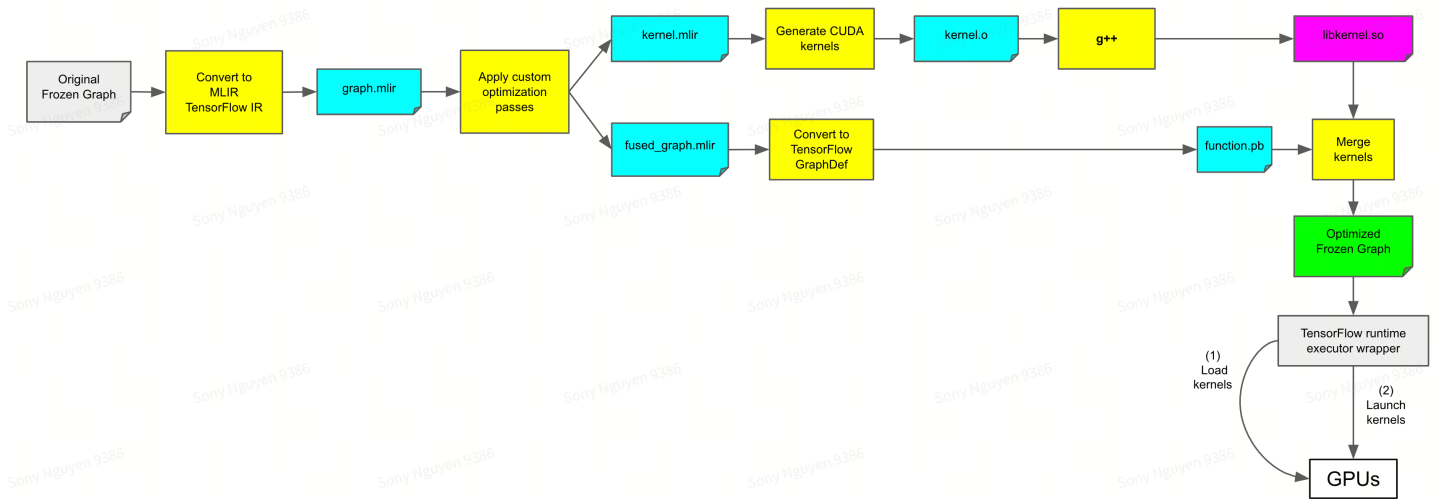


ML Compiler Workflow



Dependencies

1. MLIR: <https://mlir.llvm.org/>
2. TensorFlow <https://github.com/tensorflow/tensorflow/tree/master/tensorflow/compiler>

Merge kernels

File **libkernel.so** is encoded as a byte string and then embedded as an attribute of a **Const** node into the final frozen graph.

Load kernels

The TensorFlow runtime executor wrapper creates a **CustomSession** object which extracts **libkernel.so** from the optimized frozen graph, and then loads kernels into all CUDA contexts using CUDA Driver API **cuModuleLoadData**