convert( he );
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked", "RedundantCast" })
public X getSingleResult() {
try {
final List<X> result = query.list();

if ( result.size() == 0 ) {
    NoResultException nre = new NoResultException( "No entity found for query" );
    getEntityManager().handlePersistenceException(nre);
    throw nre;
} else if ( result.size() > 1 ) {
    final Set<X> uniqueResult = new HashSet<X>(result);
    if ( uniqueResult.size() > 1 ) {
        NonUniqueResultException nure = new NonUniqueResultException( "result returns more than one elements" );
        getEntityManager().handlePersistenceException(nure);
        throw nure;
    } else {
        return uniqueResult.iterator().next();
    }
} else {
    return result.get( 0 );
}
}

catch (QueryExecutionRequestException he) {
throw new IllegalStateException(he);
}
catch( TypeMismatchException e ) {
throw new IllegalArgumentException(e);
}
catch (HibernateException he) {
throw getEntityManager().convert( he );
}
public <T> TypedQuery<X> setParameter(Parameter<T> param, T value) {
    if (!parameters.contains(param)) {
        throw new IllegalArgumentException("Specified parameter was not found in query");
    }
    if (param.getName() != null) {
        // a named param, for not delegate out. Eventually delegate *into* this method...
        setParameter(param.getName(), value);
    } else {
        setParameter(param.getPosition(), value);
    }
    return this;
}

public TypedQuery<X> setParameter(Parameter<Date> param, Date value, TemporalType temporalType) {
    if (!parameters.contains(param)) {
        throw new IllegalArgumentException("Specified parameter was not found in query");
    }
    if (param.getName() != null) {
        // a named param, for not delegate out. Eventually delegate *into* this method...
        setParameter(param.getName(), value, temporalType);
    } else {
        setParameter(param.getPosition(), value, temporalType);
    }
    return this;
}

public TypedQuery<X> setParameter(Parameter<Calendar> param, Calendar value, TemporalType temporalType) {
    if (!parameters.contains(param)) {
        throw new IllegalArgumentException("Specified parameter was not found in query");
    }
    if (param.getName() != null) {
        // a named param, for not delegate out. Eventually delegate *into* this method...
        setParameter(param.getName(), value, temporalType);
    } else {
        setParameter(param.getPosition(), value, temporalType);
    }
    return this;
}

/**
 * @inheritdoc
 */
public TypedQuery<X> setParameter(String name, Object value) {
try {
if ( value instanceof Collection ) {
    query.setParameterList( name, (Collection) value );
} else {
    query.setParameter( name, value );
}
registerParameterBinding( getParameter( name ), value );
return this;
}
catch (QueryParameterException e) {
    throw new IllegalArgumentException( e );
}
catch (HibernateException he) {
    throw getEntityManager().convert( he );
}
}

/**
 * {@inheritDoc}
 */
public TypedQuery<X> setParameter(String name, Date value, TemporalType temporalType) {
    try {
        if ( temporalType == DATE ) {
            query.setDate( name, value );
        } else if ( temporalType == TIME ) {
            query.setTime( name, value );
        } else if ( temporalType == TIMESTAMP ) {
            query.setTimestamp( name, value );
        }
        registerParameterBinding( getParameter( name ), value );
        return this;
    }
catch (QueryParameterException e) {
        throw new IllegalArgumentException( e );
    }
catch (HibernateException he) {
        throw getEntityManager().convert( he );
    }
}

/**
 * {@inheritDoc}
 */
public TypedQuery<X> setParameter(String name, Calendar value, TemporalType temporalType) {
    try {
if ( temporalType == DATE ) {
    query.setCalendarDate( name, value );
}
else if ( temporalType == TIME ) {
    throw new IllegalArgumentException( "not yet implemented" );
}
else if ( temporalType == TIMESTAMP ) {
    query.setCalendar( name, value );
}
registerParameterBinding( getParameter(name), value );
return this;
}
catch (QueryParameterException e) {
    throw new IllegalArgumentException( e );
}
catch (HibernateException he) {
    throw getEntityManager().convert( he );
}

/**
 * {@inheritDoc}
 */
public TypedQuery<X> setParameter(int position, Object value) {
    try {
        if ( isJpaPositionalParameter( position ) ) {
            this.setParameter( Integer.toString( position ), value );
        }
        else {
            query.setParameter( position - 1, value );
            registerParameterBinding( getParameter( position ), value );
        }
        return this;
    }
catch (QueryParameterException e) {
        throw new IllegalArgumentException( e );
    }
catch (HibernateException he) {
        throw getEntityManager().convert( he );
    }
}

private boolean isJpaPositionalParameter(int position) {
    return jpaPositionalIndices != null && jpaPositionalIndices.contains( position );
}

/**
 * @inheritdoc
 */
public TypedQuery<X> setParameter(int position, Date value, TemporalType temporalType) {
    try {
        if (isJpaPositionalParameter(position)) {
            String name = Integer.toString(position);
            this.setParameter(name, value, temporalType);
        } else {
            if (temporalType == DATE) {
                query.setDate(position - 1, value);
            } else if (temporalType == TIME) {
                query.setTime(position - 1, value);
            } else if (temporalType == TIMESTAMP) {
                query.setTimestamp(position - 1, value);
            }
            registerParameterBinding(getParameter(position), value);
        }
        return this;
    }
    catch (QueryParameterException e) {
        throw new IllegalArgumentException(e);
    }
    catch (HibernateException he) {
        throw getEntityManager().convert(he);
    }
    }

/**
* {@inheritDoc}
*/
public TypedQuery<X> setParameter(int position, Calendar value, TemporalType temporalType) {
    try {
        if (isJpaPositionalParameter(position)) {
            String name = Integer.toString(position);
            this.setParameter(name, value, temporalType);
        } else {
            if (temporalType == DATE) {
                query.setCalendarDate(position - 1, value);
            } else if (temporalType == TIME) {
                throw new IllegalArgumentException("not yet implemented");
            } else if (temporalType == TIMESTAMP) {
                query.setCalendar(position - 1, value);
            }
            registerParameterBinding(getParameter(position), value);
        }
    }
    catch (QueryParameterException e) {
        throw new IllegalArgumentException(e);
    }
    catch (HibernateException he) {
        throw getEntityManager().convert(he);
    }
    }

registerParameterBinding( getParameter( position ), value );
}
return this;
}
catch (QueryParameterException e) {
throw new IllegalArgumentException( e );
}
catch (HibernateException he) {
throw getEntityManager().convert( he );
}

/**
 * @inheritDoc
 */
public Set<Parameter<?>> getParameters() {
return parameters;
}

/**
 * @inheritDoc
 */
public Parameter<?> getParameter(String name) {
if ( name == null ) {
throw new IllegalArgumentException( "Name of parameter to locate cannot be null" );
}
for ( Parameter parameter : parameters ) {
if ( name.equals( parameter.getName() ) ) {
return parameter;
}
}
throw new IllegalArgumentException( "Unable to locate parameter named [" + name + "]" );
}

/**
 * @inheritDoc
 */
public Parameter<?> getParameter(int position) {
if ( isJpaPositionalParameter( position ) ) {
return getParameter( Integer.toString( position ) );
}
else {
for ( Parameter parameter : parameters ) {
if ( parameter.getPosition() != null && position == parameter.getPosition() ) {
return parameter;
}
}
throw new IllegalArgumentException( "Unable to locate parameter with position [" + position + "]" );
}
/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public <T> Parameter<T> getParameter(String name, Class<T> type) {
    Parameter param = getParameter( name );
    if ( param.getParameterType() != null ) {
        // we were able to determine the expected type during analysis, so validate it here
        throw new IllegalArgumentException(
            "Parameter type 
[" + param.getParameterType().getName() + "] is not assignment compatible with requested type 
[" + type.getName() + "]"
        );
    }
    return param;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public <T> Parameter<T> getParameter(int position, Class<T> type) {
    Parameter param = getParameter( position );
    if ( param.getParameterType() != null ) {
        // we were able to determine the expected type during analysis, so validate it here
        throw new IllegalArgumentException(
            "Parameter type 
[" + param.getParameterType().getName() + "] is not assignment compatible with requested type 
[" + type.getName() + "]"
        );
    }
    return param;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public <T> T unwrap(Class<T> tClass) {
    if ( org.hibernate.Query.class.isAssignableFrom( tClass ) ) {
        return (T) query;
    } else {
        try {
            return (T) this;
        } finally {
            this = null;
        }
    }
}
private javax.persistence.LockModeType jpaLockMode = javax.persistence.LockModeType.NONE;

@Override
@SuppressWarnings("unchecked")
public TypedQuery<X> setLockMode(javax.persistence.LockModeType lockModeType) {
    if (!getEntityManager().isTransactionInProgress()) {
        throw new TransactionRequiredException( "no transaction is in progress" );
    }
    if (!canApplyLockModes()) {
        throw new IllegalStateException( "Not a JPAQL/Criteria query" );
    }
    this.jpaLockMode = lockModeType;
    query.getLockOptions().setLockMode( LockModeTypeHelper.getLockMode( lockModeType ) );
    if (getHints() != null && getHints().containsKey(AvailableSettings.LOCK_TIMEOUT)) {
        applyLockTimeout( ConfigurationHelper.getInteger( getHints().get( AvailableSettings.LOCK_TIMEOUT ) ) );
    }
    return this;
}

@override
protected void applyLockTimeout(int timeout) {
    query.getLockOptions().setTimeOut( timeout );
}

@Override
public javax.persistence.LockModeType getLockMode() {
    return jpaLockMode;
}

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 * statements applied by the authors. All third-party contributions are
package org.hibernate.ejb;

import java.io.IOException;
import java.io.InvalidObjectException;
import java.io.ObjectOutputStream;
import java.io.Serializable;
import java.util.Collections;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;
import java.util.Properties;
import javax.persistence.Cache;
import javax.persistence.EntityManager;
import javax.persistence.EntityManagerFactory;
import javax.persistence.PersistenceContextType;
import javax.persistence.PersistenceUnitUtil;
import javax.persistence.criteria.CriteriaBuilder;
import javax.persistence.metamodel.Metamodel;
import javax.persistence.spi.LoadState;
import javax.persistence.spi.PersistenceUnitTransactionType;
import org.jboss.logging.Logger;
import org.hibernate.Hibernate;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.internal.EntityManagerFactoryRegistry;
import org.hibernate.ejb.metamodel.MetamodelImpl;
import org.hibernate.ejb.util.PersistenceUtilHelper;
import org.hibernate.engine.spi.SessionFactoryImplementor;

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  * Boston, MA  02110-1301  USA
*/
import org.hibernate.id.IdentifierGenerator;
import org.hibernate.id.UUIDGenerator;
import org.hibernate.internal.SessionFactoryImpl;
import org.hibernate.mapping.PersistentClass;
import org.hibernate.util.config.ConfigurationHelper;
import org.hibernate.metadata.ClassMetadata;
import org.hibernate.service.ServiceRegistry;

/**
 * Actual Hibernate implementation of [javax.persistence.EntityManagerFactory].
 *
 * @author Gavin King
 * @author Emmanuel Bernard
 * @author Steve Ebersole
 */
public class EntityManagerFactoryImpl implements HibernateEntityManagerFactory {
  private static final long serialVersionUID = 5423543L;
  private static final IdentifierGenerator UUID_GENERATOR = UUIDGenerator.buildSessionFactoryUniqueIdentifierGenerator();
  private static final Logger log = Logger.getLogger( EntityManagerFactoryImpl.class );

  private final transient SessionFactoryImpl sessionFactory;
  private final transient PersistenceUnitTransactionType transactionType;
  private final transient boolean discardOnClose;
  private final transient Class sessionInterceptorClass;
  private final transient CriteriaBuilderImpl criteriaBuilder;
  private final transient Metamodel metamodel;
  private final transient HibernatePersistenceUnitUtil util;
  private final transient Map<String,Object> properties;
  private final String entityManagerFactoryName;


  @SuppressWarnings( "unchecked" )
  public EntityManagerFactoryImpl( PersistenceUnitTransactionType transactionType,
    boolean discardOnClose,
    Class sessionInterceptorClass,
    Configuration cfg,
    ServiceRegistry serviceRegistry,
    String persistenceUnitName) {
    this.sessionFactory = (SessionFactoryImpl) cfg.buildSessionFactory( serviceRegistry );
    this.transactionType = transactionType;
    this.discardOnClose = discardOnClose;
    this.sessionInterceptorClass = sessionInterceptorClass;
    final Iterator<PersistentClass> classes = cfg.getClassMappings();
  final JpaMetaModelPopulationSetting jpaMetaModelPopulationSetting =

determineJpaMetaModelPopulationSetting( cfg );
if ( JpaMetaModelPopulationSetting.DISABLED == jpaMetaModelPopulationSetting ) {
this.metamodel = null;
}
else {
this.metamodel = MetamodelImpl.buildMetamodel( classes,
( SessionFactoryImplementor ) sessionFactory,
JpaMetaModelPopulationSetting.IGNORE_UNSUPPORTED == jpaMetaModelPopulationSetting );
}
this.criteriaBuilder = new CriteriaBuilderImpl( this );
this.util = new HibernatePersistenceUnitUtil( this );

HashMap<String, Object> props = new HashMap<String, Object>();
addAll( props, ( (SessionFactoryImplementor) sessionFactory ).getProperties() );
addAll( props, cfg.getProperties() );
maskOutSensitiveInformation( props );
this.properties = Collections.unmodifiableMap( props );
String entityManagerFactoryName =
(String)this.properties.get(AvailableSettings.ENTITY_MANAGER_FACTORY_NAME);
if (entityManagerFactoryName == null) {
entityManagerFactoryName = persistenceUnitName;
}
if (entityManagerFactoryName == null) {
entityManagerFactoryName = (String) UUID_GENERATOR.generate(null, null);
}
this.entityManagerFactoryName = entityManagerFactoryName;
EntityManagerFactoryRegistry.INSTANCE.addEntityManagerFactory(entityManagerFactoryName, this);

private enum JpaMetaModelPopulationSetting {
ENABLED,
DISABLED,
IGNORE_UNSUPPORTED;

private static JpaMetaModelPopulationSetting parse(String setting) {
if ( "enabled".equalsIgnoreCase( setting ) ) {
return ENABLED;
}
else if ( "disabled".equalsIgnoreCase( setting ) ) {
return DISABLED;
}
else {
return IGNORE_UNSUPPORTED;
}
}
protected JpaMetaModelPopulationSetting determineJpaMetaModelPopulationSetting(Configuration cfg) {
    String setting = ConfigurationHelper.getString(
        AvailableSettings.JPA_METAMODEL_POPULATION,
        cfg.getProperties(), null
    );
    if (setting == null) {
        setting = ConfigurationHelper.getString(
            AvailableSettings.JPA_METAMODEL_GENERATION,
            cfg.getProperties(), null
        );
        if (setting != null) {
            log.infof("Encountered deprecated setting [\%s], use [\%s] instead",
                AvailableSettings.JPA_METAMODEL_GENERATION,
                AvailableSettings.JPA_METAMODEL_POPULATION
            );
        }
    }
    return JpaMetaModelPopulationSetting.parse(setting);
}

private static void addAll(HashMap<String, Object> propertyMap, Properties properties) {
    for (Map.Entry entry : properties.entrySet()) {
        if (String.class.isInstance(entry.getKey())) {
            propertyMap.put((String)entry.getKey(), entry.getValue());
        }
    }
}

private void maskOutSensitiveInformation(HashMap<String, Object> props) {
    maskOutIfSet(props, AvailableSettings.JDBC_PASSWORD);
    maskOutIfSet(props, org.hibernate.cfg.AvailableSettings.PASS);
}

private void maskOutIfSet(HashMap<String, Object> props, String setting) {
    if (props.containsKey(setting)) {
        props.put(setting, "****");
    }
}

public EntityManager createEntityManager() {
    return createEntityManager(null);
}

public EntityManager createEntityManager(Map map) {
    //TODO support discardOnClose, persistencecontexttype?, interceptor,
    return new EntityManagerImpl(this, PersistenceContextType.EXTENDED, transactionType,
discardOnClose, sessionInterceptorClass, map;
}

public CriteriaBuilder getCriteriaBuilder() {
    return criteriaBuilder;
}

public Metamodel getMetamodel() {
    return metamodel;
}

public void close() {
    sessionFactory.close();
    EntityManagerFactoryRegistry.INSTANCE.removeEntityManagerFactory(entityManagerFactoryName, this);
}

public Map<String, Object> getProperties() {
    return properties;
}

public Cache getCache() {
    // TODO : cache the cache reference?
    if (! isOpen() ) {
        throw new IllegalStateException("EntityManagerFactory is closed");
    }
    return new JPACache( sessionFactory );
}

public PersistenceUnitUtil getPersistenceUnitUtil() {
    if (! isOpen() ) {
        throw new IllegalStateException("EntityManagerFactory is closed");
    }
    return util;
}

public boolean isOpen() {
    return ! sessionFactory.isClosed();
}

public SessionFactoryImpl getSessionFactory() {
    return sessionFactory;
}

public String getEntityManagerFactoryName() {
    return entityManagerFactoryName;
}
private static class JPACache implements Cache {
    private SessionFactory sessionFactory;

    private JPACache(SessionFactory sessionFactory) {
        this.sessionFactory = sessionFactory;
    }

    public boolean contains(Class entityClass, Object identifier) {
        return sessionFactory.getCache().containsEntity(entityClass, (Serializable) identifier);
    }

    public void evict(Class entityClass, Object identifier) {
        sessionFactory.getCache().evictEntity(entityClass, (Serializable) identifier);
    }

    public void evict(Class entityClass) {
        sessionFactory.getCache().evictEntityRegion(entityClass);
    }

    public void evictAll() {
        sessionFactory.getCache().evictEntityRegions();
        // TODO: if we want to allow an optional clearing of all cache data, the additional calls would be:
        //sessionFactory.getCache().evictCollectionRegions();
        //sessionFactory.getCache().evictQueryRegions();
    }
}

private static EntityManagerFactory getNamedEntityManagerFactory(String entityManagerFactoryName) throws InvalidObjectException {
    Object result = EntityManagerFactoryRegistry.INSTANCE.getNamedEntityManagerFactory(entityManagerFactoryName);
    if (result == null) {
        throw new InvalidObjectException("could not resolve entity manager factory during entity manager deserialization
            [name=" + entityManagerFactoryName + "]");
    }

    return (EntityManagerFactory)result;
}

private void writeObject(ObjectOutputStream oos) throws IOException {
    if (entityManagerFactoryName == null) {
        throw new InvalidObjectException("could not serialize entity manager factory with null
            entityManagerFactoryName");
    }

    oos.defaultWriteObject();
}
/**
 * After deserialization of an EntityManagerFactory, this is invoked to return the EntityManagerFactory instance
 * that is already in use rather than a cloned copy of the object.
 *
 * @return
 * @throws InvalidObjectException
 */
private Object readResolve() throws InvalidObjectException {
    return getNamedEntityManagerFactory(entityManagerFactoryName);
}

private static class HibernatePersistenceUnitUtil implements PersistenceUnitUtil, Serializable {
    private final HibernateEntityManagerFactory emf;
    private transient PersistenceUtilHelper.MetadataCache cache;

    private HibernatePersistenceUnitUtil(EntityManagerFactoryImpl emf) {
        this.emf = emf;
        this.cache = emf.cache;
    }

    public boolean isLoaded(Object entity, String attributeName) {
        // added log message to help with HHH-7454, if state == LoadState.NOT_LOADED, returning true or false is not
        // accurate.
        log.debug("PersistenceUnitUtil#isLoaded is not always accurate; consider using EntityManager#contains instead");
        LoadState state = PersistenceUtilHelper.isLoadedWithoutReference( entity, attributeName, cache );
        if (state == LoadState.LOADED) {
            return true;
        }
        else if (state == LoadState.NOT_LOADED) {
            return false;
        }
        else {
            return PersistenceUtilHelper.isLoadedWithReference( entity, attributeName, cache ) != LoadState.NOT_LOADED;
        }
    }

    public boolean isLoaded(Object entity) {
        // added log message to help with HHH-7454, if state == LoadState.NOT_LOADED, returning true or false is not
        // accurate.
        log.debug("PersistenceUnitUtil#isLoaded is not always accurate; consider using EntityManager#contains instead");
        return PersistenceUtilHelper.isLoaded( entity ) != LoadState.NOT_LOADED;
    }

    public Object getIdentifier(Object entity) {
        final Class entityClass = Hibernate.getClass( entity );
        final ClassMetadata classMetadata = emf.getSessionFactory().getClassMetadata( entityClass );
        ...
    }
}
if (classMetadata == null) {
    throw new IllegalArgumentException(entityClass + " is not an entity");
}

//TODO does that work for @IdClass?
return classMetadata.getIdentifier(entity);

package org.hibernate.ejb.criteria;

import javax.persistence.TupleElement;

/**
 * TODO: javadoc
 *
 * @author Steve Ebersole
 */
public interface TupleElementImplementor<X> extends TupleElement<X> {
    public ValueHandlerFactory.ValueHandler<X> getValueHandler();
}

package org.hibernate.ejb.criteria;
import javax.persistence.TupleElement;

/**
 * TODO: javadoc
 *
 * @author Steve Ebersole
 */
public interface TupleElementImplementor<X> extends TupleElement<X> {
    public ValueHandlerFactory.ValueHandler<X> getValueHandler();
}

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* Free Software Foundation, Inc.
* 51 Franklin Street, Fifth Floor
* Boston, MA 02110-1301 USA
*/
import javax.persistence.TupleElement;
import javax.persistence.TupleElementImplementor;

//**
 * TODO: javadoc
 *
 * @author Steve Ebersole
 */
public interface TupleElementImplementor<X> extends TupleElement<X> {
    public ValueHandlerFactory.ValueHandler<X> getValueHandler();
}

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* */
package org.hibernate.ejb.criteria;
import javax.persistence.criteria.CollectionJoin;

/**
 * Specialization of [JoinImplementor] for [java.util.Collection] typed attribute joins
 * @author Steve Ebersole
 */
public interface CollectionJoinImplementor<Z,X> extends JoinImplementor<Z,X>, CollectionJoin<Z,X> {

 /**
  * [{@inheritDoc}
  * <p/>
  * Refined return type
  */
  public CollectionJoinImplementor<Z,X> correlateTo(CriteriaSubqueryImpl subquery);
}

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 * but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
 * or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License
 * for more details.
 */
public interface SelectionImplementor<X> extends TupleElementImplementor<X>, Selection<X> {
    public List<ValueHandlerFactory.ValueHandler> getValueHandlers();
}

package org.hibernate.ejb.criteria;
import java.util.List;
import javax.persistence.criteria.Selection;

/**
 * TODO : javadoc
 *
 * @author Steve Ebersole
 */
public interface SelectionImplementor<X> extends TupleElementImplementor<X>, Selection<X> {
    public List<ValueHandlerFactory.ValueHandler> getValueHandlers();
}

package org.hibernate.ejb.criteria;
import javax.persistence.criteria.ListJoin;

/**
 * Specialization of {@link JoinImplementor} for {@link java.util.List} typed attribute joins
 */
/**  
 * @inheritDoc  
 */  
public ListJoinImplementor<Z,X> correlateTo(CriteriaSubqueryImpl subquery);  
}  

import java.io.Serializable;
import java.util.List;
import java.util.Set;
import javax.persistence.criteria.AbstractQuery;
import javax.persistence.criteria.CollectionJoin;
import javax.persistence.criteria.Expression;
import javax.persistence.criteria.Join;
import javax.persistence.criteria.ListJoin;
import javax.persistence.criteria.MapJoin;
import javax.persistence.criteria.ParameterExpression;
import javax.persistence.criteria.Predicate;
import javax.persistence.criteria.Root;
import javax.persistence.criteria.SetJoin;
import javax.persistence.criteria.Subquery;
import javax.persistence.metamodel.EntityType;

import org.hibernate.ejb.criteria.expression.ExpressionImpl;
import org.hibernate.ejb.criteria.path.RootImpl;

/**
 * The Hibernate implementation of the JPA [link Subquery] contract. Mostly a set of delegation to its internal
 * [link QueryStructure].
 *
 * @author Steve Ebersole
 */
public class CriteriaSubqueryImpl<T> extends ExpressionImpl<T> implements Subquery<T>, Serializable {
    private final AbstractQuery<?> parent;
    private final QueryStructure<T> queryStructure;

    public CriteriaSubqueryImpl(
            CriteriaBuilderImpl criteriaBuilder,
            Class<T> javaType,
            AbstractQuery<?> parent) {
        super( criteriaBuilder, javaType);
        this.parent = parent;
        this.queryStructure = new QueryStructure<T>( this, criteriaBuilder );
    }

    /**
     * [link @inheritDoc]
     */
    public AbstractQuery<?> getParent() {
        return parent;
    }

    /**
     * [link @inheritDoc]
     */
    public void registerParameters(ParameterRegistry registry) {
        for ( ParameterExpression param : queryStructure.getParameters() ) {
            registry.registerParameter( param );
        }
    }

    /**
     * [link @inheritDoc]
     */
    public Class<T> getResultType() {
        return getJavaType();
    }
}
// ROOTS ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

/**
 * {@inheritDoc}
 */
public Set<Root<?>> getRoots() {
    return queryStructure.getRoots();
}

/**
 * {@inheritDoc}
 */
public <X> Root<X> from(EntityType<X> entityType) {
    return queryStructure.from( entityType );
}

/**
 * {@inheritDoc}
 */
public <X> Root<X> from(Class<X> entityClass) {
    return queryStructure.from( entityClass );
}

// SELECTION ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

public Subquery<T> distinct(boolean applyDistinction) {
    queryStructure.setDistinct( applyDistinction );
    return this;
}

public boolean isDistinct() {
    return queryStructure.isDistinct();
}

public Expression<T> getSelection() {
    return (Expression<T>) queryStructure.getSelection();
}

public Subquery<T> select(Expression<T> expression) {
    queryStructure.setSelection( expression );
    return this;
}

// RESTRICTION ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
/**
 * {@inheritDoc}
 */
public Predicate getRestriction() {
return queryStructure.getRestriction();
}

/**
 * {@inheritDoc}
 */
public Subquery<T> where(Expression<Boolean> expression) {
queryStructure.setRestriction( criteriaBuilder().wrap( expression ) );
return this;
}

/**
 * {@inheritDoc}
 */
public Subquery<T> where(Predicate... predicates) {
// TODO : assuming this should be a conjunction, but the spec does not say specifically...
queryStructure.setRestriction( criteriaBuilder().and( predicates ) );
return this;
}

// GROUPING  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

/**
 * {@inheritDoc}
 */
public List<Expression<?>> getGroupList() {
return queryStructure.getGroupings();
}

/**
 * {@inheritDoc}
 */
public Subquery<T> groupBy(Expression<?>... groupings) {
queryStructure.setGroupings( groupings );
return this;
}

/**
 * {@inheritDoc}
 */
public Subquery<T> groupBy(List<Expression<?>> groupings) {
queryStructure.setGroupings( groupings );
return this;
}

/**
 * @inheritDoc
 */
public Predicate getGroupRestriction() {
return queryStructure.getHaving();
}

/**
 * @inheritDoc
 */
public Subquery<T> having(Expression<Boolean> expression) {
queryStructure.setHaving( criteriaBuilder().wrap( expression ) );
return this;
}

/**
 * @inheritDoc
 */
public Subquery<T> having(Predicate... predicates) {
queryStructure.setHaving( criteriaBuilder().and( predicates ) );
return this;
}

// CORRELATIONS
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~~~~~~~~~~~~~~

/**
 * @inheritDoc
 */
public Set<Join<?, ?>> getCorrelatedJoins() {
return queryStructure.collectCorrelatedJoins();
}

/**
 * @inheritDoc
 */
public <Y> Root<Y> correlate(Root<Y> source) {
final RootImpl<Y> correlation = ( RootImpl<Y> ) source .correlateTo( this );
queryStructure.addCorrelationRoot( correlation );
return correlation;
}
/**
 * @inheritDoc
 */

public <X, Y> Join<X, Y> correlate(Join<X, Y> source) {
    final JoinImplementor<X,Y> correlation = ( (JoinImplementor<X,Y>) source ).correlateTo( this );
    queryStructure.addCorrelationRoot( correlation );
    return correlation;
}

/**
 * @inheritDoc
 */

public <X, Y> CollectionJoin<X, Y> correlate(CollectionJoin<X, Y> source) {
    final CollectionJoinImplementor<X,Y> correlation = ( (CollectionJoinImplementor<X,Y>) source ).correlateTo( this );
    queryStructure.addCorrelationRoot( correlation );
    return correlation;
}

/**
 * @inheritDoc
 */

public <X, Y> SetJoin<X, Y> correlate(SetJoin<X, Y> source) {
    final SetJoinImplementor<X,Y> correlation = ( (SetJoinImplementor<X,Y>) source ).correlateTo( this );
    queryStructure.addCorrelationRoot( correlation );
    return correlation;
}

/**
 * @inheritDoc
 */

public <X, K, V> MapJoin<X, K, V> correlate(MapJoin<X, K, V> source) {
    final MapJoinImplementor<X,K,V> correlation = ( (MapJoinImplementor<X,K,V>) source ).correlateTo( this );
    queryStructure.addCorrelationRoot( correlation );
    return correlation;
}

/**
 * @inheritDoc
 */
public <U> Subquery<U> subquery(Class<U> subqueryType) {
    return queryStructure.subquery( subqueryType );
}

public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
    StringBuilder subqueryBuffer = new StringBuilder( "(" );
    queryStructure.render( subqueryBuffer, renderingContext );
    subqueryBuffer.append( "\" ");
    return subqueryBuffer.toString();
}

public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    throw new IllegalStateException( "Subquery cannot occur in select clause" );
}

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* 51 Franklin Street, Fifth Floor
* Boston, MA 02110-1301 USA
* /**
* Implementation contract for the JPA [ @link From] interface.
* @author Steve Ebersole
*/
public interface FromImplementor<Z,X> extends PathImplementor<X>, From<Z,X> {
public void prepareAlias(CriteriaQueryCompiler.RenderingContext renderingContext);
public String renderTableExpression(CriteriaQueryCompiler.RenderingContext renderingContext);

public FromImplementor<Z,X> correlateTo(CriteriaSubqueryImpl subquery);
public void prepareCorrelationDelegate(FromImplementor<Z,X> parent);
public FromImplementor<Z, X> getCorrelationParent();
}
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 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria;
import javax.persistence.criteria.Fetch;
import javax.persistence.criteria.Join;

/**
 * Consolidates the { @link Join} and { @link Fetch} hierarchies since that is how we implement them.
 * This allows us to treat them polymorphically.
 *
 * @author Steve Ebersole
 */
public interface JoinImplementor<Z,X> extends Join<Z,X>, Fetch<Z,X>, FromImplementor<Z,X> {
 /**
 * @inheritDoc
 * <p/>
 * Refined return type
 */
public JoinImplementor<Z,X> correlateTo(CriteriaSubqueryImpl subquery);
package org.hibernate.ejb.criteria;

/**
 * Represents an illegal attempt to dereference from a [getPathSource() path source] which
 * cannot be dereferenced.
 *
 * @author Steve Ebersole
 */

public class IllegalDereferenceException extends RuntimeException {
    private final PathSource pathSource;

    public IllegalDereferenceException(PathSource pathSource) {
        super("Illegal attempt to dereference path source \[" + pathSource.getPathIdentifier() + "]");
        this.pathSource = pathSource;
    }

    public PathSource getPathSource() {
        return pathSource;
    }

    /**
     * Hibernate, Relational Persistence for Idiomatic Java
     */
package org.hibernate.ejb.criteria;
import javax.persistence.criteria.Path;
import javax.persistence.metamodel.Attribute;

/**
 * Implementation contract for the JPA {@link Path} interface.
 *
 * @author Steve Ebersole
 */
public interface PathImplementor<X> extends ExpressionImplementor<X>, Path<X>, PathSource<X>, Renderable {
  /**
   * Retrieve reference to the attribute this path represents.
   *
   * @return The metamodel attribute.
   */
  public Attribute<?, ?> getAttribute();
}

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* along with this distribution; if not, write to:
* Free Software Foundation, Inc.
* 51 Franklin Street, Fifth Floor
* Boston, MA  02110-1301  USA
*/

package org.hibernate.ejb.criteria;

import java.io.Serializable;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.Set;
import javax.persistence.Tuple;
import javax.persistence.criteria.CriteriaQuery;
import javax.persistence.criteria.Expression;
import javax.persistence.criteria.Order;
import javax.persistence.criteria.ParameterExpression;
import javax.persistence.criteria.Predicate;
import javax.persistence.criteria.Root;
import javax.persistence.criteria.Selection;
import javax.persistence.criteria.Subquery;
import javax.persistence.metamodel.EntityType;
import org.hibernate.ejb.HibernateEntityManagerImplementor;
import org.hibernate.type.Type;

/**<*
* The Hibernate implementation of the JPA [@link CriteriaQuery] contract. Mostly a set of delegation to its
* internal [@link QueryStructure].
* *
* @author Steve Ebersole
*/

public class CriteriaQueryImpl&lt;T&gt; extends AbstractNode implements CriteriaQuery&lt;T&gt;, Serializable {

    private final Class&lt;T&gt; returnType;
    private final QueryStructure&lt;T&gt; queryStructure;
    private List&lt;Order&gt; orderSpecs = Collections.emptyList();

    public CriteriaQueryImpl(
CriteriaBuilderImpl criteriaBuilder,
Class<T> returnType) {
    super( criteriaBuilder );
    this.returnType = returnType;
    this.queryStructure = new QueryStructure<T>( this, criteriaBuilder );
}

/**
 * {@inheritDoc}
 */
public Class<T> getResultType() {
    return returnType;
}

// SELECTION ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

/**
 * {@inheritDoc}
 */
public CriteriaQuery<T> distinct(boolean applyDistinction) {
    queryStructure.setDistinct( applyDistinction );
    return this;
}

/**
 * {@inheritDoc}
 */
public boolean isDistinct() {
    return queryStructure.isDistinct();
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({"unchecked"})
public Selection<T> getSelection() {
    return ( Selection<T> ) queryStructure.getSelection();
}

public void applySelection(Selection<? extends T> selection) {
    queryStructure.setSelection( selection );
}

/**
 * {@inheritDoc}
 */
public CriteriaQuery<T> select(Selection<? extends T> selection) {

applySelection( selection );
return this;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public CriteriaQuery<T> multiselect(Selection<?>... selections) {
return multiselect( Arrays.asList( selections ) );
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public CriteriaQuery<T> multiselect(List<Selection<?>> selections) {
final Selection<? extends T> selection;
if ( Tuple.class.isAssignableFrom( getResultType() ) ) {
selection = ( Selection<? extends T> ) criteriaBuilder().tuple( selections );
}
else if ( getResultType().isArray() ) {
selection = ( Selection<? extends T> ) criteriaBuilder().array( ( Class<? extends Object[]> ) getResultType(), selections );
}
else if ( Object.class.equals( getResultType() ) ) {
switch ( selections.size() ) {
case 0: {
throw new IllegalArgumentException( "empty selections passed to criteria query typed as Object" );
};
case 1: {
selection = ( Selection<? extends T> ) selections.get( 0 );
break;
};
case default: {
selection = ( Selection<? extends T> ) criteriaBuilder().array( selections );
}
}
else {
selection = criteriaBuilder().construct( getResultType(), selections );
}
applySelection( selection );
return this;
}

// ROOTS ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

/**
 * @inheritDoc
 */
public Set<Root<?>> getRoots() {
return queryStructure.getRoots();
}

/**
 * @inheritDoc
 */
public <X> Root<X> from(EntityType<X> entityType) {
return queryStructure.from( entityType );
}

/**
 * @inheritDoc
 */
public <X> Root<X> from(Class<X> entityClass) {
return queryStructure.from( entityClass );
}

// RESTRICTION ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

/**
 * @inheritDoc
 */
public Predicate getRestriction() {
return queryStructure.getRestriction();
}

/**
 * @inheritDoc
 */
public CriteriaQuery<T> where(Expression<Boolean> expression) {
queryStructure.setRestriction( criteriaBuilder().wrap( expression ) );
return this;
}

/**
 * @inheritDoc
 */
public CriteriaQuery<T> where(Predicate... predicates) {
    // TODO: assuming this should be a conjunction, but the spec does not say specifically...
    queryStructure.setRestriction(criteriaBuilder().and(predicates));
    return this;
}

// GROUPING ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

/**
 * @inheritDoc
 */
public List<Expression<?>> getGroupList() {
    return queryStructure.getGroupings();
}

/**
 * @inheritDoc
 */
public CriteriaQuery<T> groupBy(Expression<?>... groupings) {
    queryStructure.setGroupings(groupings);
    return this;
}

public CriteriaQuery<T> groupBy(List<Expression<?>> groupings) {
    queryStructure.setGroupings(groupings);
    return this;
}

/**
 * @inheritDoc
 */
public Predicate getGroupRestriction() {
    return queryStructure.getHaving();
}

/**
 * @inheritDoc
 */
public CriteriaQuery<T> having(Expression<Boolean> expression) {
    queryStructure.setHaving(criteriaBuilder().wrap(expression));
    return this;
}

/**
 * @inheritDoc
 */
public CriteriaQuery<T> having(Predicate... predicates) {

queryStructure.setHaving(criteriaBuilder().and(predicates));
return this;
}

// ORDERING ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

/**
 * {@inheritDoc}
 */
public List<Order> getOrderList() {
return orderSpecs;
}

/**
 * {@inheritDoc}
 */
public CriteriaQuery<T> orderBy(Order... orders) {
if (orders != null && orders.length > 0) {
orderSpecs = Arrays.asList(orders);
}
else {
orderSpecs = Collections.emptyList();
}
return this;
}

/**
 * {@inheritDoc}
 */
public CriteriaQuery<T> orderBy(List<Order> orders) {
orderSpecs = orders;
return this;
}

/**
 * {@inheritDoc}
 */
public Set<ParameterExpression<?>> getParameters() {
return queryStructure.getParameters();
}

/**
 * {@inheritDoc}
 */
public <U> Subquery<U> subquery(Class<U> subqueryType) {
return queryStructure.subquery(subqueryType);
}
public void validate() {
    // getRoots() is explicitly supposed to return empty if none defined, no need to check for null
    if (getRoots().isEmpty()) {
        throw new IllegalStateException("No criteria query roots were specified");
    }

    // if there is not an explicit selection, there is an *implicit* selection of the root entity provided only
    // a single query root was defined.
    if (getSelection() == null && !hasImplicitSelection()) {
        throw new IllegalStateException("No explicit selection and an implicit one cold not be determined");
    }
}

/**
 * If no explicit selection was defined, we have a condition called an implicit selection if the query specified
 * a single {@link Root} and the java type of that [@link Root root's] model is the same as this criteria's
 * [@link #getResultType() result type].
 *
 * @return True if there is an explicit selection; false otherwise.
 */
private boolean hasImplicitSelection() {
    if (getRoots().size() != 1) {
        return false;
    }
    Root root = getRoots().iterator().next();
    Class<?> javaType = root.getModel().getJavaType();
    if (javaType != null && javaType != returnType) {
        return false;
    }
    // if we get here, the query defined no selection but defined a single root of the same type as the
    // criteria query return, so we use that as the implicit selection
    //
    // todo : should we put an implicit marker in the selection to this fact to make later processing easier?
    return true;
}

public CriteriaQueryCompiler.RenderedCriteriaQuery render(CriteriaQueryCompiler.RenderingContext
    renderingContext) {
    final StringBuilder jpaqlQuery = new StringBuilder();
    queryStructure.render(jpaqlQuery, renderingContext);
    if (!getOrderList().isEmpty()) {
        jpaqlQuery.append(" order by ");
        String sep = "";
        }
for ( Order orderSpec : getOrderList() ) {
    jpaqlQuery.append( sep )
    .append( ( ( Renderable ) orderSpec.getExpression() ).render( renderingContext ) )
    .append( orderSpec.isAscending() ? " asc" : " desc" );
    sep = ", ";
}

return new CriteriaQueryCompiler.RenderedCriteriaQuery() {
    public String getQueryString() {
        return jpaqlQuery.toString();
    }

    @SuppressWarnings({ "unchecked" })
    public List<ValueHandlerFactory.ValueHandler> getValueHandlers() {
        SelectionImplementor selection = (SelectionImplementor) queryStructure.getSelection();
        return selection == null
            ? null
            : selection.getValueHandlers();
    }

    public HibernateEntityManagerImplementor.Options.ResultMetadataValidator getResultMetadataValidator() {
        return new HibernateEntityManagerImplementor.Options.ResultMetadataValidator() {
            public void validate(Type[] returnTypes) {
                SelectionImplementor selection = (SelectionImplementor) queryStructure.getSelection();
                if ( selection != null ) {
                    if ( selection.isCompoundSelection() ) {
                        if ( returnTypes.length != selection.getCompoundSelectionItems().size() ) {
                            throw new IllegalStateException("Number of return values [" + returnTypes.length + "] did not match expected [" + selection.getCompoundSelectionItems().size() + "]");
                        }
                    }
                    else {
                        if ( returnTypes.length > 1 ) {
                            throw new IllegalStateException("Number of return values [" + returnTypes.length + "] did not match expected [1]");
                        }
                    }
                } else {
                    if ( returnTypes.length > 1 ) {
                        throw new IllegalStateException("Number of return values [" + returnTypes.length + "] did not match expected [1]");
                    }
                }
            }
        };
    }
};
package org.hibernate.ejb.criteria;

import java.io.Serializable;
import java.math.BigDecimal;
import java.math.BigInteger;
import java.util.Arrays;
import java.util.Collection;
import java.util.List;
import java.util.Map;
import java.util.Set;
import javax.persistence.Tuple;
import javax.persistence.criteria.CompoundSelection;
import javax.persistence.criteria.CriteriaBuilder;
import javax.persistence.criteria.CriteriaQuery;
import javax.persistence.criteria.Expression;
import javax.persistence.criteria.Order;
import javax.persistence.criteria.ParameterExpression;
import javax.persistence.criteria.Predicate;
import javax.persistence.criteria.Selection;
import javax.persistence.criteria.Subquery;
import org.hibernate.ejb.EntityManagerFactoryImpl;
import org.hibernate.ejb.criteria.expression.BinaryArithmeticOperation;
import org.hibernate.ejb.criteria.expression.CoalesceExpression;
import org.hibernate.ejb.criteria.expression.CompoundSelectionImpl;
import org.hibernate.ejb.criteria.expression.ConcatExpression;
import org.hibernate.ejb.criteria.expression.LiteralExpression;
import org.hibernate.ejb.criteria.expression.NullLiteralExpression;
import org.hibernate.ejb.criteria.expression.NullifExpression;
import org.hibernate.ejb.criteria.expression.ParameterExpressionImpl;
import org.hibernate.ejb.criteria.expression.SearchedCaseExpression;
import org.hibernate.ejb.criteria.expression.SimpleCaseExpression;
import org.hibernate.ejb.criteria.expression.SizeOfCollectionExpression;
import org.hibernate.ejb.criteria.expression.SubqueryComparisonModifierExpression;
import org.hibernate.ejb.criteria.expression.UnaryArithmeticOperation;
import org.hibernate.ejb.criteria.expression.function.AbsFunction;
import org.hibernate.ejb.criteria.expression.function.AggregationFunction;
import org.hibernate.ejb.criteria.expression.function.BasicFunctionExpression;
import org.hibernate.ejb.criteria.expression.function.CurrentDateFunction;
import org.hibernate.ejb.criteria.expression.function.CurrentTimeFunction;
import org.hibernate.ejb.criteria.expression.function.CurrentTimestampFunction;
import org.hibernate.ejb.criteria.expression.function.LengthFunction;
import org.hibernate.ejb.criteria.expression.function.LocateFunction;
import org.hibernate.ejb.criteria.expression.function_LOWER_FUNCTION;
import org.hibernate.ejb.criteria.expression.function.ParameterizedFunctionExpression;
import org.hibernate.ejb.criteria.expression.function.SqrtFunction;
import org.hibernate.ejb.criteria.expression.function.SubstringFunction;
import org.hibernate.ejb.criteria.expression.function.TrimFunction;
import org.hibernate.ejb.criteria.expression.function.UpperFunction;
import org.hibernate.ejb.criteria.path.PluralAttributePath;
import org.hibernate.ejb.criteria.predicate.BetweenPredicate;
import org.hibernate.ejb.criteria.predicate.BooleanAssertionPredicate;
import org.hibernate.ejb.criteria.predicate.BooleanExpressionPredicate;
import org.hibernate.ejb.criteria.predicate.BooleanStaticAssertionPredicate;
import org.hibernate.ejb.criteria.predicate.ComparatorPredicate;
import org.hibernate.ejb.criteria.predicate.ComparatorPredicate.ComparatorOperator;
import org.hibernate.ejb.criteria.predicate.CompoundPredicate;
import org.hibernate.ejb.criteria.predicate.ExistsPredicate;
import org.hibernate.ejb.criteria.predicate.InPredicate;
import org.hibernate.ejb.criteria.predicate.IsEmptyPredicate;
import org.hibernate.ejb.criteria.predicate.LikePredicate;
import org.hibernate.ejb.criteria.predicate.MemberOfPredicate;
import org.hibernate.ejb.criteria.predicate.NeedsPredicate;

/**
 * Hibernate implementation of the JPA [@link CriteriaBuilder] contract.
 *
 * @author Steve Ebersole
 */
public class CriteriaBuilderImpl implements CriteriaBuilder, Serializable {
    private final EntityManagerFactoryImpl entityManagerFactory;
}
public CriteriaBuilderImpl(EntityManagerFactoryImpl entityManagerFactory) {
    this.entityManagerFactory = entityManagerFactory;
}

/**
 * Provides protected access to the underlying \link EntityManagerFactoryImpl\.
 * @return The underlying \link EntityManagerFactoryImpl\*/
public EntityManagerFactoryImpl getEntityManagerFactory() {
    return entityManagerFactory;
}

/**
 * \inheritDoc
 */
public CriteriaQuery<Object> createQuery() {
    return new CriteriaQueryImpl<Object>(this, Object.class);
}

/**
 * \inheritDoc
 */
public <T> CriteriaQuery<T> createQuery(Class<T> resultClass) {
    return new CriteriaQueryImpl<T>(this, resultClass);
}

/**
 * \inheritDoc
 */
public CriteriaQuery<Tuple> createTupleQuery() {
    return new CriteriaQueryImpl<Tuple>(this, Tuple.class);
}

/**
 * Package-protected method to centralize checking of criteria query
 * multiselects as defined by the
 * \link CriteriaQuery#multiselect(List)\ method.
 * @param selections The selection varargs to check
 * @throws IllegalArgumentException If, as per
 * \link CriteriaQuery#multiselect(List)\ documentation,
 * &lt;i&gt;An argument to the multiselect method must not be a tuple-
 * or array-valued compound selection item.&lt;/i&gt;
 */
void checkMultiselect(List<Selection<?>> selections) {

for ( Selection<?> selection : selections ) {
    if ( selection.isCompoundSelection() ) {
        if ( selection.getJavaType().isArray() ) {
            throw new IllegalArgumentException(
                "multiselect selections cannot contain " +
                "compound array-valued elements"
            );
        }
    }
}

if ( Tuple.class.isAssignableFrom( selection.getJavaType() ) ) {
    throw new IllegalArgumentException(
        "multiselect selections cannot contain " +
        "compound tuple-valued elements"
    );
}

/**
 * {@inheritDoc}
 */
public CompoundSelection<Tuple> tuple(Selection<?>... selections) {
    return tuple( Arrays.asList( selections ) );
}

/**
 * Version of {@link #tuple(Selection[])} taking a list.
 * @param selections List of selections.
 * @return The tuple compound selection
 */
public CompoundSelection<Tuple> tuple(List<Selection<?>> selections) {
    checkMultiselect( selections );
    return new CompoundSelectionImpl<Tuple>( this, Tuple.class, selections );
}

/**
 * {@inheritDoc}
 */
public CompoundSelection<Object[]> array(Selection<?>... selections) {
    return array( Arrays.asList( selections ) );
}

/**
 * Version of {@link #array(Selection[])} taking a list of selections.
 * @param selections List of selections.
 */
public CompoundSelection<Object[]> array(List<Selection<?>> selections) {
    return array( Object[].class, selections );
}

/**
 * Version of { @link #array(Selection[])} taking a list of selections,
 * as well as the type of array.
 *
 * @param type The type of array
 * @param selections List of selections.
 *
 * @return The array compound selection
 */
public <Y> CompoundSelection<Y> array(Class<Y> type, List<Selection<?>> selections) {
    checkMultiselect( selections );
    return new CompoundSelectionImpl<Y>( this, type, selections );
}

/**
 * Version of { @link #construct(Class, Selection[])} taking the
 * to-be-constructed type as well as a list of selections.
 *
 * @param result The result class to be constructed.
 * @param selections The selections to use in the constructor call.
 *
 * @return The <b>view</b> compound selection.
 */
public <Y> CompoundSelection<Y> construct(Class<Y> result, Selection<?>... selections) {
    return construct( result, Arrays.asList( selections ) );
}

/**
 * Version of { @link #construct(Class, Selection[])} taking the
 * to-be-constructed type as well as a list of selections.
 *
 * @param result The result class to be constructed.
 * @param selections List of selections.
 *
 * @return The array compound selection
 */
public <Y> CompoundSelection<Y> array(Class<Y> type, List<Selection<?>> selections) {
    checkMultiselect( selections );
    return new CompoundSelectionImpl<Y>( this, type, selections );
}

// ordering ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

/**
 * { @inheritDoc}
 */
public Order asc(Expression<?> x) {
    return new OrderImpl( x, true );
}

/**
 *{@inheritDoc}
 */
public Order desc(Expression<?> x) {
    return new OrderImpl( x, false );
}

// predicates ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

public Predicate wrap(Expression<Boolean> expression) {
    if ( Predicate.class.isInstance( expression ) ) {
        return ( (Predicate) expression );
    }
    else if ( PathImplementor.class.isInstance( expression ) ) {
        return new BooleanAssertionPredicate( this, expression, Boolean.TRUE );
    }
    else {
        return new BooleanExpressionPredicate( this, expression );
    }
}

/**
 *{@inheritDoc}
 */
public Predicate not(Expression<Boolean> expression) {
    return wrap( expression ).not();
}

/**
 *{@inheritDoc}
 */
public Predicate and(Expression<Boolean> x, Expression<Boolean> y) {
    return new CompoundPredicate( this, Predicate.BooleanOperator.AND, x, y );
}

/**
 *{@inheritDoc}
 */
public Predicate or(Expression<Boolean> x, Expression<Boolean> y) {
    return new CompoundPredicate( this, Predicate.BooleanOperator.OR, x, y );
}
public Predicate and(Predicate... restrictions) {
    return new CompoundPredicate( this, Predicate.BooleanOperator.AND, restrictions );
}

public Predicate or(Predicate... restrictions) {
    return new CompoundPredicate( this, Predicate.BooleanOperator.OR, restrictions );
}

public Predicate conjunction() {
    return new CompoundPredicate( this, Predicate.BooleanOperator.AND );
}

public Predicate disjunction() {
    return new CompoundPredicate( this, Predicate.BooleanOperator.OR );
}

public Predicate isTrue(Expression<Boolean> expression) {
    if ( CompoundPredicate.class.isInstance( expression ) ) {
        final CompoundPredicate predicate = (CompoundPredicate) expression;
        if ( predicate.getExpressions().size() == 0 ) {
            return new BooleanStaticAssertionPredicate( this,
                predicate.getOperator() == Predicate.BooleanOperator.AND );
        }
    }
    else if ( Predicate.class.isInstance( expression ) ) {
        return (Predicate) expression;
    }
    return new BooleanAssertionPredicate( this, expression, Boolean.TRUE );
}
* { @inheritDoc }
*/
public Predicate isFalse(Expression<Boolean> expression) {
    if ( CompoundPredicate.class.isInstance( expression ) ) {
        final CompoundPredicate predicate = (CompoundPredicate) expression;
        if ( predicate.getExpressions().size() == 0 ) {
            return new BooleanStaticAssertionPredicate( this,
                    predicate.getOperator() == Predicate.BooleanOperator.OR
                );
        } predicate.not();
    return predicate;
}
else if ( Predicate.class.isInstance( expression ) ) {
    final Predicate predicate = (Predicate) expression;
    predicate.not();
    return predicate;
}
return new BooleanAssertionPredicate( this, expression, Boolean.FALSE );
}

/**
 * { @inheritDoc }
 */
public Predicate isNull(Expression<?> x) {
    return new NullnessPredicate( this, x );
}

/**
 * { @inheritDoc }
 */
public Predicate isNotNull(Expression<?> x) {
    return isNull( x ).not();
}

/**
 * { @inheritDoc }
 */
public Predicate equal(Expression<?> x, Expression<?> y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.EQUAL, x, y );
}

/**
 * { @inheritDoc }
 */
public Predicate notEqual(Expression<?> x, Expression<?> y) {

return new ComparisonPredicate( this, ComparisonOperator.NOT_EQUAL, x, y );
}

/**
 * {@inheritDoc}
 */
public Predicate equal(Expression<?> x, Object y) {
//noinspection SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.EQUAL, x, y );
}

/**
 * {@inheritDoc}
 */
public <Y extends Comparable<? super Y>> Predicate greaterThan(Expression<? extends Y> x, Expression<?> y) {
//noinspection SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN, x, y );
}

/**
 * {@inheritDoc}
 */
public <Y extends Comparable<? super Y>> Predicate lessThan(Expression<? extends Y> x, Expression<?, super Y> y) {
//noinspection SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN, x, y );
}

/**
 * {@inheritDoc}
 */
public <Y extends Comparable<? super Y>> Predicate greaterThanOrEqualTo(Expression<? extends Y> x, Expression<?, super Y> y) {
//noinspection SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN_OR_EQUAL, x, y );
}
/**
 * @inheritdoc
 */

public <Y extends Comparable<? super Y>> Predicate lessThanOrEqualTo(
    Expression<? extends Y> x,
    Expression<? extends Y> y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN_OR_EQUAL, x, y );
}

/**
 * @inheritdoc
 */

public <Y extends Comparable<? super Y>> Predicate greaterThan(
    Expression<? extends Y> x,
    Y y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN, x, y );
}

/**
 * @inheritdoc
 */

public <Y extends Comparable<? super Y>> Predicate lessThan(
    Expression<? extends Y> x,
    Y y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN, x, y );
}

/**
 * @inheritdoc
 */

public <Y extends Comparable<? super Y>> Predicate greaterThanOrEqualTo(
    Expression<? extends Y> x,
    Y y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN_OR_EQUAL, x, y );
}
return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN_OR_EQUAL, x, y );
}

/**
 * @inheritDoc
 */
public Predicate gt(Expression<? extends Number> x, Expression<? extends Number> y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN, x, y );
}

/**
 * @inheritDoc
 */
public Predicate lt(Expression<? extends Number> x, Expression<? extends Number> y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN, x, y );
}

/**
 * @inheritDoc
 */
public Predicate ge(Expression<? extends Number> x, Expression<? extends Number> y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN_OR_EQUAL, x, y );
}

/**
 * @inheritDoc
 */
public Predicate le(Expression<? extends Number> x, Expression<? extends Number> y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN_OR_EQUAL, x, y );
}

/**
 * @inheritDoc
 */
public Predicate gt(Expression<? extends Number> x, Number y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN, x, y );
}

/**
 * @inheritDoc
 */
public Predicate lt(Expression<? extends Number> x, Number y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN, x, y );
}
return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN, x, y );
}
/**
 * {@inheritDoc}
 */
public Predicate ge(Expression<? extends Number> x, Number y) {
//noinspeccion SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.GREATER_THAN_OR_EQUAL, x, y );
}
/**
 * {@inheritDoc}
 */
public Predicate le(Expression<? extends Number> x, Number y) {
//noinspeccion SuspiciousNameCombination
return new ComparisonPredicate( this, ComparisonOperator.LESS_THAN_OR_EQUAL, x, y );
}
/**
 * {@inheritDoc}
 */
public <Y extends Comparable<? super Y>> Predicate between(
Expression<? extends Y> expression,
Y lowerBound,
Y upperBound) {
return new BetweenPredicate<Y>( this, expression, lowerBound, upperBound );
}
/**
 * {@inheritDoc}
 */
public <Y extends Comparable<? super Y>> Predicate between(
Expression<? extends Y> expression,
Expression<? extends Y> lowerBound,
Expression<? extends Y> upperBound) {
return new BetweenPredicate<Y>( this, expression, lowerBound, upperBound );
}
/**
 * {@inheritDoc}
 */
public <T> In<T> in(Expression<? extends T> expression) {
return new InPredicate<T>( this, expression );
}
public <T> In<T> in(Expression<? extends T> expression, Expression<? extends T>... values) {
return new InPredicate<T>( this, expression, values );
}
public <T> In<T> in(Expression<? extends T> expression, T... values) {
    return new InPredicate<T>(this, expression, values);
}

public <T> In<T> in(Expression<? extends T> expression, Collection<T> values) {
    return new InPredicate<T>(this, expression, values);
}

public Predicate like(Expression<String> matchExpression, Expression<String> pattern) {
    return new LikePredicate(this, matchExpression, pattern);
}

public Predicate like(Expression<String> matchExpression, Expression<String> pattern, Expression<Character> escapeCharacter) {
    return new LikePredicate(this, matchExpression, pattern, escapeCharacter);
}

public Predicate like(Expression<String> matchExpression, String pattern) {
    return new LikePredicate(this, matchExpression, pattern);
}

public Predicate like(Expression<String> matchExpression, String pattern, Expression<Character> escapeCharacter) {
    return new LikePredicate(this, matchExpression, pattern, escapeCharacter);
}

public Predicate like(Expression<String> matchExpression, String pattern, char escapeCharacter) {
    return new LikePredicate(this, matchExpression, pattern, escapeCharacter);
}

public Predicate notLike(Expression<String> matchExpression, Expression<String> pattern) {
    return like(matchExpression, pattern).not();
}

public Predicate notLike(Expression<String> matchExpression, Expression<String> pattern, Expression<Character> escapeCharacter) {
    return like(matchExpression, pattern, escapeCharacter).not();
}

public Predicate notLike(Expression<String> matchExpression, Expression<String> pattern, char escapeCharacter) {
    return like(matchExpression, pattern, escapeCharacter).not();
}
public Predicate notLike(Expression<String> matchExpression, String pattern) {
    return like( matchExpression, pattern ).not();
}

public Predicate notLike(Expression<String> matchExpression, String pattern, Expression<Character> escapeCharacter) {
    return like( matchExpression, pattern, escapeCharacter ).not();
}

public Predicate notLike(Expression<String> matchExpression, String pattern, char escapeCharacter) {
    return like( matchExpression, pattern, escapeCharacter ).not();
}

// parameters ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

/**
 * {@inheritDoc}
 */
public <T> ParameterExpression<T> parameter(Class<T> paramClass) {
    return new ParameterExpressionImpl<T>( this, paramClass );
}

/**
 * {@inheritDoc}
 */
public <T> ParameterExpression<T> parameter(Class<T> paramClass, String name) {
    return new ParameterExpressionImpl<T>( this, paramClass, name );
}

/**
 * {@inheritDoc}
 */
public <T> Expression<T> literal(T value) {
    if ( value == null ) {
        throw new IllegalArgumentException( "literal value cannot be null" );
    }
    return new LiteralExpression<T>( this, value );
}

/**
 * {@inheritDoc}
 */
public <T> Expression<T> nullLiteral(Class<T> resultClass) {
    return new NullLiteralExpression<T>( this, resultClass );
}
// aggregate functions

/**
 * @inheritDoc
 */
public <N extends Number> Expression<Double> avg(Expression<N> x) {
    return new AggregationFunction.AVG( this, x );
}

/**
 * @inheritDoc
 */
public <N extends Number> Expression<N> sum(Expression<N> x) {
    return new AggregationFunction.SUM<N>( this, x );
}

/**
 * @inheritDoc
 */
public Expression<Long> sumAsLong(Expression<Integer> x) {
    return new AggregationFunction.SUM<Long>( this, x, Long.class );
}

/**
 * @inheritDoc
 */
public Expression<Double> sumAsDouble(Expression<Float> x) {
    return new AggregationFunction.SUM<Double>( this, x, Double.class );
}

/**
 * @inheritDoc
 */
public <N extends Number> Expression<N> max(Expression<N> x) {
    return new AggregationFunction.MAX<N>( this, x );
}

/**
 * @inheritDoc
 */
public <N extends Number> Expression<N> min(Expression<N> x) {
    return new AggregationFunction.MIN<N>( this, x );
}
/**
 * @SuppressWarnings({ "unchecked" })
 */
public <X extends Comparable<? super X>> Expression<X> greatest(Expression<X> x) {
    return new AggregationFunction.GREATEST( this, x );
}

/**
 * @SuppressWarnings({ "unchecked" })
 */
public <X extends Comparable<? super X>> Expression<X> least(Expression<X> x) {
    return new AggregationFunction.LEAST( this, x );
}

/**
 * @SuppressWarnings({ "unchecked" })
 */
public Expression<Long> count(Expression<?> x) {
    return new AggregationFunction.COUNT( this, x, false );
}

/**
 * @SuppressWarnings({ "unchecked" })
 */
public Expression<Long> countDistinct(Expression<?> x) {
    return new AggregationFunction.COUNT( this, x, true );
}

// other functions
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~~~~~~~~~~
/**
 * @SuppressWarnings({ "unchecked" })
 */
public <T> Expression<T> function(String name, Class<T> returnType, Expression<?>... arguments) {
    return new ParameterizedFunctionExpression<T>( this, returnType, name, arguments );
}

/**
 * Create a reference to a function taking no params.
 * @param name The function name.
 * @param returnType The return type.
 * @return The function expression
 */
public <T> Expression<T> function(String name, Class<T> returnType) {
    return new BasicFunctionExpression<T>(this, returnType, name);
}

/**
 * {@inheritDoc}
 */
public <N extends Number> Expression<N> abs(Expression<N> expression) {
    return new AbsFunction<N>(this, expression);
}

/**
 * {@inheritDoc}
 */
public Expression<Double> sqrt(Expression<? extends Number> expression) {
    return new SqrtFunction(this, expression);
}

public Expression<java.sql.Date> currentDate() {
    return new CurrentDateFunction(this);
}

public Expression<java.sql.Timestamp> currentTimestamp() {
    return new CurrentTimestampFunction(this);
}

public Expression<java.sql.Time> currentTime() {
    return new CurrentTimeFunction(this);
}

public Expression<String> substring(Expression<String> value, Expression<Integer> start) {
    return new SubstringFunction(this, value, start);
}

public Expression<String> substring(Expression<String> value, int start) {
    return new SubstringFunction(this, value, start);
}

public Expression<String> substring(Expression<String> value, Expression<Integer> start, Expression<Integer> length) {
    return new SubstringFunction(this, value, start, length);
}

public Expression<String> substring(Expression<String> value, int start, int length) {
    return new SubstringFunction(this, value, start, length);
}

public Expression<String> trim(Expression<String> trimSource) {
return new TrimFunction( this, trimSource );
}

public Expression<String> trim(Trimspec trimspec, Expression<String> trimSource) {
    return new TrimFunction( this, trimspec, trimSource );
}

public Expression<String> trim(Expression<Character> trimCharacter, Expression<String> trimSource) {
    return new TrimFunction( this, trimCharacter, trimSource );
}

public Expression<String> trim(Trimspec trimspec, Expression<Character> trimCharacter, Expression<String> trimSource) {
    return new TrimFunction( this, trimspec, trimCharacter, trimSource );
}

public Expression<String> trim(char trimCharacter, Expression<String> trimSource) {
    return new TrimFunction( this, trimCharacter, trimSource );
}

public Expression<String> trim(Trimspec trimspec, char trimCharacter, Expression<String> trimSource) {
    return new TrimFunction( this, trimspec, trimCharacter, trimSource );
}

public Expression<String> lower(Expression<String> value) {
    return new LowerFunction( this, value );
}

public Expression<String> upper(Expression<String> value) {
    return new UpperFunction( this, value );
}

public Expression<Integer> length(Expression<String> value) {
    return new LengthFunction( this, value );
}

public Expression<Integer> locate(Expression<String> string, Expression<String> pattern) {
    return new LocateFunction( this, pattern, string );
}

public Expression<Integer> locate(Expression<String> string, Expression<String> pattern, Expression<Integer> start) {
    return new LocateFunction( this, pattern, string, start );
}

public Expression<Integer> locate(Expression<String> string, String pattern) {
    return new LocateFunction( this, pattern, string );
}
public Expression<Integer> locate(Expression<String> string, String pattern, int start) {
    return new LocateFunction( this, pattern, string, start );
}

// arithmetic operations
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~~~~~
@Override
public <N extends Number> Expression<N> neg(Expression<N> expression) {
    return new UnaryArithmeticOperation<N>(
        this,
        UnaryArithmeticOperation.Operation.UNARY_MINUS,
        expression
    );
}

@Override
@SuppressWarnings({ "unchecked" })
public <N extends Number> Expression<N> sum(Expression<? extends N> expression1, Expression<? extends N> expression2) {
    if ( expression1 == null || expression2 == null ) {
        throw new IllegalArgumentException( "arguments to sum() cannot be null" );
    }
    final Class resultType = BinaryArithmeticOperation.determineResultType( expression1.getJavaType(),
        expression2.getJavaType() );
    return new BinaryArithmeticOperation<N>(
        this,
        resultType,
        BinaryArithmeticOperation.Operation.ADD,
        expression1,
        expression2
    );
}

@Override
@SuppressWarnings({ "unchecked" })
public <N extends Number> Expression<N> prod(Expression<? extends N> expression1, Expression<? extends N> expression2) {
    if ( expression1 == null || expression2 == null ) {
        throw new IllegalArgumentException( "arguments to prod() cannot be null" );
    }
    final Class resultType = BinaryArithmeticOperation.determineResultType( expression1.getJavaType(),
        expression2.getJavaType() );
    return new BinaryArithmeticOperation<N>(
        this,
        resultType,
expression2.getJavaType() );

return new BinaryArithmeticOperation<N>(
  this,
  resultType,
  BinaryArithmeticOperation.Operation.MULTIPLY,
  expression1,
  expression2
);
}

@Override
@SuppressWarnings({ "unchecked" })
public <N extends Number> Expression<N> diff(Expression<? extends N> expression1, Expression<? extends N> expression2) {
  if ( expression1 == null || expression2 == null ) {
    throw new IllegalArgumentException( "arguments to diff() cannot be null" );
  }

  final Class resultType = BinaryArithmeticOperation.determineResultType( expression1.getJavaType(),
  expression2.getJavaType() );

  return new BinaryArithmeticOperation<N>(
    this,
    resultType,
    BinaryArithmeticOperation.Operation.SUBTRACT,
    expression1,
    expression2
  );
}

@Override
@SuppressWarnings({ "unchecked" })
public <N extends Number> Expression<N> sum(Expression<? extends N> expression, N n) {
  if ( expression == null || n == null ) {
    throw new IllegalArgumentException( "arguments to sum() cannot be null" );
  }

  final Class resultType = BinaryArithmeticOperation.determineResultType( expression.getJavaType(), n.getClass() );

  return new BinaryArithmeticOperation<N>(
    this,
    resultType,
    BinaryArithmeticOperation.Operation.ADD,
    expression,
    n
  );
}
@Override
@SuppressWarnings( { "unchecked" } )
public <N extends Number> Expression<N> prod(Expression<? extends N> expression, N n) {
if ( expression == null || n == null ) {
throw new IllegalArgumentException( "arguments to prod() cannot be null" );
}

final Class resultType = BinaryArithmeticOperation.determineResultType( expression.getJavaType(), n.getClass() );

return new BinaryArithmeticOperation<N>(
this,
resultType,
BinaryArithmeticOperation.Operation.MULTIPLY,
expression,
n);
}

@Override
@SuppressWarnings( { "unchecked" } )
public <N extends Number> Expression<N> diff(Expression<? extends N> expression, N n) {
if ( expression == null || n == null ) {
throw new IllegalArgumentException( "arguments to diff() cannot be null" );
}

final Class resultType = BinaryArithmeticOperation.determineResultType( expression.getJavaType(), n.getClass() );

return new BinaryArithmeticOperation<N>(
this,
resultType,
BinaryArithmeticOperation.Operation.SUBTRACT,
expression,
n);
}

@Override
@SuppressWarnings( { "unchecked" } )
public <N extends Number> Expression<N> sum(N n, Expression<? extends N> expression) {
if ( expression == null || n == null ) {
throw new IllegalArgumentException( "arguments to sum() cannot be null" );
}

final Class resultType = BinaryArithmeticOperation.determineResultType( n.getClass(), expression.getJavaType() );

return new BinaryArithmeticOperation<N>(
this,
resultType,
BinaryArithmeticOperation.Operation.ADD,
n,
expression
);

@Override
@SuppressWarnings("unchecked")
public <N extends Number> Expression<N> prod(N n, Expression<?, extends N> expression) {
if ( n == null || expression == null ) {
throw new IllegalArgumentException( "arguments to prod() cannot be null" );
}

final Class resultType = BinaryArithmeticOperation.determineResultType( n.getClass(), expression.getJavaType() );

return (BinaryArithmeticOperation<N>) new BinaryArithmeticOperation(
this,
resultType,
BinaryArithmeticOperation.Operation.MULTIPLY,
n,
expression
);

@Override
@SuppressWarnings("unchecked")
public <N extends Number> Expression<N> diff(N n, Expression<?, extends N> expression) {
if ( n == null || expression == null ) {
throw new IllegalArgumentException( "arguments to diff() cannot be null" );
}

final Class resultType = BinaryArithmeticOperation.determineResultType( n.getClass(), expression.getJavaType() );

return new BinaryArithmeticOperation<N>(
this,
resultType,
BinaryArithmeticOperation.Operation.SUBTRACT,
n,
expression
);

@Override
@SuppressWarnings("unchecked")
public Expression<Number> quot(Expression<?, extends Number> expression1, Expression<?, extends Number> expression2) {
if ( expression1 == null || expression2 == null ) {
throw new IllegalArgumentException("arguments to quot() cannot be null");
}

final Class resultType = BinaryArithmeticOperation.determineResultType(expression1.getJavaType(),
expression2.getJavaType(), true);

return new BinaryArithmeticOperation<Number>(
    this,
    resultType,
    BinaryArithmeticOperation.Operation.DIVIDE,
    expression1,
    expression2
);

@Override
@.SuppressWarnings( {"unchecked"})
public Expression<Number> quot(Expression<? extends Number> expression, Number number) {
    if (expression == null || number == null) {
        throw new IllegalArgumentException("arguments to quot() cannot be null");
    }

    final Class resultType = BinaryArithmeticOperation.determineResultType(expression.getJavaType(),
number.getClass(), true);

    return new BinaryArithmeticOperation<Number>(
        this,
        resultType,
        BinaryArithmeticOperation.Operation.DIVIDE,
        expression,
        number
    );
}

@Override
@SuppressWarnings( {"unchecked"})
public Expression<Number> quot(Number number, Expression<? extends Number> expression) {
    if (expression == null || number == null) {
        throw new IllegalArgumentException("arguments to quot() cannot be null");
    }

    final Class resultType = BinaryArithmeticOperation.determineResultType(number.getClass(),
expression.getJavaType(), true);

    return new BinaryArithmeticOperation<Number>(
        this,
        resultType,
        BinaryArithmeticOperation.Operation.DIVIDE,
number,
expression
);

@override
public Expression<Integer> mod(Expression<Integer> expression1, Expression<Integer> expression2) {
if (expression1 == null || expression2 == null) {
throw new IllegalArgumentException("arguments to mod() cannot be null");
}
return new BinaryArithmeticOperation<Integer>(
    this,
    Integer.class,
    BinaryArithmeticOperation.Operation.MOD,
    expression1,
    expression2
);
}

@override
public Expression<Integer> mod(Expression<Integer> expression, Integer integer) {
if (expression == null || integer == null) {
throw new IllegalArgumentException("arguments to mod() cannot be null");
}
return new BinaryArithmeticOperation<Integer>(
    this,
    Integer.class,
    BinaryArithmeticOperation.Operation.MOD,
    expression,
    integer
);
}

@override
public Expression<Integer> mod(Integer integer, Expression<Integer> expression) {
if (integer == null || expression == null) {
throw new IllegalArgumentException("arguments to mod() cannot be null");
}
return new BinaryArithmeticOperation<Integer>(
    this,
    Integer.class,
    BinaryArithmeticOperation.Operation.MOD,
    integer,
    expression
);
// casting
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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/**
 * @inheritDoc
 */
public ExpressionImplementor<Long> toLong(Expression<? extends Number> expression) {
return ((ExpressionImplementor<? extends Number>) expression).asLong();
}

/**
 * @inheritDoc
 */
public ExpressionImplementor<Integer> toInteger(Expression<? extends Number> expression) {
return ((ExpressionImplementor<? extends Number>) expression).asInteger();
}

/**
 * @inheritDoc
 */
public ExpressionImplementor<Float> toFloat(Expression<? extends Number> expression) {
return ((ExpressionImplementor<? extends Number>) expression).asFloat();
}

/**
 * @inheritDoc
 */
public ExpressionImplementor<Double> toDouble(Expression<? extends Number> expression) {
return ((ExpressionImplementor<? extends Number>) expression).asDouble();
}

/**
 * @inheritDoc
 */
public ExpressionImplementor<BigDecimal> toBigDecimal(Expression<? extends Number> expression) {
return ((ExpressionImplementor<? extends Number>) expression).asBigDecimal();
}

/**
 * @inheritDoc
 */
public ExpressionImplementor<BigInteger> toBigInteger(Expression<? extends Number> expression) {
return ((ExpressionImplementor<? extends Number>) expression).asBigInteger();
}
/**
 * {@inheritDoc}
 */
public ExpressionImplementor<String> toString(Expression<Character> characterExpression) {
    return ((ExpressionImplementor<Character>) characterExpression).asString();
}

// subqueries
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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/**
 * {@inheritDoc}
 */
public Predicate exists(Subquery<?> subquery) {
    return new ExistsPredicate(this, subquery);
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings("unchecked")
public <Y> Expression<Y> all(Subquery<Y> subquery) {
    return new SubqueryComparisonModifierExpression<Y>(this,
        (Class<Y>) subquery.getJavaType(),
        subquery,
        SubqueryComparisonModifierExpression.Modifier.ALL);
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings("unchecked")
public <Y> Expression<Y> some(Subquery<Y> subquery) {
    return new SubqueryComparisonModifierExpression<Y>(this,
        (Class<Y>) subquery.getJavaType(),
        subquery,
        SubqueryComparisonModifierExpression.Modifier.SOME);
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public <Y> Expression<Y> any(Subquery<Y> subquery) {
    return new SubqueryComparisonModifierExpression<Y>(
        this,
        (Class<Y>) subquery.getJavaType(),
        subquery,
        SubqueryComparisonModifierExpression.Modifier.ANY
    );
}

// miscellaneous expressions
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~

/**
 * @inheritdoc
 */
@SuppressWarnings({ "RedundantCast" })
public <Y> Expression<Y> coalesce(Expression<? extends Y> exp1, Expression<? extends Y> exp2) {
    return coalesce( (Class<Y>) null, exp1, exp2 );
}

public <Y> Expression<Y> coalesce(Class<Y> type, Expression<? extends Y> exp1, Expression<? extends Y> exp2) {
    return new CoalesceExpression<Y>( this, type ).value( exp1 ).value( exp2 );
}

/**
 * @inheritdoc
 */
@ SuppressWarnings( "RedundantCast" )
public <Y> Expression<Y> coalesce(Expression<? extends Y> exp1, Y exp2) {
    return coalesce( (Class<Y>) null, exp1, exp2 );
}

public <Y> Expression<Y> coalesce(Class<Y> type, Expression<? extends Y> exp1, Y exp2) {
    return new CoalesceExpression<Y>( this, type ).value( exp1 ).value( exp2 );
}

/**
 * @inheritdoc
 */
public <T> Coalesce<T> coalesce() {
    return coalesce( (Class<T>)null );
}
public <T> Coalesce<T> coalesce(Class<T> type) {
    return new CoalesceExpression<T>(this, type);
}

/**
 * @inheritdoc
 */
public Expression<String> concat(Expression<String> string1, Expression<String> string2) {
    return new ConcatExpression(this, string1, string2);
}

/**
 * @inheritdoc
 */
public Expression<String> concat(Expression<String> string1, String string2) {
    return new ConcatExpression(this, string1, string2);
}

/**
 * @inheritdoc
 */
public Expression<String> concat(String string1, Expression<String> string2) {
    return new ConcatExpression(this, string1, string2);
}

/**
 * @inheritdoc
 */
public <Y> Expression<Y> nullif(Expression<Y> exp1, Expression<?> exp2) {
    return nullif(null, exp1, exp2);
}

public <Y> Expression<Y> nullif(Class<Y> type, Expression<Y> exp1, Expression<?> exp2) {
    return new NullifExpression<Y>(this, type, exp1, exp2);
}

/**
 * @inheritdoc
 */
public <Y> Expression<Y> nullif(Expression<Y> exp1, Y exp2) {
    return nullif(null, exp1, exp2);
}

public <Y> Expression<Y> nullif(Class<Y> type, Expression<Y> exp1, Y exp2) {
    return new NullifExpression<Y>(this, type, exp1, exp2);
}

/**
 * @inheritdoc
 */
public <Y> Expression<Y> nullif(Expression<Y> exp1, Y exp2) {
    return nullif(null, exp1, exp2);
}
public <C, R> SimpleCase<C, R> selectCase(Class<R> type, Expression<? extends C> expression) {
    return new SimpleCaseExpression<C, R>(this, type, expression);
}

public <R> Case<R> selectCase(Class<R> type) {
    return new SearchedCaseExpression<R>(this, type);
}

public <C extends Collection<?>> Expression<Integer> size(C c) {
    int size = c == null ? 0 : c.size();
    return new LiteralExpression<Integer>(this, Integer.class, size);
}

public <C extends Collection<?>> Expression<Integer> size(Expression<C> exp) {
    if (LiteralExpression.class.isInstance(exp)) {
        return size((LiteralExpression<C>) exp).getLiteral();
    }
    else if (PluralAttributePath.class.isInstance(exp)) {
        return new SizeOfCollectionExpression<C>(this, (PluralAttributePath<C>) exp);
    }
    // TODO: what other specific types? any?
    throw new IllegalArgumentException("unknown collection expression type [" + exp.getClass().getName() + "]");
}

public <V, M extends Map<?, V>> Expression<Collection<V>> values(M map) {
    return new LiteralExpression<Collection<V>>(this, map.values());
}
public <K, M extends Map<K, ?>> Expression<Set<K>> keys(M map) {
    return new LiteralExpression<Set<K>>(this, map.keySet());
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
public <C extends Collection<?>> Predicate isEmpty(Expression<C> collectionExpression) {
    if (PluralAttributePath.class.isInstance(collectionExpression)) {
        return new IsEmptyPredicate(this, (PluralAttributePath<C>) collectionExpression);
    }
    // TODO: what other specific types? any?
    throw new IllegalArgumentException("unknown collection expression type [" + collectionExpression.getClass().getName() + "]");
}

/**
 * {@inheritDoc}
 */
public <C extends Collection<?>> Predicate isNotEmpty(Expression<C> collectionExpression) {
    return isEmpty(collectionExpression).not();
}

/**
 * @inheritDoc
 */
public <E, C extends Collection<E>> Predicate isMember(E e, Expression<C> collectionExpression) {
    if (!PluralAttributePath.class.isInstance(collectionExpression)) {
        throw new IllegalArgumentException("unknown collection expression type [" + collectionExpression.getClass().getName() + "]");
    }
    return new MemberOfPredicate<E, C>(this, e, (PluralAttributePath<C>)collectionExpression);
}
public <E, C extends Collection<E>> Predicate isNotMember(E e, Expression<C> cExpression) {
    return isMember(e, cExpression).not();
}

/**
 * @inheritDoc
 */
public <E, C extends Collection<E>> Predicate isMember(Expression<E> elementExpression, Expression<C>
collectionExpression) {
    if (!PluralAttributePath.class.isInstance(collectionExpression)) {
        throw new IllegalArgumentException("unknown collection expression type ['" + collectionExpression.getClass().getName() + "]");
    }
    return new MemberOfPredicate<E, C>(
        this,
        elementExpression,
        (PluralAttributePath<C>)collectionExpression
    );
}

/**
 * @inheritDoc
 */
public <E, C extends Collection<E>> Predicate isNotMember(Expression<E> eExpression, Expression<C>
cExpression) {
    return isMember(eExpression, cExpression).not();
}

/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 * but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
 * or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License
 * for more details.
 */
package org.hibernate.ejb.criteria;
import javax.persistence.criteria.MapJoin;

/**
 * Specialization of [@link JoinImplementor] for [@link java.util.Map] typed attribute joins
 *
 * @author Steve Ebersole
 */
    /**
     * {@inheritDoc}
     * <p/>
     * Refined return type
     */
    public MapJoinImplementor<Z,K,V> correlateTo(CriteriaSubqueryImpl subquery);
}

* Hibernate, Relational Persistence for Idiomatic Java
*
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* Free Software Foundation, Inc.
* 51 Franklin Street, Fifth Floor
* Boston, MA  02110-1301  USA
*/
package org.hibernate.ejb.criteria;
import java.math.BigDecimal;
import java.math.BigInteger;
import javax.persistence.criteria.Expression;

/**
 * TODO : javadoc
 *
 * @author Steve Ebersole
 */
public interface ExpressionImplementor<T> extends SelectionImplementor<T>, Expression<T>, Renderable {
/**
 * See { @link javax.persistence.criteria.CriteriaBuilder#toLong }
 *
 * @return <tt>this</tt> but as a long
 */
public ExpressionImplementor<Long> asLong();

/**
 * See { @link javax.persistence.criteria.CriteriaBuilder#toInteger }
 *
 * @return <tt>this</tt> but as an integer
 */
public ExpressionImplementor<Integer> asInteger();

/**
 * See { @link javax.persistence.criteria.CriteriaBuilder#toFloat }
 *
 * @return <tt>this</tt> but as a float
 */
public ExpressionImplementor<Float> asFloat();

/**
 * See { @link javax.persistence.criteria.CriteriaBuilder#toDouble }
 *
 * @return <tt>this</tt> but as a double
 */
public ExpressionImplementor<Double> asDouble();

/**
 * See { @link javax.persistence.criteria.CriteriaBuilder#toBigDecimal }
 *
 * @return <tt>this</tt> but as a { @link BigDecimal }
 */
public ExpressionImplementor<BigDecimal> asBigDecimal();

/**
 * See { @link javax.persistence.criteria.CriteriaBuilder#toBigInteger }
 *
 * @return <tt>this</tt> but as a { @link BigInteger }
 */
public ExpressionImplementor<BigInteger> asBigInteger();

/**
 * See {@link javax.persistence.criteria.CriteriaBuilder#toString}
 * @return <tt>this</tt> but as a string
 */
public ExpressionImplementor<String> asString();
}
*/

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* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb.criteria;
import javax.persistence.criteria.SetJoin;

/**
 * Specialization of {@link JoinImplementor} for {@link java.util.Set} typed attribute joins
 * @author Steve Ebersole
 */
public interface SetJoinImplementor<Z,X> extends JoinImplementor<Z,X>, SetJoin<Z,X> { 
/**
 * [@inheritdoc]
 * Refined return type
 */
public SetJoinImplementor<Z,X> correlateTo(CriteriaSubqueryImpl subquery); 
}
package org.hibernate.ejb.criteria;
import java.io.Serializable;
import javax.persistence.criteria.Expression;
import javax.persistence.criteria.Order;

/**
 * Represents an ORDER BY fragment.
 *
 * @author Steve Ebersole
 */
public class OrderImpl implements Order, Serializable {
    private final Expression<?> expression;
    private boolean ascending;

    public OrderImpl(Expression<?> expression) {
        this( expression, true );
    }

    public OrderImpl(Expression<?> expression, boolean ascending) {
        this.expression = expression;
        this.ascending = ascending;
    }

    public Order reverse() {
        ascending = !ascending;
        return this;
    }

    public OrderImpl(Expression<?> expression) {
        this( expression, true );
    }

    public OrderImpl(Expression<?> expression, boolean ascending) {
        this.expression = expression;
        this.ascending = ascending;
    }

    public Order reverse() {
        ascending = !ascending;
    }

    public OrderImpl(Expression<?> expression) {
        this( expression, true );
    }

    public OrderImpl(Expression<?> expression, boolean ascending) {
        this.expression = expression;
        this.ascending = ascending;
    }

    public Order reverse() {
        ascending = !ascending;
    }

    public OrderImpl(Expression<?> expression) {
        this( expression, true );
    }

    public OrderImpl(Expression<?> expression, boolean ascending) {
        this.expression = expression;
        this.ascending = ascending;
    }

    public Order reverse() {
        ascending = !ascending;
    }

    public OrderImpl(Expression<?> expression) {
        this( expression, true );
    }

    public OrderImpl(Expression<?> expression, boolean ascending) {
        this.expression = expression;
        this.ascending = ascending;
    }

    public Order reverse() {
        ascending = !ascending;
    }
return this;
}

public boolean isAscending() {
return ascending;
}

gpublic Expression<? extends Object> getExpression() {
return expression;
}
*/

/*
 * Hibernate, Relational Persistence for Idiomatic Java
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 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */

package org.hibernate.ejb.criteria.path;

import java.io.Serializable;
import javax.persistence.criteria.Root;
import javax.persistence.metamodel.EntityType;
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.CriteriaSubqueryImpl;
import org.hibernate.ejb.criteria.FromImplementor;

/**
 * TODO : javadoc
 */

import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.CriteriaSubqueryImpl;
import org.hibernate.ejb.criteria.FromImplementor;

/**
 * TODO : javadoc
 */
* @author Steve Ebersole
* /
public class RootImpl<X> extends AbstractFromImpl<X,X> implements Root<X>, Serializable {
    private final EntityType<X> entityType;

    public RootImpl(
        CriteriaBuilderImpl criteriaBuilder,
        EntityType<X> entityType) {
        super( criteriaBuilder, entityType.getJavaType() );
        this.entityType = entityType;
    }

    public EntityType<X> getEntityType() {
        return entityType;
    }

    public EntityType<X> getModel() {
        return getEntityType();
    }

    @Override
    protected FromImplementor<X, X> createCorrelationDelegate() {
        return new RootImpl<X>( criteriaBuilder(), getEntityType() );
    }

    @Override
    public RootImpl<X> correlateTo(CriteriaSubqueryImpl subquery) {
        return (RootImpl<X>) super.correlateTo( subquery );
    }

    @Override
    protected boolean canBeJoinSource() {
        return true;
    }

    public String renderTableExpression(CriteriaQueryCompiler.RenderingContext renderingContext) {
        prepareAlias( renderingContext );
        return getModel().getName() + " as " + getAlias();
    }

    @Override
    public String getPathIdentifier() {
        return getAlias();
    }

    @Override
    public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
        prepareAlias( renderingContext );
        return getModel().getName() + " as " + getAlias();
    }
}
return getAlias();
}

@Override
public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    return render( renderingContext );
}
}

/*
 * Hibernate, Relational Persistence for Idiomatic Java
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 * along with this distribution; if not, write to:
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 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria.path;

import java.io.Serializable;
import javax.persistence.criteria.From;
import javax.persistence.criteria.JoinType;
import javax.persistence.metamodel.Attribute;
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.CriteriaSubqueryImpl;
import org.hibernate.ejb.criteria.FromImplementor;
import org.hibernate.ejb.criteria.JoinImplementor;
import org.hibernate.ejb.criteria.PathSource;

/**
 * TODO : javadoc
 */
public abstract class AbstractJoinImpl<Z, X>
    extends AbstractFromImpl<Z, X>
    implements JoinImplementor<Z,X>, Serializable {

    private final Attribute<? super Z, ?> joinAttribute;
    private final JoinType joinType;

    public AbstractJoinImpl(
        CriteriaBuilderImpl criteriaBuilder,
        PathSource<Z> pathSource,
        Attribute<? super Z, X> joinAttribute,
        JoinType joinType) {
        this( criteriaBuilder, joinAttribute.getJavaType(), pathSource, joinAttribute, joinType );
    }

    public AbstractJoinImpl(
        CriteriaBuilderImpl criteriaBuilder,
        Class<X> javaType,
        PathSource<Z> pathSource,
        Attribute<? super Z, ?> joinAttribute,
        JoinType joinType) {
        super( criteriaBuilder, javaType, pathSource );
        this.joinAttribute = joinAttribute;
        this.joinType = joinType;
    }

    /**
     * {@inheritDoc}
     */
    public Attribute<? super Z, ?> getAttribute() {
        return joinAttribute;
    }

    /**
     * {@inheritDoc}
     */
    public JoinType getJoinType() {
        return joinType;
    }

    /**
     * {@inheritDoc}
     */
    @SuppressWarnings({ "unchecked" })
    public From<?, Z> getParent() {
        // this cast should be ok by virtue of our constructors...
return (From<?, Z>) getPathSource();
}

public String renderTableExpression(CriteriaQueryCompiler.RenderingContext renderingContext) {
prepareAlias( renderingContext );
( (FromImplementor) getParent() ).prepareAlias( renderingContext );
return getParent().getAlias() + "." + getAttribute().getName() + " as " + getAlias();
}

public JoinImplementor<Z, X> correlateTo(CriteriaSubqueryImpl subquery) {
return (JoinImplementor<Z, X>) super.correlateTo( subquery );
}

/*
 * Hibernate, Relational Persistence for Idiomatic Java
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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */

package org.hibernate.ejb.criteria.path;

import java.io.Serializable;
import java.util.Collection;
import java.util.HashMap;
import java.util.Map;
import javax.persistence.criteria.Expression;
import javax.persistence.criteria.Path;
import javax.persistence.metamodel.Attribute;
import javax.persistence.metamodel.MapAttribute;
import javax.persistence.metamodel.PluralAttribute;
import javax.persistence.metamodel.SingularAttribute;

import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.ParameterRegistry;
import org.hibernate.ejb.criteria.PathImplementor;
import org.hibernate.ejb.criteria.PathSource;
import org.hibernate.ejb.criteria.expression.ExpressionImpl;
import org.hibernate.ejb.criteria.expression.PathTypeExpression;

/**
 * Convenience base class for various [@link Path] implementors.
 * @author Steve Ebersole
 */
public abstract class AbstractPathImpl<X>
    extends ExpressionImpl<X>
    implements Path<X>, PathImplementor<X>, Serializable {

    private final PathSource pathSource;
    private final Expression<Class<? extends X>> typeExpression;
    private Map<String, Path> attributePathRegistry;

    /**
     * Constructs a basic path instance.
     * @param criteriaBuilder The criteria builder
     * @param javaType The java type of this path
     * @param pathSource The source (or origin) from which this path originates
     */
    @SuppressWarnings({ "unchecked" })
public AbstractPathImpl(
        CriteriaBuilderImpl criteriaBuilder,
        Class<X> javaType,
        PathSource pathSource) {
        super( criteriaBuilder, javaType );
        this.pathSource = pathSource;
        this.typeExpression = new PathTypeExpression( criteriaBuilder(), getJavaType(), this );
    }

    public PathSource getPathSource() {
        return pathSource;
    }

    /**
     * [ @inheritDoc]
     */
    @Override
}
public PathSource<?> getParentPath() {
    return getPathSource();
}

/**
 * @inheritDoc
 */
@SuppressWarnings({ "unchecked" })
public Expression<Class<? extends X>> type() {
    return typeExpression;
}

/**
 * @inheritDoc
 */
@Override
public String getPathIdentifier() {
    return getPathSource().getPathIdentifier() + "." + getAttribute().getName();
}

protected abstract boolean canBeDereferenced();

protected final RuntimeException illegalDereference() {
    String message = "Illegal attempt to dereference path source";
    PathSource<?> source = getPathSource();
    if ( source != null ) {
        message += " [" + getPathSource().getPathIdentifier() + "]";
    }
    return new IllegalArgumentException(message);
}

protected final RuntimeException unknownAttribute(String attributeName) {
    String message = "Unable to resolve attribute [" + attributeName + "] against path";
    PathSource<?> source = getPathSource();
    if ( source != null ) {
        message += " [" + source.getPathIdentifier() + "]";
    }
    return new IllegalArgumentException(message);
}

protected final Path resolveCachedAttributePath(String attributeName) {
    return attributePathRegistry == null ? null : attributePathRegistry.get(attributeName);
}

protected final void registerAttributePath(String attributeName, Path path) {
    if ( attributePathRegistry == null ) {

attributePathRegistry = new HashMap<String, Path>();
}
attributePathRegistry.put( attributeName, path );
}

/**
 * @inheritDoc
 */
@SuppressWarnings({ "unchecked" })
@Override
public <Y> Path<Y> get(SingularAttribute<? super X, Y> attribute) {
if ( ! canBeDereferenced() ) {
throw illegalDereference();
}
SingularAttributePath<Y> path = (SingularAttributePath<Y>) resolveCachedAttributePath( attribute.getName() );
if ( path == null ) {
path = new SingularAttributePath<Y>( criteriaBuilder(), attribute.getJavaType(), this, attribute );
registerAttributePath( attribute.getName(), path );
}
return path;
}

/**
 * @inheritDoc
 */
@SuppressWarnings({ "unchecked" })
@Override
public <E, C extends Collection<E>> Expression<C> get(PluralAttribute<X, C, E> attribute) {
if ( ! canBeDereferenced() ) {
throw illegalDereference();
}
PluralAttributePath<C> path = (PluralAttributePath<C>) resolveCachedAttributePath( attribute.getName() );
if ( path == null ) {
path = new PluralAttributePath<C>( criteriaBuilder(), this, attribute );
registerAttributePath( attribute.getName(), path );
}
return path;
}

/**
 * @inheritDoc
 */
@SuppressWarnings({ "unchecked" })
@Override
public <K, V, M extends Map<K, V>> Expression<M> get(MapAttribute<X, K, V> attribute) {
if ( ! canBeDereferenced() ) {
throw illegalDereference();
}

PluralAttributePath path = (PluralAttributePath) resolveCachedAttributePath( attribute.getName() );
if ( path == null ) {
    path = new PluralAttributePath( criteriaBuilder(), this, attribute );
    registerAttributePath( attribute.getName(), path );
}
return path;

/**
 * {@inheritDoc}
 */
@SuppressWarnings( { "unchecked" } )
@Override
public <Y> Path<Y> get(String attributeName) {
    if ( ! canBeDereferenced() ) {
        throw illegalDereference();
    }

    final Attribute attribute = locateAttribute( attributeName );
    if ( attribute.isCollection() ) {
        final PluralAttribute<X,Y,?> pluralAttribute = (PluralAttribute<X,Y,?>) attribute;
        if ( ! PluralAttribute.CollectionType.MAP.equals( pluralAttribute.getCollectionType() ) ) {
            return (PluralAttributePath<Y>) this.<Object,Object,Map<Object, Object>>get( (MapAttribute) pluralAttribute );
        }
        else {
            return (PluralAttributePath<Y>) this.get( (PluralAttribute) pluralAttribute );
        }
    }
    else {
        return get( (SingularAttribute<X,Y>) attribute );
    }
}

/**
 * Get the attribute by name from the underlying model.  This allows subclasses to
 * define exactly how the attribute is derived.
 *
 * @param attributeName The name of the attribute to locate
 * @return The attribute; should never return null.
 * @throws IllegalArgumentException If no such attribute exists
 */
protected  final Attribute locateAttribute(String attributeName) {
final Attribute attribute = locateAttributeInternal( attributeName );
if ( attribute == null ) {
    throw unknownAttribute( attributeName );
}
return attribute;
}

/**
 * Get the attribute by name from the underlying model.  This allows subclasses to
 * define exactly how the attribute is derived.  Called from [link #locateAttribute]
 * which also applies nullness checking for proper error reporting.
 * @param attributeName The name of the attribute to locate
 * @return The attribute; may be null.
 * @throws IllegalArgumentException If no such attribute exists
 */
protected abstract Attribute locateAttributeInternal(String attributeName);

/**
 * [inheritDoc]
 */
@override
public void registerParameters(ParameterRegistry registry) {
    // none to register
}

@override
public void prepareAlias(CriteriaQueryCompiler.RenderingContext renderingContext) {
    // Make sure we delegate up to our source (eventually up to the path root) to
    // prepare the path properly.
    PathSource<?> source = getPathSource();
    if ( source != null ) {
        source.prepareAlias( renderingContext );
    }
}

/**
 * [inheritDoc]
 */
@override
public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
    PathSource<?> source = getPathSource();
    if ( source != null ) {
        source.prepareAlias( renderingContext );
        return source.getPathIdentifier() + "." + getAttribute().getName();
    } else {
        return getAttribute().getName();
    }
public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    return render( renderingContext );
}

import java.io.Serializable;
import java.util.Collections;
import java.util.LinkedHashSet;
import java.util.Set;
import javax.persistence.criteria.CollectionJoin;
import javax.persistence.criteria.Fetch;
import javax.persistence.criteria.From;
import javax.persistence.criteria.Join;
import javax.persistence.criteria.JoinType;
import javax.persistence.criteria.ListJoin;
import javax.persistence.criteria.MapJoin;
import javax.persistence.criteria.SetJoin;
import javax.persistence.metamodel.Attribute;
import javax.persistence.metamodel.CollectionAttribute;
import javax.persistence.metamodel.ListAttribute;
import javax.persistence.metamodel.ManagedType;
import javax.persistence.metamodel.MapAttribute;
import javax.persistence.metamodel.PluralAttribute;
import javax.persistence.metamodel.SetAttribute;
import javax.persistence.metamodel.SingularAttribute;
import javax.persistence.metamodel.Type;

import org.hibernate.ejb.criteria.BasicPathUsageException;
import org.hibernate.ejb.criteria.CollectionJoinImplementor;
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.CriteriaSubqueryImpl;
import org.hibernate.ejb.criteria.FromImplementor;
import org.hibernate.ejb.criteria.JoinImplementor;
import org.hibernate.ejb.criteria.ListJoinImplementor;
import org.hibernate.ejb.criteria.MapJoinImplementor;
import org.hibernate.ejb.criteria.PathSource;
import org.hibernate.ejb.criteria.SetJoinImplementor;

/**
 * Convenience base class for various { @link javax.persistence.criteria.From} implementors.
 * @author Steve Ebersole
 */
public abstract class AbstractFromImpl<Z,X>
extends AbstractPathImpl<X>
implements From<Z,X>, FromImplementor<Z,X>, Serializable {

public static final JoinType DEFAULT_JOIN_TYPE = JoinType.INNER;

private Set<Join<X, ?>> joins;
private Set<Fetch<X, ?>> fetches;

public AbstractFromImpl(CriteriaBuilderImpl criteriaBuilder, Class<X> javaType) {
this( criteriaBuilder, javaType, null );
}

public AbstractFromImpl(CriteriaBuilderImpl criteriaBuilder, Class<X> javaType, PathSource pathSource) {
supert( criteriaBuilder, javaType, pathSource );
}

@Override
@SuppressWarnings({ "unchecked" })
public PathSource<Z> getPathSource() {
return super.getPathSource();
}
```java
@Override
public String getPathIdentifier() {
    return getAlias();
}

@Override
protected boolean canBeDereferenced() {
    return true;
}

@Override
public void prepareAlias(CriteriaQueryCompiler.RenderingContext renderingContext) {
    if (getAlias() == null) {
        if (isCorrelated()) {
            setAlias(getCorrelationParent().getAlias());
        } else {
            setAlias(renderingContext.generateAlias());
        }
    }
}

@Override
public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    prepareAlias(renderingContext);
    return getAlias();
}

@Override
public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
    return renderProjection(renderingContext);
}

@Override
public Attribute<?, ?> getAttribute() {
    return null;
}

public From<?, Z> getParent() {
    return null;
}

@Override
@SuppressWarnings({ "unchecked" })
protected Attribute<X, ?> locateAttributeInternal(String name) {
    return (Attribute<X, ?>) locateManagedType().getAttribute(name);
}
```
protected ManagedType<? super X> locateManagedType() {
    // by default, this should be the model
    return (ManagedType<? super X>) getModel();
}

// CORRELATION
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~~~~~~~~~~~~~~
// IMPL NOTE: another means from handling correlations is to create a series of
// specialized From implementations that represent the correlation roots. While
// that may be cleaner code-wise, it is certainly means creating a lot of "extra"
// classes since we'd need one for each Subquery#correlate method

private FromImplementor<Z,X> correlationParent;

private JoinScope<X> joinScope = new BasicJoinScope();

/**
 * Helper contract used to define who/what keeps track of joins and fetches made from this <tt>FROM</tt>.
 */
public static interface JoinScope<X> extends Serializable {
    public void addJoin(Join<X, ?> join);
    public void addFetch(Fetch<X, ?> fetch);
}

protected class BasicJoinScope implements JoinScope<X> {
    @Override
    public void addJoin(Join<X, ?> join) {
        if ( joins == null ) {
            joins = new LinkedHashSet<Join<X,?>>();
        }
        joins.add( join );
    }

    @Override
    public void addFetch(Fetch<X, ?> fetch) {
        if ( fetches == null ) {
            fetches = new LinkedHashSet<Fetch<X,?>>();
        }
        fetches.add( fetch );
    }
}
protected class CorrelationJoinScope implements JoinScope<X> {
    @Override
    public void addJoin(Join<X, ?> join) {
        if (joins == null) {
            joins = new LinkedHashSet<Join<X, ?>>();
        }
        joins.add(join);
    }

    @Override
    public void addFetch(Fetch<X, ?> fetch) {
        throw new UnsupportedOperationException("Cannot define fetch from a subquery correlation");
    }

    @Override
    public boolean isCorrelated() {
        return getCorrelationParent() != null;
    }

    @Override
    public FromImplementor<Z, X> getCorrelationParent() {
        return correlationParent;
    }

    @Override
    @SuppressWarnings({"unchecked"})
    public FromImplementor<Z, X> correlateTo(CriteriaSubqueryImpl subquery) {
        final FromImplementor<Z, X> correlationDelega = createCorrelationDelegate();
        correlationDelega.prepareCorrelationDelegate(this);
        return correlationDelega;
    }

    protected abstract FromImplementor<Z, X> createCorrelationDelegate();

    @Override
    public void prepareCorrelationDelegate(FromImplementor<Z, X> parent) {
        this.joinScope = new CorrelationJoinScope();
        this.correlationParent = parent;
    }

    @Override
    public String getAlias() {
        return isCorrelated() ? getCorrelationParent().getAlias() : super.getAlias();
    }

    // JOINS
....................................................................................................................
protected abstract boolean canBeJoinSource();

private RuntimeException illegalJoin() {
return new IllegalArgumentException(
"Collection of values [" + getPathIdentifier() + "] cannot be source of a join"
);
}

@Override
@SuppressWarnings("unchecked")
public Set<Join<X, ?>> getJoins() {
return joins == null
? Collections.EMPTY_SET
: joins;
}

@Override
public <Y> Join<X, Y> join(SingularAttribute<? super X, Y> attribute, JoinType jt) {
if ( ! canBeJoinSource() ) {
throw illegalJoin();
}

Join<X, Y> join = constructJoin( attribute, jt );
joinScope.addJoin( join );
return join;
}

private <Y> JoinImplementor<X, Y> constructJoin(SingularAttribute<? super X, Y> attribute, JoinType jt) {
if ( Type.PersistenceType.BASIC.equals( attribute.getType().getPersistenceType() ) ) {
throw new BasicPathUsageException( "Cannot join to attribute of basic type", attribute );
}

// TODO : runtime check that the attribute in fact belongs to this From's model/bindable
if ( jt.equals( JoinType.RIGHT ) ) {
throw new UnsupportedOperationException( "RIGHT JOIN not supported" );
}

final Class<Y> attributeType = attribute.getBindableJavaType();
return new SingularAttributeJoin<X,Y>(
criteriaBuilder(),
attributeType,
attribute, getJoinScope(),
jt,
attribute
)
attributeType,
this,
attribute,
jt);
}

@Override
public <Y> CollectionJoin<X, Y> join(CollectionAttribute<? super X, Y> collection) {
return join( collection, DEFAULT_JOIN_TYPE );
}

@Override
public <Y> CollectionJoin<X, Y> join(CollectionAttribute<? super X, Y> collection, JoinType jt) {
if ( ! canBeJoinSource() ) {
throw illegalJoin();
}

final CollectionJoin<X, Y> join = constructJoin( collection, jt );
joinScope.addJoin( join );
return join;
}

private <Y> CollectionJoinImplementor<X, Y> constructJoin(CollectionAttribute<? super X, Y> collection,
JoinType jt) {
if ( jt.equals( JoinType.RIGHT ) ) {
throw new UnsupportedOperationException( "RIGHT JOIN not supported" );
}

// TODO : runtime check that the attribute in fact belongs to this From's model/bindable

final Class<Y> attributeType = collection.getBindableJavaType();
return new CollectionAttributeJoin<X, Y>(
criteriaBuilder(),
attributeType,
this,
collection,
jt);
}

@Override
public <Y> SetJoin<X, Y> join(SetAttribute<? super X, Y> set) {
return join( set, DEFAULT_JOIN_TYPE );
}

@Override
public <Y> SetJoin<X, Y> join(SetAttribute<? super X, Y> set, JoinType jt) {
if ( ! canBeJoinSource() ) {
    throw illegalJoin();
}

final SetJoin<X, Y> join = constructJoin(set, jt);
joinScope.addJoin(join);
return join;

private <Y> SetJoinImplementor<X, Y> constructJoin(SetAttribute<? super X, Y> set, JoinType jt) {
    if (jt.equals(JoinType.RIGHT)) {
        throw new UnsupportedOperationException("RIGHT JOIN not supported");
    }

    // TODO : runtime check that the attribute in fact belongs to this From's model/bindable

    final Class<Y> attributeType = set.getBindableJavaType();
    return new SetAttributeJoin<X,Y>(criteriaBuilder(), attributeType, this, set, jt);
}

@Override
public <Y> ListJoin<X, Y> join(ListAttribute<? super X, Y> list) {
    return join(list, DEFAULT_JOIN_TYPE);
}

@Override
public <Y> ListJoin<X, Y> join(ListAttribute<? super X, Y> list, JoinType jt) {
    if ( ! canBeJoinSource() ) {
        throw illegalJoin();
    }

    final ListJoin<X, Y> join = constructJoin(list, jt);
    joinScope.addJoin(join);
    return join;

    private <Y> ListJoinImplementor<X, Y> constructJoin(ListAttribute<? super X, Y> list, JoinType jt) {
        if (jt.equals(JoinType.RIGHT)) {
            throw new UnsupportedOperationException("RIGHT JOIN not supported");
        }

        // TODO : runtime check that the attribute in fact belongs to this From's model/bindable

        final Class<Y> attributeType = list.getBindableJavaType();
        return new ListAttributeJoin<X,Y>(criteriaBuilder(), attributeType, this, list, jt);
    }

    @Override

public <K, V> MapJoin<X, K, V> join(MapAttribute<? super X, K, V> map) {
    return join( map, DEFAULT_JOIN_TYPE );
}

@Override
public <K, V> MapJoin<X, K, V> join(MapAttribute<? super X, K, V> map, JoinType jt) {
    if ( ! canBeJoinSource() ) {
        throw illegalJoin();
    }

    final MapJoin<X, K, V> join = constructJoin( map, jt );
    joinScope.addJoin( join );
    return join;
}

private <K, V> MapJoinImplementor<X, K, V> constructJoin(MapAttribute<? super X, K, V> map, JoinType jt) {
    if ( jt.equals( JoinType.RIGHT ) ) {
        throw new UnsupportedOperationException( "RIGHT JOIN not supported" );
    }

    // TODO : runtime check that the attribute in fact belongs to this From's model/bindable

    final Class<V> attributeType = map.getBindableJavaType();
    return new MapAttributeJoin<X, K, V>( criteriaBuilder(), attributeType, this, map, jt );
}

@Override
public <X,Y> Join<X, Y> join(String attributeName) {
    return join( attributeName, DEFAULT_JOIN_TYPE );
}

@Override
@SuppressWarnings({ "unchecked" })
public <X,Y> Join<X, Y> join(String attributeName, JoinType jt) {
    if ( ! canBeJoinSource() ) {
        throw illegalJoin();
    }

    if ( jt.equals( JoinType.RIGHT ) ) {
        throw new UnsupportedOperationExeception( "RIGHT JOIN not supported" );
    }

    final Attribute<X,?> attribute = (Attribute<X, ?>) locateAttribute( attributeName );
    if ( attribute.isCollection() ) {
        final PluralAttribute pluralAttribute = ( PluralAttribute ) attribute;
        if ( PluralAttribute_COLLECTION_EQUALS( pluralAttribute.getCollectionType() ) ) {
            return (Join<X,Y>) join( (CollectionAttribute) attribute, jt );
        }
    }

    // runtime check that the attribute in fact belongs to this From's model/bindable

    final Class<Y> attributeType = map.getBindableJavaType();
    return new MapAttributeJoin<X, K, V>( criteriaBuilder(), attributeType, this, map, jt );
}
else if ( PluralAttribute.CollectionType.LIST.equals( pluralAttribute.getCollectionType() ) ) {
    return (Join<X,Y>) join( (ListAttribute) attribute, jt );
}
else if ( PluralAttribute.CollectionType.SET.equals( pluralAttribute.getCollectionType() ) ) {
    return (Join<X,Y>) join( (SetAttribute) attribute, jt );
}
else {
    return (Join<X,Y>) join( (MapAttribute) attribute, jt );
}
}

@Override
public <X,Y> CollectionJoin<X, Y> joinCollection(String attributeName) {
    return joinCollection( attributeName, DEFAULT_JOIN_TYPE );
}

@Override
@SuppressWarnings({ "unchecked" })
public <X,Y> CollectionJoin<X, Y> joinCollection(String attributeName, JoinType jt) {
    final Attribute<X,?> attribute = (Attribute<X, ?>) locateAttribute( attributeName );
    if ( ! attribute.isCollection() ) {
        throw new IllegalArgumentException( "Requested attribute was not a collection" );
    }
    final PluralAttribute pluralAttribute = ( PluralAttribute ) attribute;
    if ( ! pluralAttribute.CollectionType.COLLECTION.equals( pluralAttribute.getCollectionType() ) ) {
        throw new IllegalArgumentException( "Requested attribute was not a collection" );
    }
    return (CollectionJoin<X,Y>) join( (CollectionAttribute) attribute, jt );
}

@Override
public <X,Y> SetJoin<X, Y> joinSet(String attributeName) {
    return joinSet( attributeName, DEFAULT_JOIN_TYPE );
}

@Override
@SuppressWarnings({ "unchecked" })
public <X,Y> SetJoin<X, Y> joinSet(String attributeName, JoinType jt) {
    final Attribute<X,?> attribute = (Attribute<X, ?>) locateAttribute( attributeName );
    if ( ! attribute.isCollection() ) {
        throw new IllegalArgumentException( "Requested attribute was not a collection" );
    }
    return (SetJoin<X,Y>) join( (SetAttribute) attribute, jt );
}
final PluralAttribute pluralAttribute = ( PluralAttribute ) attribute;
if ( ! PluralAttribute.CollectionType.SET.equals( pluralAttribute.getCollectionType() ) ) {
    throw new IllegalArgumentException( "Requested attribute was not a set" );
}
return (SetJoin<X,Y>) join( (SetAttribute) attribute, jt );
}

@Override
public <X,Y> ListJoin<X, Y> joinList(String attributeName) {
return joinList( attributeName, DEFAULT_JOIN_TYPE );
}

@Override
@SuppressWarnings( { "unchecked" } )
public <X,Y> ListJoin<X, Y> joinList(String attributeName, JoinType jt) {
final Attribute<X,?> attribute = (Attribute<X,?>) locateAttribute( attributeName );
if ( ! attribute.isCollection() ) {
    throw new IllegalArgumentException( "Requested attribute was not a list" );
}
final PluralAttribute pluralAttribute = ( PluralAttribute ) attribute;
if ( ! PluralAttribute.CollectionType.LIST.equals( pluralAttribute.getCollectionType() ) ) {
    throw new IllegalArgumentException( "Requested attribute was not a list" );
}
return (ListJoin<X,Y>) join( (ListAttribute) attribute, jt );
}

@Override
@SuppressWarnings( { "unchecked" } )
public <X, K, V> MapJoin<X, K, V> joinMap(String attributeName) {
return joinMap( attributeName, DEFAULT_JOIN_TYPE );
}

@Override
@SuppressWarnings( { "unchecked" } )
public <X, K, V> MapJoin<X, K, V> joinMap(String attributeName, JoinType jt) {
final Attribute<X,?> attribute = (Attribute<X,?>) locateAttribute( attributeName );
if ( ! attribute.isCollection() ) {
    throw new IllegalArgumentException( "Requested attribute was not a map" );
}
final PluralAttribute pluralAttribute = ( PluralAttribute ) attribute;
if ( ! PluralAttribute.CollectionType.MAP.equals( pluralAttribute.getCollectionType() ) ) {
    throw new IllegalArgumentException( "Requested attribute was not a map" );
}
return (MapJoin<X,K,V>) join( (MapAttribute) attribute, jt );
}

// FETCHES
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
protected boolean canBeFetchSource() {
// the conditions should be the same...
return canBeJoinSource();
}

private RuntimeException illegalFetch() {
return new IllegalArgumentException(
"Collection of values [" + getPathIdentifier() + "] cannot be source of a fetch"
);
}

@Override
@SuppressWarnings({ "unchecked" })
public Set<Fetch<X, ?>> getFetches() {
return fetches == null
? Collections.EMPTY_SET
: fetches;
}

@Override
public <Y> Fetch<X, Y> fetch(SingularAttribute<? super X, Y> singularAttribute) {
return fetch( singularAttribute, DEFAULT_JOIN_TYPE );
}

@Override
public <Y> Fetch<X, Y> fetch(SingularAttribute<? super X, Y> attribute, JoinType jt) {
if (! canBeFetchSource() ) {
throw illegalFetch();
}

Fetch<X, Y> fetch = constructJoin( attribute, jt );
joinScope.addFetch( fetch );
return fetch;
}

@Override
public <Y> Fetch<X, Y> fetch(PluralAttribute<? super X, ?, Y> pluralAttribute) {
return fetch( pluralAttribute, DEFAULT_JOIN_TYPE );
}
@Override
public <Y> Fetch<X, Y> fetch(PluralAttribute<? super X, ?, Y> pluralAttribute, JoinType jt) {
if (! canBeFetchSource()) {
    throw illegalFetch();
}

final Fetch<X, Y> fetch;
// TODO : combine Fetch and Join hierarchies (JoinImplementor extends Join,Fetch???)
if ( PluralAttribute.CollectionType.COLLECTION.equals( pluralAttribute.getCollectionType() ) ) {
    fetch = constructJoin( (CollectionAttribute<X,Y>) pluralAttribute, jt );
}
else if ( PluralAttribute.CollectionType.LIST.equals( pluralAttribute.getCollectionType() ) ) {
    fetch = constructJoin( (ListAttribute<X,Y>) pluralAttribute, jt );
}
else if ( PluralAttribute.CollectionType.SET.equals( pluralAttribute.getCollectionType() ) ) {
    fetch = constructJoin( (SetAttribute<X,Y>) pluralAttribute, jt );
}
else {
    fetch = constructJoin( (MapAttribute<X,?,Y>) pluralAttribute, jt );
}
joinScope.addFetch( fetch );
return fetch;
}

@Override
public <X,Y> Fetch<X, Y> fetch(String attributeName) {
return fetch( attributeName, DEFAULT_JOIN_TYPE );
}

@Override
@SuppressWarnings( { "unchecked" } )
public <X,Y> Fetch<X, Y> fetch(String attributeName, JoinType jt) {
if (! canBeFetchSource()) {
    throw illegalFetch();
}

Attribute<X,?> attribute = (Attribute<X, ?>) locateAttribute( attributeName );
if ( attribute.isCollection() ) {
    return (Fetch<X, Y>) fetch( (PluralAttribute) attribute, jt );
}
else {
    return (Fetch<X, Y>) fetch( (SingularAttribute) attribute, jt );
}
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
package org.hibernate.ejb.criteria.expression;

import java.io.Serializable;
import java.util.ArrayList;
import java.util.List;
import javax.persistence.Tuple;
import javax.persistence.criteria.CompoundSelection;
import javax.persistence.criteria.Selection;
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.ParameterRegistry;
import org.hibernate.ejb.criteria.Renderable;
import org.hibernate.ejb.criteria.TupleElementImplementor;
import org.hibernate.ejb.criteria.ValueHandlerFactory;

/**
 * The Hibernate implementation of the JPA {@link CompoundSelection} contract.
 *
 * @author Steve Ebersole
 */
public class CompoundSelectionImpl<X> extends SelectionImpl<X> implements CompoundSelection<X>, Renderable, Serializable {
    private final boolean isConstructor;
    private List<Selection<?>> selectionItems;

    import java.io.Serializable;
    import java.util.ArrayList;
    import java.util.List;
    import javax.persistence.Tuple;
    import javax.persistence.criteria.CompoundSelection;
    import javax.persistence.criteria.Selection;
    import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
    import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
    import org.hibernate.ejb.criteria.ParameterRegistry;
    import org.hibernate.ejb.criteria.Renderable;
    import org.hibernate.ejb.criteria.TupleElementImplementor;
    import org.hibernate.ejb.criteria.ValueHandlerFactory;

    /**
     * The Hibernate implementation of the JPA {@link CompoundSelection}
     * contract.
     *
     * @author Steve Ebersole
     */
    public class CompoundSelectionImpl<X>
    extends SelectionImpl<X>
    implements CompoundSelection<X>, Renderable, Serializable {
        private final boolean isConstructor;
        private List<Selection<?>> selectionItems;
public CompoundSelectionImpl(
CriteriaBuilderImpl criteriaBuilder,
Class<X> javaType,
List<Selection<?>> selectionItems) {
    super( criteriaBuilder, javaType );
    this.isConstructor = !javaType.isArray() && !Tuple.class.isAssignableFrom( javaType );
    this.selectionItems = selectionItems;
}

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

@Override
public List<Selection<?>> getCompoundSelectionItems() {
    return selectionItems;
}

@Override
public List<ValueHandlerFactory.ValueHandler> getValueHandlers() {
    if ( isConstructor ) {
        return null;
    }
    boolean foundHandlers = false;
    ArrayList<ValueHandlerFactory.ValueHandler> valueHandlers = new ArrayList<ValueHandlerFactory.ValueHandler>();
    for ( Selection selection : getCompoundSelectionItems() ) {
        ValueHandlerFactory.ValueHandler valueHandler = ( (TupleElementImplementor) selection ).getValueHandler();
        valueHandlers.add( valueHandler );
        foundHandlers = foundHandlers || valueHandler != null;
    }
    return foundHandlers ? null : valueHandlers;
}

public void registerParameters(ParameterRegistry registry) {
    for ( Selection selectionItem : getCompoundSelectionItems() ) {
        Helper.possibleParameter(selectionItem, registry);
    }
}

public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
    StringBuilder buff = new StringBuilder();
    if ( isConstructor ) {
        buff.append( "new " ).append( getJavaType().getName() ).append( '(' );
    }
    String sep = "";
    for ( Selection selection : selectionItems ) {
        buff.append( selection.render( renderingContext ) );
        sep = ",
    }
    return buff.toString();
}
buff.append( sep )
.append( ( (Renderable) selection ).renderProjection( renderingContext ) );
sep = "", ";
}
if ( isConstructor ) {
  buff.append(')');
}
return buff.toString();
}

public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
  return render( renderingContext );
}

/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */

package org.hibernate.ejb.criteria.expression;

import java.io.Serializable;
import java.math.BigDecimal;
import java.math.BigInteger;
import java.util.Collection;
import javax.persistence.criteria.Expression;
import javax.persistence.criteria.Predicate;
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.ExpressionImplementor;
import org.hibernate.ejb.criteria.expression.function.CastFunction;

/**
 * Models an expression in the criteria query language.
 *
 * @author Steve Ebersole
 */
public abstract class ExpressionImpl<T>
    extends SelectionImpl<T>
    implements ExpressionImplementor<T>, Serializable {
    public ExpressionImpl(CriteriaBuilderImpl criteriaBuilder, Class<T> javaType) {
        super( criteriaBuilder, javaType );
    }

    /**
     * {@inheritDoc}
     */
    @SuppressWarnings({ "unchecked" })
    public <X> Expression<X> as(Class<X> type) {
        return type.equals( getJavaType() )
            ? (Expression<X>) this
            : new CastFunction<X, T>( criteriaBuilder(), type, this );
    }

    /**
     * {@inheritDoc}
     */
    public Predicate isNull() {
        return criteriaBuilder().isNull( this );
    }

    /**
     * {@inheritDoc}
     */
    public Predicate isNotNull() {
        return criteriaBuilder().isNotNull( this );
    }

    /**
     * {@inheritDoc}
     */
    public Predicate in(Object... values) {
        return criteriaBuilder().in( this, values );
    }

}
public Predicate in(Expression<?>... values) {
    return criteriaBuilder().in( this, values );
}

/**
 * {@inheritDoc}
 */
public Predicate in(Collection<?> values) {
    return criteriaBuilder().in( this, values.toArray() );
}

/**
 * {@inheritDoc}
 */
public Predicate in(Expression<Collection<?>> values) {
    return criteriaBuilder().in( this, values );
}

/**
 * @SuppressWarnings({ "unchecked" })
 */
@SuppressWarnings({ "unchecked" } )
public ExpressionImplementor<Long> asLong() {
    resetJavaType( Long.class );
    return (ExpressionImplementor<Long>) this;
}

/**
 * @SuppressWarnings({ "unchecked" })
 */
@SuppressWarnings({ "unchecked" } )
public ExpressionImplementor<Integer> asInteger() {
    resetJavaType( Integer.class );
    return (ExpressionImplementor<Integer>) this;
}

/**
 * @SuppressWarnings({ "unchecked" })
 */
@SuppressWarnings({ "unchecked" } )
public ExpressionImplementor<Float> asFloat() {
    resetJavaType( Float.class );
    return (ExpressionImplementor<Float>) this;
}
@SuppressWarnings({ "unchecked" })
public ExpressionImplementor<Double> asDouble() {
    resetJavaType( Double.class );
    return (ExpressionImplementor<Double>) this;
}

/**
 * @inheritDoc
 */
@SuppressWarnings({ "unchecked" })
public ExpressionImplementor<BigDecimal> asBigDecimal() {
    resetJavaType( BigDecimal.class );
    return (ExpressionImplementor<BigDecimal>) this;
}

/**
 * @inheritDoc
 */
@SuppressWarnings({ "unchecked" })
public ExpressionImplementor<BigInteger> asBigInteger() {
    resetJavaType( BigInteger.class );
    return (ExpressionImplementor<BigInteger>) this;
}

/**
 * @inheritDoc
 */
@SuppressWarnings({ "unchecked" })
public ExpressionImplementor<String> asString() {
    resetJavaType( String.class );
    return (ExpressionImplementor<String>) this;
}

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 *
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 * but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
 * or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License
 */
import java.io.Serializable;
import java.util.ArrayList;
import java.util.List;
import javax.persistence.criteria.CriteriaBuilder.SimpleCase;
import javax.persistence.criteria.Expression;
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.ParameterRegistry;
import org.hibernate.ejb.criteria.Renderable;

/**
 * Models what ANSI SQL terms a simple case statement. This is a <tt>CASE</tt> expression in the form<pre>
 * CASE [expression]
 * WHEN [firstCondition] THEN [firstResult]
 * WHEN [secondCondition] THEN [secondResult]
 * ELSE [defaultResult]
 * END
 * </pre>
 * @author Steve Ebersole
 */
public class SimpleCaseExpression<C,R>
extends ExpressionImpl<R>
implements SimpleCase<C,R>,Serializable {
private Class<R> javaType;
private final Expression<? extends C> expression;
private List<WhenClause> whenClauses = new ArrayList<WhenClause>();
private Expression<? extends R> otherwiseResult;

public class WhenClause {
private final C condition;
private final Expression<? extends R> result;
public WhenClause(C condition, Expression<? extends R> result) {
this.condition = condition;
this.result = result;
}
public C getCondition() {
    return condition;
}

public Expression<? extends R> getResult() {
    return result;
}

public SimpleCaseExpression(
    CriteriaBuilderImpl criteriaBuilder,
    Class<R> javaType,
    Expression<? extends C> expression) {
    super( criteriaBuilder, javaType);
    this.javaType = javaType;
    this.expression = expression;
}

@ SuppressWarnings({ "unchecked" })
public Expression<C> getExpression() {
    return (Expression<C>) expression;
}

public SimpleCase<C, R> when(C condition, R result) {
    return when( condition, buildLiteral(result) );
}

@ SuppressWarnings({ "unchecked" })
private Class<R> buildLiteral(R result) {
    final Class<R> type = result != null
        ? (Class<R>) result.getClass() :
        getJavaType();
    return new LiteralExpression<R>( criteriaBuilder(), type, result );
}

public SimpleCase<C, R> when(C condition, Expression<? extends R> result) {
    WhenClause whenClause = new WhenClause( condition, result );
    whenClauses.add( whenClause );
    adjustJavaType( result );
    return this;
}

@ SuppressWarnings({ "unchecked" })
private void adjustJavaType(Expression<? extends R> exp) {
    if ( javaType == null ) {
        javaType = (Class<R>) exp.getJavaType();
    }
public Expression<? extends R> getOtherwiseResult() {
    return otherwiseResult;
}

public List<WhenClause> getWhenClauses() {
    return whenClauses;
}

public void registerParameters(ParameterRegistry registry) {
    Helper.possibleParameter( getExpression(), registry );
    for ( WhenClause whenClause : getWhenClauses() ) {
        Helper.possibleParameter( whenClause.getResult(), registry );
    }
    Helper.possibleParameter( getOtherwiseResult(), registry );
}

public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
    StringBuilder caseExpr = new StringBuilder();
    caseExpr.append( "case " )
        .append( ((Renderable) getExpression()).render( renderingContext ) )
        .append( " then " )
    for ( WhenClause whenClause : getWhenClauses() ) {
        caseExpr.append( ((Renderable) whenClause.getCondition()).render( renderingContext ) )
            .append( " then " )
        .append( ((Renderable) whenClause.getResult()).render( renderingContext ) );
    }
    caseExpr.append( " else " )
        .append( ((Renderable) getOtherwiseResult()).render( renderingContext ) )
        .append( " end" );
    return caseExpr.toString();
}

public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    return render( renderingContext );
}
package org.hibernate.ejb.criteria.expression;

import java.io.Serializable;
import java.util.Collections;
import java.util.List;
import javax.persistence.criteria.Selection;
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.ParameterContainer;
import org.hibernate.ejb.criteria.SelectionImplementor;
import org.hibernate.ejb.criteria.ValueHandlerFactory;

/**
 * The Hibernate implementation of the JPA Selection contract.
 *
 * @author Steve Ebersole
 */
public abstract class SelectionImpl<X>
    extends AbstractTupleElement<X>
    implements SelectionImplementor<X>, ParameterContainer, Serializable {

    public SelectionImpl(CriteriaBuilderImpl criteriaBuilder, Class<X> javaType) {
        super( criteriaBuilder, javaType );
    }

    /**
     * The Hibernate implementation of the JPA Selection contract.
     * @link Selection
     */
    public abstract class SelectionImpl<X> 
    extends AbstractTupleElement<X> 
    implements SelectionImplementor<X>, ParameterContainer, Serializable {
        public SelectionImpl(CriteriaBuilderImpl criteriaBuilder, Class<X> javaType) {
            super( criteriaBuilder, javaType );
        }
    }
public Selection<X> alias(String alias) {
    setAlias( alias );
    return this;
}

public boolean isCompoundSelection() {
    return false;
}

public List<ValueHandlerFactory.ValueHandler> getValueHandlers() {
    return getValueHandler() == null
        ? null
        : Collections.singletonList( (ValueHandlerFactory.ValueHandler) getValueHandler() );
}

public List<Selection<?>> getCompoundSelectionItems() {
    throw new IllegalStateException( "Not a compound selection" );
}

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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */

import java.io.Serializable;
import javax.persistence.criteria.ParameterExpression;
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.CriteriaQueryCompiler;
import org.hibernate.ejb.criteria.ParameterRegistry;

/**
 * Defines a parameter specification, or the information about a parameter (where it occurs, what is
 * its type, etc).
 *
 * @author Steve Ebersole
 */
public class ParameterExpressionImpl<T>
    extends ExpressionImpl<T>
    implements ParameterExpression<T>, Serializable {
private final String name;
private final Integer position;

public ParameterExpressionImpl(
    CriteriaBuilderImpl criteriaBuilder,
    Class<T> javaType,
    String name) {
    super( criteriaBuilder, javaType );
    this.name = name;
    this.position = null;
}

public ParameterExpressionImpl(
    CriteriaBuilderImpl criteriaBuilder,
    Class<T> javaType,
    Integer position) {
    super( criteriaBuilder, javaType );
    this.name = null;
    this.position = position;
}

public ParameterExpressionImpl(
    CriteriaBuilderImpl criteriaBuilder,
    Class<T> javaType) {
    super( criteriaBuilder, javaType );
    this.name = null;
    this.position = null;
}

public String getName() {
    return name;
}

public Integer getPosition() {
    return position;
}
public Class<T> getParameterType() {
    return getJavaType();
}

public void registerParameters(ParameterRegistry registry) {
    registry.registerParameter( this );
}

public String render(CriteriaQueryCompiler.RenderingContext renderingContext) {
    final String jpaqlParamName = renderingContext.registerExplicitParameter( this );
    return ':' + jpaqlParamName;
}

public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    return render( renderingContext );
}

package org.hibernate.ejb.criteria.predicate;

import java.io.Serializable;
import java.util.List;
import javax.persistence.criteria.Predicate;
import javax.persistence.criteria.Selection;
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.expression.ExpressionImpl;

/**
 * Basic template support for {@link Predicate} implementors providing
 * expression handling, negation and conjunction/disjunction handling.
 *
 * @author Steve Ebersole
 */
public abstract class AbstractPredicateImpl
  extends ExpressionImpl<Boolean>
  implements Predicate, Serializable {

  private boolean negated;

  protected AbstractPredicateImpl(CriteriaBuilderImpl criteriaBuilder) {
    super( criteriaBuilder, Boolean.class );
  }

  public boolean isNegated() {
    return negated;
  }

  public Predicate not() {
    negated = !negated;
    return this;
  }

  // Selection ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

  @Override
  public final boolean isCompoundSelection() {
    // Should always be false for predicates
    return super.isCompoundSelection();
  }

  @Override
  public final List<Selection<?>> getCompoundSelectionItems() {
    // Should never have sub selection items for predicates
    return super.getCompoundSelectionItems();
  }

  }

  /*
   * Hibernate, Relational Persistence for Idiomatic Java
   *
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*/
package org.hibernate.ejb.criteria.predicate;

import java.io.Serializable;
import java.util.Collections;
import java.util.List;
import javax.persistence.criteria.Expression;
import org.hibernate.ejb.criteria.CriteriaBuilderImpl;

/**
 * TODO : javadoc
 *
 * @author Steve Ebersole
 */
public abstract class AbstractSimplePredicate
extends AbstractPredicateImpl
implements Serializable {
    private static final List<Expression<Boolean>> NO_EXPRESSIONS = Collections.emptyList();

    public AbstractSimplePredicate(CriteriaBuilderImpl criteriaBuilder) {
        super( criteriaBuilder );
    }

    public BooleanOperator getOperator() {
        return BooleanOperator.AND;
    }

    public final List<Expression<Boolean>> getExpressions() {
        return NO_EXPRESSIONS;
    }
}
import java.math.BigDecimal;
import java.math.BigInteger;

/**
 * @author Steve Ebersole
 */

public class ImplicitNumericExpressionTypeDeterminer {

    /**
     * Determine the appropriate runtime result type for a numeric expression according to
     * section "6.5.7.1 Result Types of Expressions" of the JPA spec.
     * <p/>
     * Note that it is expected that the caveats about quotient handling have already been handled.
     * 
     * @param types The argument/expression types
     * 
     * @return The appropriate numeric result type.
     */

    public static Class<? extends Number> determineResultType(Class<? extends Number>... types) {
        Class<? extends Number> result = Number.class;
        return result;
    }
}
for ( Class<? extends Number> type : types ) {
    if ( Double.class.equals( type ) ) {
        result = Double.class;
    } else if ( Float.class.equals( type ) ) {
        result = Float.class;
    } else if ( BigDecimal.class.equals( type ) ) {
        result = BigDecimal.class;
    } else if ( BigInteger.class.equals( type ) ) {
        result = BigInteger.class;
    } else if ( Long.class.equals( type ) ) {
        result = Long.class;
    } else if ( isIntegralType( type ) ) {
        result = Integer.class;
    }
}

return result;
}

private static boolean isIntegralType(Class<? extends Number> type) {
    return Integer.class.equals( type ) ||
           Short.class.equals( type );
}

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public class MetamodelImpl implements Metamodel, Serializable {
    private final Map<Class<?>, EntityTypeImpl<?>> entities;
    private final Map<Class<?>, EmbeddableTypeImpl<?>> embeddables;
    private final Map<Class<?>, MappedSuperclassType<?>> mappedSuperclassTypeMap;
    private final Map<String, EntityTypeImpl<?>> entityTypesByEntityName;

    /**
     * Build the metamodel using the information from the collection of Hibernate
     * { @link PersistentClass } models as well as the Hibernate { @link org.hibernateSessionFactory }. 
     * @param persistentClasses Iterator over the Hibernate (config-time) metamodel
     * @param sessionFactory The Hibernate session factory.
     * @return The built metamodel
     * @deprecated use { @link buildMetamodel(java.util.Iterator,org.hibernate.engine.spi.SessionFactoryImplementor,boolean) } instead
     * @deprecated
     */
    public static MetamodelImpl buildMetamodel(
            Iterator<PersistentClass> persistentClasses,
            SessionFactoryImplementor sessionFactory) {
        return buildMetamodel(persistentClasses, sessionFactory, false);
    }

    /**
     * Hibernate implementation of the JPA { @link Metamodel } contract.
     * @author Steve Ebersole
     * @author Emmanuel Bernard
     */
    public static MetamodelImpl buildMetamodel(
            java.util.Iterator<PersistentClass> persistentClasses, 
            SessionFactoryImplementor sessionFactory, boolean isModelLoading) {
        return new MetamodelImpl(persistentClasses, sessionFactory, isModelLoading);
    }
}

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         * @deprecated
         */
        public static MetamodelImpl buildMetamodel(
                java.util.Iterator<PersistentClass> persistentClasses, 
                SessionFactoryImplementor sessionFactory) {
            return buildMetamodel(persistentClasses, sessionFactory, false);
        }
    }
* Build the metamodel using the information from the collection of Hibernate
  * [link PersistentClass] models as well as the Hibernate [link org.hibernate.SessionFactory].
  *
  * [param persistentClasses] Iterator over the Hibernate (config-time) metamodel
  * [param sessionFactory] The Hibernate session factory.
  * [param ignoreUnsupported] ignore unsupported/unknown annotations (like @Any)
  * [return] The built metamodel
  */
public static MetamodelImpl buildMetamodel(
  Iterator<PersistentClass> persistentClasses,
  SessionFactoryImplementor sessionFactory,
  boolean ignoreUnsupported) {
  MetadataContext context = new MetadataContext( sessionFactory, ignoreUnsupported );
  while ( persistentClasses.hasNext() ) {
    PersistentClass pc = persistentClasses.next();
    locateOrBuildEntityType( pc, context );
  }
  context.wrapUp();
  return new MetamodelImpl( context.getEntityTypeMap(), context.getEmbeddableTypeMap(),
    context.getMappedSuperclassTypeMap(), context.getEntityTypesByEntityName() );
}

private static EntityTypeImpl<?> locateOrBuildEntityType(PersistentClass persistentClass, MetadataContext context) {
  EntityTypeImpl<?> entityType = context.locateEntityType( persistentClass );
  if ( entityType == null ) {
    entityType = buildEntityType( persistentClass, context );
  }
  return entityType;
}

private static EntityTypeImpl<? extends PersistentClass> locateOrBuildEntityType(PersistentClass persistentClass, MetadataContext context) {
  EntityTypeImpl<? extends PersistentClass> entityType = context.locateEntityType( persistentClass );
  if ( entityType == null ) {
    entityType = buildEntityType( persistentClass, context );
  }
  return entityType;
}

//TODO remove / reduce @SW scope
@SuppressWarnings( "unchecked" )
private static EntityTypeImpl<? extends PersistentClass> buildEntityType(PersistentClass persistentClass, MetadataContext context) {
  final Class javaType = persistentClass.getMappedClass();
  context.pushEntityWorkedOn(persistentClass);
  final MappedSuperclass superMappedSuperclass = persistentClass.getSuperMappedSuperclass();
  final MappedSuperclass superMappedSuperclass = persistentClass.getSuperMappedSuperclass();
  AbstractIdentifiableType<? extends MappedSuperclass> superType = superMappedSuperclass == null
    ? null
    : locateOrBuildMappedsuperclassType( superMappedSuperclass, context );
  if ( superType == null ) {
    final PersistentClass superPersistentClass = persistentClass.getSuperclass();
    superType = superPersistentClass == null
      ? null
      : locateOrBuildEntitySuperType( superPersistentClass, context );
  }
  EntityTypeImpl entityType = new EntityTypeImpl(
javaType,
superType,
persistentClass.getIpaEntityName(),
persistentClass.hasIdentifierProperty(),
persistentClass.isVersioned();

entityType.setName(persistentClass.getEntityName());

collection.registerEntityName( persistentClass, entityType );
collection.popEntityWorkedOn(persistentClass);
return entityType;
}

private static MappedSuperclassTypeImpl<?> locateOrBuildMappedsuperclassType(MappedSuperclass mappedSuperclass, MetadataContext context) {
MappedSuperclassTypeImpl<?> mappedSuperclassType = context.locateMappedSuperclassType(mappedSuperclass);
if ( mappedSuperclassType == null ) {
mappedSuperclassType = buildMappedSuperclassType(mappedSuperclass, context);
}
return mappedSuperclassType;

//TODO remove / reduce @SW scope
@SuppressWarnings( "unchecked" )
private static MappedSuperclassTypeImpl<?> buildMappedSuperclassType(MappedSuperclass mappedSuperclass,
MetadataContext context) {
final MappedSuperclass superMappedSuperclass = mappedSuperclass.getSuperMappedSuperclass();
AbstractIdentifiableType<?> superType = superMappedSuperclass == null ? null :
: locateOrBuildMappedsuperclassType( superMappedSuperclass, context );
//no mappedSuperclass, check for a super entity
if (superType == null) {
final PersistentClass superPersistentClass = mappedSuperclass.getSuperPersistentClass();
superType = superPersistentClass == null ? null :
: locateOrBuildEntityType( superPersistentClass, context );
}
final Class javaType = mappedSuperclass.getMappedClass();
MappedSuperclassTypeImpl mappedSuperclassType = new MappedSuperclassTypeImpl(
javaType,
superType,
mappedSuperclass.hasIdentifierProperty(),
mappedSuperclass.isVersioned() );
context.registerMappedSuperclassType( mappedSuperclass, mappedSuperclassType );
return mappedSuperclassType;
/**
 * Instantiate the metamodel.
 *
 * @param entities The entity mappings.
 * @param embeddables The embeddable (component) mappings.
 * @param mappedSuperclassTypeMap The [link javax.persistence.MappedSuperclass] mappings
 */
private MetamodelImpl(
    Map<Class<?>, EntityTypeImpl<?>> entities,
    Map<Class<?>, EmbeddableTypeImpl<?>> embeddables,
    Map<Class<?>, MappedSuperclassType<?>> mappedSuperclassTypeMap,
    Map<String, EntityTypeImpl<?>> entityTypesByEntityName) {
    this.entities = entities;
    this.embeddables = embeddables;
    this.mappedSuperclassTypeMap = mappedSuperclassTypeMap;
    this.entityTypesByEntityName = entityTypesByEntityName;
}

@Override
@SuppressWarnings({ "unchecked" })
public <X> EntityType<X> entity(Class<X> cls) {
    final EntityType<?> entityType = entities.get( cls );
    if ( entityType == null ) {
        throw new IllegalArgumentException( "Not an entity: " + cls );
    }
    return (EntityType<X>) entityType;
}

@Override
@SuppressWarnings({ "unchecked" })
public <X> ManagedType<X>managedType(Class<X> cls) {
    ManagedType<?> type = entities.get( cls );
    if ( type == null ) {
        type = mappedSuperclassTypeMap.get( cls );
    }
    if ( type == null ) {
        type = embeddables.get( cls );
    }
    if ( type == null ) {
        throw new IllegalArgumentException( "Not an managed type: " + cls );
    }
    return (ManagedType<X>) type;
}

@Override
@SuppressWarnings({ "unchecked" })
public <X> EmbeddableType<X> embeddable(Class<X> cls) {
    final EmbeddableType<?> embeddableType = embeddables.get(cls);
    if (embeddableType == null) {
        throw new IllegalArgumentException("Not an embeddable: " + cls);
    }
    return (EmbeddableType<X>) embeddableType;
}

@Override
public Set<ManagedType<?>> getManagedTypes() {
    final int setSize = CollectionHelper.determineProperSizing(
        entities.size() + mappedSuperclassTypeMap.size() + embeddables.size());
    final Set<ManagedType<?>> managedTypes = new HashSet<ManagedType<?>>(setSize);
    managedTypes.addAll(entities.values());
    managedTypes.addAll(mappedSuperclassTypeMap.values());
    managedTypes.addAll(embeddables.values());
    return managedTypes;
}

@Override
public Set<EntityType<?>> getEntities() {
    return new HashSet<EntityType<?>>(entityTypesByEntityName.values());
}

@Override
public Set<EmbeddableType<?>> getEmbeddables() {
    return new HashSet<EmbeddableType<?>>(embeddables.values());
}

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 */
package org.hibernate.ejb.metamodel;
import java.io.Serializable;
import javax.persistence.metamodel.BasicType;

/**
 * @author Emmanuel Bernard
 */
public class BasicTypeImpl<X> implements BasicType<X>, Serializable {
    private final Class<X> clazz;
    private PersistenceType persistenceType;

    public PersistenceType getPersistenceType() {
        return persistenceType;
    }

    public Class<X> getJavaType() {
        return clazz;
    }

    public BasicTypeImpl(Class<X> clazz, PersistenceType persistenceType) {
        this.clazz = clazz;
        this.persistenceType = persistenceType;
    }
}

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/**
 * Utility methods for use when encoding/decoding raw data as byte arrays.
 */
public class EncodingUtils {

/**
 * Encode <code>integer</code> as a series of 4 bytes into <code>buf</code>
 * starting at position 0 within that buffer.
 *
 * @param integer          The integer to encode.
 * @param buf              The buffer to write to.
 */
public static final void encodeBigEndian(final int integer, final byte[] buf) {
    encodeBigEndian(integer, buf, 0);
}

/**
 * Encode <code>integer</code> as a series of 4 bytes into <code>buf</code>
 * starting at position <code>offset</code>.
 *
 * @param integer          The integer to encode.
 * @param buf              The buffer to write to.
 * @param offset           The offset within <code>buf</code> to start the encoding.
 */
public static final void encodeBigEndian(final int integer, final byte[] buf, int offset) {
    buf[offset] = (byte) (0xff & (integer >> 24));
    buf[offset + 1] = (byte) (0xff & (integer >> 16));
    buf[offset + 2] = (byte) (0xff & (integer >> 8));
    buf[offset + 3] = (byte) (0xff & (integer));
}

/**
 * Decode a series of 4 bytes from <code>buf</code>, starting at position 0,
 *
* and interpret them as an integer.
* @param buf
*   The buffer to read from.
* @return An integer, as read from the buffer.
*/
public static final int decodeBigEndian(final byte[] buf) {
    return decodeBigEndian(buf, 0);
}

/**
 * Decode a series of 4 bytes from <code>buf</code>, start at
 * <code>offset</code>, and interpret them as an integer.
 * @param buf
 *   The buffer to read from.
 * @param offset
 *   The offset with <code>buf</code> to start the decoding.
 * @return An integer, as read from the buffer.
 */
public static final int decodeBigEndian(final byte[] buf, int offset) {
    return ((buf[offset] & 0xff) << 24) | ((buf[offset + 1] & 0xff) << 16)
        | ((buf[offset + 2] & 0xff) << 8) | ((buf[offset + 3] & 0xff));
}

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1.39 apache-ant_within-cglib 1.6.5

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

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1.110 cf-tools-wsdlto-front-end-jaxws 2.4.1

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http://svn.jackson.codehaus.org/browse/jackson/trunk/README.txt?hb=true

== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found
from:

http://jackson.codehaus.org/

which also has links to support forums such as mailing lists, as well
as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

* Reading (parsing) and writing (generation) of Json content

* Data-binding (data-mapping, [de-]serialization) support to
allow for converting between Json and Java objects

* Support for converting to/from other data formats and access APIs,
to improve interoperability.

=== Requirements ===
Jackson can be used on standard J2SE 1.5 platform. Some effort is made
to support other non-standard platforms as well.

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1.114 Default Plexus Container 1.0-alpha-9

1.115 distDES 0.1.0

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library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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1.121 ejabberd 15.11

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1.174 httpcore-nio 4.4.4

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1.175 ICU4J 2.6.1

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1.177 Jackson 1.9.2

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1.192 jackson-databind 2.4.5

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1.194 Jackson-JAXRS-base 2.2.2

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1.200 jackson-module-jaxb-annotations 2.6.3

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.204 Java 1.5 Parser and AST 1.0.8

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1.205 Java Servlet API 3.1.0

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1.210 JavaMail API 1.4

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1.9.13

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== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found from:
http://jackson.codehaus.org/

which also has links to support forums such as mailing lists, as well as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

* Reading (parsing) and writing (generation) of Json content
* Data-binding (data-mapping, [de-]serialization) support to allow for converting between Json and Java objects
* Support for converting to/from other data formats and access APIs, to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made to support other non-standard platforms as well.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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/*--

$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp $

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*/

package org.jdom;

/**
 * An XML comment. Methods allow the user to get and set the text of the
 * comment.
 *
 * @version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
 * @author  Brett McLaughlin
 * @author  Jason Hunter
 */
public class Comment extends Content {

private static final String CVS_ID =
 "@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 $";

 /** Text of the <code>Comment</code> */
 protected String text;

 /**
 * Default, no-args constructor for implementations to use if needed.
 */
 protected Comment() {} 

 /**
 * This creates the comment with the supplied text.
 *
 * @param text <code>String</code> content of comment.
 */
 public Comment(String text) {
     setText(text);
 }
/**
 * Returns the XPath 1.0 string value of this element, which is the
 * text of this comment.
 * @return the text of this comment
 */
public String getValue() {
    return text;
}

/**
 * This returns the textual data within the <code>Comment</code>.
 * @return <code>String</code> - text of comment.
 */
public String getText() {
    return text;
}

/**
 * This will set the value of the <code>Comment</code>.
 * @param text <code>String</code> text for comment.
 * @return <code>Comment</code> - this Comment modified.
 * @throws IllegalDataException if the given text is illegal for a
 *         Comment.
 */
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalDataException(text, "comment", reason);
    }
    this.text = text;
    return this;
}

/**
 * This returns a <code>String</code> representation of the
 * <code>Comment</code>, suitable for debugging. If the XML
 * representation of the <code>Comment</code> is desired,
 * {@link org.jdom.output.XMLOutputter#outputString(Comment)}
 * should be used.
 * @return <code>String</code> - information about the
 *         <code>Attribute</code>
 */
public String toString() {
return new StringBuffer()
    .append("[Comment: ")
    .append(new org.jdom.output.XMLOutputter().outputString(this))
    .append("]")
    .toString();
}
}

1.241 jdom 2.0.2

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*/

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import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.ArrayList;
import java.util.Enumeration;
import java.util.List;
import java.util.Map;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.UnavailableException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.eclipse.jetty.http.HttpContent;
import org.eclipse.jetty.http.HttpHeaderValues;

package org.eclipse.jetty.servlet;
/* ※---------------------------------------------------------------*/
/** The default servlet.
 * This servlet, normally mapped to /, provides the handling for static
 * content, OPTION and TRACE methods for the context.
 * The following initParameters are supported, these can be set either
 * on the servlet itself or as ServletContext initParameters with a prefix
 * of org.eclipse.jetty.servlet.Default. :
 * <PRE>
 *   acceptRanges  If true, range requests and responses are
 *                   supported
 *   dirAllowed    If true, directory listings are returned if no
 *                   welcome file is found. Else 403 Forbidden.
 *   welcomeServlets If true, attempt to dispatch to welcome files
 *                   that are servlets, but only after no matching static
 *                   resources could be found. If false, then a welcome
 *                   file must exist on disk. If "exact", then exact
 *                   servlet matches are supported without an existing file.
 * Default is true.
 */
This must be false if you want directory listings, but have index.jsp in your welcome file list.

If true, welcome files are redirected rather than forwarded to.

If set to true, then static content will be served as gzip content encoded if a matching resource is found ending with ".gz"

Set to replace the context resource base

If set, this is a context attribute name, which the servlet will use to look for a shared ResourceCache instance.

Set with a pathname relative to the base of the servlet context root. Useful for only serving static content out of only specific subdirectories.

If true, only the path info will be applied to the resourceBase

Set with the location of an optional stylesheet that will be used to decorate the directory listing html.

If True, aliases of resources are allowed (eg. symbolic links and caps variations). May bypass security constraints.

The maximum total size of the cache or 0 for no cache.

The maximum size of a file to cache

The maximum number of files to cache

If set to true, it will use mapped file buffer to serve static content when using NIO connector. Setting this value to false means that a direct buffer will be used instead of a mapped file buffer.

If set, all static content will have this value set as the cache-control header.

</PRE>
public class DefaultServlet extends HttpServlet implements ResourceFactory {

    private static final Logger LOG = Log.getLogger(DefaultServlet.class);

    private static final long serialVersionUID = 4930458713846881193L;
    private ServletContext _servletContext;
    private ContextHandler _contextHandler;

    private boolean _acceptRanges=true;
    private boolean _dirAllowed=true;
    private boolean _welcomeServlets=false;
    private boolean _welcomeExactServlets=false;
    private boolean _redirectWelcome=false;
    private boolean _gzip=true;
    private boolean _pathInfoOnly=false;

    private Resource _resourceBase;
    private ResourceCache _cache;

    private MimeTypes _mimeTypes;
    private String[] _welcomes;
    private Resource _stylesheet;
    private boolean _useFileMappedBuffer=false;
    private ByteArrayBuffer _cacheControl;
    private String _relativeResourceBase;
    private ServletHandler _servletHandler;
    private ServletHolder _defaultHolder;

    /*
     * @Override
     * public void init()
     * throws UnavailableException
     *
     */
    @Override
    public void init()
    throws UnavailableException
    {
        _servletContext=getServletContext();
        _contextHandler = initContextHandler(_servletContext);

        _mimeTypes = _contextHandler.getMimeTypes();

        _welcomes = _contextHandler.getWelcomeFiles();
        if (_welcomes==null)
            _welcomes=new String[] {"index.html","index.jsp"};

        _acceptRanges=getInitBoolean("acceptRanges",_acceptRanges);
        _dirAllowed=getInitBoolean("dirAllowed",_dirAllowed);
        _redirectWelcome=getInitBoolean("redirectWelcome",_redirectWelcome);
        _gzip=getInitBoolean("gzip",_gzip);
    }
_pathInfoOnly = getInitBoolean("pathInfoOnly", _pathInfoOnly);

if ("exact".equals(getInitParameter("welcomeServlets")))
{
    _welcomeExactServlets = true;
    _welcomeServlets = false;
}
else
    _welcomeServlets = getInitBoolean("welcomeServlets", _welcomeServlets);

if (getInitParameter("aliases") != null)
    _contextHandler.setAliases(getInitBoolean("aliases", false));

boolean aliases = _contextHandler.isAliases();
if (!aliases && !FileResource.getCheckAliases())
    throw new IllegalStateException("Alias checking disabled");
if (aliases)
    _servletContext.log("Aliases are enabled");

_useFileMappedBuffer = getInitBoolean("useFileMappedBuffer", _useFileMappedBuffer);

(relativeResourceBase = getInitParameter("relativeResourceBase");
String rb = getInitParameter("resourceBase");
if (rb != null)
{
    if (_relativeResourceBase != null)
        throw new UnavailableException("resourceBase & relativeResourceBase");
    try {
        _resourceBase = _contextHandler.newResource(rb);
    } catch (Exception e) {
        LOG.warn(Log.EXCEPTION, e);
        throw new UnavailableException(e.toString());
    }
}

String css = getInitParameter("stylesheet");
try {
    if (css != null)
    {
        _stylesheet = Resource.newResource(css);
        if (!_stylesheet.exists())
            {
            LOG.warn("!" + css);
            _stylesheet = null;
        }
    }
if(_stylesheet == null)
{
    _stylesheet = Resource.newResource(this.getClass().getResource("/jetty-dir.css"));
}
}
catch(Exception e)
{
    LOG.warn(e.toString());
    LOG.debug(e);
}

String t=getInitParameter("cacheControl");
if (t!=null)
    _cacheControl=new ByteArrayBuffer(t);

String resourceCache = getInitParameter("resourceCache");
int max_cache_size=getInitInt("maxCacheSize", -2);
int max_cached_file_size=getInitInt("maxCachedFileSize", -2);
int max_cached_files=getInitInt("maxCachedFiles", -2);
if (resourceCache!=null)
{
    if (max_cache_size!=-1 || max_cached_file_size!= -2 || max_cached_files!=-2)
        LOG.debug("ignoring resource cache configuration, using resourceCache attribute");
    if (_relativeResourceBase!=null || _resourceBase!=null)
        throw new UnavailableException("resourceCache specified with resource bases");
    _cache=(ResourceCache)_servletContext.getAttribute(resourceCache);
    LOG.debug("Cache {}={}",resourceCache,_cache);
}
try
{
    if (_cache==null && max_cached_files>0)
    {
        _cache= new ResourceCache(null,this,_mimeTypes,_useFileMappedBuffer);

        if (max_cache_size>0)
            _cache.setMaxCacheSize(max_cache_size);
        if (max_cached_file_size>=-1)
            _cache.setMaxCachedFileSize(max_cached_file_size);
        if (max_cached_files>=-1)
            _cache.setMaxCachedFiles(max_cached_files);
    }
    catch (Exception e)
    {
        LOG.warn(Log.EXCEPTION,e);
        throw new UnavailableException(e.toString());
    }
_servletHandler= (ServletHandler) _contextHandler.getChildHandlerByClass(ServletHandler.class);
for (ServletHolder h : _servletHandler.getServlets())
    if (h.getServletInstance()==this)
        _defaultHolder=h;

if (LOG.isDebugEnabled())
    LOG.debug("resource base = "+_resourceBase);
}

/**
 * Compute the field _contextHandler.<br/>
 * In the case where the DefaultServlet is deployed on the HttpService it is likely that
 * this method needs to be overwritten to unwrap the ServletContext facade until we reach
 * the original jetty's ContextHandler.
 * @param servletContext The servletContext of this servlet.
 * @return the jetty's ContextHandler for this servletContext.
 */
protected ContextHandler initContextHandler(ServletContext servletContext)
{
    ContextHandler.Context scontext=ContextHandler.getCurrentContext();
    if (scontext==null)
    {
        if (servletContext instanceof ContextHandler.Context)
        else
            throw new IllegalArgumentException("The servletContext " + servletContext + " " +
                servletContext.getClass().getName() + " is not " + ContextHandler.Context.class.getName());
    }
    else
        return ContextHandler.getCurrentContext().getContextHandler();
}

/* ----------------------------------------------------------- */
@Override
public String getInitParameter(String name)
{
    String value=getServletContext().getInitParameter("org.eclipse.jetty.servlet.Default."+name);
    if (value==null)
        value=super.getInitParameter(name);
    return value;
}

/* ----------------------------------------------------------- */
private boolean getInitBoolean(String name, boolean dft)
{
    String value=getInitParameter(name);
    return value;
}
if (value==null || value.length()==0)
    return dft;
return (value.startsWith("t")||
    value.startsWith("T")||
    value.startsWith("y")||
    value.startsWith("Y")||
    value.startsWith("1");

*/
private int getInitInt(String name, int dft)
{
    String value=getInitParameter(name);
    if (value==null)
        value=getInitParameter(name);
    if (value!=null && value.length()>0)
        return Integer.parseInt(value);
    return dft;
}

/**
   get Resource to serve.
   * Map a path to a resource. The default implementation calls
   * HttpContext.getResource but derived servlets may provide
   * their own mapping.
   * @param pathInContext The path to find a resource for.
   * @return The resource to serve.
   */
public Resource getResource(String pathInContext)
{
    Resource r=null;
    if (_relativeResourceBase!=null)
        pathInContext=URIUtil.addPaths(_relativeResourceBase,pathInContext);

    try
    {
        if (_resourceBase!=null)
        {
            r = _resourceBase.addPath(pathInContext);
        }
        else
        {
            URL u = _servletContext.getResource(pathInContext);
            r = _contextHandler.newResource(u);
        }
    }
    if (LOG.isDebugEnabled())
        LOG.debug("Resource "+pathInContext+"="+r);
catch (IOException e) {
    LOG.ignore(e);
}

if((r==null || !r.exists()) && pathInContext.endsWith("/jetty-dir.css"))
    r=_stylesheet;

return r;

/* ----------------------------------------------------------- */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    String servletPath=null;
    String pathInfo=null;
    Enumeration<String> reqRanges = null;
    Boolean included =request.getAttribute(Dispatcher.INCLUDE_REQUEST_URI)!=null;
    if (included!=null && included.booleanValue()) {
        servletPath=(String)request.getAttribute(Dispatcher.INCLUDE_SERVLET_PATH);
        pathInfo=(String)request.getAttribute(Dispatcher.INCLUDE_PATH_INFO);
        if (servletPath==null) {
            servletPath=request.getServletPath();
            pathInfo=request.getPathInfo();
        }
    } else {
        included = Boolean.FALSE;
        servletPath = _pathInfoOnly?":":request.getServletPath();
        pathInfo = request.getPathInfo();

        // Is this a Range request?
        reqRanges = request.getHeaders(HttpHeaders.RANGE);
        if (!hasDefinedRange(reqRanges))
            reqRanges = null;
    }

    String pathInContext=URIUtil.addPaths(servletPath,pathInfo);
    boolean endsWithSlash=(pathInfo==null?request.getServletPath():pathInfo).endsWith(URIUtil.SLASH);

    // Can we gzip this request?
    String pathInContextGz=null;
boolean gzip=false;
if (!included.booleanValue() &amp;&amp; !_gzip &amp;&amp; reqRanges==null &amp;&amp; !endsWithSlash )
{
    // Tell caches that response may vary by accept-encoding
    response.setHeader(HttpHeaders.VARY,HttpHeaders.ACCEPT_ENCODING);
    // Should we vary this response according to accept-encoding?
    String accept=request.getHeader(HttpHeaders.ACCEPT_ENCODING);
    if (accept!=null &amp;&amp; accept.indexOf("gzip")&gt;=0)
        gzip=true;
}

// Find the resource and content
Resource resource=null;
HttpContent content=null;

try
{
    // Try gzipped content first
    if (gzip)
    {
        pathInContextGz=pathInContext+".gz";

        if (_cache==null)
        {
            resource=getResource(pathInContextGz);
        }
        else
        {
            content=_cache.lookup(pathInContextGz);
            resource=(content==null)?null:content.getResource();
        }

        if (resource==null || !resource.exists() || resource.isDirectory())
        {
            gzip=false;
            pathInContextGz=null;
        }
    }

    // find resource
    if (!gzip)
    {
        if (_cache==null)
            resource=getResource(pathInContext);
        else
        {
            content=_cache.lookup(pathInContext);
            resource=content==null?null:content.getResource();
        }
    }
}
if (LOG.isDebugEnabled())
    LOG.debug("uri="+request.getRequestURI()+" resource="+resource+(content!=null?" content":""));

// Handle resource
if (resource==null || !resource.exists())
{
    if (included)
        throw new FileNotFoundException("!" + pathInContext);
    response.sendError(HttpServletResponse.SC_NOT_FOUND);
}
else if (!resource.isDirectory())
{
    if (endsWithSlash && _contextHandler.isAliases() && pathInContext.length()>1)
    {
        String q=request.getQueryString();
        pathInContext=pathInContext.substring(0,pathInContext.length()-1);
        if (q!=null&&q.length()!=0)
            pathInContext+="?"+q;
        response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(_servletContext.getContextPath(),pathInContext)));
    }
    else
    {
        // ensure we have content
        if (content==null)
            content=new
            HttpContent.ResourceAsHttpContent(resource,_mimeTypes.getMimeByExtension(resource.toString()),response.getBufferSize());
        if (included.booleanValue() || passConditionalHeaders(request,response,resource,content))
        {
            if (gzip)
            {
                response.setHeader(HttpHeaders.CONTENT_ENCODING,"gzip");
                String mt=_servletContext.getMimeType(pathInContext);
                if (mt!=null)
                    response.setContentType(mt);
            }
            sendData(request,response,included.booleanValue(),resource,content,reqRanges);
        }
    }
}
else
{
    String welcome=null;
}
if (!endsWithSlash || (pathInContext.length()==1 &&
request.getAttribute("org.eclipse.jetty.server.nullPathInfo")!=null))
{
    StringBuffer buf=request.getRequestURL();
synchronized(buf)
    {
        int param=buf.lastIndexOf(";");
        if (param<0)
            buf.append(’/’);
        else
            buf.insert(param,’/’);
        String q=request.getQueryString();
        if (q!=null&&q.length()!=0)
        {
            buf.append(’?’);
            buf.append(q);
        }
        response.setContentLength(0);
        response.sendRedirect(response.encodeRedirectURL(buf.toString()));
    }
}
// else look for a welcome file
else if (null!=(welcome=getWelcomeFile(pathInContext)))
{
    LOG.debug("welcome={}",welcome);
    if (_redirectWelcome)
    {
        // Redirect to the index
        response.setContentLength(0);
        String q=request.getQueryString();
        if (q!=null&&q.length()!=0)
            response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(
                _servletContext.getContextPath(),welcome)+"?"+q));
        else
            response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(
                _servletContext.getContextPath(),welcome)));
    }
    else
    {
        // Forward to the index
        RequestDispatcher dispatcher=request.getRequestDispatcher(welcome);
        if (dispatcher!=null)
        {
            if (included.booleanValue())
                dispatcher.include(request,response);
            else
                {

```
request.setAttribute("org.eclipse.jetty.server.welcome",welcome);
dispatcher.forward(request,response);
}
}
}
}
}

else
{

content=new
HttpContent.ResourceAsHttpContent(resource,_mimeTypes.getMimeByExtension(resource.toString()));

if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))

sendDirectory(request,response,resource,pathInContext);
}
}

} catch(IllegalArgumentException e)
{

LOG.warn(Log.EXCEPTION,e);

if(!response.isCommitted())

response.sendError(500, e.getMessage());
}
finally
{

if (content!=null)

content.release();

else if (resource!=null)

resource.release();

}

/*------------------------------------------------------------*/

private boolean hasDefinedRange(Enumeration<String> reqRanges)
{

return (reqRanges!=null && reqRanges.hasMoreElements());
}
/*------------------------------------------------------------*/

/*@Override*/

protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
{

doGet(request,response);
}
/*------------------------------------------------------------*/
/*(non-Javadoc) */
/* @see javax.servlet.http.HttpServlet#doTrace(javax.servlet.http.HttpServletRequest, */
@Override
protected void doTrace(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
    resp.sendError(HttpServletResponse.SC_METHOD_NOT_ALLOWED);
}

/* ----------------------------------------------- */
@override
protected void doOptions(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
    resp.setHeader("Allow", "GET,HEAD,POST,OPTIONS");
}

/* ----------------------------------------------- */
/**
 * Finds a matching welcome file for the supplied \{@link Resource}. This will be the first entry in the list of
 * configured \{@link #_welcomes welcome files\} that existing within the directory referenced by the
 * <code>Resource</code>. This may not be a directory, or no matching file may be found, then it may look for a valid servlet mapping.
 * @param resource
 * @return The path of the matching welcome file in context or null.
 * @throws IOException
 * @throws MalformedURLException
 */
private String getWelcomeFile(String pathInContext) throws MalformedURLException, IOException {
    if (_welcomes==null)
        return null;
    String welcome_servlet=null;
    for (int i=0;i<_welcomes.length;i++) {
        String welcome_in_context=URIUtil.addPaths(pathInContext,_welcomes[i]);
        Resource welcome=getResource(welcome_in_context);
        if (welcome!=null && welcome.exists())
            return _welcomes[i];
    }
    if ((_welcomeServlets || _welcomeExactServlets) && welcome_servlet==null) {
        Map.Entry entry=_servletHandler.getHolderEntry(welcome_in_context);
        if (entry!=null && entry.getValue()!=_defaultHolder &&
            (_welcomeServlets || (_welcomeExactServlets && entry.getKey().equals(welcome_in_context))))
welcome servlet=welcome_in_context;

)
)
return welcome servlet;

/* ------------------------------------------------------------- */
/* Check modification date headers. */
/* */
protected boolean passConditionalHeaders(HttpServletRequest request,HttpServletResponse response, Resource resource, HttpContent content)
throws IOException
{
try
{
if (!request.getMethod().equals(HttpMethods.HEAD) )
{
String ifms=request.getHeader(HttpHeaders.IF_MODIFIED_SINCE);
if (ifms!=null)
{
//Get jetty's Response impl
Response r = Response.getResponse(response);

if (content!=null)
{
Buffer mdlm=content.getLastModified();
if (mdlm!=null)
{
if (ifms.equals(mdlm.toString()))
{
  r.reset(true);
  r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
  r.flushBuffer();
  return false;
}
}
}
}

long ifmsl=request.getDateHeader(HttpHeaders.IF_MODIFIED_SINCE);
if (ifmsl!=-1)
{
if (resource.lastModified()/1000 <= ifmsl/1000)
{
  r.reset(true);
  r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
  r.flushBuffer();
  return false;
}
// Parse the if[un]modified dates and compare to resource
long date=request.getDateHeader(HttpHeaders.IF_UNMODIFIED_SINCE);

if (date!=-1)
{
    if (resource.lastModified()/1000 > date/1000)
    {
        response.sendError(HttpServletResponse.SC_PRECONDITION_FAILED);
        return false;
    }
}

} catch(IllegalArgumentException iae)
{
    if(!response.isCommitted())
        response.sendError(400, iae.getMessage());
    throw iae;
}
return true;

/* ------------------------------------------------------------------- */
protected void sendDirectory(HttpServletRequest request,
HttpServletResponse response,
Resource resource,
String pathInContext)
throws IOException
{
    if (!_dirAllowed)
    {
        response.sendError(HttpServletResponse.SC_FORBIDDEN);
        return;
    }

    byte[] data=null;
String base = URIUtil.addPaths(request.getRequestURI(),URIUtil.SLASH);

    //If the DefaultServlet has a resource base set, use it
    if (_resourceBase != null)
    {
        // handle ResourceCollection
    }
if (_resourceBase instanceof ResourceCollection)
    resource=_resourceBase.addPath(pathInContext);
}
//Otherwise, try using the resource base of its enclosing context handler
else if (_contextHandler.getBaseResource() instanceof ResourceCollection)
    resource=_contextHandler.getBaseResource().addPath(pathInContext);

String dir = resource.getListHTML(base, pathInContext.length()>1);
if (dir==null)
{  
    response.sendError(HttpServletResponse.SC_FORBIDDEN,
        "No directory");
    return;
}

data=dir.getBytes("UTF-8");
response.setContentType("text/html; charset=UTF-8");
response.setContentLength(data.length);
response.getOutputStream().write(data);
}

/* ---------------------------------------------------------- */
protected void sendData(HttpServletRequest request,
    HttpServletResponse response,
    boolean include,
    Resource resource,
    HttpContent content,
    Enumeration reqRanges)
throws IOException
{
    boolean direct;
    long content_length;
    if (content==null)
    {
        direct=false;
        content_length=resource.length();
    }
    else
    {
        Connector connector = AbstractHttpConnection.getCurrentConnection().getConnector();
        direct=connector instanceof NIOConnector && ((NIOConnector)connector).getUseDirectBuffers() &&
        !(connector instanceof SslConnector);
        content_length=content.getLength();
    }
    // Get the output stream (or writer)
    OutputStream out=null;

boolean written;
try {
    out = response.getOutputStream();

    // has a filter already written to the response?
    written = out instanceof HttpOutput
        ? ((HttpOutput)out).isWritten()
        : AbstractHttpConnection.getCurrentConnection().getGenerator().isWritten();
}

catch(IllegalStateException e) {
    out = new WriterOutputStream(response.getWriter());
    written = true; // there may be data in writer buffer, so assume written
}

if (reqRanges == null || !reqRanges.hasMoreElements() || content_length<0) {
    // if there were no ranges, send entire entity
    if (include) {
        resource.writeTo(out, 0, content_length);
    } else {
        // See if a direct methods can be used?
        if (content!=null && !written && out instanceof HttpOutput) {
            if (response instanceof Response) {
                writeOptionHeaders(((Response)response).getHttpFields());
                ((AbstractHttpConnection.Output)out).sendContent(content);
            } else {
                Buffer buffer = direct?content.getDirectBuffer():content.getIndirectBuffer();
                if (buffer!=null) {
                    writeHeaders(response, content, content_length);
                    ((AbstractHttpConnection.Output)out).sendContent(buffer);
                } else {
                    writeHeaders(response, content, content_length);
                    resource.writeTo(out, 0, content_length);
                }
            }
        } else {
            writeHeaders(response, content, content_length);
            resource.writeTo(out, 0, content_length);
        }
    }
}
else
{
// Write headers normally
writeHeaders(response, content, written?-1:content_length);

// Write content normally
Buffer buffer = (content==null)?null:content.getIndirectBuffer();
if (buffer!=null)
    buffer.writeTo(out);
else
    resource.writeTo(out, 0, content_length);
}
}

else
{
// Parse the satisfiable ranges
List ranges = InclusiveByteRange.satisfiableRanges(reqRanges, content_length);

// if there are no satisfiable ranges, send 416 response
if (ranges==null || ranges.size()==0)
{
    writeHeaders(response, content, content_length);
    response.setStatus(HttpServletResponse.SC_REQUESTED_RANGE_NOT_SATISFIABLE);
    response.setHeader(HttpHeaders.CONTENT_RANGE,
        InclusiveByteRange.to416HeaderRangeString(content_length));
    resource.writeTo(out, 0, content_length);
    return;
}

// if there is only a single valid range (must be satisfiable
// since were here now), send that range with a 216 response
if (ranges.size()== 1)
{
    InclusiveByteRange singleSatisfiableRange =
        (InclusiveByteRange)ranges.get(0);
    long singleLength = singleSatisfiableRange.getSize(content_length);
    writeHeaders(response, content, singleLength);
    response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);
    response.setHeader(HttpHeaders.CONTENT_RANGE,
        singleSatisfiableRange.toHeaderRangeString(content_length));
    resource.writeTo(out, singleSatisfiableRange.getFirst(content_length), singleLength);
    return;
}

// multiple non-overlapping valid ranges cause a multipart
// 216 response which does not require an overall
// content-length header
writeHeaders(response, content, -1);
String mimetype = content.getContentType().toString();
MultiPartOutputStream multi = new MultiPartOutputStream(out);
response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);

// If the request has a "Request-Range" header then we need to
// send an old style multipart/x-byteranges Content-Type. This
// keeps Netscape and acrobat happy. This is what Apache does.
String ctp;
if (request.getHeader(HttpHeaders.REQUEST_RANGE) != null)
    ctp = "multipart/x-byteranges; boundary=";
else
    ctp = "multipart/byteranges; boundary=";
response.setContentType(ctp + multi.getBoundary());

InputStream in = resource.getInputStream();
long pos = 0;

// calculate the content-length
int length = 0;
String[] header = new String[ranges.size()];
for (int i = 0; i < ranges.size(); i++)
    {
        InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
        header[i] = ibr.toHeaderRangeString(content_length);
        length +=
            ((i > 0) ? 2 : 0) +
            2 + multi.getBoundary().length() + 2 +
            HttpHeaders.CONTENT_TYPE.length() + 2 + mimetype.length() + 2 +
            HttpHeaders.CONTENT_RANGE.length() + 2 + header[i].length() + 2 +
            2 +
            (ibr.getLast(content_length) - ibr.getFirst(content_length)) + 1;
    }
length += 2 + 2 + multi.getBoundary().length() + 2 + 2;
response.setContentLength(length);

for (int i = 0; i < ranges.size(); i++)
    {
        InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
        multi.startPart(mimetype, new String[] { HttpHeaders.CONTENT_RANGE + "": + header[i] });

        long start = ibr.getFirst(content_length);
        long size = ibr.getSize(content_length);
        if (in != null)
            {
                // Handle non cached resource
                if (start < pos)
{  
in.close();  
in=resource.getInputStream();  
pos=0;  
}  
if (pos<start)  
{  
in.skip(start-pos);  
pos=start;  
}  
IO.copy(in,multi,size);  
pos+=size;  
}  
else  
// Handle cached resource  
(resource).writeTo(multi,start,size);  
}  
if (in!=null)  
in.close();  
multi.close();  
}  
return;  
}  

/* ------------------------------------------------------------- */  
protected void writeHeaders(HttpServletResponse response,HttpContent content,long count)  
throws IOException  
{  
if (content.getContentType()!=null && response.getContentType()==null)  
    response.setContentType(content.getContentType().toString());  
if (response instanceof Response)  
{  
Response r=(Response)response;  
HttpFields fields = r.getHttpFields();  
if (content.getLastModified()!=null)  
    fields.put(HttpHeaders.LAST_MODIFIED_BUFFER,content.getLastModified());  
else if (content.getResource()!=null)  
{  
    long lml=content.getResource().lastModified();  
    if (lml!=-1)  
        fields.putDateField(HttpHeaders.LAST_MODIFIED_BUFFER,lml);  
}  
if (count != -1)  
    r.setLongContentLength(count);  
}
writeOptionHeaders(fields);
}
else
{
    long lml=content.getResource().lastModified();
    if (lml>=0)
        response.setDateHeader(HttpHeaders.LAST_MODIFIED,lml);

    if (count != -1)
        {
            if (count<Integer.MAX_VALUE)
                response.setContentLength((int)count);
            else
                response.setHeader(HttpHeaders.CONTENT_LENGTH,Long.toString(count));
        }

    writeOptionHeaders(response);
}
}

/* ------------------------------------------------------------- */
protected void writeOptionHeaders(HttpFields fields) throws IOException
{
    if (_acceptRanges)
        fields.put(HttpHeaders.ACCEPT_RANGES_BUFFER,HttpHeaderValues.BYTES_BUFFER);
    if (_cacheControl!=null)
        fields.put(HttpHeaders.CACHE_CONTROL_BUFFER,_cacheControl);
}
/* ------------------------------------------------------------- */
protected void writeOptionHeaders(HttpServletResponse response) throws IOException
{
    if (_acceptRanges)
        response.setHeader(HttpHeaders.ACCEPT_RANGES,"bytes");
    if (_cacheControl!=null)
        response.setHeader(HttpHeaders.CACHE_CONTROL,"_cacheControl.toString()");

    /* ------------------------------------------------------------- */
    /* @see javax.servlet.Servlet#destroy() */
    @Override

/* see javax.servlet.Servlet#destroy() */

public void destroy()
{
    if (_cache!=null)
        _cache.flushCache();
    super.destroy();
}

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1.299 jnp-client 4.0.2

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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 <em>pending</em> 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

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 */
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.Phase 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.

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.

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.

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 `{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><b>Parallel recursive decomposition.</b> CountedCompleters may
be arranged in trees similar to those often used with `{RecursiveAction}`, 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 `{onCompletion}` is not overridden).
A static utility method sets up the base task and invokes it
(here, implicitly using the `{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
* { @code 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.

* <b>Searching.</b> 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;
  *         }
  * </pre>
* 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 (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<? extends MyReducer> c = firstComplete(); c != null; c = c.nextComplete()) {
*       for (MyReducer t = (MyReducer)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:

```java
@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();

@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
     */
```
protected CountedCompleter(CountedCompleter<? extends 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
 * 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<? extends 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<? super T> 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.
    * *
    * 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
* 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:
 *
 * @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);
  }
}

/**
 * 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&lt;sun.misc.Unsafe&gt;() {
        public sun.misc.Unsafe run() throws Exception {
          Class&lt;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);

    } catch (java.security.PrivilegedActionException e) {
        throw new RuntimeException("Could not initialize intrinsics",
                e.getCause());
    }
}

} // end of class

package io.netty.util.concurrent;

import java.util.concurrent.TimeUnit;

public abstract class CompleteFuture<V> extends AbstractFuture<V> {

    private final EventExecutor executor;

    protected CompleteFuture(EventExecutor executor) {
        this.executor = executor;
    }

    /*
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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.
     */
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;
}

public boolean await(long timeoutMillis) throws InterruptedException {
    if (Thread.interrupted()) {
        throw new InterruptedException();
    }
    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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 * under the License.
 */

package io.netty.util;

/**<p> 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).</p>*/
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));
    }

    // Other methods...
}
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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 * 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}<{@link String}> {
 *         {@code @Override}
 *         protected void channelRead0({@link ChannelHandlerContext} ctx, {@link String} message)
 *             throws {@link Exception} {
 *                 System.out.println(message);
 *         }
 *     }
public abstract class SimpleChannelInboundHandler<I> extends ChannelInboundHandlerAdapter {

    private final TypeParameterMatcher matcher;
    private final boolean autoRelease;

    /**
     * @see 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
     *                      ReferenceCountUtil#release(Object).
     */
    protected SimpleChannelInboundHandler(boolean autoRelease) {
        matcher = TypeParameterMatcher.find(this, SimpleChannelInboundHandler.class, "I");
        this.autoRelease = autoRelease;
    }

    /**
     * Create a new instance which will try to detect the types to match out of the type parameter of the class.
     *
     * @param inboundMessageType    The type of messages to match
     * @param autoRelease           @code true if handled messages should be released automatically by pass them to
     *                              ReferenceCountUtil#release(Object).
     */
    protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType) {
        this(inboundMessageType, true);
    }

    /**
     * Create a new instance
     *
     */
    protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType, boolean autoRelease) {
        this(inboundMessageType, true);
    }

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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 */
import 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 EventExecutor executor() {
    return executor();
  }

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

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

  @Override
  public boolean isCompletedExceptionally(Throwable cause) {
    return false;
  }

  @Override
  public long completionTime() {
    return 0;
  }

  @Override
  public long completionTime纳秒) {
    return 0;
  }

  @Override
  public Throwable cause() {
    return null;
  }

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

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

  @Override
  public boolean isCompletedExceptionally纳秒) {
    return false;
  }

  @Override
  public long completionTime纳秒) {
    return 0;
  }

  @Override
  public long completionTime纳秒) {
    return 0;
  }

  @Override
  public Throwable cause纳秒) {
    return null;
  }

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

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

  @Override
  public boolean isCompletedExceptionally纳秒) {
    return false;
  }

  @Override
  public long completionTime纳秒) {
    return 0;
  }

  @Override
  public long completionTime纳秒) {
    return 0;
  }

  @Override
  public Throwable cause纳秒) {
    return null;
  }

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

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

  @Override
  public boolean isCompletedExceptionally纳秒) {
@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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* under the License.
*/
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 ByteBuf#duplicate()} instead
 * of calling the constructor explicitly.
 */
public class DuplicatedByteBuf extends AbstractDerivedByteBuf {

    private final ByteBuf buffer;

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

        if (buffer instanceof DuplicatedByteBuf) {
            this.buffer = ((DuplicatedByteBuf) buffer).buffer;
        } else {
            this.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
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 ByteBuf#slice()} and
 * {@link ByteBuf#slice(int, int)} instead of calling the constructor
 * explicitly.
 */

public class SlicedByteBuf extends AbstractDerivedByteBuf {

    private final ByteBuf buffer;
    private final int adjustment;
    private final int length;

    public SlicedByteBuf(ByteBuf 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 SlicedByteBuf) {
            this.buffer = ((SlicedByteBuf) buffer).buffer;
            adjustment = ((SlicedByteBuf) buffer).adjustment + index;
        } else if (buffer instanceof DuplicatedByteBuf) {
            this.buffer = buffer.unwrap();
            adjustment = index;
        } else {
            this.buffer = buffer;
            adjustment = index;
        }
        this.length = length;

        writerIndex(length);
    }

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

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

    @Override
    public ByteOrder order() {
        return buffer.order();
    }
}
```java
@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 _getByte(int index) {
    return buffer.getByte(index + adjustment);
}
```

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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 * License for the specific language governing permissions and limitations
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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 {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
 * only <strong>complete</strong> 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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 */
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
 * \{@link Delimiters#lineDelimiter() newline characters\}.
 *
 * <h3>Predefined delimiters</h3>
 */
Delimiters defines frequently used delimiters for convenience' sake.

Specifying more than one delimiter

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:

```plaintext
+--------------+
| ABC
DEF\n |
+--------------+
```

a [DelimiterBasedFrameDecoder](Delimiters.lineDelimiter()) will choose "\n" as the first delimiter and produce two frames:

```plaintext
+-----+-----+
| ABC | DEF |
+-----+-----+
```

rather than incorrectly choosing "\r\n" as the first delimiter:

```plaintext
+----------+
| ABC\nDEF |
+----------+
```

This class DelimiterBasedFrameDecoder extends ByteToMessageDecoder:

```java
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 final LineBasedFrameDecoder lineBasedDecoder;

/**
 * Creates a new instance.
 *
 * @param maxFrameLength the maximum length of the decoded frame.
 * A [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.
 * @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.
 * @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.
 * @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.
 * @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.
 * @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.
 * @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.
 * @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())]);
}
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.getByte(0) == '\r' && a.getByte(1) == '\n'
        && b.getByte(0) == '\n';
}

/**
 * Return @code true @endcode 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 (minFrameLength != Integer.MAX_VALUE) {
        frame = buffer.copy(minFrameLength, minFrameLength + minDelimLength);
    } else {
        return null;
    }

    return frame;
}
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 = 0;
        for (; needleIndex < needle.capacity() && needleIndex != needle.capacity() - 1; needleIndex++) {
            if (haystack.getByte(haystackIndex) != needle.getByte(needleIndex)) { break; }
            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}
     */
    public Throwable getCause() {
        return cause;
    }
}
* and so the handshake failed.
*/
public Throwable cause() {
    return cause;
}

1.366 notification-feedback 3.54.0-0
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1.368 org.osgi.compendium 1.4.0

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1.369 org.osgi.core 1.4.0

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/** This singleton object contains the `apply` and `unapplySeq` methods for
  * convenient construction and deconstruction. It is possible to deconstruct
  * any `Node` instance (that is not a `SpecialNode` or a `Group`) using the
  * syntax `case Elem(prefix, label, attribs, scope, child @ _*) => ...`  
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1.382 Scalap 2.10.0

1.383 Servlet Specification API 2.5-20081211

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1.495 Streaming API for XML (STAX API 1.0)

1.0.1

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1.496 swagger-annotations 1.3.5

1.497 swagger-core 1.3.5

1.498 swagger-models 0.9.0

1.499 swagger-springmvc 0.9.0

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package org.xmpp.resultsetmanagement;

import java.util.*;
import net.jcip.annotations.NotThreadSafe;

/**
 * A result set representation as described in XEP-0059. Note that this result
 * 'set' actually makes use of a List implementations, as the Java Set
 * definition disallows duplicate elements, while the List definition supplies
 * most of the required indexing operations.
 *
 * This ResultSet implementation loads all all results from the set into memory,
 * which might be undesirable for very large sets, or for sets where the
 * retrieval of a result is an expensive operation. sets.
 *
 * As most methods are backed by the {@link List#subList(int, int)} method,
 * non-structural changes in the returned lists are reflected in the ResultSet,
 * and vice-versa.
 *
 * @author Guus der Kinderen, guus.der.kinderen@gmail.com
 *
 * @param <E>
 * Each result set should be a collection of instances of the exact
 * same class. This class must implement the {@link Result}
 * interface.
 * @see java.util.List#subList(int, int)
 *
 */
@NotThreadSafe
public class ResultSetImpl<E extends Result> extends ResultSet<E> {

/**
 * A list of all results in this ResultSet
 */
public final List<E> resultList;

/**
 */}
* A mapping of the UIDs of all results in resultList, to the index of those
* entries in that list.
*/
public final Map<String, Integer> uidToIndex;

/**
 * Creates a new Result Set instance, based on a collection of Result
 * implementing objects. The collection should contain elements of the exact
 * same class only, and cannot contain 'null' elements.
 * The order that's being used in the new ResultSet instance is the same
 * order in which {@link Collection#iterator()} iterates over the
 * collection.
 * Note that this constructor throws an IllegalArgumentException if the
 * Collection that is provided contains Results that have duplicate UIDs.
 *
 * @param results
 * The collection of Results that make up this result set.
 */
public ResultSetImpl(Collection<E> results) {
    this(results, null);
}

/**
 * Creates a new Result Set instance, based on a collection of Result
 * implementing objects. The collection should contain elements of the exact
 * same class only, and cannot contain 'null' elements.
 * The order that's being used in the new ResultSet instance is defined by
 * the supplied Comparator class.
 * Note that this constructor throws an IllegalArgumentException if the
 * Collection that is provided contains Results that have duplicate UIDs.
 *
 * @param results
 * The collection of Results that make up this result set.
 * @param comparator
 * The Comparator that defines the order of the Results in this
 * result set.
 */
public ResultSetImpl(Collection<E> results, Comparator<E> comparator) {
    if (results == null) {
        throw new NullPointerException("Argument 'results' cannot be null.");
    }

    final int size = results.size();
    resultList = new ArrayList<E>(size);
uidToIndex = new Hashtable<String, Integer>(size);

// sort the collection, if need be.
List<E> sortedResults = null;
if (comparator != null) {
    sortedResults = new ArrayList<E>(results);
    Collections.sort(sortedResults, comparator);
}

int index = 0;
// iterate over either the sorted or unsorted collection
for (final E result : (sortedResults != null ? sortedResults : results)) {
    if (result == null) {
        throw new NullPointerException(
            "The result set must not contain 'null' elements.");
    }
    final String uid = result.getUID();
    if (uidToIndex.containsKey(uid)) {
        throw new IllegalArgumentException(
            "The result set can not contain elements that have the same UID.");
    }
    resultList.add(result);
    uidToIndex.put(uid, index);
    index++;
}

/*@ (non-Javadoc)
 *
 * @see com.buzzaa.xmpp.resultsetmanager.ResultSet#size()
 */
@override
public int size() {
    return resultList.size();
}

/*@ (non-Javadoc)
 *
 * @see com.buzzaa.xmpp.resultsetmanager.ResultSet#getAfter(E, int)
 */
@override
public List<E> getAfter(String uid, int maxAmount) {
    if (uid == null || uid.length() == 0) {
        throw new NullPointerException("Argument 'uid' cannot be null or an empty String.");
    }
    }
if (maxAmount < 1) {
    throw new IllegalArgumentException("Argument 'maxAmount' must be a integer higher than zero.");
}

// the result of this method is exclusive 'result'
final int index = uidToIndex.get(uid) + 1;

return get(index, maxAmount);
}

/*
* (non-Javadoc)
*
* @see com.buzzaa.xmpp.resultsetmanager.ResultSet#getBefore(E, int)
*/
@Override
public List<E> getBefore(String uid, int maxAmount) {
    if (uid == null || uid.length() == 0) {
        throw new NullPointerException("Argument 'uid' cannot be null or an empty String.");
    }
    if (maxAmount < 1) {
        throw new IllegalArgumentException("Argument 'maxAmount' must be a integer higher than zero.");
    }

    // the result of this method is exclusive 'result'
    final int indexOfLastElement = uidToIndex.get(uid);
    final int indexOfFirstElement = indexOfLastElement - maxAmount;
    if (indexOfFirstElement < 0) {
        return get(0, indexOfLastElement);
    }
    return get(indexOfFirstElement, maxAmount);
}

/*
* (non-Javadoc)
* *
* @see com.buzzaa.xmpp.resultsetmanager.ResultSet#get(int)
*/
@Override
public E get(int index) {
    return resultList.get(index);
}
/*
* (non-Javadoc)
* @see com.buzzaa.xmpp.resultsetmanager.ResultSet#getFirst(int)
*/
@Override
public List<E> getFirst(int maxAmount) {
if (maxAmount < 1) {
throw new IllegalArgumentException(
"Argument 'maxAmount' must be a integer higher than zero.");
}
return get(0, maxAmount);
}

/*
* (non-Javadoc)
* @see com.buzzaa.xmpp.resultsetmanager.ResultSet#getLast(int)
*/
@Override
public List<E> getLast(int maxAmount) {
if (maxAmount < 1) {
throw new IllegalArgumentException(
"Argument 'maxAmount' must be a integer higher than zero.");
}
final int indexOfFirstElement = size() - maxAmount;

if (indexOfFirstElement < 0) {
return get(0, maxAmount);
}

return get(indexOfFirstElement, maxAmount);
}

/*
* (non-Javadoc)
* @see com.buzzaa.xmpp.resultsetmanager.ResultSet#get(int, int)
*/
@Override
public List<E> get(int fromIndex, int maxAmount) {
if (fromIndex < 0) {
throw new IllegalArgumentException(
"Argument 'fromIndex' must be zero or higher.");
}
if (maxAmount < 1) {
    throw new IllegalArgumentException(
        "Argument 'maxAmount' must be an integer higher than zero.";
}

if (fromIndex >= size()) {
    return new ArrayList<E>(0);
}

// calculate the last index to return, or return up to the end of last
// index if 'amount' surpasses the list length.
final int absoluteTo = fromIndex + maxAmount;
final int toIndex = (absoluteTo > size() ? size() : absoluteTo);

return resultList.subList(fromIndex, toIndex);

/*@ (non-Javadoc)
* @see org.jivesoftware.util.resultsetmanager.ResultSet#indexOf(java.lang.String)
*/
@Override
public int indexOf(String uid) {
    return uidToIndex.get(uid);
}
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1.503 tms-impl 3.70.1-0

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1.508 tomcat-embed-core 8.0.28

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1.513 tomcat-embed-logging-juli 8.0.20

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1.528 Xalan 2.7.1

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that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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1.544 xpp3_min 1.1.3.4.O

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