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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 );
    }
}
}

```

```
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 * 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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 * 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.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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```

```

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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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 * 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.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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* 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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 * 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" );
}

```

```

}
}
/*
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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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*/
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" })

```



```

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

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

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* 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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 * 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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* 51 Franklin Street, Fifth Floor
* 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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*/
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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 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */

```

```
package org.hibernate.ejb.criteria.path;
```

```

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

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

```

```

/**
 * Convenience base class for various {@link Path} implementors.
 *
 * @author Steve Ebersole

```

```

*/
public abstract class AbstractPathImpl<X>
    extends ExpressionImpl<X>
    implements Path<X>, PathImplementor<X>, Serializable {

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

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

    public PathSource getPathSource() {
        return pathSource;
    }

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

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

    /**
     * {@inheritDoc}
     */

```

```

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

protected abstract boolean canBeDereferenced();

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

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

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

protected final void registerAttributePath(String attributeName, Path path) {
    if ( attributePathRegistry == null ) {
        attributePathRegistry = new HashMap<String,Path>();
    }
    attributePathRegistry.put( attributeName, path );
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
@Override
public <Y> Path<Y> get(SingularAttribute<? super X, Y> attribute) {
    if ( ! canBeDereferenced() ) {
        throw illegalDereference();
    }
}

```

```

SingularAttributePath<Y> path = (SingularAttributePath<Y>) resolveCachedAttributePath( attribute.getName() );
if ( path == null ) {
    path = new SingularAttributePath<Y>( criteriaBuilder(), attribute.getJavaType(), this, attribute );
    registerAttributePath( attribute.getName(), path );
}
return path;
}

/**
 * {@inheritDoc}
 */
@SuppressWarnings({ "unchecked" })
@Override
public <E, C extends Collection<E>> Expression<C> get(PluralAttribute<X, C, E> attribute) {
    if ( ! canBeDereferenced() ) {
        throw illegalDereference();
    }

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

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

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

/**
 * {@inheritDoc}
 */

```

```

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

    final Attribute attribute = locateAttribute( attributeName );

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

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

/**
 * Get the attribute by name from the underlying model. This allows subclasses to
 * define exactly how the attribute is derived. Called from {@link #locateAttribute}
 * which also applies nullness checking for proper error reporting.
 *
 * @param attributeName The name of the attribute to locate
 */

```

```

* @return The attribute; may be null.
*
* @throws IllegalArgumentException If no such attribute exists
*/
protected abstract Attribute locateAttributeInternal(String attributeName);

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

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

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

/**
 * {@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 );
    }
}

```

```

else if ( PluralAttribute.CollectionType.SET.equals( pluralAttribute.getCollectionType() ) ) {
    fetch = constructJoin( (SetAttribute<X,Y>) pluralAttribute, jt );
}
else {
    fetch = constructJoin( (MapAttribute<X,?,Y>) pluralAttribute, jt );
}
joinScope.addFetch( fetch );
return fetch;
}

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

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

    Attribute<X,?> attribute = (Attribute<X, ?>) locateAttribute( attributeName );
    if ( attribute.isCollection() ) {
        return (Fetch<X, Y>) fetch( (PluralAttribute) attribute, jt );
    }
    else {
        return (Fetch<X, Y>) fetch( (SingularAttribute) attribute, jt );
    }
}
}
}
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```

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

```

```
package org.hibernate.ejb.criteria.expression;
```

```

import java.io.Serializable;
import java.math.BigDecimal;
import java.math.BigInteger;
import java.util.Collection;
import javax.persistence.criteria.Expression;
import javax.persistence.criteria.Predicate;

import org.hibernate.ejb.criteria.CriteriaBuilderImpl;
import org.hibernate.ejb.criteria.ExpressionImplementor;
import org.hibernate.ejb.criteria.expression.function.CastFunction;

```

```

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

```

```

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

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

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

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

/**
 * {@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.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 */
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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 \* Free Software Foundation, Inc.  
 \* 51 Franklin Street, Fifth Floor  
 \* Boston, MA 02110-1301 USA  
 \*/  
 package org.hibernate.ejb.criteria.expression;

```
import java.io.Serializable;
import java.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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 * 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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 * 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.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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*/
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;
    }
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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*/
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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*/

```

```

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;
}
}

```

## 1.2 Abdera Core 1.0

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## 1.5 abdera-spring 1.0

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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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- Introduction
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- Roles
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## 1.114 cxf-tools-wsdlto-frontend-jaxws 2.4.1

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# 1.115 Data Mapper for Jackson 1.9.2

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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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## 1.124 ejabberd 15.11

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## 1.125 ejabberd 15.04

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# 1.146 hibernate-validator 5.2.4.Final

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## 1.172 ICU4J 2.6.1

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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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# 1.187 jackson-databind 2.2.2

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## 1.189 Jackson-JAXRS-base 2.2.2

## 1.190 Jackson-JAXRS-JSON 2.2.2

## 1.191 jackson-jaxrs-json-provider 2.8.3

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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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# 1.196 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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## 1.212 JAX-RS provider for JSON content type

### 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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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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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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\*/

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## 1.236 jersey-core 1.17

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### 3.0.0.v201112011016

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19 May, 2009

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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.

```

```

*
*      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;
        }
    }
}

```

```

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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## 1.282 jnp-client 4.0.2

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# 1.301 log4j 1.2.17

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```
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*/
```

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

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

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

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

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

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

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

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

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

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

\*

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

\*

```

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

```



```

* }
* }}</pre>
*
* This design can be improved by noticing that in the recursive case,
* the task has nothing to do after forking its right task, so can
* directly invoke its left task before returning. (This is an analog
* of tail recursion removal.) Also, because the task returns upon
* executing its left task (rather than falling through to invoke
* {@code tryComplete}) the pending count is set to one:
*
* <pre> {@code
* class ForEach<E> ...
* public void compute() { // version 2
*   if (hi - lo >= 2) {
*     int mid = (lo + hi) >>> 1;
*     setPendingCount(1); // only one pending
*     new ForEach(this, array, op, mid, hi).fork(); // right child
*     new ForEach(this, array, op, lo, mid).compute(); // direct invoke
*   }
*   else {
*     if (hi > lo)
*       op.apply(array[lo]);
*     tryComplete();
*   }
* }
* }</pre>
*
* As a further improvement, notice that the left task need not even exist.
* Instead of creating a new one, we can iterate using the original task,
* and add a pending count for each fork. Additionally, because no task
* in this tree implements an {@link #onCompletion(CountedCompleter)} method,
* {@code tryComplete()} can be replaced with {@link #propagateCompletion}.
*
* <pre> {@code
* class ForEach<E> ...
* public void compute() { // version 3
*   int l = lo, h = hi;
*   while (h - l >= 2) {
*     int mid = (l + h) >>> 1;
*     addToPendingCount(1);
*     new ForEach(this, array, op, mid, h).fork(); // right child
*     h = mid;
*   }
*   if (h > l)
*     op.apply(array[l]);
*   propagateCompletion();
* }
* }</pre>

```

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

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

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

```

*   return new Searcher<E>(null, array, new AtomicReference<E>(), 0, array.length).invoke();
* }
* }}</pre>
*
* In this example, as well as others in which tasks have no other
* effects except to compareAndSet a common result, the trailing
* unconditional invocation of { @code tryComplete } could be made
* conditional ( { @code if (result.get() == null) tryComplete(); } )
* because no further bookkeeping is required to manage completions
* once the root task completes.
*
* <p><b>Recording subtasks.</b> CountedCompleter tasks that combine
* results of multiple subtasks usually need to access these results
* in method { @link #onCompletion(CountedCompleter) }. As illustrated in the following
* class (that performs a simplified form of map-reduce where mappings
* and reductions are all of type { @code E } ), one way to do this in
* divide and conquer designs is to have each subtask record its
* sibling, so that it can be accessed in method { @code onCompletion }.
* This technique applies to reductions in which the order of
* combining left and right results does not matter; ordered
* reductions require explicit left/right designations. Variants of
* other streamlinings seen in the above examples may also apply.
*
* <pre> { @code
* class MyMapper<E> { E apply(E v) { ... } }
* class MyReducer<E> { E apply(E x, E y) { ... } }
* class MapReducer<E> extends CountedCompleter<E> {
*   final E[] array; final MyMapper<E> mapper;
*   final MyReducer<E> reducer; final int lo, hi;
*   MapReducer<E> sibling;
*   E result;
*   MapReducer(CountedCompleter<?> p, E[] array, MyMapper<E> mapper,
*     MyReducer<E> reducer, int lo, int hi) {
*     super(p);
*     this.array = array; this.mapper = mapper;
*     this.reducer = reducer; this.lo = lo; this.hi = hi;
*   }
*   public void compute() {
*     if (hi - lo >= 2) {
*       int mid = (lo + hi) >>> 1;
*       MapReducer<E> left = new MapReducer(this, array, mapper, reducer, lo, mid);
*       MapReducer<E> right = new MapReducer(this, array, mapper, reducer, mid, hi);
*       left.sibling = right;
*       right.sibling = left;
*       setPendingCount(1); // only right is pending
*       right.fork();
*       left.compute(); // directly execute left
*     }
*   }
* }

```

```

*   else {
*       if (hi > lo)
*           result = mapper.apply(array[lo]);
*       tryComplete();
*   }
* }
* public void onCompletion(CountedCompleter<?> caller) {
*   if (caller != this) {
*       MapReducer<E> child = (MapReducer<E>)caller;
*       MapReducer<E> sib = child.sibling;
*       if (sib == null || sib.result == null)
*           result = child.result;
*       else
*           result = reducer.apply(child.result, sib.result);
*   }
* }
* public E getRawResult() { return result; }
*
* public static <E> E mapReduce(E[] array, MyMapper<E> mapper, MyReducer<E> reducer) {
*   return new MapReducer<E>(null, array, mapper, reducer,
*       0, array.length).invoke();
* }
* }}</pre>

```

Here, method `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><b>Triggers.</b> 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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* 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>
 *
 * 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 AbstractDerivedByteBuffer {
```

```
    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 ByteBuffer setMedium(int index, int value) {
    _setMedium(index, value);
    return this;
}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

```



```

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

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

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

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

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

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

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

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

@Override

```

```
public 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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```
/** Scala SBT build
```

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```

```
* @author Paul Phillips
```

```
*/
```

```
/*
```

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```

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*/
```

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

```
/*
 * Written by Dawid Kurzyniec, based on public domain code written by Doug Lea
 * and publicly available documentation, and released to the public domain, as
 * explained at http://creativecommons.org/licenses/publicdomain
 */
```

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# 1.365 SnakeYAML 1.14

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*/
```

```
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## 4.1.5.RELEASE

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### 1.0.1

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## 1.472 tms-on-demand-server-api 3.70.4-1

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# 1.474 tms-single-server 3.70.4-1

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## 1.478 tomcat-embed-el 8.0.20

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## 1.493 WSDL4j 1.6.2

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# 1.509 XStream Core 1.3.1

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