Configuration Parameters for TMC2v0

# Example of script to generate the results for “longdress”

#!/bin/zsh

mkdir ../enc2

mkdir ../dec2

mkdir ../stats2

mkdir ../enc2/P07S24C04R01

../app/tmc2 --mode 0 --geometryQP 27 --textureQP 43 --uncompressedDataPath ../longdress/longdress\_vox10\_%i.ply --compressedStreamPath ../enc2/P07S24C04R01/P07S24C04R01.bin --startFrameNumber 1051 --groupOfFramesSize 32 --frameCount 300 --videoEncoderPath "../app/TAppEncoder" --colorSpaceConversionPath "../app/HDRConvert" --inverseColorSpaceConversionConfig "../app/yuv420torgb444.cfg" --colorSpaceConversionConfig "../app/rgb444toyuv420.cfg" --geometryConfig "../app/geometryCfp.cfg" --textureConfig "../app/textureCfp.cfg" > ../enc2/P07S24C04R01/P07S24C04R01\_log.txt

mkdir ../dec2/P07S24C04R01

../app/tmc2 --mode 1 --reconstructedDataPath ../dec2/P07S24C04R01/P07S24C04R01\_%i.ply --compressedStreamPath ../enc2/P07S24C04R01/P07S24C04R01.bin --startFrameNumber 1051 --videoDecoderPath "../app/TAppDecoder" --colorSpaceConversionPath "../app/HDRConvert" --inverseColorSpaceConversionConfig "../app/yuv420torgb444.cfg" --colorSpaceConversionConfig "../app/rgb444toyuv420.cfg" > ../dec2/P07S24C04R01/P07S24C04R01\_log.txt

mkdir ../enc2/P07S24C04R02

../app/tmc2 --mode 0 --geometryQP 24 --textureQP 38 --uncompressedDataPath ../longdress/longdress\_vox10\_%i.ply --compressedStreamPath ../enc2/P07S24C04R02/P07S24C04R02.bin --startFrameNumber 1051 --groupOfFramesSize 32 --frameCount 300 --videoEncoderPath "../app/TAppEncoder" --colorSpaceConversionPath "../app/HDRConvert" --inverseColorSpaceConversionConfig "../app/yuv420torgb444.cfg" --colorSpaceConversionConfig "../app/rgb444toyuv420.cfg" --geometryConfig "../app/geometryCfp.cfg" --textureConfig "../app/textureCfp.cfg" > ../enc2/P07S24C04R02/P07S24C04R02\_log.txt

mkdir ../dec2/P07S24C04R02

../app/tmc2 --mode 1 --reconstructedDataPath ../dec2/P07S24C04R02/P07S24C04R02\_%i.ply --compressedStreamPath ../enc2/P07S24C04R02/P07S24C04R02.bin --startFrameNumber 1051 --videoDecoderPath "../app/TAppDecoder" --colorSpaceConversionPath "../app/HDRConvert" --inverseColorSpaceConversionConfig "../app/yuv420torgb444.cfg" --colorSpaceConversionConfig "../app/rgb444toyuv420.cfg" > ../dec2/P07S24C04R02/P07S24C04R02\_log.txt

mkdir ../enc2/P07S24C04R03

../app/tmc2 --mode 0 --geometryQP 21 --textureQP 32 --uncompressedDataPath ../longdress/longdress\_vox10\_%i.ply --compressedStreamPath ../enc2/P07S24C04R03/P07S24C04R03.bin --startFrameNumber 1051 --groupOfFramesSize 32 --frameCount 300 --videoEncoderPath "../app/TAppEncoder" --colorSpaceConversionPath "../app/HDRConvert" --inverseColorSpaceConversionConfig "../app/yuv420torgb444.cfg" --colorSpaceConversionConfig "../app/rgb444toyuv420.cfg" --geometryConfig "../app/geometryCfp.cfg" --textureConfig "../app/textureCfp.cfg" > ../enc2/P07S24C04R03/P07S24C04R03\_log.txt

mkdir ../dec2/P07S24C04R03

../app/tmc2 --mode 1 --reconstructedDataPath ../dec2/P07S24C04R03/P07S24C04R03\_%i.ply --compressedStreamPath ../enc2/P07S24C04R03/P07S24C04R03.bin --startFrameNumber 1051 --videoDecoderPath "../app/TAppDecoder" --colorSpaceConversionPath "../app/HDRConvert" --inverseColorSpaceConversionConfig "../app/yuv420torgb444.cfg" --colorSpaceConversionConfig "../app/rgb444toyuv420.cfg" > ../dec2/P07S24C04R03/P07S24C04R03\_log.txt

mkdir ../enc2/P07S24C04R04

../app/tmc2 --mode 0 --geometryQP 16 --textureQP 27 --uncompressedDataPath ../longdress/longdress\_vox10\_%i.ply --compressedStreamPath ../enc2/P07S24C04R04/P07S24C04R04.bin --startFrameNumber 1051 --groupOfFramesSize 32 --frameCount 300 --videoEncoderPath "../app/TAppEncoder" --colorSpaceConversionPath "../app/HDRConvert" --inverseColorSpaceConversionConfig "../app/yuv420torgb444.cfg" --colorSpaceConversionConfig "../app/rgb444toyuv420.cfg" --geometryConfig "../app/geometryCfp.cfg" --textureConfig "../app/textureCfp.cfg" > ../enc2/P07S24C04R04/P07S24C04R04\_log.txt

mkdir ../dec2/P07S24C04R04

../app/tmc2 --mode 1 --reconstructedDataPath ../dec2/P07S24C04R04/P07S24C04R04\_%i.ply --compressedStreamPath ../enc2/P07S24C04R04/P07S24C04R04.bin --startFrameNumber 1051 --videoDecoderPath "../app/TAppDecoder" --colorSpaceConversionPath "../app/HDRConvert" --inverseColorSpaceConversionConfig "../app/yuv420torgb444.cfg" --colorSpaceConversionConfig "../app/rgb444toyuv420.cfg" > ../dec2/P07S24C04R04/P07S24C04R04\_log.txt

mkdir ../enc2/P07S24C04R05

../app/tmc2 --mode 0 --geometryQP 14 --textureQP 23 --uncompressedDataPath ../longdress/longdress\_vox10\_%i.ply --compressedStreamPath ../enc2/P07S24C04R05/P07S24C04R05.bin --startFrameNumber 1051 --groupOfFramesSize 32 --frameCount 300 --videoEncoderPath "../app/TAppEncoder" --colorSpaceConversionPath "../app/HDRConvert" --inverseColorSpaceConversionConfig "../app/yuv420torgb444.cfg" --colorSpaceConversionConfig "../app/rgb444toyuv420.cfg" --geometryConfig "../app/geometryCfp.cfg" --textureConfig "../app/textureCfp.cfg" > ../enc2/P07S24C04R05/P07S24C04R05\_log.txt

mkdir ../dec2/P07S24C04R05

../app/tmc2 --mode 1 --reconstructedDataPath ../dec2/P07S24C04R05/P07S24C04R05\_%i.ply --compressedStreamPath ../enc2/P07S24C04R05/P07S24C04R05.bin --startFrameNumber 1051 --videoDecoderPath "../app/TAppDecoder" --colorSpaceConversionPath "../app/HDRConvert" --inverseColorSpaceConversionConfig "../app/yuv420torgb444.cfg" --colorSpaceConversionConfig "../app/rgb444toyuv420.cfg" > ../dec2/P07S24C04R05/P07S24C04R05\_log.txt

# Encode Parameters for Random Access

## Loot

|  |  |
| --- | --- |
| Bitrate | Parameters |
| R01 | mode 0  uncompressedDataPath ../uncompressed/loot/loot\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S21C04R01/P07S21C04R01.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1000  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 24  textureQP 33    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R02 | mode 0  uncompressedDataPath ../uncompressed/loot/loot\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S21C04R02/P07S21C04R02.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1000  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 24  textureQP 30    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R03 | mode 0  uncompressedDataPath ../uncompressed/loot/loot\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S21C04R03/P07S21C04R03.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1000  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 20  textureQP 27    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R04 | mode 0  uncompressedDataPath ../uncompressed/loot/loot\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S21C04R04/P07S21C04R04.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1000  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 18  textureQP 20    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R05 | mode 0  uncompressedDataPath ../uncompressed/loot/loot\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S21C04R05/P07S21C04R05.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1000  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 16  textureQP 16    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |

## Redandblack

|  |  |
| --- | --- |
| Bitrate | Parameters |
| R01 | mode 0  uncompressedDataPath ../uncompressed/redandblack/redandblack\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S22C04R01/P07S22C04R01.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1450  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 28  textureQP 40    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R02 | mode 0  uncompressedDataPath ../uncompressed/redandblack/redandblack\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S22C04R02/P07S22C04R02.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1450  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 25  textureQP 32    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R03 | mode 0  uncompressedDataPath ../uncompressed/redandblack/redandblack\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S22C04R03/P07S22C04R03.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1450  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 20  textureQP 29    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R04 | mode 0  uncompressedDataPath ../uncompressed/redandblack/redandblack\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S22C04R04/P07S22C04R04.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1450  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 20  textureQP 23    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R05 | mode 0  uncompressedDataPath ../uncompressed/redandblack/redandblack\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S22C04R05/P07S22C04R05.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1450  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 16  textureQP 18    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |

## Soldier

|  |  |
| --- | --- |
| Bitrate | Parameters |
| R01 | mode 0  uncompressedDataPath ../uncompressed/soldier/soldier\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S23C04R01/P07S23C04R01.bin  reconstructedDataPath  frameCount 300  startFrameNumber 536  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 28  textureQP 43    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R02 | mode 0  uncompressedDataPath ../uncompressed/soldier/soldier\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S23C04R02/P07S23C04R02.bin  reconstructedDataPath  frameCount 300  startFrameNumber 536  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 24  textureQP 35    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R03 | mode 0  uncompressedDataPath ../uncompressed/soldier/soldier\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S23C04R04/P07S23C04R04.bin  reconstructedDataPath  frameCount 300  startFrameNumber 536  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 20  textureQP 30    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R04 | mode 0  uncompressedDataPath ../uncompressed/soldier/soldier\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S23C04R04/P07S23C04R04.bin  reconstructedDataPath  frameCount 300  startFrameNumber 536  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 20  textureQP 25    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R05 | mode 0  uncompressedDataPath ../uncompressed/soldier/soldier\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S23C04R05/P07S23C04R05.bin  reconstructedDataPath  frameCount 300  startFrameNumber 536  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 16  textureQP 20    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |

## Longdress

|  |  |
| --- | --- |
| Bitrate | Parameters |
| R01 | mode 0  uncompressedDataPath ../uncompressed/longdress/longdress\_vox10\_%i.ply  compressedStreamPath ../enc/P07S24C04R01/P07S24C04R01.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1051  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 27  textureQP 43    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R02 | mode 0  uncompressedDataPath ../uncompressed/longdress/longdress\_vox10\_%i.ply  compressedStreamPath ../enc/P07S24C04R02/P07S24C04R02.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1051  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 24  textureQP 39    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R03 | mode 0  uncompressedDataPath ../uncompressed/longdress/longdress\_vox10\_%i.ply  compressedStreamPath ../enc/P07S24C04R03/P07S24C04R03.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1051  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 21  textureQP 32    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R04 | mode 0  uncompressedDataPath ../uncompressed/longdress/longdress\_vox10\_%i.ply  compressedStreamPath ../enc/P07S24C04R04/P07S24C04R04.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1051  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 16  textureQP 27    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R05 | mode 0  uncompressedDataPath ../uncompressed/longdress/longdress\_vox10\_%i.ply  compressedStreamPath ../enc/P07S24C04R05/P07S24C04R05.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1051  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 14  textureQP 23    geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |

## Queen

|  |  |
| --- | --- |
| Bitrate | Parameters |
| R01 | mode 0  uncompressedDataPath ../uncompressed/queen/frame\_%04d.ply  compressedStreamPath ../enc/P07S20C04R01/P07S20C04R01.bin  reconstructedDataPath  frameCount 250  startFrameNumber 0  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 32  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 1  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1408  video encoding  geometryQP 36  textureQP 47  geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R02 | mode 0  uncompressedDataPath ../uncompressed/queen/frame\_%04d.ply  compressedStreamPath ../enc/P07S20C04R02/P07S20C04R02.bin  reconstructedDataPath  frameCount 250  startFrameNumber 0  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 32  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 1  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1408  video encoding  geometryQP 32  textureQP 40  geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R03 | mode 0  uncompressedDataPath ../uncompressed/queen/frame\_%04d.ply  compressedStreamPath ../enc/P07S20C04R03/P07S20C04R03.bin  reconstructedDataPath  frameCount 250  startFrameNumber 0  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 32  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 1  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1408  video encoding  geometryQP 24  textureQP 28  geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R04 | mode 0  uncompressedDataPath ../uncompressed/queen/frame\_%04d.ply  compressedStreamPath ../enc/P07S20C04R04/P07S20C04R04.bin  reconstructedDataPath  frameCount 250  startFrameNumber 0  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 32  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 1  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1408  video encoding  geometryQP 20  textureQP 22  geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R05 | mode 0  uncompressedDataPath ../uncompressed/queen/frame\_%04d.ply  compressedStreamPath ../enc/P07S20C04R05/P07S20C04R05.bin  reconstructedDataPath  frameCount 250  startFrameNumber 0  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 32  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 1  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1408  video encoding  geometryQP 14  textureQP 17  geometryConfig ../app/geometryCfp.cfg  textureConfig ../app/textureCfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |

# Encode Parameters for All Intra

## Loot

|  |  |
| --- | --- |
| Bitrate | Parameters |
| R01 | mode 0  uncompressedDataPath ../uncompressed/loot/loot\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S21C03R01/P07S21C03R01.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1000  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 24  textureQP 38    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R02 | mode 0  uncompressedDataPath ../uncompressed/loot/loot\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S21C03R02/P07S21C03R02.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1000  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 24  textureQP 33    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R03 | mode 0  uncompressedDataPath ../uncompressed/loot/loot\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S21C03R03/P07S21C03R03.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1000  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 20  textureQP 30    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R04 | mode 0  uncompressedDataPath ../uncompressed/loot/loot\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S21C03R04/P07S21C03R04.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1000  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 18  textureQP 23    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R05 | mode 0  uncompressedDataPath ../uncompressed/loot/loot\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S21C03R05/P07S21C03R05.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1000  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 16  textureQP 18    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |

## Redandblack

|  |  |
| --- | --- |
| Bitrate | Parameters |
| R01 | mode 0  uncompressedDataPath ../uncompressed/redandblack/redandblack\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S22C03R01/P07S22C03R01.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1450  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 28  textureQP 43    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R02 | mode 0  uncompressedDataPath ../uncompressed/redandblack/redandblack\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S22C03R02/P07S22C03R02.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1450  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 25  textureQP 35    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R03 | mode 0  uncompressedDataPath ../uncompressed/redandblack/redandblack\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S22C03R03/P07S22C03R03.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1450  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 20  textureQP 32    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R04 | mode 0  uncompressedDataPath ../uncompressed/redandblack/redandblack\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S22C03R04/P07S22C03R04.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1450  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 20  textureQP 24    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R05 | mode 0  uncompressedDataPath ../uncompressed/redandblack/redandblack\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S22C03R05/P07S22C03R05.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1450  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 16  textureQP 20    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |

## Soldier

|  |  |
| --- | --- |
| Bitrate | Parameters |
| R01 | mode 0  uncompressedDataPath ../uncompressed/soldier/soldier\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S23C03R01/P07S23C03R01.bin  reconstructedDataPath  frameCount 300  startFrameNumber 536  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 28  textureQP 48    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R02 | mode 0  uncompressedDataPath ../uncompressed/soldier/soldier\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S23C03R02/P07S23C03R02.bin  reconstructedDataPath  frameCount 300  startFrameNumber 536  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 24  textureQP 40    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R03 | mode 0  uncompressedDataPath ../uncompressed/soldier/soldier\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S23C03R03/P07S23C03R03.bin  reconstructedDataPath  frameCount 300  startFrameNumber 536  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 20  textureQP 35    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R04 | mode 0  uncompressedDataPath ../uncompressed/soldier/soldier\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S23C03R04/P07S23C03R04.bin  reconstructedDataPath  frameCount 300  startFrameNumber 536  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 20  textureQP 28    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R05 | mode 0  uncompressedDataPath ../uncompressed/soldier/soldier\_vox10\_%04d.ply  compressedStreamPath ../enc/P07S23C03R05/P07S23C03R05.bin  reconstructedDataPath  frameCount 300  startFrameNumber 536  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 16  textureQP 23    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |

## Longdress

|  |  |
| --- | --- |
| Bitrate | Parameters |
| R01 | mode 0  uncompressedDataPath ../uncompressed/longdress/longdress\_vox10\_%i.ply  compressedStreamPath ../enc/P07S24C03R01/P07S24C03R01.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1051  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 27  textureQP 45    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R02 | mode 0  uncompressedDataPath ../uncompressed/longdress/longdress\_vox10\_%i.ply  compressedStreamPath ../enc/P07S24C03R02/P07S24C03R02.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1051  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 24  textureQP 42    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R03 | mode 0  uncompressedDataPath ../uncompressed/longdress/longdress\_vox10\_%i.ply  compressedStreamPath ../enc/P07S24C03R03/P07S24C03R03.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1051  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 21  textureQP 35    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R04 | mode 0  uncompressedDataPath ../uncompressed/longdress/longdress\_vox10\_%i.ply  compressedStreamPath ../enc/P07S24C03R04/P07S24C03R04.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1051  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 16  textureQP 28    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R05 | mode 0  uncompressedDataPath ../uncompressed/longdress/longdress\_vox10\_%i.ply  compressedStreamPath ../enc/P07S24C03R05/P07S24C03R05.bin  reconstructedDataPath  frameCount 300  startFrameNumber 1051  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 16  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 9  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1280  video encoding  geometryQP 14  textureQP 24    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |

## Queen

|  |  |
| --- | --- |
| Bitrate | Parameters |
| R01 | mode 0  uncompressedDataPath ../uncompressed/queen/frame\_%04d.ply  compressedStreamPath ../enc/P07S20C03R01/P07S20C03R01.bin  reconstructedDataPath  frameCount 250  startFrameNumber 0  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 32  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 1  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1408  video encoding  geometryQP 37  textureQP 49    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R02 | mode 0  uncompressedDataPath ../uncompressed/queen/frame\_%04d.ply  compressedStreamPath ../enc/P07S20C03R02/P07S20C03R02.bin  reconstructedDataPath  frameCount 250  startFrameNumber 0  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 32  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 1  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1408  video encoding  geometryQP 32  textureQP 43    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R03 | mode 0  uncompressedDataPath ../uncompressed/queen/frame\_%04d.ply  compressedStreamPath ../enc/P07S20C03R03/P07S20C03R03.bin  reconstructedDataPath  frameCount 250  startFrameNumber 0  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 32  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 1  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1408  video encoding  geometryQP 24  textureQP 31    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R04 | mode 0  uncompressedDataPath ../uncompressed/queen/frame\_%04d.ply  compressedStreamPath ../enc/P07S20C03R04/P07S20C03R04.bin  reconstructedDataPath  frameCount 250  startFrameNumber 0  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 32  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 1  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1408  video encoding  geometryQP 20  textureQP 25    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |
| R05 | mode 0  uncompressedDataPath ../uncompressed/queen/frame\_%04d.ply  compressedStreamPath ../enc/P07S20C03R05/P07S20C03R05.bin  reconstructedDataPath  frameCount 250  startFrameNumber 0  groupOfFramesSize 32  colorTransform 1  videoEncoderPath ../app/TAppEncoder  videoDecoderPath  segmentation  nnNormalEstimation 32  maxNNCountRefineSegmentation 256  iterationCountRefineSegmentation 100  occupancyResolution 16  minPointCountPerCCPatchSegmentation 16  maxNNCountPatchSegmentation 16  surfaceThikness 4  maxAllowedDist2MissedPointsDetection 1  maxAllowedDist2MissedPointsSelection 1  lambdaRefineSegmentation 3  packing  minimumImageWidth 1280  minimumImageHeight 1408  video encoding  geometryQP 16  textureQP 20    geometryConfig ../app/geometryAICfp.cfg  textureConfig ../app/textureAICfp.cfg  occupancy map encoding  maxCandidateCount 4  occupancyPrecision 4  smoothing  neighborCountSmoothing 64  radius2Smoothing 64  radius2BoundaryDetection 64  thresholdSmoothing 64 |