syntax = "proto3";

package tensorflow;

option cc\_enable\_arenas = true;

option java\_outer\_classname = "DebugProtos";

option java\_multiple\_files = true;

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

option go\_package = "github.com/tensorflow/tensorflow/tensorflow/go/core/protobuf/for\_core\_protos\_go\_proto";

// Option for watching a node in TensorFlow Debugger (tfdbg).

message DebugTensorWatch {

// Name of the node to watch.

// Use "\*" for wildcard. But note: currently, regex is not supported in

// general.

string node\_name = 1;

// Output slot to watch.

// The semantics of output\_slot == -1 is that all outputs of the node

// will be watched (i.e., a wildcard).

// Other negative values of output\_slot are invalid and will lead to

// errors currently.

int32 output\_slot = 2;

// Name(s) of the debugging op(s).

// One or more than one probes on a tensor.

// e.g., {"DebugIdentity", "DebugNanCount"}

repeated string debug\_ops = 3;

// URL(s) for debug targets(s).

//

// Supported URL formats are:

// - file:///foo/tfdbg\_dump: Writes out Event content to file

// /foo/tfdbg\_dump. Assumes all directories can be created if they don't

// already exist.

// - grpc://localhost:11011: Sends an RPC request to an EventListener

// service running at localhost:11011 with the event.

// - memcbk:///event\_key: Routes tensors to clients using the

// callback registered with the DebugCallbackRegistry for event\_key.

//

// Each debug op listed in debug\_ops will publish its output tensor (debug

// signal) to all URLs in debug\_urls.

//

// N.B. Session::Run() supports concurrent invocations of the same inputs

// (feed keys), outputs and target nodes. If such concurrent invocations

// are to be debugged, the callers of Session::Run() must use distinct

// debug\_urls to make sure that the streamed or dumped events do not overlap

// among the invocations.

// TODO(cais): More visible documentation of this in g3docs.

repeated string debug\_urls = 4;

// Do not error out if debug op creation fails (e.g., due to dtype

// incompatibility). Instead, just log the failure.

bool tolerate\_debug\_op\_creation\_failures = 5;

}

// Options for initializing DebuggerState in TensorFlow Debugger (tfdbg).

message DebugOptions {

// Debugging options

repeated DebugTensorWatch debug\_tensor\_watch\_opts = 4;

// Caller-specified global step count.

// Note that this is distinct from the session run count and the executor

// step count.

int64 global\_step = 10;

// Whether the total disk usage of tfdbg is to be reset to zero

// in this Session.run call. This is used by wrappers and hooks

// such as the local CLI ones to indicate that the dumped tensors

// are cleaned up from the disk after each Session.run.

bool reset\_disk\_byte\_usage = 11;

}

message DebuggedSourceFile {

// The host name on which a source code file is located.

string host = 1;

// Path to the source code file.

string file\_path = 2;

// The timestamp at which the source code file is last modified.

int64 last\_modified = 3;

// Byte size of the file.

int64 bytes = 4;

// Line-by-line content of the source code file.

repeated string lines = 5;

}

message DebuggedSourceFiles {

// A collection of source code files.

repeated DebuggedSourceFile source\_files = 1;

}