

中科院声学所离线识别引擎

FFMPEG源代码清单

版 本 历 史

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 版本/状态 | 作者 | 参与者 | 起止日期 | 备注 |
| V1.0 | 王超锋 |  | 2021-11-17 | 创建文件 |
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# 1.概述

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1.1编写目的

文档编写目的是为代码维护者能清楚了解代码模块的具体功能及分布位置，本文档的读者对象为开发人员和测试人员。

* 为开发人员提供依据；
* 为代码修改、维护提供条件；

# 2.运行环境

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## 2.1软件环境

|  |  |  |
| --- | --- | --- |
| 分类 | 名称 | 版本 |
| 操作系统 | Centos | 7.0以上 |
| 数据库 | Redis | 3.2.0 |
| Mysql | 5.7.6 |
| 能力接口 | Tomcat | 9.0.35 |

## 2.2 硬件环境

|  |  |  |
| --- | --- | --- |
| 服务器 | 最低配置 | 推荐配置 |
| redis服务器 | CPU：1  内存：256M | CPU：1  内存：1G |
| 识别服务器 | CPU：4  内存：10G  磁盘：20G | CPU：10  内存：15G  磁盘：30G |

# 3.源代码清单

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## 3.1 代码清单

|  |  |
| --- | --- |
| 程序名 | 程序路径 |
| cmdutils.c  cmdutils.h  ffmpeg.c  ffmpeg\_filter.c  ffmpeg.h  ffmpeg\_hw.c  ffmpeg\_opt.c  ffmpeg\_qsv.c  ffmpeg\_videotoolbox.c  ffplay.c  ffprobe.c  Makefile | ffmpeg-4.3/fftools |
| 012v.c  4xm.c  8bps.c  8svx.c  a64colors.h  a64multienc.c  a64tables.h  aac\_ac3\_parser.c  aac\_ac3\_parser.h  aac\_adtstoasc\_bsf.c  aaccoder.c  aaccoder\_trellis.h  aaccoder\_twoloop.h  aacdec.c  aacdec\_fixed.c  aacdectab.h  aacdec\_template.c  aac\_defines.h  aacenc.c  aacenc.h  aacenc\_is.c  aacenc\_is.h  aacenc\_ltp.c  aacenc\_ltp.h  aacenc\_pred.c  aacenc\_pred.h  aacenc\_quantization.h  aacenc\_quantization\_misc.h  aacenctab.c  aacenctab.h  aacenc\_tns.c  aacenc\_tns.h  aacenc\_utils.h  aac.h  aac\_parser.c  aacps.c  aacpsdata.c  aacpsdsp\_fixed.c  aacpsdsp\_float.c  aacpsdsp.h  aacpsdsp\_template.c  aacps\_fixed.c  aacps\_fixed\_tablegen.c  aacps\_fixed\_tablegen.h  aacps\_float.c  aacps.h  aacps\_tablegen.c  aacps\_tablegen.h  aacps\_tablegen\_template.c  aacpsy.c  aacsbr.c  aacsbrdata.h  aacsbr\_fixed.c  aacsbr\_fixed\_tablegen.h  aacsbr.h  aacsbr\_tablegen\_common.h  aacsbr\_tablegen.h  aacsbr\_template.c  aactab.c  aactab.h  aandcttab.c  aandcttab.h  aasc.c  ac3.c  ac3dec.c  ac3dec\_data.c  ac3dec\_data.h  ac3dec\_fixed.c  ac3dec\_float.c  ac3dec.h  ac3dsp.c  ac3dsp.h  ac3enc.c  ac3enc\_fixed.c  ac3enc\_float.c  ac3enc.h  ac3enc\_opts\_template.c  ac3enc\_template.c  ac3.h  ac3\_parser.c  ac3\_parser.h  ac3\_parser\_internal.h  ac3tab.c  ac3tab.h  acelp\_filters.c  acelp\_filters.h  acelp\_pitch\_delay.c  acelp\_pitch\_delay.h  acelp\_vectors.c  acelp\_vectors.h  adpcm.c  adpcm\_data.c  adpcm\_data.h  adpcmenc.c  adpcm.h  adts\_header.c  adts\_header.h  adts\_parser.c  adts\_parser.h  adx.c  adxdec.c  adxenc.c  adx.h  adx\_parser.c  agm.c  aic.c  alac.c  alac\_data.c  alac\_data.h  alacdsp.c  alacdsp.h  alacenc.c  aliaspixdec.c  aliaspixenc.c  allcodecs.c  alsdec.c  amfenc.c  amfenc.h  amfenc\_h264.c  amfenc\_hevc.c  amr.h  amrnbdata.h  amrnbdec.c  amrwbdata.h  amrwbdec.c  anm.c  ansi.c  apedec.c  apng.h  aptx.c  aptxdec.c  aptxenc.c  aptx.h  arbc.c | ffmpeg-4.3/libavcodec |
| alldevices.c  alsa.c  alsa\_dec.c  alsa\_enc.c  alsa.h  android\_camera.c  avdevice.c  avdevice.h  avdeviceres.rc  avfoundation.m  bktr.c  caca.c  decklink\_common\_c.h  decklink\_common.cpp  decklink\_common.h  decklink\_dec\_c.c  decklink\_dec.cpp  decklink\_dec.h  decklink\_enc\_c.c  decklink\_enc.cpp  decklink\_enc.h  dshow.c  dshow\_capture.h  dshow\_common.c  dshow\_crossbar.c  dshow\_enummediatypes.c  dshow\_enumpins.c  dshow\_filter.c  dshow\_pin.c  fbdev\_common.c  fbdev\_common.h  fbdev\_dec.c  fbdev\_enc.c  file\_open.c  gdigrab.c  iec61883.c  internal.h  jack.c  kmsgrab.c  lavfi.c  libavdevice.v  libcdio.c  libdc1394.c  Makefile  openal-dec.c  opengl\_enc.c  opengl\_enc\_shaders.h  oss.c  oss\_dec.c  oss\_enc.c  oss.h  pulse\_audio\_common.c  pulse\_audio\_common.h  pulse\_audio\_dec.c  pulse\_audio\_enc.c  reverse.c  sdl2.c  sndio.c  sndio\_dec.c  sndio\_enc.c  sndio.h | ffmpeg-4.3/libavdevice |
| aeval.c  af\_acontrast.c  af\_acopy.c  af\_acrossover.c  af\_acrusher.c  af\_adeclick.c  af\_adelay.c  af\_aderivative.c  af\_aecho.c  af\_aemphasis.c  af\_afade.c  af\_afftdn.c  af\_afftfilt.c  af\_afir.c  af\_afir.h  af\_aformat.c  af\_agate.c  af\_aiir.c  af\_alimiter.c  af\_amerge.c  af\_amix.c  af\_amultiply.c  af\_anequalizer.c  af\_anlmdn.c  af\_anlmdndsp.h  af\_anlms.c  af\_anull.c  af\_apad.c  af\_aphaser.c  af\_apulsator.c  af\_aresample.c  af\_arnndn.c  af\_asetnsamples.c  af\_asetrate.c  af\_ashowinfo.c  af\_asoftclip.c  af\_asr.c  af\_astats.c  af\_asubboost.c  af\_atempo.c  af\_axcorrelate.c  af\_biquads.c  af\_bs2b.c  af\_channelmap.c  af\_channelsplit.c  af\_chorus.c  af\_compand.c  af\_compensationdelay.c  af\_crossfeed.c  af\_crystalizer.c  af\_dcshift.c  af\_deesser.c  af\_drmeter.c  af\_dynaudnorm.c  af\_earwax.c  af\_extrastereo.c  af\_firequalizer.c  af\_flanger.c  af\_haas.c  af\_hdcd.c  af\_headphone.c  af\_join.c  af\_ladspa.c  af\_loudnorm.c  af\_lv2.c  af\_mcompand.c  af\_pan.c  af\_replaygain.c  af\_resample.c  af\_rubberband.c  af\_sidechaincompress.c  af\_silencedetect.c  af\_silenceremove.c  af\_sofalizer.c  af\_stereotools.c  af\_stereowiden.c  af\_superequalizer.c  af\_surround.c  af\_tremolo.c  af\_vibrato.c  af\_volume.c  af\_volumedetect.c  af\_volume.h  allfilters.c  asink\_anullsink.c  asrc\_afirsrc.c  asrc\_anoisesrc.c  asrc\_anullsrc.c  asrc\_flite.c  asrc\_hilbert.c  asrc\_sinc.c  asrc\_sine.c  atadenoise.h  audio.c  audio.h  avf\_abitscope.c  avf\_ahistogram.c  avf\_aphasemeter.c  avf\_avectorscope.c  avf\_concat.c  avfilter.c  avfiltergraph.c  avfilter.h  avfilterres.rc  avf\_showcqt.c  avf\_showcqt.h  avf\_showfreqs.c  avf\_showspatial.c  avf\_showspectrum.c  avf\_showvolume.c  avf\_showwaves.c  bbox.c  bbox.h  blend.h  boxblur.c  boxblur.h  bufferqueue.h  buffersink.c  buffersink.h  buffersrc.c  buffersrc.h  bwdif.h  colorspace.c  colorspacedsp.c  colorspacedsp.h  colorspacedsp\_template.c  colorspacedsp\_yuv2yuv\_template.c  colorspace.h  convolution.h  deshake.h | ffmpeg-4.3/libavfilter |
| 3dostr.c  4xm.c  a64.c  aacdec.c  aadec.c  ac3dec.c  acm.c  act.c  adp.c  ads.c  adtsenc.c  adxdec.c  aea.c  afc.c  aiffdec.c  aiffenc.c  aiff.h  aixdec.c  allformats.c  alp.c  amr.c  anm.c  apc.c  ape.c  apetag.c  apetag.h  apm.c  apngdec.c  apngenc.c  aptxdec.c  aqtitledec.c  argo\_asf.c  asf.c  asfcrypt.c  asfcrypt.h  asfdec\_f.c  asfdec\_o.c  asfenc.c  asf.h  assdec.c  assenc.c  ast.c  astdec.c  astenc.c  ast.h  async.c  au.c  av1.c  av1dec.c  av1.h  avc.c  avc.h  avformat.h  avformatres.rc  avidec.c  avienc.c  avi.h  aviobuf.c  avio.c  avio.h  avio\_internal.h  avisynth.c  avlanguage.c  avlanguage.h  avr.c  avs.c  bethsoftvid.c  bfi.c  bink.c  bintext.c  bit.c  bluray.c  bmv.c  boadec.c  brstm.c  c93.c  cache.c  caf.c  cafdec.c  cafenc.c  caf.h  cavsvideodec.c  cdg.c  cdxl.c  chromaprint.c  cinedec.c  codec2.c  concat.c  concatdec.c  crcenc.c  crypto.c  cutils.c  dash.c  dashdec.c  dashenc.c  dash.h  data\_uri.c  dauddec.c  daudenc.c  davs2.c  dcstr.c  derf.c  dfa.c  dhav.c  diracdec.c  dnxhddec.c  dsfdec.c  dsicin.c  dss.c  dtsdec.c  dtshddec.c  dump.c  dvbsub.c  dvbtxt.c  dv.c  dvenc.c  dv.h  dxa.c  eacdata.c  electronicarts.c  epafdec.c  ffmetadec.c  ffmetaenc.c  ffmeta.h  fifo.c  fifo\_test.c  file.c  file\_open.c  filmstripdec.c  filmstripenc.c  fitsdec.c  fitsenc.c  flacdec.c  flacenc.c  flacenc.h  flacenc\_header.c  flac\_picture.c  flac\_picture.h  flic.c  flvdec.c  flvenc.c  flv.h  format.c  framecrcenc.c  framehash.c  frmdec.c  fsb.c  ftp.c  fwse.c  g722.c  g723\_1.c  g726.c  g729dec.c  gdv.c  genh.c  gif.c  gifdec.c  golomb\_tab.c  gopher.c  gsmdec.c  gxf.c  gxfenc.c  gxf.h  h261dec.c  h263dec.c  h264dec.c  hashenc.c  hca.c  hcom.c  hdsenc.c  hevc.c  hevcdec.c  hevc.h  hls.c  hlsenc.c  hlsplaylist.c  hlsplaylist.h  hlsproto.c  hnm.c  httpauth.c  httpauth.h  http.c  http.h  icecast.c  icodec.c  icoenc.c  id3v1.c  id3v1.h  id3v2.c  id3v2enc.c  id3v2.h  idcin.c  idroqdec.c  idroqenc.c  iff.c  ifv.c  ilbc.c  img2\_alias\_pix.c  img2\_brender\_pix.c  img2.c  img2dec.c  img2enc.c  img2.h  ingenientdec.c  internal.h  ip.c  ip.h  ipmovie.c  ircam.c  ircamdec.c  ircamenc.c  ircam.h  isom.c  isom.h  iss.c  iv8.c  ivfdec.c  ivfenc.c  jacosubdec.c  jacosubenc.c  jvdec.c  kvag.c  latmenc.c  libamqp.c  libavformat.v  libgme.c  libmodplug.c  libopenmpt.c  librtmp.c  libsmbclient.c  libsrt.c  libssh.c  libzmq.c  lmlm4.c  loasdec.c  log2\_tab.c  lrc.c  lrcdec.c  lrcenc.c  lrc.h  lvfdec.c  lxfdec.c  m4vdec.c  Makefile  matroska.c  matroskadec.c  matroskaenc.c  matroska.h  md5proto.c  metadata.c  metadata.h  mgsts.c  microdvddec.c  microdvdenc.c  mj2kdec.c  mkvtimestamp\_v2.c  mlpdec.c  mlvdec.c  mm.c  mmf.c  mms.c  mms.h  mmsh.c  mmst.c  mov.c  mov\_chan.c  mov\_chan.h  movenc.c  movenccenc.c  movenccenc.h  movenc.h  movenchint.c  mov\_esds.c  mp3dec.c  mp3enc.c  mpc8.c  mpc.c  mpeg.c  mpegenc.c  mpeg.h  mpegts.c  mpegtsenc.c  mpegts.h  mpegvideodec.c  mpjpeg.c  mpjpegdec.c  mpl2dec.c  mpsubdec.c  msf.c  msnwc\_tcp.c  mtaf.c  mtv.c  musx.c  mux.c  mvdec.c  mvi.c  mxf.c  mxfdec.c  mxfenc.c  mxf.h  mxg.c  ncdec.c  network.c  network.h  nistspheredec.c  nspdec.c  nsvdec.c  nullenc.c  nut.c  nutdec.c  nutenc.c  nut.h  nuv.c  oggdec.c  oggdec.h  oggenc.c  oggparsecelt.c  oggparsedirac.c  oggparseflac.c  oggparseogm.c  oggparseopus.c  oggparseskeleton.c  oggparsespeex.c  oggparsetheora.c  oggparsevorbis.c  oggparsevp8.c  oma.c  omadec.c  omaenc.c  oma.h  options.c  options\_table.h  os\_support.c  os\_support.h  paf.c  pcm.c  pcmdec.c  pcmenc.c  pcm.h  pjsdec.c  pmpdec.c  pp\_bnk.c  prompeg.c  protocols.c  psxstr.c  pva.c  pvfdec.c  qcp.c  qtpalette.c  qtpalette.h  r3d.c  rawdec.c  rawdec.h  rawenc.c  rawenc.h  rawutils.c  rawvideodec.c  rdt.c  rdt.h  realtextdec.c  redspark.c  replaygain.c  replaygain.h  riff.c  riffdec.c  riffenc.c  riff.h  rl2.c  rm.c  rmdec.c  rmenc.c  rm.h  rmsipr.c  rmsipr.h  rpl.c  rsd.c  rso.c  rsodec.c  rsoenc.c  rso.h  rtmpcrypt.c  rtmpcrypt.h  rtmpdh.c  rtmpdh.h  rtmpdigest.c  rtmp.h  rtmphttp.c  rtmppkt.c  rtmppkt.h  rtmpproto.c  rtp.c  rtpdec\_ac3.c  rtpdec\_amr.c  rtpdec\_asf.c  rtpdec.c  rtpdec\_dv.c  rtpdec\_formats.h  rtpdec\_g726.c  rtpdec.h  rtpdec\_h261.c  rtpdec\_h263.c  rtpdec\_h263\_rfc2190.c  rtpdec\_h264.c  rtpdec\_hevc.c  rtpdec\_ilbc.c  rtpdec\_jpeg.c  rtpdec\_latm.c  rtpdec\_mpa\_robust.c  rtpdec\_mpeg12.c  rtpdec\_mpeg4.c  rtpdec\_mpegts.c  rtpdec\_qcelp.c  rtpdec\_qdm2.c  rtpdec\_qt.c  rtpdec\_rfc4175.c  rtpdec\_svq3.c  rtpdec\_vc2hq.c  rtpdec\_vp8.c  rtpdec\_vp9.c  rtpdec\_xiph.c  rtpenc\_aac.c  rtpenc\_amr.c  rtpenc.c  rtpenc\_chain.c  rtpenc\_chain.h  rtpenc.h  rtpenc\_h261.c  rtpenc\_h263.c  rtpenc\_h263\_rfc2190.c  rtpenc\_h264\_hevc.c  rtpenc\_jpeg.c  rtpenc\_latm.c  rtpenc\_mpegts.c  rtpenc\_mpv.c  rtpenc\_vc2hq.c  rtpenc\_vp8.c  rtpenc\_vp9.c  rtpenc\_xiph.c  rtp.h  rtpproto.c  rtpproto.h  rtsp.c  rtspcodes.h  rtspdec.c  rtspenc.c  rtsp.h  s337m.c  samidec.c  sapdec.c  sapenc.c  sauce.c  sauce.h  sbcdec.c  sbgdec.c  sccdec.c  sccenc.c  sctp.c  sdp.c  sdr2.c  sdsdec.c  sdxdec.c  segafilm.c  segafilmenc.c  segment.c  serdec.c  shortendec.c  sierravmd.c  siff.c  smacker.c  smjpeg.c  smjpegdec.c  smjpegenc.c  smjpeg.h  smoothstreamingenc.c  smush.c  sol.c  soxdec.c  soxenc.c  sox.h  spdif.c  spdifdec.c  spdifenc.c  spdif.h  srtdec.c  srtenc.c  srtp.c  srtp.h  srtpproto.c  stldec.c  subfile.c  subtitles.c  subtitles.h  subviewer1dec.c  subviewerdec.c  supdec.c  supenc.c  svag.c  swf.c  swfdec.c  swfenc.c  swf.h  takdec.c  tcp.c  tedcaptionsdec.c  tee.c  tee\_common.c  tee\_common.h  teeproto.c | ffmpeg-4.3/libavformat |
| audio\_convert.c  audio\_convert.h  audio\_data.c  audio\_data.h  audio\_mix.c  audio\_mix.h  audio\_mix\_matrix.c  avresample.h  avresampleres.rc  dither.c  dither.h  internal.h  libavresample.v  Makefile  options.c  resample.c  resample.h  resample\_template.c | ffmpeg-4.3/libavresample |
| adler32.c  adler32.h  aes.c  aes\_ctr.c  aes\_ctr.h  aes.h  aes\_internal.h  attributes.h  audio\_fifo.c  audio\_fifo.h  avassert.h  avsscanf.c  avstring.c  avstring.h  avutil.h  avutilres.rc  base64.c  base64.h  blowfish.c  blowfish.h  bprint.c  bprint.h  bswap.h  buffer.c  buffer.h  buffer\_internal.h  camellia.c  camellia.h  cast5.c  cast5.h  channel\_layout.c  channel\_layout.h  colorspace.h  color\_utils.c  color\_utils.h  common.h  cpu.c  cpu.h  cpu\_internal.h  crc.c  crc.h  cuda\_check.h  des.c  des.h  dict.c  dict.h  display.c  display.h  dovi\_meta.c  dovi\_meta.h  downmix\_info.c  downmix\_info.h  dynarray.h  encryption\_info.c  encryption\_info.h  error.c  error.h  eval.c  eval.h  ffmath.h  fifo.c  fifo.h  file.c  file.h  file\_open.c  fixed\_dsp.c  fixed\_dsp.h  float\_dsp.c  float\_dsp.h  frame.c  frame.h  hash.c  hash.h  hdr\_dynamic\_metadata.c  hdr\_dynamic\_metadata.h  hmac.c  hmac.h  hwcontext.c  hwcontext\_cuda.c  hwcontext\_cuda.h  hwcontext\_cuda\_internal.h  hwcontext\_d3d11va.c  hwcontext\_d3d11va.h  hwcontext\_drm.c  hwcontext\_drm.h  hwcontext\_dxva2.c  hwcontext\_dxva2.h  hwcontext.h  hwcontext\_internal.h  hwcontext\_mediacodec.c  hwcontext\_mediacodec.h  hwcontext\_opencl.c  hwcontext\_opencl.h  hwcontext\_qsv.c  hwcontext\_qsv.h  hwcontext\_vaapi.c  hwcontext\_vaapi.h  hwcontext\_vdpau.c  hwcontext\_vdpau.h  hwcontext\_videotoolbox.c  hwcontext\_videotoolbox.h  hwcontext\_vulkan.c  hwcontext\_vulkan.h  imgutils.c  imgutils.h  imgutils\_internal.h  integer.c  integer.h  internal.h  intfloat.h  intmath.c  intmath.h  intreadwrite.h  lfg.c  lfg.h  libavutil.v  libm.h  lls.c  lls.h  log2\_tab.c  log.c  log.h  lzo.c  lzo.h | ffmpeg-4.3/libavutil |