export PROJECT\_ID=deep-mapan

gcloud config set project ${PROJECT\_ID}

# gcloud alpha services identity create --service tpu.googleapis.com --project $PROJECT\_ID

gcloud beta services identity create --service tpu.googleapis.com --project $PROJECT\_ID

（返回 service-PROJECT\_NUMBER@cloud-tpu.iam.gserviceaccount.com）

export TPU\_NAME="tputest"

export ZONE=europe-west4-a

# export ZONE=us-central1-a

# gcloud alpha compute tpus versions list --zone=$ZONE

# gcloud compute tpus versions list --zone=$ZONE

gcloud compute tpus tpu-vm create tputest \

--zone=$ZONE \

--accelerator-type=v3-8 \

--version=tpu-vm-tf-2.8.0

gcloud compute tpus tpu-vm ssh tputest --zone=$ZONE

# rm -r deep-mapan/

git clone <https://github.com/Devvvi1/deep-mapan.git>

git clone https://github.com/tensorflow/models.git

# export PYTHONPATH="${PYTHONPATH}:/deep-mapan/models"

cd deep-mapan/models

pip3 install -r official/requirements.txt

cd research

sudo protoc object\_detection/protos/\*.proto --python\_out=.

cp object\_detection/packages/tf2/setup.py .

python3 -m pip install --upgrade pip

sudo python3 -m pip install .

export PYTHONPATH=$(pwd)

export PYTHONPATH="${PYTHONPATH}:/models"

''''''''''''''''''''''''''''''''''''''''''''''''''''' my code '''''''''''''''''''''''''''''''''''''''''''''''''''''

python3 -m official.vision.modeling.decoders.fpn\_test

python3 -m official.vision.modeling.heads.instance\_heads\_test

python3 -m official.projects.deepmac\_maskrcnn.modeling.heads.instance\_heads\_test

python3 -m official.projects.deepmac\_maskrcnn.modeling.maskrcnn\_model\_test

python3 -m official.common.distribute\_utils\_test

python3 -m orbit.standard\_runner\_test

python3 -m orbit.controller\_test

''''''''''''''''''''''''''''''''''''''''''''''''''''' my code '''''''''''''''''''''''''''''''''''''''''''''''''''''

exit

gcloud compute tpus tpu-vm delete tputest \

--zone=$ZONE

gcloud compute tpus execution-groups list --zone=$ZONE

git add .

git commit -m

git push -u origin main

下载checkpoint：

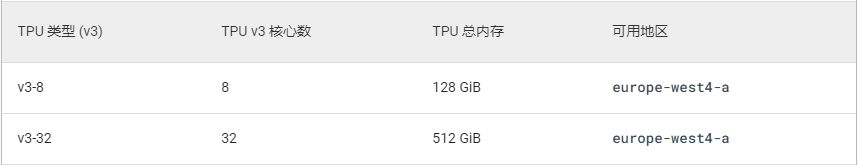
Backbone 模型是 ResNet-50，RetinaNet 从主干的预训练检查点开始

wget https://storage.googleapis.com/cloud-tpu-checkpoints/vision-2.0/resnet50\_imagenet/checkpoint

wget https://storage.googleapis.com/cloud-tpu-checkpoints/vision-2.0/resnet50\_imagenet/ckpt-28080.data-00000-of-00001

wget https://storage.googleapis.com/cloud-tpu-checkpoints/vision-2.0/resnet50\_imagenet/ckpt-28080.index







us-central1-a  
us-central1-b  
us-central1-f

europe-west4-a

sudo python3 -m pip install --use-feature=2020-resolver .

python3 object\_detection/builders/model\_builder\_tf2\_test.py

python3 -m pip install --upgrade pip

export PYTHONPATH="${PYTHONPATH}:/models”