tfdbg.watch_graph

```
watch_graph(
    run_options,
    graph,
    debug_ops='DebugIdentity',
    debug_urls=None,
    node_name_regex_whitelist=None,
    op_type_regex_whitelist=None,
    tensor_dtype_regex_whitelist=None,
    tolerate_debug_op_creation_failures=False,
    global_step=-1
)
```

Defined in `tensorflow/python/debug/lib/debug_utils.py`.

See the guide: TensorFlow Debugger > Functions for adding debug watches

Add debug watches to `RunOptions` for a TensorFlow graph.

To watch all `Tensor`s on the graph, let both `node_name_regex_whitelist` and `op_type_regex_whitelist` be the default (`None`).

N.B.: 1. Under certain circumstances, the `Tensor` may not get actually watched (e.g., if the node of the `Tensor` is constant-folded during runtime). 2. For debugging purposes, the `parallel_iteration` attribute of all `tf.while_loop`s in the graph are set to 1 to prevent any node from being executed multiple times concurrently. This change does not affect subsequent non-debugged runs of the same `tf.while_loop`s.

Args:

- `run_options`: An instance of `config_pb2.RunOptions` to be modified.
- `graph`: An instance of `ops.Graph`.
- `debug_ops`: (`str` or `list` of `str`) name(s) of the debug op(s) to use.
- `debug_urls`: URLs to send debug values to. Can be a list of strings, a single string, or None. The case of a single string is equivalent to a list consisting of a single string, e.g., `file:///tmp/tfdbg_dump_1`, `grpc://localhost:12345`. For debug op types with customizable attributes, each debug op name string can optionally contain a list of attribute names, in the syntax of: debug_op_name(attr_name_1=attr_value_1;attr_name_2=attr_value_2;...)
- `node_name_regex_whitelist`: Regular-expression whitelist for node_name, e.g., `"(weight_[0-9]+|bias_.*)"`
- `op_type_regex_whitelist`: Regular-expression whitelist for the op type of nodes, e.g., `"(Variable|Add)"`. If both `node_name_regex_whitelist` and `op_type_regex_whitelist` are set, the two filtering operations will occur in a logical `AND` relation. In other words, a node will be included if and only if it hits both whitelists.
- `tensor_dtype_regex_whitelist`: Regular-expression whitelist for Tensor data type, e.g., `"^int.*"`. This whitelist operates in logical `AND` relations to the two whitelists above.
- `tolerate_debug_op_creation_failures`: (`bool`) whether debug op creation failures (e.g., due to dtype incompatibility) are to be tolerated by not throwing exceptions.
- `global_step`: (`int`) Optional global_step count for this debug tensor watch.

Last updated November 2, 2017.