syntax = "proto3";

package tensorflow;

option cc\_enable\_arenas = true;

option java\_outer\_classname = "TypesProtos";

option java\_multiple\_files = true;

option java\_package = "org.tensorflow.framework";

option go\_package = "github.com/tensorflow/tensorflow/tensorflow/go/core/framework/types\_go\_proto";

// (== suppress\_warning documentation-presence ==)

// LINT.IfChange

enum DataType {

// Not a legal value for DataType. Used to indicate a DataType field

// has not been set.

DT\_INVALID = 0;

// Data types that all computation devices are expected to be

// capable to support.

DT\_FLOAT = 1;

DT\_DOUBLE = 2;

DT\_INT32 = 3;

DT\_UINT8 = 4;

DT\_INT16 = 5;

DT\_INT8 = 6;

DT\_STRING = 7;

DT\_COMPLEX64 = 8; // Single-precision complex

DT\_INT64 = 9;

DT\_BOOL = 10;

DT\_QINT8 = 11; // Quantized int8

DT\_QUINT8 = 12; // Quantized uint8

DT\_QINT32 = 13; // Quantized int32

DT\_BFLOAT16 = 14; // Float32 truncated to 16 bits. Only for cast ops.

DT\_QINT16 = 15; // Quantized int16

DT\_QUINT16 = 16; // Quantized uint16

DT\_UINT16 = 17;

DT\_COMPLEX128 = 18; // Double-precision complex

DT\_HALF = 19;

DT\_RESOURCE = 20;

DT\_VARIANT = 21; // Arbitrary C++ data types

DT\_UINT32 = 22;

DT\_UINT64 = 23;

// Do not use! These are only for parameters. Every enum above

// should have a corresponding value below (verified by types\_test).

DT\_FLOAT\_REF = 101;

DT\_DOUBLE\_REF = 102;

DT\_INT32\_REF = 103;

DT\_UINT8\_REF = 104;

DT\_INT16\_REF = 105;

DT\_INT8\_REF = 106;

DT\_STRING\_REF = 107;

DT\_COMPLEX64\_REF = 108;

DT\_INT64\_REF = 109;

DT\_BOOL\_REF = 110;

DT\_QINT8\_REF = 111;

DT\_QUINT8\_REF = 112;

DT\_QINT32\_REF = 113;

DT\_BFLOAT16\_REF = 114;

DT\_QINT16\_REF = 115;

DT\_QUINT16\_REF = 116;

DT\_UINT16\_REF = 117;

DT\_COMPLEX128\_REF = 118;

DT\_HALF\_REF = 119;

DT\_RESOURCE\_REF = 120;

DT\_VARIANT\_REF = 121;

DT\_UINT32\_REF = 122;

DT\_UINT64\_REF = 123;

}

// LINT.ThenChange(

// https://www.tensorflow.org/code/tensorflow/c/tf\_datatype.h,

// https://www.tensorflow.org/code/tensorflow/go/tensor.go,

// https://www.tensorflow.org/code/tensorflow/core/framework/tensor.cc,

// https://www.tensorflow.org/code/tensorflow/core/framework/types.h,

// https://www.tensorflow.org/code/tensorflow/core/framework/types.cc,

// https://www.tensorflow.org/code/tensorflow/python/framework/dtypes.py,

// https://www.tensorflow.org/code/tensorflow/python/framework/function.py)