/\* ----------------------------------------------------------------------------

\* This file was automatically generated by SWIG (http://www.swig.org).

\* Version 4.0.2

\*

\* Do not make changes to this file unless you know what you are doing--modify

\* the SWIG interface file instead.

\* ----------------------------------------------------------------------------- \*/

package com.twitter.ann.faiss;

public class IndexIVFFlatDedup extends IndexIVFFlat {

private transient long swigCPtr;

protected IndexIVFFlatDedup(long cPtr, boolean cMemoryOwn) {

super(swigfaissJNI.IndexIVFFlatDedup\_SWIGUpcast(cPtr), cMemoryOwn);

swigCPtr = cPtr;

}

protected static long getCPtr(IndexIVFFlatDedup obj) {

return (obj == null) ? 0 : obj.swigCPtr;

}

@SuppressWarnings("deprecation")

protected void finalize() {

delete();

}

public synchronized void delete() {

if (swigCPtr != 0) {

if (swigCMemOwn) {

swigCMemOwn = false;

swigfaissJNI.delete\_IndexIVFFlatDedup(swigCPtr);

}

swigCPtr = 0;

}

super.delete();

}

public void setInstances(SWIGTYPE\_p\_std\_\_unordered\_multimapT\_int64\_t\_int64\_t\_t value) {

swigfaissJNI.IndexIVFFlatDedup\_instances\_set(swigCPtr, this, SWIGTYPE\_p\_std\_\_unordered\_multimapT\_int64\_t\_int64\_t\_t.getCPtr(value));

}

public SWIGTYPE\_p\_std\_\_unordered\_multimapT\_int64\_t\_int64\_t\_t getInstances() {

return new SWIGTYPE\_p\_std\_\_unordered\_multimapT\_int64\_t\_int64\_t\_t(swigfaissJNI.IndexIVFFlatDedup\_instances\_get(swigCPtr, this), true);

}

public IndexIVFFlatDedup(Index quantizer, long d, long nlist\_, MetricType arg3) {

this(swigfaissJNI.new\_IndexIVFFlatDedup\_\_SWIG\_0(Index.getCPtr(quantizer), quantizer, d, nlist\_, arg3.swigValue()), true);

}

public IndexIVFFlatDedup(Index quantizer, long d, long nlist\_) {

this(swigfaissJNI.new\_IndexIVFFlatDedup\_\_SWIG\_1(Index.getCPtr(quantizer), quantizer, d, nlist\_), true);

}

public void train(long n, SWIGTYPE\_p\_float x) {

swigfaissJNI.IndexIVFFlatDedup\_train(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x));

}

public void add\_with\_ids(long n, SWIGTYPE\_p\_float x, LongVector xids) {

swigfaissJNI.IndexIVFFlatDedup\_add\_with\_ids(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x), SWIGTYPE\_p\_long\_long.getCPtr(xids.data()), xids);

}

public void search\_preassigned(long n, SWIGTYPE\_p\_float x, long k, LongVector assign, SWIGTYPE\_p\_float centroid\_dis, SWIGTYPE\_p\_float distances, LongVector labels, boolean store\_pairs, IVFSearchParameters params, IndexIVFStats stats) {

swigfaissJNI.IndexIVFFlatDedup\_search\_preassigned\_\_SWIG\_0(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x), k, SWIGTYPE\_p\_long\_long.getCPtr(assign.data()), assign, SWIGTYPE\_p\_float.getCPtr(centroid\_dis), SWIGTYPE\_p\_float.getCPtr(distances), SWIGTYPE\_p\_long\_long.getCPtr(labels.data()), labels, store\_pairs, IVFSearchParameters.getCPtr(params), params, IndexIVFStats.getCPtr(stats), stats);

}

public void search\_preassigned(long n, SWIGTYPE\_p\_float x, long k, LongVector assign, SWIGTYPE\_p\_float centroid\_dis, SWIGTYPE\_p\_float distances, LongVector labels, boolean store\_pairs, IVFSearchParameters params) {

swigfaissJNI.IndexIVFFlatDedup\_search\_preassigned\_\_SWIG\_1(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x), k, SWIGTYPE\_p\_long\_long.getCPtr(assign.data()), assign, SWIGTYPE\_p\_float.getCPtr(centroid\_dis), SWIGTYPE\_p\_float.getCPtr(distances), SWIGTYPE\_p\_long\_long.getCPtr(labels.data()), labels, store\_pairs, IVFSearchParameters.getCPtr(params), params);

}

public void search\_preassigned(long n, SWIGTYPE\_p\_float x, long k, LongVector assign, SWIGTYPE\_p\_float centroid\_dis, SWIGTYPE\_p\_float distances, LongVector labels, boolean store\_pairs) {

swigfaissJNI.IndexIVFFlatDedup\_search\_preassigned\_\_SWIG\_2(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x), k, SWIGTYPE\_p\_long\_long.getCPtr(assign.data()), assign, SWIGTYPE\_p\_float.getCPtr(centroid\_dis), SWIGTYPE\_p\_float.getCPtr(distances), SWIGTYPE\_p\_long\_long.getCPtr(labels.data()), labels, store\_pairs);

}

public long remove\_ids(IDSelector sel) {

return swigfaissJNI.IndexIVFFlatDedup\_remove\_ids(swigCPtr, this, IDSelector.getCPtr(sel), sel);

}

public void range\_search(long n, SWIGTYPE\_p\_float x, float radius, RangeSearchResult result) {

swigfaissJNI.IndexIVFFlatDedup\_range\_search(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x), radius, RangeSearchResult.getCPtr(result), result);

}

public void update\_vectors(int nv, LongVector idx, SWIGTYPE\_p\_float v) {

swigfaissJNI.IndexIVFFlatDedup\_update\_vectors(swigCPtr, this, nv, SWIGTYPE\_p\_long\_long.getCPtr(idx.data()), idx, SWIGTYPE\_p\_float.getCPtr(v));

}

public void reconstruct\_from\_offset(long list\_no, long offset, SWIGTYPE\_p\_float recons) {

swigfaissJNI.IndexIVFFlatDedup\_reconstruct\_from\_offset(swigCPtr, this, list\_no, offset, SWIGTYPE\_p\_float.getCPtr(recons));

}

public IndexIVFFlatDedup() {

this(swigfaissJNI.new\_IndexIVFFlatDedup\_\_SWIG\_2(), true);

}

}