package com.twitter.search.core.earlybird.index.inverted;

import java.io.IOException;

import org.apache.lucene.index.PostingsEnum;

import com.twitter.search.common.util.io.flushable.Flushable;

public abstract class OptimizedPostingLists implements Flushable {

static final int MAX\_DOC\_ID\_BIT = 24;

static final int MAX\_DOC\_ID = (1 << MAX\_DOC\_ID\_BIT) - 1;

static final int MAX\_POSITION\_BIT = 31;

static final int MAX\_FREQ\_BIT = 31;

/\*\*

\* Copies the given posting list into these posting lists.

\*

\* @param postingsEnum enumerator of the posting list that needs to be copied

\* @param numPostings number of postings in the posting list that needs to be copied

\* @return position index of the head of the copied posting list in these posting lists instance

\*/

public abstract int copyPostingList(PostingsEnum postingsEnum, int numPostings)

throws IOException;

/\*\*

\* Create and return a postings doc enumerator or doc-position enumerator based on input flag.

\*

\* @see org.apache.lucene.index.PostingsEnum

\*/

public abstract EarlybirdPostingsEnum postings(int postingListPointer, int numPostings, int flags)

throws IOException;

/\*\*

\* Returns the largest docID contained in the posting list pointed by {@code postingListPointer}.

\*/

public final int getLargestDocID(int postingListPointer, int numPostings) throws IOException {

return postings(postingListPointer, numPostings, PostingsEnum.NONE).getLargestDocID();

}

}