- main()
  - WelsCreateDecoder()
    - CWelsDecoder::CWelsDecoder()
      - welsCodecTrace::welsCodecTrace()
      - ResetReorderingPictureBuffers()
  - CWelsDecoder::Initialize()
    - CWelsDecoder::InitDecoder()
      - CWelsDecoder::OpenDecoderThreads()
      - CWelsDecoder::UninitDecoder()
        - WelsResetRefPicWithoutUnRef()
        - CWelsDecoder::UninitDecoderCtx()
          - WelsEndDecoder()
            - WelsFreeDynamicMemory()...
            - WelsFreeStaticMemory()...
      - WelsDecoderLastDecPicInfoDefaults()
      - CWelsDecoder::InitDecoderCtx()
        - CWelsDecoder::UninitDecoderCtx() ⚠
        - WelsDecoderDefaults()
          - WelsResetRefPic()
            - SetUnRef()
        - WelsDecoderSpsPpsDefaults()
        - DecoderConfigParam()
        - WelsInitDecoder()
          - WelsOpenDecoder()
            - InitDecFuncs()
              - WelsBlockFuncInit()
                - WelsNonZeroCount_c
                - WelsBlockZero[size]x[size]_c
              - InitPredFunc()
                - WelsI[size]x[size]LumaPred[method]_c
                - WelsIChromaPred[method]_c
                - IdctResAddPred_c
                - IdctFourResAddPred_<IdctResAddPred_c>
                - IdctResAddPred8x8_c
              - WelsCommon::InitMcFunc()
                - McHorVer20_c
                - FilterInput8bitWithStride_c
                - McHorVer02_c
                - McHorVer22_c
                - HorFilterInput16bit_c
                - PixelAvg_c
                - McChroma_c
                - McChromaWithFragMv_c
                - McLuma_c
              - InitExpandPictureFunc()
                - ExpandPictureLuma_c
                - ExpandPictureChroma_c
              - DeblockingInit()
                - DeblockLuma[Lt/Eq]4[V/H]_c
                - DeblockChroma[Lt/Eq]4[V/H]_c
                - DeblockChroma[Lt/Eq]4[V/H]2_c
            - InitVlcTable()
            - WelsInitStaticMemory()
              - MemInitNalList()
              - InitBsBuffer()
  - H264DecodeInstance()
    - CWelsDecoder::DecodeFrameNoDelay()
      - If multi thread, CWelsDecoder::ThreadDecodeFrameInternal()
        - CWelsDecoder::ParseAccessUnit()
          - CWelsDecoder::DecodeFrame2WithCtx()
            - WelsDecodeBs()
              - ConstructAccessUnit()
                - DecodeCurrentAccessUnit()
                - Decode & construct slice
                - single thread
                - WelsDecodeSlice()
                - WelsDecodeMbCavlcISlice()
                - WelsActualDecodeMbCavlcISlice()
                - DetectStartCodePrefix()
                - ParseNalHeader()
                - DecodeNalHeaderExt()
                - ParsePrefixNalUnit()
                - ParseRefBasePicMarking()
                - (PrefetchNalHeaderExtSyntax()
                - ParseSliceHeaderSyntaxs()
                - ParseRefPicListReordering()
                - ParsePredWeightedTable()
                - ParseDecRefPicMarking()
                - (CheckNextAuNewSeq()
                - (CheckAccessUnitBoundary()
                - ParseNonVclNal()
                - ParseSps()
                - ParseScalingList()
                - ParseVui()
                - DecodeSpsSvcExt()
                - ParsePps()
                - ParseScalingList() ⚠
                - CheckAndFinishLastPic()
                - ConstructAccessUnit() ⚠
                - DecodeFrameConstruction()
                - ExpandBsLenBuffer()
                - UpdateDecStat()
                - ImplementErrorCon()
                - DoErrorConFrameCopy()
                - DoErrorConSliceCopy()
                - GetAvailInfoFromCorrectMb()
                - DoErrorConSliceMVCopy()
                - DoMbECMvCopy()
                - MarkECFrameAsRef()
                - WelsMarkAsRef()...
                - ExpandReferencingPicture()
                - ExpandPictureChroma_c() ⚠
                - (InitConstructAccessUnit() ⚠
                - InitCurDqLayerData()
                - PrefetchPic()
                - GetI4LumaChromaAddrTable()
                - FmoParamUpdate()...
                - WelsDqLayerDecodeStart()
                - InitDqLayerInfo()
                - InitRefPicList()...
                - ComputeColocatedTemporalScaling()
                - WelsCabacContextInit()
                - InitCabacDecEngineFromBS()
                - WelsCalcDeqCoeffScalingList()
                - WelsDecodeMbCabacISlice()
                - WelsDecodeMbCabacPSlice()
                - WelsDecodeMbCabacBSlice()
                - WelsDecodeMbCavlcISlice()
                - WelsActualDecodeMbCavlcISlice()
                - GetNeighborAvailMbType()
                - WelsFillCacheConstrain0IntraNxN()
                - WelsFillCacheNonZeroCount()
                - ParseIntra4x4Mode()
                - WelsMapNxNNeighToSampleNormal()
                - (ParseIntraPredModeLumaCabac()
                - PredIntra4x4Mode()
                - CheckIntraNxNPredMode()
                - (ParseIntraPredModeChromaCabac()
                - DecodeBinCabac()
                - CheckIntraChromaPredMode()
                - ParseIntra8x8Mode()
                - WelsFillCacheNonZeroCount() ⚠
                - ParseIntra16x16Mode()
                - WelsMapNxNNeighToSampleNormal() ⚠
                - CheckIntra16x16PredMode()
                - (ParseIntraPredModeChromaCabac() ⚠
                - CheckIntraChromaPredMode() ⚠
                - BsStartCavlc()
                - WelsResidualBlockCavlc()
                - GetMbResProperty()
                - CavlcGetTrailingOnesAndTotalCoeff()
                - CavlcGetLevelVal()
                - CavlcGetTotalZeros()
                - CavlcGetRunBefore()
                - WelsChromaDcIdct()
                - WelsLumaDcDequantIdct()
                - WelsResidualBlockCavlc8x8()
                - BsEndCavlc()
                - WelsDecodeMbCavlcPSlice()
                - PredPSkipMvFromNeighbor()
                - WelsActualDecodeMbCavlcPSlice()
                - GetNeighborAvailMbType() ⚠
                - WelsFillCacheInter()
                - ParseInterInfo()
                - PredMv()
                - UpdateP16x16MotionInfo()
                - PredInter16x8Mv()
                - PredMv() ⚠
                - UpdateP16x8MotionInfo()
                - PredInter8x16Mv()
                - PredMv() ⚠
                - UpdateP8x16MotionInfo()
                - WelsFillCacheConstrain0IntraNxN() ⚠
                - ParseIntra4x4Mode() ⚠
                - ParseIntra8x8Mode() ⚠
                - WelsFillCacheNonZeroCount() ⚠
                - ParseIntra16x16Mode() ⚠
                - BsStartCavlc() ⚠
                - WelsResidualBlockCavlc() ⚠
                - WelsResidualBlockCavlc8x8() ⚠
                - BsEndCavlc() ⚠
                - WelsDecodeMbCavlcBSlice()
                - PredMvBDirectSpatial()...
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                - WelsActualDecodeMbCavlcBSlice()...
                - WelsDecodeConstructSlice()
                - WelsTargetSliceConstruction()
                - WelsTargetMbConstruction()
                - WelsMbIntraPredictionConstruction()
                - WelsFillRecNeededMbInfo()
                - Recl16x16Mb()
                - Weslt16x16LumaPred[method]_c() ⚠
                - IdctFourResAddPred_<IdctResAddPred_c>() ⚠
                - WelsIChromaPred[method]_c() ⚠
                - RecChroma()
                - IdctFourResAddPred_<IdctResAddPred_c>() ⚠
                - Recl8x8Mb()
                - Recl4x4Mb()
                - WelsMbInterPrediction()
                - GetInterPred()
                - GetRefPic()
                - BaseMC()
                - McLuma_c() ⚠
                - McChroma_c() ⚠
                - WeightPrediction()
                - AllocPicture()
                - GetInterBPred()
                - GetRefPic() ⚠
                - BaseMC() ⚠
                - BiWeightPrediction()
                - BiPrediction()
                - WeightPrediction() ⚠
                - WelsMbInterConstruction()
                - GetInterPred() ⚠
                - AllocPicture() ⚠
                - GetInterBPred() ⚠
                - WelsMbInterSampleConstruction()
                - IdctResAddPred8x8_c() ⚠
                - IdctFourResAddPred_<IdctResAddPred_c>() ⚠
                - WelsNonZeroCount_c() ⚠
                - WelsDeblockingFilterSlice()
                - DeblockingAvailableNoInterlayer()
                - WelsDeblockingMb()
                - DeblockingIntraMb()
                - FilteringEdgeLumaHV()
                - FilteringEdgeLumaIntraV()
                - DeblockLumaEq4H_c() ⚠
                - DeblockLumaEq4_c()
                - FilteringEdgeLumaIntraH()
                - DeblockLumaEq4V_c() ⚠
                - DeblockLuma[Lt/Eq]4[V/H]_c() ⚠
                - FilteringEdgeChromaHV()
                - FilteringEdgeChromaIntraV()
                - DeblockChroma[Lt/Eq]4[V/H]_c() ⚠
                - DeblockChroma[Lt/Eq]4[V/H]2_c() ⚠
                - FilteringEdgeChromaIntraH()
                - DeblockChroma[Lt/Eq]4[V/H]_c() ⚠
                - DeblockChroma[Lt/Eq]4[V/H]2_c() ⚠
                - DeblockingBSliceBsMarginalMBAvcbase()
                - DeblockingBsMarginalMBAvcbase()
                - DeblockingBSInsideMBAvsbase()
                - DeblockingBSInsideMBAvsbase8x8()
                - DeblockingBSliceBSInsideMBNormal()
                - DeblockingBSInsideMBNormal()
                - DeblockingInterMb()
                - FilteringEdgeLumaIntraV() ⚠
                - FilteringEdgeChromaIntraV() ⚠
                - FilteringEdgeLumaV()
                - DeblockLumaLt4H_c() ⚠
                - FilteringEdgeChromaV()
                - DeblockChromaLt4H_c() ⚠
                - DeblockChromaLt4H2_c() ⚠
                - FilteringEdgeLumaIntraH() ⚠
                - FilteringEdgeChromaIntraH() ⚠
                - FilteringEdgeLumaH()
                - DeblockLumaLt4V_c() ⚠
                - FilteringEdgeChromaH()
                - DeblockChromaLt4V_c() ⚠
                - DeblockChromaLt4V2_c() ⚠
                - multi thread
                - WelsDecodeAndConstructSlice()
                - CheckRefPicturesComplete()
                - ImplementErrorCon() ⚠
                - DecodeFrameConstruction() ⚠
                - WelsMarkAsRef() ⚠
                - ExpandReferencingPicture() ⚠
                - InitialDqLayersContext() ⚠
                - WelsDecodeAccessUnitEnd()
                - ResetCurrentAccessUnit()
                - DecodeFinishUpdate()
                - WriteBackActiveParameters()
                - ResetActiveSPSForEachLayer()
            - ResetDecStatNums()
            - CWelsDecoder::OutputStatisticsLog()
            - CWelsDecoder::BufferingReadyPicture()
      - If single thread, CWelsDecoder::DecodeFrame2()
        - CWelsDecoder::DecodeFrame2WithCtx() ⚠
      - CWelsDecoder::ReleaseBufferedReadyPicture()
    - CWelsDecoder::InitDecoder()
      - InitConstructAccessUnit()
      - WelsDecodeInitAccessUnitStart()
      - CheckNewSeqBeginAndUpdateActiveLayerSps()
      - WelsDecodeAccessUnitStart()
      - UpdateAccessUnit()
      - CheckIntegrityNalUnitsList()
      - RefineIdxNoInterLayerPred()
      - CheckAvailNalUnitsListContinuity()
      - CheckPocOfCurValidNalUnits()
      - CheckOnlyOneLayerInAu()
      - AllocPicBuffOnNewSeqBegin()
      - WelsResetRefPic()
      - SyncPictureResolutionExt()
      - WelsRequestMem()
      - InitialDqLayersContext() ⚠
      - InitialDqLayersContext()
      - UninitialDqLayersContext()
  - readPicture()
  - CUtils::Process()
    - Write2File()
  - FlushFrames()
    - CWelsDecoder::FlushFrame()
    - CUtils::Process() ⚠
- CWelsDecoder::UninitDecoder()
- WelsDestroyDecoder()