Occupancy Analytics

# Reference

<https://github.com/NVIDIA-AI-IOT/deepstream-occupancy-analytics>

# Environment Version

## dGPU

Ubuntu : 18.04.5

Python : 3.6.9

GRAPHICS CARD : RTX3090

NVIDIA DRIVER : 455.32.00

CUDA : 11.1.1

cuDNN : 8.0.5.39-1

Pytorch : 1.7.1

## Jetson

JetPack : 4.5.1

CUDA : 10.2

TensorRT : 7.1.3

# Install Java

install latest Java SE 15

<https://www.oracle.com/java/technologies/javase-downloads.html>

<https://www3.ntu.edu.sg/home/ehchua/programming/howto/JDK_Howto.html>

<https://askubuntu.com/questions/534658/undo-update-alternatives>

# DataSet

<https://chtseng.wordpress.com/2019/12/13/crowdhuman-dataset-%E4%BB%8B%E7%B4%B9/>

# Kafka

<https://kafka.apache.org/quickstart>

tar -xzf kafka\_2.13-2.7.0.tgz

cd kafka\_2.13-2.7.0

bin/zookeeper-server-start.sh config/zookeeper.properties

bin/kafka-server-start.sh config/server.properties

bin/kafka-topics.sh --create --topic quickstart-events --bootstrap-server localhost:9092

# Process

## Getting Started

Replace the MSG binaries (x86 or Jetson) in $DEEPSTREAM\_DIR/libs with the ones provided in this repository under bin/. Please note that these are not inter-compatible across platforms.

## Path

cd /opt/nvidia/deepstream/deepstream-5.1/sources/apps/sample\_apps/deepstream-occupancy-analytics

## Build

notice config folder path

make

## Run

./deepstream-test5-analytics -c test5\_config\_file\_src\_infer\_tlt.txt

# Change the detection area

<https://github.com/NVIDIA-AI-IOT/deepstream-occupancy-analytics/issues/7>

# Issue