Object Detection TPU Inference Exporter

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† TensorFlow 1.15
```

This package contains SavedModel Exporter for TPU Inference of object detection models.

Usage

This Exporter is intended for users who have trained models with CPUs / GPUs, but would like to use them for inference on TPU without changing their code or re-training their models.

Users are assumed to have:

- PIPELINE_CONFIG: A pipeline_pb2.TrainEvalPipelineConfig config file;
- CHECKPOINT: A model checkpoint trained on any device;

and need to correctly set:

- EXPORT DIR : Path to export SavedModel;
- INPUT PLACEHOLDER: Name of input placeholder in model's signature_def_map;
- INPUT_TYPE: Type of input node, which can be one of 'image_tensor', 'encoded_image_string_tensor', or 'tf_example';
- USE BFLOAT16: Whether to use bfloat16 instead of float32 on TPU.

The model can be exported with:

```
python object_detection/tpu_exporters/export_saved_model_tpu.py \
--pipeline_config_file=<PIPELINE_CONFIG> \
--ckpt_path=<CHECKPOINT> \
--export_dir=<EXPORT_DIR> \
--input_placeholder_name=<INPUT_PLACEHOLDER> \
--input_type=<INPUT_TYPE> \
--use_bfloat16=<USE_BFLOAT16>
```