/tensorflow/python/distribute:collective all reduce strategy)" //tensorflow:tf\_python\_api\_gen\_v2 //tensorflow:create\_tensorflow.python\_api\_tf\_python\_api\_gen\_v2 //tensorflow/python:no\_contrib //tensorflow/python/distribute:combinations //tensorflow/python/distribute:collective\_all\_reduce\_strategy

py\_library(

name = "no contrib". srcs = ["\_\_init\_\_.py"],

srcs version = "PY3".

```
def gen_api_init_files(
                                                                                   output_files = TENSORFLOW_API_INIT_FILES,
                                                                                    root_init_template = None,
                                                                                   srcs = \Pi,
                                                                                    api name = "tensorflow",
                                                                                    api_version = 2,
                                                                                   compat_api_versions = [],
                                                                                    compat_init_templates = [],
                                                                                    packages = [
                                                                                      "tensorflow.python",
                                                                                      "tensorflow.lite.python.analyzer",
                                                                                      "tensorflow.lite.python.lite",
                                                                                      "tensorflow.lite.python.authoring.authoring",
                                                                                      "tensorflow.python.modules_with_exports",
                                                                                    package_deps = [
                                                                                      "//tensorflow/python:no_contrib",
                                                                                      "//tensorflow/python:modules_with_exports",
                                                                                    output_package = "tensorflow",
                                                                                   output_dir = "",
                                                                                   root_file_name = "__init__.py"):
                                                                                 """Creates API directory structure and __init__.py files.
                                                                                 Creates a genrule that generates a directory structure with __init__.py
                                                                                 files that import all exported modules (i.e. modules with tf export
                                                                                 decorators).
                                                                                   name: name of genrule to create.
                                                                                  output_files: List of __init__.py files that should be generated.
                                                                                   This list should include file name for every module exported using
                                                                                   tf_export. For e.g. if an op is decorated with
                                                                                   @tf_export('module1.module2', 'module3'). Then, output_files should
                                                                                    include module1/module2/__init__.py and module3/__init__.py.
                                                                                  root_init_template: Python init file that should be used as template for
                                                                                   root __init__.py file. "# API IMPORTS PLACEHOLDER" comment inside this
                                                                                   template will be replaced with root imports collected by this genrule.
                                                                                  srcs: genrule sources. If passing root_init_template, the template file
                                                                                    must be included in sources.
                                                                                  api_name: Name of the project that you want to generate API files for
                                                                                   (e.g. "tensorflow" or "estimator").
                                                                                  api_version: TensorFlow API version to generate. Must be either 1 or 2.
                                                                                  compat_api_versions: Older TensorFlow API versions to generate under
                                                                                   compat/ directory.
                                                                                  compat_init_templates: Python init file that should be used as template
                                                                                   for top level __init__.py files under compat/vN directories.
                                                                                    "# API IMPORTS PLACEHOLDER" comment inside this
                                                                                    template will be replaced with root imports collected by this genrule.
                                                                                  packages: Python packages containing the @tf_export decorators you want to
                                                                                    process
                                                                                  package_deps: Python library target containing your packages.
                                                                                  output_package: Package where generated API will be added to.
                                                                                  output_dir: Subdirectory to output API to.
                                                                                    If non-empty, must end with '/'.
                                                                                  root_file_name: Name of the root file with all the root imports.
                                                                                 root init template flag = ""
                                                                                 if root_init_template
"//tensorflow/python/keras/api:keras_python_api_gen_compat_v1",
                                                                                   root init template flag = "--root init template=" + root init template
                                                                                 primary_package = packages[0]
                                                                                 api_gen_binary_target = ("create_" + primary_package + "_api_%s") % name
                                                                                 native.py_binary(
                                                                                   name = api_gen_binary_target,
                                                                                    srcs = ["//tensorflow/python/tools/api/generator:create_python_api.py"],
                                                                                    main = "//tensorflow/python/tools/api/generator:create_python_api.py",
                                                                                    python version = "PY3",
                                                                                    srcs_version = "PY3",
                                                                                    visibility = ["//visibility:public"]
                                                                                    deps = package_deps + [
                                                                                      "//tensorflow/python:util"
                                                                                      "//tensorflow/python/tools/api/generator:doc_srcs",
                                                                                 # Replace name of root file with root file name.
                                                                                 output_files = [
                                                                                   root_file_name if f == "__init__.py" else f
                                                                                   for f in output_files
                                                                                 all_output_files = ["%s%s" % (output_dir, f) for f in output_files]
                                                                                 compat_api_version_flags = ""
                                                                                 for compat api version in compat api versions:
                                                                                   compat_api_version_flags += " --compat_apiversion=%d" % compat_api_version
                                                                                 compat_init_template_flags = ""
                                                                                 for compat_init_template in compat_init_templates:
                                                                                   compat_init_template_flags += (
                                                                                      " --compat_init_template=$(location %s)" % compat_init_template
                                                                                 # copybara:uncomment_begin(configurable API loading)
                                                                                 # native.vardef("TF_API_INIT_LOADING", "default")
                                                                                 # loading_flag = " --loading=$(TF_API_INIT_LOADING)"
                                                                                 # copybara:uncomment_end_and_comment_begin
                                                                                 loading_flag = " --loading=default"
                                                                                 # copybara:comment_end
                                                                                 native.genrule(
                                                                                    name = name.
                                                                                    outs = all_output_files,
                                                                                    cmd = (
                                                                                      "$(location: " + api_gen_binary_target + ") " +
                                                                                     root_init_template_flag + " --apidir=$(@D)" + output_dir +
                                                                                     " --apiname=" + api_name + " --apiversion=" + str(api_version) +
                                                                                     compat_api_version_flags + " " + compat_init_template_flags +
                                                                                      loading_flag + " --packages=" + ",".join(packages) +
                                                                                      " --output_package=" + output_package +
                                                                                      " --use_relative_imports=True $(OUTS)"
                                                                                    srcs = srcs,
                                                                                    tools = [":" + api_gen_binary_target],
                                                                                    visibility = [
                                                                                      "//tensorflow:__pkg__",
```

"//tensorflow/tools/api/tests:\_\_pkg\_\_\_",

py\_library(

srcs = select({

":root\_init\_gen"

srcs\_version = "PY3".

# copybara:comment\_end

visibility = ["//visibility:public"],

deps = ["//tensorflow/python:no\_contrib"],

name = "tensorflow\_py\_no\_contrib",

"api\_version\_2": [":tf\_python\_api\_gen\_v2"],

"//conditions:default": [":tf\_python\_api\_gen\_v1"],

"//tensorflow/python/keras/api:keras\_python\_api\_gen",

"//tensorflow/python/keras/api:keras\_python\_api\_gen\_compat\_v2",

(hm) wxf@seir19:~/tf2/tensorflow\$ grep -wnr "create\_tensorflow" # 找不到

(hm) wxf@seir19:~/tf2/tensorflow\$ grep -wnr "create\_" # 找到了

experiments/test\_new\_python\_file/README.md:62://tensorflow:create\_tensorflow.python\_api\_tf\_python\_api\_gen\_v2 experiments/test\_new\_python\_file/README.md:159://tensorflow:create\_tensorflow.python\_api\_tf\_python\_api\_gen\_v2

tensorflow/python/tools/api/generator/api\_gen.bzl:99: api\_gen\_binary\_target = ("create\_" + primary\_package + "\_api\_%s") % name

```
visibility = [
  "//tensorflow:__pkg__",
  "//tensorflow/python/estimator:__subpackages__",
  "//tensorflow/python/keras:__subpackages__",
  "//tensorflow/python/tools:__pkg__"
  "//tensorflow/python/tools/api/generator:__pkg___",
   "//tensorflow/tools/api/tests:__pkg__"
  "//tensorflow/tools/compatibility/update:__pkg__",
  "//third_party/py/keras:__subpackages__'
   "//third_party/py/tensorflow_core:__subpackages__",
deps = [
   ":_pywrap_py_exception_registry",
   ": pywrap quantize training".
   ": pywrap utils",
   ":array_ops",
   ":audio_ops_gen"
   ":bincount_ops",
   ":bitwise_ops",
   ":boosted trees ops"
   ":check_ops",
   ":client_testlib"
   ":clustering_ops"
   ":collective_ops"
   ":composite tensor ops".
   ":cond_v2",
   ":confusion matrix"
   ":control_flow_ops",
   ":cudnn_rnn_ops_gen",
   ":distributed framework test lib",
  ":functional_ops",
   ":gradient_checker",
   ":gradient checker v2"
   ":histogram_ops"
   ":image_ops",
   ":initializers_ns",
   ":io_ops",
   ":keras_lib"
   ":lib",
   ":list_ops",
  ":manip_ops"
   ":map_fn",
   ":map_ops"
   ":math_ops"
   ":metrics",
   ":nccl_ops"
   ":nn",
   ":ops",
   ":platform"
   ":proto_ops",
   ":pywrap_tensorflow",
   ":pywrap_tfe",
   ":rnn_ops_gen",
   ":script_ops",
   ":sendrecv_ops_gen",
   ":session_ops",
   ":sets",
   ":sparse_ops"
   ":standard_ops"
   ":state_ops"
   ":string_ops",
   ":tensor_array_ops",
   ":training"
    ":weights_broadcast_ops",
   ":while_v2",
                                                                                                           py_library(
  "//tensorflow/core:protos_all_py",
                                                                                                              name = "combinations",
   "//tensorflow/lite/python:analyzer",
                                                                                                              srcs = ["combinations.py"],
  "//tensorflow/lite/python:lite"
                                                                                                              srcs version = "PY3",
  "//tensorflow/lite/python/authoring"
                                                                                                              visibility =
   "//tensorflow/python/client",
                                                                                                                "//tensorflow:internal",
   "//tensorflow/python/client:_pywrap_events_writer",
                                                                                                                "//tensorflow_models:__subpackages__",
   "//tensorflow/python/client:pywrap_tf_session",
                                                                                                                "//third_party/py/keras:__subpackages__"
  "//tensorflow/python/compat";
   "//tensorflow/python/compat:v2_compat"
                                                                                                              deps =
   "//tensorflow/python/compiler".
                                                                                                                ":collective_all_reduce_strategy",
   "//tensorflow/python/data",
                                                                                                                ":distribute_lib",
   "//tensorflow/python/debug:debug_py"
                                                                                                                ":multi_process_runner",
   "//tensorflow/python/distribute",
                                                                                                                ":multi_worker_test_base",
   "//tensorflow/python/distribute:combinations", # For tf.__internal__ API.
                                                                                                                "//tensorflow/python:framework_combinations"
   "//tensorflow/python/distribute:distribute_config",
                                                                                                                "//tensorflow/python:framework_ops",
   "//tensorflow/python/distribute:estimator_training",
                                                                                                                "//tensorflow/python:framework_test_combinations_lib",
   "//tensorflow/python/distribute:strategy_combinations", # For tf.__internal__,
                                                                                                                "//tensorflow/python:framework_test_lib",
   "//tensorflow/python/distribute/experimental/rpc:rpc_ops",
                                                                                                                "//tensorflow/python:platform"
   "//tensorflow/python/dlpack",
                                                                                                                "//tensorflow/python:session",
   "//tensorflow/python/eager:def_function",
                                                                                                                "//tensorflow/python:tf_decorator",
   "//tensorflow/python/eager:monitoring"
                                                                                                                "//tensorflow/python/eager:context",
   "//tensorflow/python/eager:profiler"
                                                                                                                "//tensorflow/python/eager:def_function",
   "//tensorflow/python/eager:profiler_client";
                                                                                                                "//tensorflow/python/util:tf_export",
  "//tensorflow/python/eager:remote",
                                                                                                                "@six archive//:six",
   "//tensorflow/python/framework",
   "//tensorflow/python/framework:_pywrap_python_op_gen",
   "//tensorflow/python/framework:combinations",
   "//tensorflow/python/framework:config",
   "//tensorflow/python/framework:errors"
   "//tensorflow/python/framework:extension_type",
   "//tensorflow/python/framework:for_generated_wrappers",
   "//tensorflow/python/framework:graph_util";
   "//tensorflow/python/framework:kernels"
   "//tensorflow/python/framework:subscribe".
   "//tensorflow/python/framework:test_ops", # TODO(b/183988750): Break testing code out into separate rule.
   "//tensorflow/python/grappler:tf_cluster",
   "//tensorflow/python/grappler:tf_item",
   "//tensorflow/python/grappler:tf_optimizer";
                                                                                                     py_library(
   "//tensorflow/python/module"
                                                                                                        name = "collective_all_reduce_strategy",
   "//tensorflow/python/ops/distributions",
                                                                                                        srcs = ["collective_all_reduce_strategy.py"],
   "//tensorflow/python/ops/linalg"
                                                                                                         srcs version = "PY3",
   "//tensorflow/python/ops/linalg/sparse",
                                                                                                        visibility = ["//tensorflow:internal"],
   "//tensorflow/python/ops/losses"
                                                                                                        deps =
   "//tensorflow/python/ops/numpy_ops:numpy",
                                                                                                           ":collective_util"
  "//tensorflow/python/ops/parallel_for",
                                                                                                           ":cross_device_ops",
   "//tensorflow/python/ops/ragged",
                                                                                                           ":cross_device_utils"
   "//tensorflow/python/ops/signal",
                                                                                                           ":device_util"
   "//tensorflow/python/platform:_pywrap_stacktrace_handler",
                                                                                                           ":distribute_lib",
   "//tensorflow/python/profiler",
                                                                                                           ":distribute_utils",
   "//tensorflow/python/profiler:profiler_client",
                                                                                                           ":input_lib",
  "//tensorflow/python/profiler:profiler_v2",
                                                                                                           ":mirrored_strategy"
  "//tensorflow/python/profiler:trace"
                                                                                                           ":multi_worker_util",
   "//tensorflow/python/saved_model",
                                                                                                           ":numpy_dataset",
   "//tensorflow/python/summary",
                                                                                                           ":reduce_util",
   "//tensorflow/python/summary/writer",
                                                                                                           ":values",
   "//tensorflow/python/tools:module_util",
                                                                                                           "//tensorflow/core:protos_all_py",
   "//tensorflow/python/tools/api/generator:create_python_api",
                                                                                                           "//tensorflow/python:array_ops",
  "//tensorflow/python/tpu:tpu_noestimator",
                                                                                                           "//tensorflow/python:collective_ops",
   "//tensorflow/python/training:saver_test_utils",
                                                                                                           "//tensorflow/python:errors",
  "//tensorflow/python/types",
                                                                                                           "//tensorflow/python:framework_ops",
  "//tensorflow/python/util",
                                                                                                           "//tensorflow/python:platform",
   "//tensorflow/python/util:_pywrap_checkpoint_reader",
                                                                                                           "//tensorflow/python:training",
  "//tensorflow/python/util:_pywrap_kernel_registry",
                                                                                                           "//tensorflow/python:util",
  "//tensorflow/python/util:_pywrap_nest",
                                                                                                           "//tensorflow/python/distribute/cluster_resolver:cluster_resolver_lib",
  "//tensorflow/python/util:_pywrap_stat_summarizer",
                                                                                                           "//tensorflow/python/eager:context",
   "//tensorflow/python/util:_pywrap_tfprof",
                                                                                                           "//tensorflow/python/util:tf_export",
   "//tensorflow/python/util:_pywrap_transform_graph",
   "//tensorflow/python/util:_pywrap_util_port",
   "//third_party/py/numpy",
```