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

\* 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 PolysemousTraining extends SimulatedAnnealingParameters {

private transient long swigCPtr;

protected PolysemousTraining(long cPtr, boolean cMemoryOwn) {

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

swigCPtr = cPtr;

}

protected static long getCPtr(PolysemousTraining 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\_PolysemousTraining(swigCPtr);

}

swigCPtr = 0;

}

super.delete();

}

public void setOptimization\_type(PolysemousTraining.Optimization\_type\_t value) {

swigfaissJNI.PolysemousTraining\_optimization\_type\_set(swigCPtr, this, value.swigValue());

}

public PolysemousTraining.Optimization\_type\_t getOptimization\_type() {

return PolysemousTraining.Optimization\_type\_t.swigToEnum(swigfaissJNI.PolysemousTraining\_optimization\_type\_get(swigCPtr, this));

}

public void setNtrain\_permutation(int value) {

swigfaissJNI.PolysemousTraining\_ntrain\_permutation\_set(swigCPtr, this, value);

}

public int getNtrain\_permutation() {

return swigfaissJNI.PolysemousTraining\_ntrain\_permutation\_get(swigCPtr, this);

}

public void setDis\_weight\_factor(double value) {

swigfaissJNI.PolysemousTraining\_dis\_weight\_factor\_set(swigCPtr, this, value);

}

public double getDis\_weight\_factor() {

return swigfaissJNI.PolysemousTraining\_dis\_weight\_factor\_get(swigCPtr, this);

}

public void setMax\_memory(long value) {

swigfaissJNI.PolysemousTraining\_max\_memory\_set(swigCPtr, this, value);

}

public long getMax\_memory() {

return swigfaissJNI.PolysemousTraining\_max\_memory\_get(swigCPtr, this);

}

public void setLog\_pattern(String value) {

swigfaissJNI.PolysemousTraining\_log\_pattern\_set(swigCPtr, this, value);

}

public String getLog\_pattern() {

return swigfaissJNI.PolysemousTraining\_log\_pattern\_get(swigCPtr, this);

}

public PolysemousTraining() {

this(swigfaissJNI.new\_PolysemousTraining(), true);

}

public void optimize\_pq\_for\_hamming(ProductQuantizer pq, long n, SWIGTYPE\_p\_float x) {

swigfaissJNI.PolysemousTraining\_optimize\_pq\_for\_hamming(swigCPtr, this, ProductQuantizer.getCPtr(pq), pq, n, SWIGTYPE\_p\_float.getCPtr(x));

}

public void optimize\_ranking(ProductQuantizer pq, long n, SWIGTYPE\_p\_float x) {

swigfaissJNI.PolysemousTraining\_optimize\_ranking(swigCPtr, this, ProductQuantizer.getCPtr(pq), pq, n, SWIGTYPE\_p\_float.getCPtr(x));

}

public void optimize\_reproduce\_distances(ProductQuantizer pq) {

swigfaissJNI.PolysemousTraining\_optimize\_reproduce\_distances(swigCPtr, this, ProductQuantizer.getCPtr(pq), pq);

}

public long memory\_usage\_per\_thread(ProductQuantizer pq) {

return swigfaissJNI.PolysemousTraining\_memory\_usage\_per\_thread(swigCPtr, this, ProductQuantizer.getCPtr(pq), pq);

}

public final static class Optimization\_type\_t {

public final static PolysemousTraining.Optimization\_type\_t OT\_None = new PolysemousTraining.Optimization\_type\_t("OT\_None");

public final static PolysemousTraining.Optimization\_type\_t OT\_ReproduceDistances\_affine = new PolysemousTraining.Optimization\_type\_t("OT\_ReproduceDistances\_affine");

public final static PolysemousTraining.Optimization\_type\_t OT\_Ranking\_weighted\_diff = new PolysemousTraining.Optimization\_type\_t("OT\_Ranking\_weighted\_diff");

public final int swigValue() {

return swigValue;

}

public String toString() {

return swigName;

}

public static Optimization\_type\_t swigToEnum(int swigValue) {

if (swigValue < swigValues.length && swigValue >= 0 && swigValues[swigValue].swigValue == swigValue)

return swigValues[swigValue];

for (int i = 0; i < swigValues.length; i++)

if (swigValues[i].swigValue == swigValue)

return swigValues[i];

throw new IllegalArgumentException("No enum " + Optimization\_type\_t.class + " with value " + swigValue);

}

private Optimization\_type\_t(String swigName) {

this.swigName = swigName;

this.swigValue = swigNext++;

}

private Optimization\_type\_t(String swigName, int swigValue) {

this.swigName = swigName;

this.swigValue = swigValue;

swigNext = swigValue+1;

}

private Optimization\_type\_t(String swigName, Optimization\_type\_t swigEnum) {

this.swigName = swigName;

this.swigValue = swigEnum.swigValue;

swigNext = this.swigValue+1;

}

private static Optimization\_type\_t[] swigValues = { OT\_None, OT\_ReproduceDistances\_affine, OT\_Ranking\_weighted\_diff };

private static int swigNext = 0;

private final int swigValue;

private final String swigName;

}

}