/\* Copyright 2016 The TensorFlow Authors. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

==============================================================================\*/

syntax = "proto3";

package tensorflow;

option cc\_enable\_arenas = true;

option java\_outer\_classname = "ClusterProtos";

option java\_multiple\_files = true;

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

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

// This file contains protos to be used when defining a TensorFlow

// cluster.

//

// EXAMPLES

// --------

//

// 1. A single-process cluster, containing "/job:local/task:0".

//

// Cluster:

// job { name: 'local' tasks { key: 0 value: 'localhost:2222' } }

//

// Server:

// cluster { $CLUSTER } job\_name: 'local' task\_index: 0

//

// 2. A two-process cluster, containing "/job:local/task:{0,1}".

//

// Cluster:

// job { name: 'local' tasks { key: 0 value: 'localhost:2222' }

// tasks { key: 1 value: 'localhost:2223' } }

//

// Servers:

// cluster { $CLUSTER } job\_name: 'local' task\_index: 0

// cluster { $CLUSTER } job\_name: 'local' task\_index: 1

//

// 3. A two-job cluster, containing "/job:worker/task:{0,1,2}" and

// "/job:ps/task:{0,1}".

//

// Cluster:

// job { name: 'worker' tasks { key: 0 value: 'worker1:2222' }

// tasks { key: 1 value: 'worker2:2222' }

// tasks { key: 2 value: 'worker3:2222' } }

// job { name: 'ps' tasks { key: 0 value: 'ps0:2222' }

// tasks { key: 1 value: 'ps1:2222' } }

//

// Servers:

// cluster { $CLUSTER } job\_name: 'worker' task\_index: 0

// cluster { $CLUSTER } job\_name: 'worker' task\_index: 1

// cluster { $CLUSTER } job\_name: 'worker' task\_index: 2

// cluster { $CLUSTER } job\_name: 'ps' task\_index: 0

// cluster { $CLUSTER } job\_name: 'ps' task\_index: 1

// Defines a single job in a TensorFlow cluster.

message JobDef {

// The name of this job.

string name = 1;

// Mapping from task ID to "hostname:port" string.

//

// If the `name` field contains "worker", and the `tasks` map contains a

// mapping from 7 to "example.org:2222", then the device prefix

// "/job:worker/task:7" will be assigned to "example.org:2222".

map<int32, string> tasks = 2;

}

// Defines a TensorFlow cluster as a set of jobs.

message ClusterDef {

// The jobs that comprise the cluster.

repeated JobDef job = 1;

}