syntax = "proto3";

package tensorflow;

import "tensorflow/core/framework/attr\_value.proto";

option cc\_enable\_arenas = true;

option java\_outer\_classname = "KernelDefProtos";

option java\_multiple\_files = true;

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

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

message KernelDef {

// Must match the name of an Op.

string op = 1;

// Type of device this kernel runs on.

string device\_type = 2;

message AttrConstraint {

// Name of an attr from the Op.

string name = 1;

// A list of values that this kernel supports for this attr.

// Like OpDef.AttrDef.allowed\_values, except for kernels instead of Ops.

AttrValue allowed\_values = 2;

}

repeated AttrConstraint constraint = 3;

// Names of the Op's input\_/output\_args that reside in host memory

// instead of device memory.

repeated string host\_memory\_arg = 4;

// This allows experimental kernels to be registered for an op that

// won't be used unless the user specifies a "\_kernel" attr with

// value matching this.

string label = 5;

// Prioritization of kernel amongst different devices. By default we assume

// priority is 0. The higher the priority the better. By default (i.e. if

// this is not set), we prefer GPU kernels over CPU.

int32 priority = 6;

}

// A collection of KernelDefs

message KernelList {

repeated KernelDef kernel = 1;

}