Usage: configure [options]

Options: [defaults in brackets after descriptions]

Help options:

--help print this message

--list-decoders show all available decoders

--list-encoders show all available encoders

--list-hwaccels show all available hardware accelerators

--list-demuxers show all available demuxers

--list-muxers show all available muxers

--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

Standard options:

--logfile=FILE log tests and output to FILE [config.log]

--disable-logging do not log configure debug information

--fatal-warnings fail if any configure warning is generated

--prefix=PREFIX install in PREFIX []

--bindir=DIR install binaries in DIR [PREFIX/bin]

--datadir=DIR install data files in DIR [PREFIX/share/ffmpeg]

--docdir=DIR install documentation in DIR [PREFIX/share/doc/ffmpeg]

--libdir=DIR install libs in DIR [PREFIX/lib]

--shlibdir=DIR install shared libs in DIR [LIBDIR]

--incdir=DIR install includes in DIR [PREFIX/include]

--mandir=DIR install man page in DIR [PREFIX/share/man]

--pkgconfigdir=DIR install pkg-config files in DIR [LIBDIR/pkgconfig]

--enable-rpath use rpath to allow installing libraries in paths

not part of the dynamic linker search path

use rpath when linking programs [USE WITH CARE]

Licensing options:

--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]

Configuration options:

--disable-static do not build static libraries [no]

--enable-shared build shared libraries [no]

--enable-small optimize for size instead of speed

--disable-runtime-cpudetect disable detecting cpu capabilities at runtime (smaller binary)

--enable-gray enable full grayscale support (slower color)

--disable-swscale-alpha disable alpha channel support in swscale

--disable-all disable building components, libraries and programs

--enable-incompatible-libav-abi enable incompatible Libav fork ABI [no]

--enable-raise-major increase major version numbers in sonames [no]

Program options:

--disable-programs do not build command line programs

--disable-ffmpeg disable ffmpeg build

--disable-ffplay disable ffplay build

--disable-ffprobe disable ffprobe build

--disable-ffserver disable ffserver build

Documentation options:

--disable-doc do not build documentation

--disable-htmlpages do not build HTML documentation pages

--disable-manpages do not build man documentation pages

--disable-podpages do not build POD documentation pages

--disable-txtpages do not build text documentation pages

Component options:

--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 libavfilter build

--enable-avresample enable libavresample build [no]

--disable-pthreads disable pthreads [autodetect]

--disable-w32threads disable Win32 threads [autodetect]

--disable-os2threads disable OS/2 threads [autodetect]

--disable-network disable network support [no]

--disable-dct disable DCT code

--disable-dwt disable DWT code

--disable-error-resilience disable error resilience code

--disable-lsp disable LSP code

--disable-lzo disable LZO decoder code

--disable-mdct disable MDCT code

--disable-rdft disable RDFT code

--disable-fft disable FFT code

--disable-faan disable floating point AAN (I)DCT code

--disable-pixelutils disable pixel utils in libavutil

Hardware accelerators:

--disable-d3d11va disable D3D11VA code [autodetect]

--disable-dxva2 disable DXVA2 code [autodetect]

--disable-vaapi disable VAAPI code [autodetect]

--disable-vda disable VDA code [autodetect]

--disable-vdpau disable VDPAU code [autodetect]

--enable-videotoolbox enable VideoToolbox code [autodetect]

Individual component options:

--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

--enable-indev=NAME enable input device NAME

--disable-indev=NAME disable input device NAME

--disable-indevs disable input devices

--enable-outdev=NAME enable output device NAME

--disable-outdev=NAME disable output device NAME

--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

External library support:

--enable-avisynth enable reading of AviSynth script files [no]

--disable-bzlib disable bzlib [autodetect]

--enable-chromaprint enable audio fingerprinting with chromaprint [no]

--enable-fontconfig enable fontconfig, useful for drawtext filter [no]

--enable-frei0r enable frei0r video filtering [no]

--enable-gcrypt enable gcrypt, needed for rtmp(t)e support

if openssl, librtmp or gmp is not used [no]

--enable-gmp enable gmp, needed for rtmp(t)e support

if openssl or librtmp is not used [no]

--enable-gnutls enable gnutls, needed for https support

if openssl is not used [no]

--disable-iconv disable iconv [autodetect]

--enable-ladspa enable LADSPA audio filtering [no]

--enable-libass enable libass subtitles rendering,

needed for subtitles and ass filter [no]

--enable-libbluray enable BluRay reading using libbluray [no]

--enable-libbs2b enable bs2b DSP library [no]

--enable-libcaca enable textual display using libcaca [no]

--enable-libcelt enable CELT decoding via libcelt [no]

--enable-libcdio enable audio CD grabbing with libcdio [no]

--enable-libdc1394 enable IIDC-1394 grabbing using libdc1394

and libraw1394 [no]

--enable-libdcadec enable DCA decoding via libdcadec [no]

--enable-libfaac enable AAC encoding via libfaac [no]

--enable-libfdk-aac enable AAC de/encoding via libfdk-aac [no]

--enable-libflite enable flite (voice synthesis) support via libflite [no]

--enable-libfreetype enable libfreetype, needed for drawtext filter [no]

--enable-libfribidi enable libfribidi, improves drawtext filter [no]

--enable-libgme enable Game Music Emu via libgme [no]

--enable-libgsm enable GSM de/encoding via libgsm [no]

--enable-libiec61883 enable iec61883 via libiec61883 [no]

--enable-libilbc enable iLBC de/encoding via libilbc [no]

--enable-libkvazaar enable HEVC encoding via libkvazaar [no]

--enable-libmfx enable HW acceleration through libmfx

--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-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-libopenh264 enable H.264 encoding via OpenH264 [no]

--enable-libopenjpeg enable JPEG 2000 de/encoding via OpenJPEG [no]

--enable-libopus enable Opus de/encoding via libopus [no]

--enable-libpulse enable Pulseaudio input via libpulse [no]

--enable-librubberband enable rubberband needed for rubberband filter [no]

--enable-librtmp enable RTMP[E] support via librtmp [no]

--enable-libschroedinger enable Dirac de/encoding via libschroedinger [no]

--enable-libshine enable fixed-point MP3 encoding via libshine [no]

--enable-libsmbclient enable Samba protocol via libsmbclient [no]

--enable-libsnappy enable Snappy compression, needed for hap encoding [no]

--enable-libsoxr enable Include libsoxr resampling [no]

--enable-libspeex enable Speex de/encoding via libspeex [no]

--enable-libssh enable SFTP protocol via libssh [no]

--enable-libtesseract enable Tesseract, needed for ocr filter [no]

--enable-libtheora enable Theora encoding via libtheora [no]

--enable-libtwolame enable MP2 encoding via libtwolame [no]

--enable-libutvideo enable Ut Video encoding and decoding via libutvideo [no]

--enable-libv4l2 enable libv4l2/v4l-utils [no]

--enable-libvidstab enable video stabilization using vid.stab [no]

--enable-libvo-amrwbenc enable AMR-WB encoding via libvo-amrwbenc [no]

--enable-libvorbis enable Vorbis en/decoding via libvorbis,

native implementation exists [no]

--enable-libvpx enable VP8 and VP9 de/encoding via libvpx [no]

--enable-libwavpack enable wavpack encoding via libwavpack [no]

--enable-libwebp enable WebP encoding via libwebp [no]

--enable-libx264 enable H.264 encoding via x264 [no]

--enable-libx265 enable HEVC encoding via x265 [no]

--enable-libxavs enable AVS encoding via xavs [no]

--enable-libxcb enable X11 grabbing using XCB [autodetect]

--enable-libxcb-shm enable X11 grabbing shm communication [autodetect]

--enable-libxcb-xfixes enable X11 grabbing mouse rendering [autodetect]

--enable-libxcb-shape enable X11 grabbing shape rendering [autodetect]

--enable-libxvid enable Xvid encoding via xvidcore,

native MPEG-4/Xvid encoder exists [no]

--enable-libzimg enable z.lib, needed for zscale filter [no]

--enable-libzmq enable message passing via libzmq [no]

--enable-libzvbi enable teletext support via libzvbi [no]

--disable-lzma disable lzma [autodetect]

--enable-decklink enable Blackmagic DeckLink I/O support [no]

--enable-mmal enable decoding via MMAL [no]

--enable-netcdf enable NetCDF, needed for sofalizer filter [no]

--enable-nvenc enable NVIDIA NVENC support [no]

--enable-openal enable OpenAL 1.1 capture support [no]

--enable-opencl enable OpenCL code

--enable-opengl enable OpenGL rendering [no]

--enable-openssl enable openssl, needed for https support

if gnutls is not used [no]

--disable-schannel disable SChannel SSP, needed for TLS support on

Windows if openssl and gnutls are not used [autodetect]

--disable-sdl disable sdl [autodetect]

--disable-securetransport disable Secure Transport, needed for TLS support

on OSX if openssl and gnutls are not used [autodetect]

--enable-x11grab enable X11 grabbing (legacy) [no]

--disable-xlib disable xlib [autodetect]

--disable-zlib disable zlib [autodetect]

Toolchain options:

--arch=ARCH select architecture []

--cpu=CPU select the minimum required CPU (affects

instruction selection, may crash on older CPUs)

--cross-prefix=PREFIX use PREFIX for compilation tools []

--progs-suffix=SUFFIX program name suffix []

--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

--target-samples=DIR path to samples directory on target

--tempprefix=PATH force fixed dir/prefix instead of mktemp for checks

--toolchain=NAME set tool defaults according to NAME

--nm=NM use nm tool NM [nm -g]

--ar=AR use archive tool AR [ar]

--as=AS use assembler AS []

--windres=WINDRES use windows resource compiler WINDRES [windres]

--yasmexe=EXE use yasm-compatible assembler EXE [yasm]

--cc=CC use C compiler CC [gcc]

--cxx=CXX use C compiler CXX [g++]

--objcc=OCC use ObjC compiler OCC [gcc]

--dep-cc=DEPCC use dependency generator DEPCC [gcc]

--ld=LD use linker LD []

--pkg-config=PKGCONFIG use pkg-config tool PKGCONFIG [pkg-config]

--pkg-config-flags=FLAGS pass additional flags to pkgconf []

--ranlib=RANLIB use ranlib RANLIB [ranlib]

--doxygen=DOXYGEN use DOXYGEN to generate API doc [doxygen]

--host-cc=HOSTCC use host C compiler HOSTCC

--host-cflags=HCFLAGS use HCFLAGS when compiling for host

--host-cppflags=HCPPFLAGS use HCPPFLAGS when compiling for host

--host-ld=HOSTLD use host linker HOSTLD

--host-ldflags=HLDFLAGS use HLDFLAGS when linking for host

--host-libs=HLIBS use libs HLIBS when linking for host

--host-os=OS compiler host OS []

--extra-cflags=ECFLAGS add ECFLAGS to CFLAGS []

--extra-cxxflags=ECFLAGS add ECFLAGS to CXXFLAGS []

--extra-objcflags=FLAGS add FLAGS to OBJCFLAGS []

--extra-ldflags=ELDFLAGS add ELDFLAGS to LDFLAGS []

--extra-ldexeflags=ELDFLAGS add ELDFLAGS to LDEXEFLAGS []

--extra-ldlibflags=ELDFLAGS add ELDFLAGS to LDLIBFLAGS []

--extra-libs=ELIBS add ELIBS []

--extra-version=STRING version string suffix []

--optflags=OPTFLAGS override optimization-related compiler flags

--build-suffix=SUFFIX library name suffix []

--enable-pic build position-independent code

--enable-thumb compile for Thumb instruction set

--enable-lto use link-time optimization

--env="ENV=override" override the environment variables

Advanced options (experts only):

--malloc-prefix=PREFIX prefix malloc and related names with PREFIX

--custom-allocator=NAME use a supported custom allocator

--disable-symver disable symbol versioning

--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

--sws-max-filter-size=N the max filter size swscale uses [256]

Optimization options (experts only):

--disable-asm disable all assembly optimizations

--disable-altivec disable AltiVec optimizations

--disable-vsx disable VSX optimizations

--disable-power8 disable POWER8 optimizations

--disable-amd3dnow disable 3DNow! optimizations

--disable-amd3dnowext disable 3DNow! extended optimizations

--disable-mmx disable MMX optimizations

--disable-mmxext disable MMXEXT optimizations

--disable-sse disable SSE optimizations

--disable-sse2 disable SSE2 optimizations

--disable-sse3 disable SSE3 optimizations

--disable-ssse3 disable SSSE3 optimizations

--disable-sse4 disable SSE4 optimizations

--disable-sse42 disable SSE4.2 optimizations

--disable-avx disable AVX optimizations

--disable-xop disable XOP optimizations

--disable-fma3 disable FMA3 optimizations

--disable-fma4 disable FMA4 optimizations

--disable-avx2 disable AVX2 optimizations

--disable-aesni disable AESNI optimizations

--disable-armv5te disable armv5te optimizations

--disable-armv6 disable armv6 optimizations

--disable-armv6t2 disable armv6t2 optimizations

--disable-vfp disable VFP optimizations

--disable-neon disable NEON optimizations

--disable-inline-asm disable use of inline assembly

--disable-yasm disable use of nasm/yasm assembly

--disable-mipsdsp disable MIPS DSP ASE R1 optimizations

--disable-mipsdspr2 disable MIPS DSP ASE R2 optimizations

--disable-msa disable MSA optimizations

--disable-mipsfpu disable floating point MIPS optimizations

--disable-mmi disable Loongson SIMD optimizations

--disable-fast-unaligned consider unaligned accesses slow

Developer options (useful when working on FFmpeg itself):

--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

--assert-level=level 0(default), 1 or 2, amount of assertion testing,

2 causes a slowdown at runtime.

--enable-memory-poisoning fill heap uninitialized allocated space with arbitrary data

--valgrind=VALGRIND run "make fate" tests through valgrind to detect memory

leaks and errors, using the specified valgrind binary.

Cannot be combined with --target-exec

--enable-ftrapv Trap arithmetic overflows

--samples=PATH location of test samples for FATE, if not set use

$FATE\_SAMPLES at make invocation time.

--enable-neon-clobber-test check NEON registers for clobbering (should be

used only for debugging purposes)

--enable-xmm-clobber-test check XMM registers for clobbering (Win64-only;

should be used only for debugging purposes)

--enable-random randomly enable/disable components

--disable-random

--enable-random=LIST randomly enable/disable specific components or

--disable-random=LIST component groups. LIST is a comma-separated list

of NAME[:PROB] entries where NAME is a component

(group) and PROB the probability associated with

NAME (default 0.5).

--random-seed=VALUE seed value for --enable/disable-random

--disable-valgrind-backtrace do not print a backtrace under Valgrind

(only applies to --disable-optimizations builds)

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