tf.test.is_gpu_available

View source on GitHub (https://github.com/tensorflow/tensorflow/blob/v2.16.1/tensorflow/python/framework/test_util.py#L2058-L2116)

Returns whether TensorFlow can access a GPU. (deprecated)

View aliases

Compat aliases for migration

See Migration guide (https://www.tensorflow.org/guide/migrate) for more details.

`tf.compat.v1.test.is_gpu_available` (https://www.tensorflow.org/api_docs/python/tf/test/is_gpu_available)

```
tf.test.is_gpu_available(
    cuda_only: bool = False,
    min_cuda_compute_capability: Optional[tuple[int, int]] = None
) -> bool
```

Deprecated: THIS FUNCTION IS DEPRECATED. It will be removed in a future version. Instructions for updating: Use **`tf.config.list_physical_devices('GPU')`** instead.

Warning: if a non-GPU version of the package is installed, the function would also return False. Use `tf.test.is_built_with_cuda` (https://www.tensorflow.org/api_docs/python/tf/test/is_built_with_cuda) to validate if TensorFlow was build with CUDA support.

For example,

```
>>> gpu_available = tf.test.is_gpu_available()
>>> is_cuda_gpu_available = tf.test.is_gpu_available(cuda_only=True)
>>> is_cuda_gpu_min_3 = tf.test.is_gpu_available(True, (3,0))
```

Args

`cuda_only`	limit the search to CUDA GPUs.
`min_cuda_compute_capability`	a (major,minor) pair that indicates the minimum CUDA compute capability required, or None if no requirement.

Note that the keyword arg name "cuda_only" is misleading (since routine will return true when a GPU device is available irrespective of whether TF was built with CUDA support or ROCm support. However no changes here because

++ Changing the name "cuda_only" to something more generic would break backward compatibility

++ Adding an equivalent "rocm_only" would require the implementation check the build type. This in turn would require doing the same for CUDA and thus potentially break backward compatibility

++ Adding a new "cuda_or_rocm_only" would not break backward compatibility, but would require most (if not all) callers to update the call to use "cuda_or_rocm_only" instead of "cuda_only"

Returns

True if a GPU device of the requested kind is available.