

FFmpeg

Resource

-
- [release](#)
- [ffmpeg](#)
- <https://github.com/gabriel/ffmpeg-iphone-build>
- <https://github.com/yuvi/gas-preprocessor>
- <https://github.com/lajos/iFrameExtractor>
- <http://stackoverflow.com/questions/8323672/ffmpeg-for-ios5>
- [How to Build FFmpeg for Android](#)

configure

Usage: configure [options]

Options: [defaults in brackets after descriptions]

Standard options:

--help	print this message
--logfile=FILE	log tests and output to FILE [config.log]
--disable-logging	do not log configure debug information
--prefix=PREFIX	install in PREFIX []
--bindir=DIR	install binaries in DIR [PREFIX/bin]
--datadir=DIR	install data files in DIR [PREFIX/share/ffmpeg]
--libdir=DIR	install libs in DIR [PREFIX/lib]
--shlibdir=DIR	install shared libs in DIR [PREFIX/lib]
--incdir=DIR	install includes in DIR [PREFIX/include]
--mandir=DIR	install man page in DIR [PREFIX/share/man]

Configuration options:

--disable-static	do not build static libraries [no]
--enable-shared	build shared libraries [no]
--enable-gpl	allow use of GPL code, the resulting libs and binaries will be under GPL [no]
--enable-version3	upgrade (L)GPL to version 3 [no]
--enable-nonfree	allow use of nonfree code, the resulting libs and binaries will be unredistributable [no]
--disable-doc	do not build documentation
--disable-ffmpeg	disable ffmpeg build
--disable-ffplay	disable ffplay build
--disable-ffprobe	disable ffprobe build
--disable-ffserver	disable ffserver build

```

--disable-avdevice      disable libavdevice build
--disable-avcodec      disable libavcodec build
--disable-avformat     disable libavformat build
--disable-swresample   disable libswresample build
--disable-swscale      disable libswscale build
--disable-postproc     disable libpostproc build
--disable-avfilter     disable video filter support [no]
--disable-pthreads     disable pthreads [auto]
--disable-w32threads   disable Win32 threads [auto]
--disable-os2threads   disable OS/2 threads [auto]
--enable-x11grab       enable X11 grabbing [no]
--disable-network      disable network support [no]
--enable-gray          enable full grayscale support (slower color)
--disable-swscale-alpha disable alpha channel support in swscale
--disable-fastdiv      disable table-based division
--enable-small         optimize for size instead of speed
--disable-aandct       disable AAN DCT code
--disable-dct          disable DCT code
--disable-fft          disable FFT code
--disable-golomb       disable Golomb code
--disable-huffman      disable Huffman code
--disable-lpc          disable LPC code
--disable-mdct         disable MDCT code
--disable-rdft         disable RDFT code
--enable-vaapi         enable VAAPI code [autodetect]
--enable-vda           enable VDA code [autodetect]
--enable-udpau         enable VDPAU code [autodetect]
--disable-dxva2        disable DXVA2 code
--disable-vda          disable VDA code
--enable-runtime-cpudetect detect cpu capabilities at runtime (bigger
binary)
--enable-hardcoded-tables use hardcoded tables instead of runtime
generation
--disable-safe-bitstream-reader
                                disable buffer boundary checking in bitreaders
                                (faster, but may crash)
--enable-memalign-hack emulate memalign, interferes with memory debuggers
--disable-everything   disable all components listed below
--disable-encoder=NAME disable encoder NAME
--enable-encoder=NAME  enable encoder NAME
--disable-encoders     disable all encoders
--disable-decoder=NAME disable decoder NAME
--enable-decoder=NAME  enable decoder NAME
--disable-decoders     disable all decoders
--disable-hwaccel=NAME disable hwaccel NAME
--enable-hwaccel=NAME  enable hwaccel NAME
--disable-hwaccels     disable all hwaccels
--disable-muxer=NAME   disable muxer NAME
--enable-muxer=NAME    enable muxer NAME
--disable-muxers       disable all muxers
--disable-demuxer=NAME disable demuxer NAME

```

```

--enable-demuxer=NAME    enable demuxer NAME
--disable-demuxers      disable all demuxers
--enable-parser=NAME    enable parser NAME
--disable-parser=NAME   disable parser NAME
--disable-parsers      disable all parsers
--enable-bsf=NAME       enable bitstream filter NAME
--disable-bsf=NAME      disable bitstream filter NAME
--disable-bsfs         disable all bitstream filters
--enable-protocol=NAME  enable protocol NAME
--disable-protocol=NAME disable protocol NAME
--disable-protocols    disable all protocols
--disable-indev=NAME    disable input device NAME
--disable-outdev=NAME   disable output device NAME
--disable-indevs       disable input devices
--disable-outdevs      disable output devices
--disable-devices      disable all devices
--enable-filter=NAME    enable filter NAME
--disable-filter=NAME   disable filter NAME
--disable-filters      disable all filters
--list-decoders         show all available decoders
--list-encoders         show all available encoders
--list-hwaccels        show all available hardware accelerators
--list-muxers          show all available muxers
--list-demuxers        show all available demuxers
--list-parsers         show all available parsers
--list-protocols       show all available protocols
--list-bsfs            show all available bitstream filters
--list-indevs         show all available input devices
--list-outdevs        show all available output devices
--list-filters         show all available filters

```

External library support:

```

--enable-avisynth      enable reading of AVISynth script files [no]
--enable-bzlib         enable bzlib [autodetect]
--enable-frei0r        enable frei0r video filtering
--enable-gnutls        enable gnutls [no]
--enable-libaacplus    enable AAC+ encoding via libaacplus [no]
--enable-libass        enable libass subtitles rendering [no]
--enable-libcelt       enable CELT decoding via libcelt [no]
--enable-libopencore-amrnb enable AMR-NB de/encoding via libopencore-amrnb
[no]
--enable-libopencore-amrwb enable AMR-WB decoding via libopencore-amrwb [no]
--enable-libopencv     enable video filtering via libopencv [no]
--enable-libcdio       enable audio CD grabbing with libcdio
--enable-libdc1394     enable IIDC-1394 grabbing using libdc1394
and libraw1394 [no]
--enable-libdirac      enable Dirac support via libdirac [no]
--enable-libfaac       enable FAAC support via libfaac [no]
--enable-libfreetype   enable libfreetype [no]
--enable-libgsm        enable GSM support via libgsm [no]
--enable-libmodplug    enable ModPlug via libmodplug [no]

```

```

--enable-libmp3lame      enable MP3 encoding via libmp3lame [no]
--enable-libnut          enable NUT (de)muxing via libnut,
                        native (de)muxer exists [no]
--enable-libopenjpeg    enable JPEG 2000 encoding/decoding via OpenJPEG
[no]
--enable-libpulse       enable Pulseaudio input via libpulse [no]
--enable-librtmp        enable RTMP[E] support via librtmp [no]
--enable-libschroedinger enable Dirac support via libschrödinger [no]
--enable-libspeex       enable Speex support via libspeex [no]
--enable-libstagefright-h264 enable H.264 decoding via libstagefright [no]
--enable-libtheora      enable Theora encoding via libtheora [no]
--enable-libutvideo     enable Ut Video decoding via libutvideo [no]
--enable-libv4l2        enable libv4l2/v4l-utils [no]
--enable-libvo-aacenc   enable AAC encoding via libvo-aacenc [no]
--enable-libvo-amrwbenc enable AMR-WB encoding via libvo-amrwbenc [no]
--enable-libvorbis      enable Vorbis encoding via libvorbis,
                        native implementation exists [no]
--enable-libvpx         enable VP8 support via libvpx [no]
--enable-libx264        enable H.264 encoding via x264 [no]
--enable-libxavs        enable AVS encoding via xavs [no]
--enable-libxvid        enable Xvid encoding via xvidcore,
                        native MPEG-4/Xvid encoder exists [no]
--enable-openal         enable OpenAL 1.1 capture support [no]
--enable-mlib           enable Sun medialib [no]
--enable-openssl        enable openssl [no]
--enable-zlib           enable zlib [autodetect]

```

Advanced options (experts only):

```

--cross-prefix=PREFIX  use PREFIX for compilation tools []
--enable-cross-compile assume a cross-compiler is used
--sysroot=PATH         root of cross-build tree
--sysinclude=PATH      location of cross-build system headers
--target-os=OS         compiler targets OS []
--target-exec=CMD      command to run executables on target
--target-path=DIR      path to view of build directory on target
--nm=NM                use nm tool NM [nm]
--ar=AR                use archive tool AR [ar]
--as=AS                use assembler AS []
--yasmexe=EXE          use yasm-compatible assembler EXE [yasm]
--cc=CC                use C compiler CC [gcc]
--cxx=CXX              use C compiler CXX [g++]
--ld=LD                use linker LD []
--host-cc=HOSTCC       use host C compiler HOSTCC
--host-cflags=HCFLAGS  use HCFLAGS when compiling for host
--host-ldflags=HLDFLAGS use HLDFLAGS when linking for host
--host-libs=HLIBS      use libs HLIBS when linking for host
--extra-cflags=ECFLAGS add ECFLAGS to CFLAGS []
--extra-cxxflags=ECFLAGS add ECFLAGS to CXXFLAGS []
--extra-ldflags=ELDFLAGS add ELDFLAGS to LDFLAGS []
--extra-libs=ELIBS     add ELIBS []
--extra-version=STRING version string suffix []

```

--build-suffix=SUFFIX	library name suffix []
--progs-suffix=SUFFIX	program name suffix []
--arch=ARCH	select architecture []
--cpu=CPU	select the minimum required CPU (affects instruction selection, may crash on older CPUs)
--disable-asm	disable all assembler optimizations
--disable-altivec	disable AltiVec optimizations
--disable-amd3dnow	disable 3DNow! optimizations
--disable-amd3dnowext	disable 3DNow! extended optimizations
--disable-mmx	disable MMX optimizations
--disable-mmx2	disable MMX2 optimizations
--disable-sse	disable SSE optimizations
--disable-ssse3	disable SSSE3 optimizations
--disable-avx	disable AVX optimizations
--disable-armv5te	disable armv5te optimizations
--disable-armv6	disable armv6 optimizations
--disable-armv6t2	disable armv6t2 optimizations
--disable-armvfp	disable ARM VFP optimizations
--disable-iwmmxt	disable iwmmxt optimizations
--disable-mmi	disable MMI optimizations
--disable-neon	disable NEON optimizations
--disable-vis	disable VIS optimizations
--disable-yasm	disable use of yasm assembler
--enable-pic	build position-independent code
--malloc-prefix=PREFIX	prefix malloc and related names with PREFIX
--enable-sram	allow use of on-chip SRAM
--disable-symver	disable symbol versioning
--optflags	override optimization-related compiler flags
--postproc-version=V	build libpostproc version V. Where V can be '51.2.101' or 'current'. [current]

Developer options (useful when working on FFmpeg itself):

--enable-coverage	build with test coverage instrumentation
--disable-debug	disable debugging symbols
--enable-debug=LEVEL	set the debug level []
--disable-optimizations	disable compiler optimizations
--enable-extra-warnings	enable more compiler warnings
--disable-stripping	disable stripping of executables and shared libraries
--valgrind=VALGRIND	run "make fate" tests through valgrind to detect memory leaks and errors, using the specified valgrind binary.
--samples=PATH	Cannot be combined with --target-exec location of test samples for FATE, if not set use \$FATE_SAMPLES at make invocation time.

NOTE: Object files are built at the place where configure is launched.

Mac 上 iOS 编译选项

在 shell 中编译 ffmpeg 编译选项 ARM6,ARM7 和 i386 编译选项

```
export ARM_DEVR00T=/Applications/Xcode.app/Contents/Developer/Platforms/  
iPhoneOS.platform/Developer
```

```
export I386_DEVR00T=/Applications/Xcode.app/Contents/Developer/Platforms/  
iPhoneSimulator.platform/Developer
```

```
export ARM_CC=${ARM_DEVR00T}/usr/bin/llvm-gcc-4.2
```

```
export I386_CC=${I386_DEVR00T}/usr/bin/llvm-gcc-4.2
```

```
export ARM_SYSROOT=${ARM_DEVR00T}/SDKs/iPhoneOS5.1.sdk
```

```
export I386_SYSROOT=${I386_DEVR00T}/SDKs/iPhoneSimulator5.1.sdk
```

```
export ARM_LD=${ARM_DEVR00T}/SDKs/iPhoneOS5.1.sdk/usr/lib/system
```

```
export I386_LD=${I386_DEVR00T}/SDKs/iPhoneSimulator5.1.sdk/usr/lib/system
```

```
# configure for armv7 build
```

```
echo "Building armv7..."
```

```
./configure \  
    --cc=${ARM_CC} \  
    --as='gas-preprocessor.pl ${ARM_CC}' \  
    --sysroot=${ARM_SYSROOT} \  
    --extra-ldflags=-L${ARM_LD} \  
    --target-os=darwin \  
    --arch=arm \  
    --cpu=cortex-a8 \  
    --prefix=compiled/armv7 \  
    --extra-cflags='-arch armv7' \  
    --extra-ldflags='-arch armv7' \  
    --enable-cross-compile \  
    --disable-asm \  
    --disable-armv5te \  
    --disable-ffmpeg \  
    --disable-ffplay \  
    --disable-ffserver \  
    --disable-ffprobe \  
    --disable-network \  
    --disable-decoders \  
    --disable-muxers \  
    --disable-demuxers \  
    --disable-devices \  
    --disable-parsers \  
    --disable-encoders \  
    --disable-protocols \  
    --disable-filters \  
    --disable-bsfs \  
    --enable-decoder=h264 \  
    --enable-decoder=svq3 \  
    \
```

```
--enable-gpl \  
--enable-pic \  
--disable-doc
```

```
# build for armv7  
make clean  
make && make install
```

```
# configure for armv6 build  
echo "Building armv6..."  
./configure \  
  --cc=${ARM_CC} \  
  --as='gas-preprocessor.pl ${ARM_CC}' \  
  --sysroot=${ARM_SYSRoot} \  
  --extra-ldflags=-L${ARM_LD} \  
  --target-os=darwin \  
  --arch=arm \  
  --cpu=arm1176jzf-s \  
  --prefix=compiled/armv6 \  
  --extra-cflags='-arch armv6' \  
  --extra-ldflags='-arch armv6' \  
  --enable-cross-compile \  
  --disable-asm \  
  --disable-armv5te \  
  --disable-ffmpeg \  
  --disable-ffplay \  
  --disable-ffserver \  
  --disable-ffprobe \  
  --disable-network \  
  --disable-decoders \  
  --disable-muxers \  
  --disable-demuxers \  
  --disable-devices \  
  --disable-parsers \  
  --disable-encoders \  
  --disable-protocols \  
  --disable-filters \  
  --disable-bsfs \  
  --enable-decoder=h264 \  
  --enable-decoder=svq3 \  
  --enable-gpl \  
  --enable-pic \  
  --disable-doc
```

```
# build for armv6  
make clean  
make && make install
```

```
# configure for i386 build
```

```

echo "Building i386..."
./configure \
    --cc=${I386_CC} \
    --as='gas-preprocessor.pl ${I386_CC}' \
    --sysroot=${I386_SYSROOT} \
    --extra-ldflags=-L${I386_LD} \
    --target-os=darwin \
    --arch=i386 \
    --cpu=i386 \
    --prefix=compiled/i386 \
    --extra-cflags='-arch i386' \
    --extra-ldflags='-arch i386' \
    --enable-cross-compile \
    --disable-asm \
    --disable-armv5te \
    --disable-ffmpeg \
    --disable-ffplay \
    --disable-ffserver \
    --disable-ffprobe \
    --disable-network \
    --disable-decoders \
    --disable-muxers \
    --disable-demuxers \
    --disable-devices \
    --disable-parsers \
    --disable-encoders \
    --disable-protocols \
    --disable-filters \
    --disable-bsfs \
    --enable-decoder=h264 \
    --enable-decoder=svq3 \
    --enable-gpl \
    --enable-pic \
    --disable-doc

# build for i386
make clean
make && make install

# make fat (universal) libs
mkdir -p ./compiled/fat/lib

FFMPEG_LIBS="libavcodec libavdevice libavfilter libavformat libavutil
libpostproc libswresample libswscale"
for i in ${FFMPEG_LIBS}; do lipo -create ./compiled/armv6/lib/${i}.a ./compiled
/armv7/lib/${i}.a ./compiled/i386/lib/${i}.a -output ./compiled/fat/lib/${i}.a;
done

```

- <https://github.com/yuvi/gas-preprocessor>
- gas-preprocessor.pl <https://github.com/yuvi/gas-preprocessor>

- `arm-apple-darwin10-llvm-gcc-4.2` `ARM` `-arch armv7`
- `i686-apple-darwin10-llvm-gcc-4.2` `i386` `-arch` `llvm-gcc-4.2`
- `-cc` `-extra-cflags`
- `-disable-asm` `"error: invalid operand in inline asm: 'adds $1, ${2:R}, ${2:Q}, lsr #31'"`
- `configure` `config.log`

Mac `Android`

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