

Traces Page

The list of parameters in this section relate to a HEVC service and code 7.00.07.077

The Traces page is a section under the **Console** section of the MFEL. This page shows debug information for each service, selectable in a drop down list.

The main interesting parts in terms of coding settings is the list of parameters. These are the parameters that you can change by adding entries to the Console page itself.

```

ENC_HevcEncoder.cpp(1376) INFO Service3.Profile 3-1.enc.vid0.seg0 mind=33 maxd=783 encd=2463
ENC_HevcEncoder.cpp(1373) INFO Service3.Profile 3-1.enc.vid0.seg0 VOPTimeIncrement=1
timeResolution=25
ENC_HevcEncoder.cpp(1372) INFO Service3.Profile 3-1.enc.vid0.seg0 m_lookaheadSize=42
maxJitter=0.750000 brand=dvb
ENC_HevcEncoder.cpp(1286) INFO Service3.Profile 3-1.enc.vid0.seg0 Look ahead size: 42
ENC_HevcEncoder.cpp(1271) INFO Service3.Profile 3-1.enc.vid0.seg0 getEncoderDelay => 41
ENC_HevcEncoder.cpp(2525) INFO Service3.Profile 3-1.enc.vid0.seg0 NEX version: uncl.1.0.4
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE cpuId = 2
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###Intel instruction set support
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE slcAddress = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE mslcNonUniformSpacing = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE mslcPadding = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE mslcExchange = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE mslcNumSlices = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE imHeight = 544
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE imWidth = 960
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###Multi-instance encoding parameters
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE numaExSize = 128
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE numaNode0 = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE numNodes = 0
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###NUMA parameters
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE disableIntra32x32 = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE disableIntra64x64 = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE disableMe32x32 = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE disableMe64x64 = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE disableIntra8x8 = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE disableMe8x8 = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE codingDepth.depthB = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE codingDepth.depthBr = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE codingDepth.depthP = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE codingDepth.depthI = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useIntraNxN = 2
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useTransformNxN = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE maxDepth = 2
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE LCUSize = 32
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###Coding Unit structure
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useTileSliceMotionBias = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useAdaptiveLambdaScaling = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE partModeDecisionB = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE partModeDecisionP = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE partModeDecisionI = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useIntraSmoothing = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE decisionChromaIntraFromLuma = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useFullIntraModeSearch = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useRingingDetection = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE predSkipMergeDecision = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE predIntraDecisionB = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE predIntraDecisionP = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE predIntraDecisionI = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useIntraSearchP = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useIntraSearchBr = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useIntraSearchB = 0
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###Decision parameters
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE padding.right = 32
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE padding.left = 32

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NEX_CheckParameters.cpp(40) INFO NEX_ENGINE padding.down = 32
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE padding.up = 32
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE nbReferenceFieldsBL1 = 2
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE nbReferenceFieldsBL0 = 2
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE nbReferenceFieldsP = 2
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE nbReferenceFramesBL1 = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE nbReferenceFramesBL0 = 2
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE nbReferenceFramesP = 2
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE multirefShortcut = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE fastSubPelMode = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE pixelPrecision = 4
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE ME_typeB = 4
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE ME_typeBRef = 4
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE ME_typeP = 4
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE searchRange = 128
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###Motion search parameters
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE dumpBotFieldForSTCLearning = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE dumpInfoForSTCLearning = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE reencodeIntraFrame = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE weightedPrediction = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useTransitionDetection = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE motionEstimationInLA = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useSpatioTemporalComplexity = 1
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###Lookahead parameters
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useStaticZones = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE maxQuantizer = 50
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE minQuantizer = 16
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE dequantType = 2
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###Dequant parameters
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE constantQuantizers.qpBref = 27
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE constantQuantizers.qpB = 28
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE constantQuantizers.qpP = 25
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE constantQuantizers.qpI = 26
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE vbvFillingRemainder = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE vbvFilling = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE vbvSize = 16000000
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE statmuxed = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE rcAlgorithm = 3
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE rcType = 1
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###Rate Control parameters
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE dynamicSubGopSelection = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useDynamicB = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE numBFrames = 7
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE keyFramePeriodPolicy = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE keyFramePeriodInMs = 1000
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE chunksWithoutIntra = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE gopPolicy = 0
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###GOP structure parameters
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE parHeight = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE parWidth = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE panScanMode = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE ccSeiPosition = 2
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useVersionMessages = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useActiveParameterSetSeiMessages = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useHrdBufferingMessages = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE minAUSize = 184
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useAuDelimiter = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE standard = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE preset = 1
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###Signaling parameters
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE numForThreadingMode = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE threadingMode = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE numThreadsHME = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE firstTileXNbLCUs = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE embedTileRowsInSlices = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE numTilesY = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE numTilesX = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useMonoThread = 0
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###Internal architecture parameters
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE useTrickPlay = 0

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NEX_CheckParameters.cpp(40) INFO NEX_ENGINE SAFFDelay = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE ANA_MbFrameFieldThreshold = 450
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE picStructREC = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE interlacedEncodingMode = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE sourceScanType = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE tier = 0
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE level = 41
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE profile = 1
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###General coding infos
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE outputBitDepth = 8
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE inputBitDepth = 8
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE internalBitDepth = 8
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE bitRate = 8000000
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE VOPTimeIncrement = 1
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE timeResolution = 25
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE displayHeight = 540
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE displayWidth = 960
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE height = 544
NEX_CheckParameters.cpp(40) INFO NEX_ENGINE width = 960
NEX_CheckParameters.cpp(79) INFO NEX_ENGINE ###Video infos
RC_Predictive.cpp(466) INFO RC Predictive Init Intra Pump : 0 level: -1
RC_Predictive.cpp(465) INFO RC Predictive Init IntraPeriodicLevel: 60
RC_Predictive.cpp(464) INFO RC Predictive Init Max Fr Cpx : 75000
RC_Predictive.cpp(463) INFO RC Predictive Init STC Size filtering: 30

```

After this there is a handy reminder on how to use the parameters.

```

NEX_CheckParameters.cpp(1257) INFO NEX use the prefix nex to override codec parameters in
mpeg4.cfg
ENC_HevcEncoder.cpp(2482) INFO Service3.Profile 3-1.enc.vid0.seg0 NEX version: uncl.1.0.4
ENC_HevcEncoder.cpp(2888) INFO use the prefix nex.iptv to override codec parameters in mpeg4.cfg

```

So in the Console page, if you wanted to limit the number B frames to 3 (from the default of 7) you would enter something like:

```

nex.cmd.numBframes=7

```

```

nex.cmd is used for HEVC settings
exec is used for H264 and mpg2

```

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