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1.360.1 Available under license

1.361 slf4j-api 1.6.4

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1.1 A Hibernate Core Module 4.2.6.Final

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```

/*
 * 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 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.ejb.internal.EntityManagerMessageLogger;
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,
        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 instantiate interceptor: " + localSessionInterceptor, e);
    }
    }
    else {
        throw new PersistenceException("Unable to instantiate 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 instantiate session interceptor: " + sessionInterceptorClass, e);
            }
            catch (IllegalAccessException e) {
                throw new PersistenceException("Unable to instantiate 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) {
        throwPersistenceException( he );
        return false;
    }
}

@Override
public boolean shouldAutoCloseSession() {
    return !isOpen();
}

private void checkEntityManagerFactory() {
    if ( ! getEntityManagerFactory().isOpen() ) {
        open = false;
    }
}
}
/*
* 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.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 ) ) {
            // convert milliseconds to seconds
            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) 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;

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 of 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(
                    "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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* 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 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 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>();

    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 );
    }

    setDefaultProperties();
    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.setScope( 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 )
            );
        }
        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() + "]"
            );
        }
        this.tuples = tuples;
    }

    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 + "]"
        );
    }
    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 getReturnType()
         */
        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 [" +
                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 );
        q.setResultSetMapping( 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(), 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 );
    }
    catch ( HibernateException he ) {
        throw convert( he, lockOptions );
    }
    finally {
        getSession().setCacheMode( previousCacheMode );
    }
}

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.debugf("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;
}

/**
* {@inheritDoc}
*/
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 AssertionError( "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 );
            }
        }
    }
}

public void joinTransaction() {
    if( !isOpen() ){
        throw new IllegalStateException( "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();

    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
        }

        // 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;
}

/**
 * {@inheritDoc}
 */
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 );
        }
    }
    else {
        pe = new OptimisticLockException( e );
    }
    else {
        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 CallbackExceptionHandlerImpl 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 );
    }
}
}
}
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 *

```

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* Boston, MA 02110-1301 USA

*/

```
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 EntityManager {
```

```
/**
```

```
* Get access to the Hibernate extended EMF contract.
```

```
*
```

```
* @return The Hibernate EMF contract for this EM.
```

```
*/
```

```
public EntityManagerFactory 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 specification 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)
*
* @return The JPA-specified exception
*/
public RuntimeException convert(HibernateException e, LockOptions lockOptions);

/**
* Converts a Hibernate-specific exception into a JPA-specified exception; note that the JPA specification 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.Session;
import org.hibernate.Transaction;

```

```

/**

```

```

 * @author Gavin King
 * @author Emmanuel Bernard
 */

```

```

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 rollingback", 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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 * 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 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.setTimeout( timeout );
}

@Override
protected void applyComment(String comment) {
    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 );
        }
        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;
        }
        catch ( ClassCastException cce ) {
            PersistenceException pe = new PersistenceException(
                "Unsupported unwrap target type [" + tClass.getName() + "]"
            );
            //It's probably against the spec to not mark the tx for rollback but it will be easier for people
            //getManager().handlePersistenceException( pe );
            throw pe;
        }
    }
}

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;
}

```

```

}

```

```

/*

```

```

* Hibernate, Relational Persistence for Idiomatic Java

```

```

*

```

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```

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*/
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;
import org.hibernate.id.IdentifierGenerator;
import org.hibernate.id.UUIDGenerator;
import org.hibernate.internal.SessionFactoryImpl;
import org.hibernate.internal.util.config.ConfigurationHelper;
import org.hibernate.mapping.PersistentClass;
import org.hibernate.metadata.ClassMetadata;
import org.hibernate.service.ServiceRegistry;

/**
 * Actual Hibernate implementation of { @link 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;

    private final transient PersistenceUtilHelper.MetadataCache cache = new PersistenceUtilHelper.MetadataCache();

    @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 isLoading(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#isLoading is not always accurate; consider using EntityManager#contains instead");
    LoadState state = PersistenceUtilHelper.isLoadingWithoutReference( entity, attributeName, cache );
    if (state == LoadState.LOADED) {
        return true;
    }
    else if (state == LoadState.NOT_LOADED ) {
        return false;
    }
    else {
        return PersistenceUtilHelper.isLoadingWithReference( entity, attributeName, cache ) != LoadState.NOT_LOADED;
    }
}

public boolean isLoading(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#isLoading is not always accurate; consider using EntityManager#contains instead");
    return PersistenceUtilHelper.isLoading( 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 );
}
}
}
/*
* 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;
import javax.persistence.TupleElement;

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

/**
 * Specialization of {@link JoinImplementor} for {@link 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);
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 */
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();
}
/*
* 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;
import javax.persistence.criteria.ListJoin;

/**
 * Specialization of {@link JoinImplementor} for {@link java.util.List} typed attribute joins
 *
 * @author Steve Ebersole
 */
public interface ListJoinImplementor<Z,X> extends JoinImplementor<Z,X>, ListJoin<Z,X> {
    /**
     * {@inheritDoc}
     * <p/>
     * Refined return type
     */
    public ListJoinImplementor<Z,X> correlateTo(CriteriaSubqueryImpl 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;

```
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 );
}

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

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

/**
 * {@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, Y> ListJoin<X, Y> correlate(ListJoin<X, Y> source) {
    final ListJoinImplementor<X,Y> correlation = ( (ListJoinImplementor<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" );
}

```

```

}
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
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 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria;
import javax.persistence.criteria.From;

/**
 * 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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*/
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);
}
/*
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* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb.criteria;

/**
 * Represents an illegal attempt to dereference from a { @link #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;
    }
}
/*
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```

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*/
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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 * 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<T> extends AbstractNode implements CriteriaQuery<T>, Serializable {
    private final Class<T> returnType;

    private final QueryStructure<T> queryStructure;
    private List<Order> 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;
            }
            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 could 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" })

```


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* 51 Franklin Street, Fifth Floor

* Boston, MA 02110-1301 USA

*/

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.LowerFunction;
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.ComparisonPredicate;
import org.hibernate.ejb.criteria.predicate.ComparisonPredicate.ComparisonOperator;
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.NullnessPredicate;

/**
 * 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,
 * <i>"An argument to the multiselect method must not be a tuple-
 * or array-valued compound selection item."</i>
 */
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.
 *
 * @return The array compound selection
 */
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 );
}

/**
 * {@inheritDoc}
 */
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 The selections to use in the constructor call.
 *
 * @return The view compound selection.
 */
public <Y> CompoundSelection<Y> construct(Class<Y> result, List<Selection<?>> selections) {
    checkMultiselect( selections );
    return new CompoundSelectionImpl<Y>( this, result, 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 );
}

/**
 * {@inheritDoc}
 */
public Predicate and(Predicate... restrictions) {
    return new CompoundPredicate( this, Predicate.BooleanOperator.AND, restrictions );
}

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

/**

```

```

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

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

/**
* { @inheritDoc }
*/
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
            );
        }
        return predicate;
    }
    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 );
}

/**s
 * {@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) {
    //noinspection SuspiciousNameCombination
    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 Predicate notEqual(Expression<?> x, Object y) {
    //noinspection SuspiciousNameCombination
    return new ComparisonPredicate( this, ComparisonOperator.NOT_EQUAL, x, y );
}

/**
 * {@inheritDoc}
 */
public <Y extends Comparable<? super Y>> Predicate greaterThan(Expression<? extends Y> x, Expression<?
extends 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,
    Expression<? extends 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<? extends 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 );
}

/**
 * {@inheritDoc}
 */
public <Y extends Comparable<? super Y>> Predicate lessThanOrEqualTo(
    Expression<? extends Y> x,
    Y y) {
    //noinspection SuspiciousNameCombination
    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 );
}

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

/**
 * {@inheritDoc}
 */

```

```

public Predicate le(Expression<? extends Number> x, Number y) {
    //noinspection 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, Expression<String> pattern, char 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 );
}

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

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

```

```

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

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

// other functions
~~~~~
~~~~~

/**
 * {@inheritDoc}
 */
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
~~~~~

@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,
        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
```

```

~~~~~
~~~~~

```

```

/**
 * {@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
~~~~~
~~~~~

/**

```

```

* { @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 <C, R> SimpleCase<C, R> selectCase(Expression<? extends C> expression) {
    return selectCase( (Class<R>)null, expression );
}

public <C, R> SimpleCase<C, R> selectCase(Class<R> type, Expression<? extends C> expression) {
    return new SimpleCaseExpression<C, R>( this, type, expression );
}

/**
 * {@inheritDoc}
 */
public <R> Case<R> selectCase() {

```

```

return selectCase( (Class<R>)null );
}

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

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

/**
 * {@inheritDoc}
 */
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() + "]" );
}

/**
 * {@inheritDoc}
 */
public <V, M extends Map<?, V>> Expression<Collection<V>> values(M map) {
return new LiteralExpression<Collection<V>>( this, map.values() );
}

/**
 * {@inheritDoc}
 */
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 isEmpty(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
    );
}

/**
 * {@inheritDoc}
 */
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
    );
    }

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

/**
 * Specialization of {@code JoinImplementor} for {@code java.util.Map} typed attribute joins
 *
 * @author Steve Ebersole
 */

```

```

public interface MapJoinImplementor<Z,K,V> extends JoinImplementor<Z,V>, MapJoin<Z,K,V> {
/**
 * { @inheritDoc }
 * <p/>
 * Refined return type
 */
public MapJoinImplementor<Z,K,V> correlateTo(CriteriaSubqueryImpl subquery);
}
/*
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 *
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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.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 }
 * <p/>
 * Refined return type
 */
public SetJoinImplementor<Z,X> correlateTo(CriteriaSubqueryImpl subquery);
}
/*
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* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb.criteria;
import java.io.Serializable;
import javax.persistence.criteria.Expression;
import javax.persistence.criteria.Order;

/**
 * Represents an <tt>ORDER BY</tt> 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 boolean isAscending() {
        return ascending;
    }

    public Expression<?> getExpression() {
        return expression;
    }
}
/*
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 */

```

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 * 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 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
 *
 * @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 getAlias();
}

@Override
public String renderProjection(CriteriaQueryCompiler.RenderingContext renderingContext) {
    return render( renderingContext );
}
}
}
/*
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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 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
 *
 * @author Steve Ebersole
 */
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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 * 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();
    }
}

/**
 * {@inheritDoc}
 */
@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:
 * 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.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) {
        super( criteriaBuilder, javaType, pathSource );
    }

    @Override
    @SuppressWarnings({ "unchecked" })
    public PathSource<Z> getPathSource() {
        return super.getPathSource();
    }

    @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 );
}

```

```

@SuppressWarnings({ "unchecked" })
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> correlationDelegate = createCorrelationDelegate();
    correlationDelegate.prepareCorrelationDelegate( this );
    return correlationDelegate;
}

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 <X, Y> Join<X, Y> join(SingularAttribute<? super X, Y> singularAttribute) {
    return join( singularAttribute, DEFAULT_JOIN_TYPE );
}

@Override
public <X, 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,
        this,
        attribute,
        jt
    );
}

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

@Override
public <X, 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 UnsupportedOperationException( "RIGHT JOIN not supported" );
    }

    final Attribute<X,?> attribute = (Attribute<X, ?>) locateAttribute( attributeName );
    if ( attribute.isCollection() ) {
        final PluralAttribute pluralAttribute = ( PluralAttribute ) attribute;
        if ( PluralAttribute.CollectionType.COLLECTION.equals( pluralAttribute.getCollectionType() ) ) {
            return (Join<X,Y>) join( (CollectionAttribute) attribute, 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 );
        }
    }
    else {
        return (Join<X,Y>) join( (SingularAttribute)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 set" );
    }

    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
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 );
    }
}

```


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*/

```
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;
```

```
    public CompoundSelectionImpl(  
        CriteriaBuilderImpl criteriaBuilder,
```

```
        Class<X> javaType,
```

```
        List<Selection<?>> selectionItems) {  
    super( criteriaBuilder, javaType );
```

```
    this.isConstructor = !javaType.isArray() && !Tuple.class.isAssignableFrom( javaType );
```

```
    this.selectionItems = selectionItems;
```

```
    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( sep )
            .append( ( (Renderable) selection ).renderProjection( renderingContext ) );
        sep = ", ";
    }
    if ( isConstructor ) {
        buff.append( ')' );
    }
    return buff.toString();
}

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

```

```

/*
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 * 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 );
}

/**
 * {@inheritDoc}
 */
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 );
}

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

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

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

/**
 * {@inheritDoc}
 */
@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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 * Free Software Foundation, Inc.
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 */
package org.hibernate.ejb.criteria.expression;

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 LiteralExpression<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<R> otherwise(R result) {
    return otherwise( buildLiteral(result) );
    }

    public Expression<R> otherwise(Expression<? extends R> result) {
    this.otherwiseResult = result;
    adjustJavaType( result );
    return this;
    }

    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( ' ' );
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 );
}
}
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 * Boston, MA 02110-1301 USA
 */
 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 {@link 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 );
  }

  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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 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
package org.hibernate.ejb.criteria.expression;

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 );
}
}
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 * Boston, MA 02110-1301 USA
 */
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();
}

}
/*
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```

```

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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;
    }
}
/*
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* 51 Franklin Street, Fifth Floor
* Boston, MA 02110-1301 USA
*/
package org.hibernate.ejb.criteria.predicate;

```

```

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;

        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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 */
package org.hibernate.ejb.metamodel;

import org.hibernate.engine.spi.SessionFactoryImplementor;
import org.hibernate.internal.util.collections.CollectionHelper;
import org.hibernate.mapping.MappedSuperclass;
import org.hibernate.mapping.PersistentClass;

import java.io.Serializable;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Map;

```

```

import java.util.Set;
import javax.persistence.metamodel.*;

/**
 * Hibernate implementation of the JPA { @link Metamodel } contract.
 *
 * @author Steve Ebersole
 * @author Emmanuel Bernard
 */
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.hibernate.SessionFactory }.
     *
     * @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);
    }

    /**
     * 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;
}

//TODO remove / reduce @SW scope
@SuppressWarnings( "unchecked" )
private static EntityTypeImpl<?> buildEntityType(PersistentClass persistentClass, MetadataContext context) {
    final Class javaType = persistentClass.getMappedClass();
    context.pushEntityWorkedOn(persistentClass);
    final MappedSuperclass superMappedSuperclass = persistentClass.getSuperMappedSuperclass();
    AbstractIdentifiableType<?> superType = superMappedSuperclass == null
        ? null
        : locateOrBuildMappedsuperclassType( superMappedSuperclass, context );
    //no mappedSuperclass, check for a super entity
    if (superType == null) {
        final PersistentClass superPersistentClass = persistentClass.getSuperclass();
        superType = superPersistentClass == null
            ? null
            : locateOrBuildEntityType( superPersistentClass, context );
    }
    EntityTypeImpl entityType = new EntityTypeImpl(
        javaType,
        superType,
        persistentClass.getJpaEntityName(),
        persistentClass.hasIdentifierProperty(),
        persistentClass.isVersioned()
    );

    entityType.setTypeNames(persistentClass.getEntityName());

    context.registerEntityType( persistentClass, entityType );
    context.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<?>>( entityTypeByName.values() );
}

@Override
public Set<EmbeddableType<?>> getEmbeddables() {
return new HashSet<EmbeddableType<?>>( embeddables.values() );
}
}
/*
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* Boston, MA 02110-1301 USA
*/
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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```

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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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1.38 apache-ant_within-cglib 1.6.5

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1.42 args4j 2.0.12

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1.46 asm-all-3.3.1_within-cglib 3.3.1

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1.47 AspectJ runtime 1.6.11

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1.50 Axiom Impl 1.2.5

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1.52 bcprov-jdk16 136

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1.59 cglib 2.2.2

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1.60 classmate 1.3.1

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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1.61 classworlds 1.1-alpha-2

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1.101 core-io 1.2.9

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1.112 cxf-tools-wsdlto-core 2.4.1

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1.114 cxf-tools-wsdlto-frontend-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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1.116 Data Mapper for Jackson 1.9.12

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1.117 Default Plexus Container 1.0-alpha-9

1.118 distDES 0.1.0

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1.124 ejabberd 15.11

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1.125 ejabberd 15.04

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1.129 gcm-server 1.0.2

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1.130 geronimo-annotation_1.0_spec 1.0

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1.131 geronimo-jms_1.1_spec 1.1.1

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1.132 geronimo-spec-jta 1.0.1B-rc4

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4.0.2.Final

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1.172 ICU4J 2.6.1

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1.180 Jackson-core 2.4.5

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1.181 jackson-core 2.6.7

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1.182 jackson-core 2.8.3

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1.183 jackson-core-asl 1.9.0

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1.184 jackson-databind 2.4.5

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1.185 jackson-databind 2.6.7

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1.186 jackson-databind 2.8.3

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1.187 jackson-databind 2.2.2

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1.188 jackson-jaxrs-base 2.8.3

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1.189 Jackson-JAXRS-base 2.2.2

1.190 Jackson-JAXRS-JSON 2.2.2

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1.192 jackson-mapper-asl 1.9.0

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That's all there is to it!

/* Jackson JSON-processor.

*

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1.193 Jackson-module-JAXB-annotations

2.2.2

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1.194 jackson-module-jaxb-annotations 2.8.3

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1.195 jarjar_within-cglib 1.0rc8

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1.196 Java 1.5 Parser and AST 1.0.8

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1.197 Java Servlet API 3.1.0

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JavaMail 1.4

1.203 JavaMail API 1.4

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1.210 javax.transaction 1.1.1.v201105210645

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1.9.13

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1.213 JAX-RS provider for JSON content type

1.9.2

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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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1.214 JAXB RI 2.1.13

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1.231 JCL 1.1.1 implemented over SLF4J

1.7.10

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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 IllegalArgumentException if the given text is illegal for a
 *         Comment.
 */
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalArgumentException(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();
}
}

```

1.234 jdom 2.0.2

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*/

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1.236 jersey-core 1.17

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// -----  
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// =====  
//
```

```
package org.eclipse.jetty.servlet;
```

```
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.ServletContext;  
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.HttpFields;  
import org.eclipse.jetty.http.HttpHeaderValues;
```

```

import org.eclipse.jetty.http.HttpHeaders;
import org.eclipse.jetty.http.HttpMethods;
import org.eclipse.jetty.http.MimeTypes;
import org.eclipse.jetty.io.Buffer;
import org.eclipse.jetty.io.ByteArrayBuffer;
import org.eclipse.jetty.io.WriterOutputStream;
import org.eclipse.jetty.server.AbstractHttpConnection;
import org.eclipse.jetty.server.Connector;
import org.eclipse.jetty.server.Dispatcher;
import org.eclipse.jetty.server.HttpOutput;
import org.eclipse.jetty.server.InclusiveByteRange;
import org.eclipse.jetty.server.ResourceCache;
import org.eclipse.jetty.server.Response;
import org.eclipse.jetty.server.handler.ContextHandler;
import org.eclipse.jetty.server.nio.NIOConnector;
import org.eclipse.jetty.server.ssl.SslConnector;
import org.eclipse.jetty.util.IO;
import org.eclipse.jetty.util.MultiPartOutputStream;
import org.eclipse.jetty.util.URIUtil;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;
import org.eclipse.jetty.util.resource.FileResource;
import org.eclipse.jetty.util.resource.Resource;
import org.eclipse.jetty.util.resource.ResourceCollection;
import org.eclipse.jetty.util.resource.ResourceFactory;

```

```

/* ----- */
/** 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.

```

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*
*         This must be false if you want directory listings,
*         but have index.jsp in your welcome file list.
*
* redirectWelcome  If true, welcome files are redirected rather than
*                  forwarded to.
*
* gzip            If set to true, then static content will be served as
*                  gzip content encoded if a matching resource is
*                  found ending with ".gz"
*
* resourceBase    Set to replace the context resource base
*
* resourceCache   If set, this is a context attribute name, which the servlet
*                  will use to look for a shared ResourceCache instance.
*
* relativeResourceBase
*                  Set with a pathname relative to the base of the
*                  servlet context root. Useful for only serving static content out
*                  of only specific subdirectories.
*
* pathInfoOnly    If true, only the path info will be applied to the resourceBase
*
* stylesheet      Set with the location of an optional stylesheet that will be used
*                  to decorate the directory listing html.
*
* aliases         If True, aliases of resources are allowed (eg. symbolic
*                  links and caps variations). May bypass security constraints.
*
* maxCacheSize    The maximum total size of the cache or 0 for no cache.
* maxCachedFileSize The maximum size of a file to cache
* maxCachedFiles  The maximum number of files to cache
*
* useFileMappedBuffer
*                  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.
*                  By default, this is set to true.
*
* cacheControl    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 ByteBuffer _cacheControl;
    private String _relativeResourceBase;
    private ServletHandler _servletHandler;
    private ServletHolder _defaultHolder;

    /* ----- */
    @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;
        }
    }
}

```

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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 ByteBuffer(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)
            return ((ContextHandler.Context)servletContext).getContextHandler();
        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);

```

```

    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(Headers.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() && !_gzip && reqRanges==null && !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 && accept.indexOf("gzip")>=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.get
BufferSize());

        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,

```

```

javax.servlet.http.HttpServletResponse)
    */
    @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>.
     * If the resource is not a directory, or no matching file is found, then it may look for a valid servlet mapping.
     * If there is none, then <code>null</code> is returned.
     * The list of welcome files is read from the { @link ContextHandler} for this servlet, or
     * <code>"index.jsp" , "index.html"</code> if that is <code>null</code>.
     * @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.getContentLength();
    }

    // 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
{
    // 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(Headers.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+
        Headers.CONTENT_TYPE.length()+2+mimetype.length()+2+
        Headers.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[]{Headers.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(HttpServletRequest 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

```

```
public void destroy()
{
    if (_cache!=null)
        _cache.flushCache();
    super.destroy();
}
}
```

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1.300 junit_within-cglib 3.8.1

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1.306 Logback Core Module 1.1.2

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```
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1.333 netty 3.2.9.Final

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*/
```

```
package io.netty.util.internal.chmv8;
```

```
import java.util.concurrent.RecursiveAction;
```

```
/**
 * A {@link ForkJoinTask} with a completion action performed when
 * triggered and there are no remaining pending actions.
 * CountedCompleters are in general more robust in the
 * presence of subtask stalls and blockage than are other forms of
 * ForkJoinTasks, but are less intuitive to program. Uses of
 * CountedCompleter are similar to those of other completion based
 * components (such as {@link java.nio.channels.CompletionHandler})
 * except that multiple pending completions may be necessary
 * to trigger the completion action {@link #onCompletion(CountedCompleter)},
 * not just one.
 * Unless initialized otherwise, the {@linkplain #getPendingCount pending
 * count} starts at zero, but may be (atomically) changed using
 * methods {@link #setPendingCount}, {@link #addToPendingCount}, and
 * {@link #compareAndSetPendingCount}. Upon invocation of {@link
 * #tryComplete}, if the pending action count is nonzero, it is
 * decremented; otherwise, the completion action is performed, and if
 * this completer itself has a completer, the process is continued
 * with its completer. As is the case with related synchronization
 * components such as {@link java.util.concurrent.Phaser Phaser} and
 * {@link java.util.concurrent.Semaphore Semaphore}, these methods
 * affect only internal counts; they do not establish any further
 * internal bookkeeping. In particular, the identities of pending
 * tasks are not maintained. As illustrated below, you can create
 * subclasses that do record some or all pending tasks or their
 * results when needed. As illustrated below, utility methods
```

* supporting customization of completion traversals are also
 * provided. However, because `CountedCompleters` provide only basic
 * synchronization mechanisms, it may be useful to create further
 * abstract subclasses that maintain linkages, fields, and additional
 * support methods appropriate for a set of related usages.
 *

* `<p>`A concrete `CountedCompleter` class must define method { @link
 * `#compute`}, that should in most cases (as illustrated below), invoke
 * { @code `tryComplete()` } once before returning. The class may also
 * optionally override method { @link `#onCompletion(CountedCompleter)` }
 * to perform an action upon normal completion, and method
 * { @link `#onExceptionalCompletion(Throwable, CountedCompleter)` } to
 * perform an action upon any exception.
 *

* `<p>``CountedCompleters` most often do not bear results, in which case
 * they are normally declared as { @code `CountedCompleter<Void>` }, and
 * will always return { @code `null` } as a result value. In other cases,
 * you should override method { @link `#getRawResult` } to provide a
 * result from { @code `join()`, `invoke()` }, and related methods. In
 * general, this method should return the value of a field (or a
 * function of one or more fields) of the `CountedCompleter` object that
 * holds the result upon completion. Method { @link `#setRawResult` } by
 * default plays no role in `CountedCompleters`. It is possible, but
 * rarely applicable, to override this method to maintain other
 * objects or fields holding result data.
 *

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

* `<p>`Sample Usages.``
 *

* `<p>`Parallel recursive decomposition.`` `CountedCompleters` may
 * be arranged in trees similar to those often used with { @link
 * `RecursiveAction` }s, although the constructions involved in setting
 * them up typically vary. Here, the completer of each task is its

- * parent in the computation tree. Even though they entail a bit more
- * bookkeeping, CountedCompleters may be better choices when applying
- * a possibly time-consuming operation (that cannot be further
- * subdivided) to each element of an array or collection; especially
- * when the operation takes a significantly different amount of time
- * to complete for some elements than others, either because of
- * intrinsic variation (for example I/O) or auxiliary effects such as
- * garbage collection. Because CountedCompleters provide their own
- * continuations, other threads need not block waiting to perform
- * them.

*

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

*

```

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

```

```
* }
* }</pre>
```

```
*
```

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

```
*
```

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

```
*
```

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

```
*
```

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

*
 * Additional improvements of such classes might entail precomputing
 * pending counts so that they can be established in constructors,
 * specializing classes for leaf steps, subdividing by say, four,
 * instead of two per iteration, and using an adaptive threshold
 * instead of always subdividing down to single elements.
 *
 * **Searching.** A tree of CountedCompleters can search for a
 * value or property in different parts of a data structure, and
 * report a result in an `{ @link`
 * `java.util.concurrent.atomic.AtomicReference AtomicReference}` as
 * soon as one is found. The others can poll the result to avoid
 * unnecessary work. (You could additionally `{ @linkplain #cancel`
 * `cancel}` other tasks, but it is usually simpler and more efficient
 * to just let them notice that the result is set and if so skip
 * further processing.) Illustrating again with an array using full
 * partitioning (again, in practice, leaf tasks will almost always
 * process more than one element):
 *
 *

```
 { @code
```


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

```
*   return new Searcher<E>(null, array, new AtomicReference<E>(), 0, array.length).invoke();
* }
* }</pre>
```

*

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

*

* <p>Recording subtasks. 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 `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 `tryComplete`, or (2) by any of its subtasks when they complete and decrement the pending count to zero. The `caller` argument distinguishes cases. Most often, when the caller is `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 `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.

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

```

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

```

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

```

* <pre> { @code
* class HeaderBuilder extends CountedCompleter<...> { ... }
* class BodyBuilder extends CountedCompleter<...> { ... }
* class PacketSender extends CountedCompleter<...> {
*   PacketSender(...) { super(null, 1); ... } // trigger on second completion
*   public void compute() { } // never called

```

```

* public void onCompletion(CountedCompleter<?> caller) { sendPacket(); }
* }
* // sample use:
* PacketSender p = new PacketSender();
* new HeaderBuilder(p, ...).fork();
* new BodyBuilder(p, ...).fork();
* }</pre>
*
* @since 1.8
* @author Doug Lea
*/
@SuppressWarnings("all")
public abstract class CountedCompleter<T> extends ForkJoinTask<T> {
    private static final long serialVersionUID = 5232453752276485070L;

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

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

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

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

```

```

    this.completer = null;
}

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

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

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

/**
 * Returns the completer established in this task's constructor,
 * or {@code null} if none.

```

```

*
* @return the completer
*/
public final CountedCompleter<?> getCompleter() {
    return completer;
}

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

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

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

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

/**

```

```

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

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

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

/**
* Equivalent to {@link #tryComplete} but does not invoke {@link

```

```

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

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

```

```

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

/**
 * If this task does not have a completer, invokes { @link
 * ForkJoinTask#quietlyComplete } and returns { @code null }. Or, if
 * the completer's pending count is non-zero, decrements that
 * pending count and returns { @code null }. Otherwise, returns the
 * completer. This method can be used as part of a completion
 * traversal loop for homogeneous task hierarchies:
 *
 * <pre> { @code
 * for (CountedCompleter<?> c = firstComplete();
 *     c != null;
 *     c = c.nextComplete()) {
 * // ... process c ...
 * } }</pre>
 *
 * @return the completer, or { @code null } if none
 */
public final CountedCompleter<?> nextComplete() {
    CountedCompleter<?> p;
    if ((p = completer) != null)
        return p.firstComplete();
    else {
        quietlyComplete();
        return null;
    }
}

/**
 * Equivalent to { @code getRoot().quietlyComplete() }.

```

```

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

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

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

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

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

```

```

protected void setRawResult(T t) { }

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

/**
 * Returns a sun.misc.Unsafe. Suitable for use in a 3rd party package.
 * Replace with a simple call to Unsafe.getUnsafe when integrating
 * into a jdk.
 *
 * @return a sun.misc.Unsafe
 */
private static sun.misc.Unsafe getUnsafe() {
    try {
        return sun.misc.Unsafe.getUnsafe();
    } catch (SecurityException tryReflectionInstead) {}
    try {
        return java.security.AccessController.doPrivileged
            (new java.security.PrivilegedExceptionAction<sun.misc.Unsafe>() {
                public sun.misc.Unsafe run() throws Exception {
                    Class<sun.misc.Unsafe> k = sun.misc.Unsafe.class;
                    for (java.lang.reflect.Field f : k.getDeclaredFields()) {
                        f.setAccessible(true);
                        Object x = f.get(null);
                        if (k.isInstance(x))
                            return k.cast(x);
                    }
                    throw new NoSuchFieldError("the Unsafe");
                }
            });
    } catch (java.security.PrivilegedActionException e) {
        throw new RuntimeException("Could not initialize intrinsics",
            e.getCause());
    }
}
}
}
/*
 * Copyright 2013 The Netty Project
 *

```

```

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

```

```
package io.netty.util.concurrent;
```

```
import java.util.concurrent.TimeUnit;
```

```
/**
```

```
* A skeletal {@link Future} implementation which represents a {@link Future} which has been completed already.
```

```
*/
```

```
public abstract class CompleteFuture<V> extends AbstractFuture<V> {
```

```
    private final EventExecutor executor;
```

```
    /**
```

```
     * Creates a new instance.
```

```
     *
```

```
     * @param executor the {@link EventExecutor} associated with this future
```

```
     */
```

```
    protected CompleteFuture(EventExecutor executor) {
```

```
        this.executor = executor;
```

```
    }
```

```
    /**
```

```
     * Return the {@link EventExecutor} which is used by this {@link CompleteFuture}.
```

```
     */
```

```
    protected EventExecutor executor() {
```

```
        return executor;
```

```
    }
```

```
    @Override
```

```
    public Future<V> addListener(GenericFutureListener<? extends Future<? super V>> listener) {
```

```
        if (listener == null) {
```

```
            throw new NullPointerException("listener");
```

```
        }
```

```
        DefaultPromise.notifyListener(executor(), this, listener);
```

```
        return this;
```

```
    }
```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

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

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

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

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

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

@Override
public boolean cancel(boolean mayInterruptIfRunning) {
    return false;
}
}

```

```

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 */

package io.netty.util;

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

    private static final long serialVersionUID = -2507492394288153468L;

    public IllegalReferenceCountException() { }

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

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

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

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

    public IllegalReferenceCountException(Throwable cause) {
        super(cause);
    }
}

```

```

}
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 */
package io.netty.channel;

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

/**
 * {@link ChannelInboundHandlerAdapter} which allows to explicit only handle a specific type of messages.
 *
 * For example here is an implementation which only handle {@link String} messages.
 *
 * <pre>
 * public class StringHandler extends
 *     {@link SimpleChannelInboundHandler}&lt;{@link String}&gt; {
 *
 *     {@code @Override}
 *     protected void channelRead0({@link ChannelHandlerContext} ctx, {@link String} message)
 *         throws {@link Exception} {
 *         System.out.println(message);
 *     }
 * }
 * </pre>
 *
 * Be aware that depending of the constructor parameters it will release all handled messages.
 *
 * <h3>Forward compatibility notice</h3>
 *
 * <p>Please keep in mind that {@link #channelRead0(ChannelHandlerContext, Object)} will be renamed to
 * {@code messageReceived(ChannelHandlerContext, I)} in 5.0.
 *
 * </p>
 */
public abstract class SimpleChannelInboundHandler<I> extends ChannelInboundHandlerAdapter {

```

```

private final TypeParameterMatcher matcher;
private final boolean autoRelease;

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

/**
 * Create a new instance which will try to detect the types to match out of the type parameter of the class.
 *
 * @param autoRelease {@code true} if handled messages should be released automatically by pass them to
 *                    {@link ReferenceCountUtil#release(Object)}.
 */
protected SimpleChannelInboundHandler(boolean autoRelease) {
    matcher = TypeParameterMatcher.find(this, SimpleChannelInboundHandler.class, "I");
    this.autoRelease = autoRelease;
}

/**
 * @see {@link #SimpleChannelInboundHandler(Class, boolean)} with {@code true} as boolean value.
 */
protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType) {
    this(inboundMessageType, true);
}

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

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

```

```

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

/**
 * <strong>Please keep in mind that this method will be renamed to
 * {@code messageReceived(ChannelHandlerContext, I)} in 5.0.</strong>
 *
 * Is called for each message of type {@link I}.
 *
 * @param ctx      the {@link ChannelHandlerContext} which this {@link SimpleChannelInboundHandler}
 *                 belongs to
 * @param msg      the message to handle
 * @throws Exception is thrown if an error occurred
 */
protected abstract void channelRead0(ChannelHandlerContext ctx, I msg) throws Exception;
}

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 */
package io.netty.channel;

```

```

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

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

    private final Channel channel;

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

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

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

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

```

```

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

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

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

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

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

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

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

@Override
public Void getNow() {
    return null;
}
}
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*/

```
package io.netty.buffer;
```

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

```
/**
```

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

```
*/
```

```
public class DuplicatedByteBuffer extends AbstractByteBuffer {
```

```
    private final ByteBuffer buffer;
```

```
    public DuplicatedByteBuffer(ByteBuffer buffer) {  
        super(buffer.maxCapacity());
```

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

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

```
    @Override
```

```
    public ByteBuffer unwrap() {  
        return buffer;  
    }
```

```
    @Override
```

```

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

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

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

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

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

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

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

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

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

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

```

```

}

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

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

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

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

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

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

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

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

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

@Override

```

```

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

```

```

    return this;
}

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

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

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

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

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

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

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

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

```

```

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

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

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

/**
 * A derived buffer which exposes its parent's sub-region only. It is
 * recommended to use {@link 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();
}

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

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

@Override

```

```

public ByteBuffer capacity(int newCapacity) {
    throw new UnsupportedOperationException("sliced buffer");
}

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

@Override

```

```
public ByteBuffer 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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 */
package io.netty.handler.codec.marshalling;

import org.jboss.marshalling.ByteInput;

import java.io.IOException;

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

    // Use a static instance here to remove the overhead of fillStackTrace

```

```
private static final TooBigObjectException EXCEPTION = new TooBigObjectException();
```

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

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

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

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

```
@Override  
public int read() throws IOException {  
    int readable = readable(1);  
    if (readable > 0) {  
        int b = input.read();  
        read++;  
        return b;  
    } else {  
        throw EXCEPTION;  
    }  
}
```

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

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

```

    } else {
        throw EXCEPTION;
    }
}

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

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

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

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 */

package io.netty.handler.codec.sctp;

import io.netty.buffer.ByteBuf;

```

```

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

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

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

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

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

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

```

```

        fragments.put(streamIdentifier, byteBuf);
    }
    byteBuf.retain();
}
}
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 */
package io.netty.handler.codec;

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

/**
 * A set of commonly used delimiters for {@link DelimiterBasedFrameDecoder}.
 */
public final class Delimiters {

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

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

```

```

    }

    private Delimiters() {
        // Unused
    }
}
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 */
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}.
 *
 * 

### Predefined delimiters


 *
 * 

{@link Delimiters} defines frequently used delimiters for convenience' sake.


 *
 * 

### Specifying more than one delimiter


 *
 * 

{@link DelimiterBasedFrameDecoder} allows you to specify more than one
 * delimiter. If more than one delimiter is found in the buffer, it chooses
 * the delimiter which produces the shortest frame. For example, if you have
 * the following data in the buffer:


 *
 * 

```

 * +-----+
 * | ABC\nDEF\r\n |
 * +-----+

```


```

```

* </pre>
* a { @link DelimiterBasedFrameDecoder}({ @link Delimiters#lineDelimiter() Delimiters.lineDelimiter()})
* will choose { @code '\n'} as the first delimiter and produce two frames:
* <pre>
* +-----+-----+
* | ABC | DEF |
* +-----+-----+
* </pre>
* rather than incorrectly choosing { @code '\r\n'} as the first delimiter:
* <pre>
* +-----+
* | ABC\r\nDEF |
* +-----+
* </pre>
*/
public class DelimiterBasedFrameDecoder extends ByteToMessageDecoder {

```

```

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

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

    /**
     * Creates a new instance.
     *
     * @param maxFrameLength the maximum length of the decoded frame.
     *                        A { @link TooLongFrameException} is thrown if
     *                        the length of the frame exceeds this value.
     * @param stripDelimiter whether the decoded frame should strip out the
     *                        delimiter or not
     * @param delimiter the delimiter
     */

```

```

public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, ByteBuf delimiter) {
    this(maxFrameLength, stripDelimiter, true, delimiter);
}

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

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

/**
 * Creates a new instance.
 *
 * @param maxFrameLength the maximum length of the decoded frame.
 *     A {@link TooLongFrameException} is thrown if
 *     the length of the frame exceeds this value.
 * @param stripDelimiter whether the decoded frame should strip out the

```

```

*         delimiter or not
* @param delimiters the delimiters
*/
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, ByteBuf... delimiters) {
    this(maxFrameLength, stripDelimiter, true, delimiters);
}

/**
 * Creates a new instance.
 *
 * @param maxFrameLength the maximum length of the decoded frame.
 *         A { @link TooLongFrameException } is thrown if
 *         the length of the frame exceeds this value.
 * @param stripDelimiter whether the decoded frame should strip out the
 *         delimiter or not
 * @param failFast If <tt>true</tt>, a { @link TooLongFrameException } is
 *         thrown as soon as the decoder notices the length of the
 *         frame will exceed <tt>maxFrameLength</tt> regardless of
 *         whether the entire frame has been read.
 *         If <tt>false</tt>, a { @link TooLongFrameException } is
 *         thrown after the entire frame that exceeds
 *         <tt>maxFrameLength</tt> has been read.
 * @param delimiters the delimiters
 */
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, boolean failFast, ByteBuf... delimiters) {
    validateMaxFrameLength(maxFrameLength);
    if (delimiters == null) {
        throw new NullPointerException("delimiters");
    }
    if (delimiters.length == 0) {
        throw new IllegalArgumentException("empty delimiters");
    }

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

```

```

    this.stripDelimiter = stripDelimiter;
    this.failFast = failFast;
}

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

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

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

/**
 * Create a frame out of the {@link ByteBuf} and return it.
 *
 * @param ctx the {@link ChannelHandlerContext} which this {@link ByteToMessageDecoder}
belongs to
 * @param buffer the {@link ByteBuf} from which to read data
 * @return frame the {@link ByteBuf} which represent the frame or {@code null} if no frame could
 * be created.
 */
protected Object decode(ChannelHandlerContext ctx, ByteBuf buffer) throws Exception {
    if (lineBasedDecoder != null) {
        return lineBasedDecoder.decode(ctx, buffer);
    }
}

```

```

// Try all delimiters and choose the delimiter which yields the shortest frame.
int minFrameLength = Integer.MAX_VALUE;
ByteBuf minDelim = null;
for (ByteBuf delim: delimiters) {
    int frameLength = indexOf(buffer, delim);
    if (frameLength >= 0 && frameLength < minFrameLength) {
        minFrameLength = frameLength;
        minDelim = delim;
    }
}

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

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

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

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

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

    return frame;
} else {
    if (!discardingTooLongFrame) {
        if (buffer.readableBytes() > maxFrameLength) {
            // Discard the content of the buffer until a delimiter is found.

```

```

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

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

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

```

```

    }
}

if (needleIndex == needle.capacity()) {
    // Found the needle from the haystack!
    return i - haystack.readerIndex();
}
}
return -1;
}

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

private static void validateMaxFrameLength(int maxFrameLength) {
    if (maxFrameLength <= 0) {
        throw new IllegalArgumentException(
            "maxFrameLength must be a positive integer: " +
            maxFrameLength);
    }
}
}
}
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 */
package io.netty.handler.ssl;

/**
 * Event that is fired once the SSL handshake is complete, which may be because it was successful or there

```

```

* was an error.
*/
public final class SslHandshakeCompletionEvent {

    public static final SslHandshakeCompletionEvent SUCCESS = new SslHandshakeCompletionEvent();

    private final Throwable cause;

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

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

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

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

```

1.336 notification-feedback 3.54.0-0

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1.337 org.objectweb.asm

3.1.0.v200803061910

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1.338 org.osgi.compendium 1.4.0

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1.339 org.osgi.core 1.4.0

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* @author Paul Phillips
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 * / _ _ \ / _/ / / _/ _/ / /
 *
 *
 */
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1.365 SnakeYAML 1.14

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1.467 Streaming API for XML (STAX API 1.0)

1.0.1

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1.474 tms-single-server 3.70.4-1

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1.476 tomcat-embed-core 8.0.20

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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1.477 tomcat-embed-core_copyleft 8.0.15

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1.478 tomcat-embed-el 8.0.20

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1.479 tomcat-embed-logging-juli 8.0.20

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1.480 tomcat-embed-websocket 8.0.20

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1.493 WSDL4j 1.6.2

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1.497 Xerces2 Java Parser 2.9.0

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1.2

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