"""

Functions to query devices being used by tensorflow

"""

from tensorflow.python.client import device\_lib

def get\_device\_map():

"""Returns the map of device name to device type"""

local\_device\_protos = device\_lib.list\_local\_devices()

return {x.name: x.device\_type for x in local\_device\_protos}

def get\_gpu\_list():

"""Returns the list of GPUs available"""

device\_map = get\_device\_map()

return [name for name in device\_map if device\_map[name] == 'GPU']

def get\_gpu\_count():

"""Returns the count of GPUs available"""

return len(get\_gpu\_list())

def is\_gpu\_available():

"""Returns if GPUs are available"""

return get\_gpu\_count() > 0