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

\* 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 Index2Layer extends IndexFlatCodes {

private transient long swigCPtr;

protected Index2Layer(long cPtr, boolean cMemoryOwn) {

super(swigfaissJNI.Index2Layer\_SWIGUpcast(cPtr), cMemoryOwn);

swigCPtr = cPtr;

}

protected static long getCPtr(Index2Layer 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\_Index2Layer(swigCPtr);

}

swigCPtr = 0;

}

super.delete();

}

public void setQ1(Level1Quantizer value) {

swigfaissJNI.Index2Layer\_q1\_set(swigCPtr, this, Level1Quantizer.getCPtr(value), value);

}

public Level1Quantizer getQ1() {

long cPtr = swigfaissJNI.Index2Layer\_q1\_get(swigCPtr, this);

return (cPtr == 0) ? null : new Level1Quantizer(cPtr, false);

}

public void setPq(ProductQuantizer value) {

swigfaissJNI.Index2Layer\_pq\_set(swigCPtr, this, ProductQuantizer.getCPtr(value), value);

}

public ProductQuantizer getPq() {

long cPtr = swigfaissJNI.Index2Layer\_pq\_get(swigCPtr, this);

return (cPtr == 0) ? null : new ProductQuantizer(cPtr, false);

}

public void setCode\_size\_1(long value) {

swigfaissJNI.Index2Layer\_code\_size\_1\_set(swigCPtr, this, value);

}

public long getCode\_size\_1() {

return swigfaissJNI.Index2Layer\_code\_size\_1\_get(swigCPtr, this);

}

public void setCode\_size\_2(long value) {

swigfaissJNI.Index2Layer\_code\_size\_2\_set(swigCPtr, this, value);

}

public long getCode\_size\_2() {

return swigfaissJNI.Index2Layer\_code\_size\_2\_get(swigCPtr, this);

}

public Index2Layer(Index quantizer, long nlist, int M, int nbit, MetricType metric) {

this(swigfaissJNI.new\_Index2Layer\_\_SWIG\_0(Index.getCPtr(quantizer), quantizer, nlist, M, nbit, metric.swigValue()), true);

}

public Index2Layer(Index quantizer, long nlist, int M, int nbit) {

this(swigfaissJNI.new\_Index2Layer\_\_SWIG\_1(Index.getCPtr(quantizer), quantizer, nlist, M, nbit), true);

}

public Index2Layer(Index quantizer, long nlist, int M) {

this(swigfaissJNI.new\_Index2Layer\_\_SWIG\_2(Index.getCPtr(quantizer), quantizer, nlist, M), true);

}

public Index2Layer() {

this(swigfaissJNI.new\_Index2Layer\_\_SWIG\_3(), true);

}

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

swigfaissJNI.Index2Layer\_train(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x));

}

public void search(long n, SWIGTYPE\_p\_float x, long k, SWIGTYPE\_p\_float distances, LongVector labels) {

swigfaissJNI.Index2Layer\_search(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x), k, SWIGTYPE\_p\_float.getCPtr(distances), SWIGTYPE\_p\_long\_long.getCPtr(labels.data()), labels);

}

public DistanceComputer get\_distance\_computer() {

long cPtr = swigfaissJNI.Index2Layer\_get\_distance\_computer(swigCPtr, this);

return (cPtr == 0) ? null : new DistanceComputer(cPtr, false);

}

public void transfer\_to\_IVFPQ(IndexIVFPQ other) {

swigfaissJNI.Index2Layer\_transfer\_to\_IVFPQ(swigCPtr, this, IndexIVFPQ.getCPtr(other), other);

}

public void sa\_encode(long n, SWIGTYPE\_p\_float x, SWIGTYPE\_p\_unsigned\_char bytes) {

swigfaissJNI.Index2Layer\_sa\_encode(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x), SWIGTYPE\_p\_unsigned\_char.getCPtr(bytes));

}

public void sa\_decode(long n, SWIGTYPE\_p\_unsigned\_char bytes, SWIGTYPE\_p\_float x) {

swigfaissJNI.Index2Layer\_sa\_decode(swigCPtr, this, n, SWIGTYPE\_p\_unsigned\_char.getCPtr(bytes), SWIGTYPE\_p\_float.getCPtr(x));

}

}