tf.assert_same_float_dtype

Aliases:

- `tf.assert_same_float_dtype`
- `tf.contrib.framework.assert_same_float_dtype`

```
assert_same_float_dtype(
    tensors=None,
    dtype=None
)
```

Defined in `tensorflow/python/ops/check_ops.py`.

See the guide: Framework (contrib)

Validate and return float type based on `tensors` and `dtype`.

For ops such as matrix multiplication, inputs and weights must be of the same float type. This function validates that all `tensors` are the same type, validates that type is `dtype` (if supplied), and returns the type. Type must be a floating point type. If neither `tensors` nor `dtype` is supplied, the function will return `dtypes.float32`.

Args:

- `tensors`: Tensors of input values. Can include `None` elements, which will be ignored.
- `dtype`: Expected type.

Returns:

Validated type.

Raises:

- `ValueError`: if neither `tensors` nor `dtype` is supplied, or result is not float, or the common type of the inputs is not a floating point type.

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