

AUTOCONF

NAME

autoconf – Generate configuration scripts

SYNOPSIS

autoconf [*OPTION*]... [*TEMPLATE-FILE*]

DESCRIPTION

Generate a configuration script from a *TEMPLATE-FILE* if given, or ‘configure.ac’ if present, or else ‘configure.in’. Output is sent to the standard output if *TEMPLATE-FILE* is given, else into ‘configure’.

Operation modes:

- h, --help**
print this help, then exit
- V, --version**
print version number, then exit
- v, --verbose**
verbosely report processing
- d, --debug**
don't remove temporary files
- f, --force**
consider all files obsolete
- o, --output=FILE**
save output in FILE (stdout is the default)
- W, --warnings=CATEGORY**
report the warnings falling in CATEGORY [syntax]

Warning categories include:

- ‘cross’ cross compilation issues
 - ‘obsolete’
obsolete constructs
 - ‘syntax’
dubious syntactic constructs
 - ‘all’ all the warnings
 - ‘no-CATEGORY’
turn off the warnings on CATEGORY
 - ‘none’ turn off all the warnings
 - ‘error’ warnings are error
- The environment variables ‘M4’ and ‘WARNINGS’ are honored.

Library directories:

- B, --prepend-include=DIR**
prepend directory DIR to search path
- I, --include=DIR**
append directory DIR to search path

Tracing:

- t, --trace=MACRO[:FORMAT]**
report the list of calls to MACRO
- i, --initialization**
also trace Autoconf's initialization process

In tracing mode, no configuration script is created. *FORMAT* defaults to ‘\$f:\$l:\$n:\$%’; see ‘autom4te --help’ for information about *FORMAT*.

AUTHOR

Written by David J. MacKenzie and Akim Demaille.

REPORTING BUGS

Report bugs to <bug-autoconf@gnu.org>.

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SEE ALSO

autoconf(1), **automake**(1), **autoreconf**(1), **autoupdate**(1), **autoheader**(1), **autoscan**(1), **config.guess**(1), **config.sub**(1), **ifnames**(1), **libtool**(1).

The full documentation for **autoconf** is maintained as a Texinfo manual. If the **info** and **autoconf** programs are properly installed at your site, the command

info autoconf

should give you access to the complete manual.

AUTOHEADER

NAME

autoheader – Create a template header for configure

SYNOPSIS

autoheader [*OPTION*]... [*TEMPLATE-FILE*]

DESCRIPTION

Create a template file of C ‘#define’ statements for ‘configure’ to use. To this end, scan *TEMPLATE-FILE*, or ‘configure.ac’ if present, or else ‘configure.in’.

-h, --help

print this help, then exit

-V, --version

print version number, then exit

-v, --verbose

verbosely report processing

-d, --debug

don’t remove temporary files

-f, --force

consider all files obsolete

-W, --warnings=*CATEGORY*

report the warnings falling in *CATEGORY*

Warning categories include:

‘cross’ cross compilation issues

‘gnu’ GNU coding standards (default in gnu and gnits modes)

‘obsolete’

obsolete features or constructions

‘override’

user redefinitions of Automake rules or variables

‘portability’

portability issues (default in gnu and gnits modes)

‘syntax’

dubious syntactic constructs (default)

‘unsupported’

unsupported or incomplete features (default)

‘all’ all the warnings

‘no-*CATEGORY*’

turn off warnings in *CATEGORY*

‘none’ turn off all the warnings

‘error’ treat warnings as errors

Library directories:

-B, --prepend-include=*DIR*

prepend directory *DIR* to search path

-I, --include=*DIR*

append directory *DIR* to search path

AUTHOR

Written by Roland McGrath and Akim Demaille.

REPORTING BUGS

Report bugs to <bug-autoconf@gnu.org>.

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SEE ALSO

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info autoheader

should give you access to the complete manual.

AUTOM4TE

NAME

autom4te – Generate files and scripts thanks to M4

SYNOPSIS

autom4te [*OPTION*]... [*FILES*]

DESCRIPTION

Run GNU M4 on the *FILES*, avoiding useless runs. Output the traces if tracing, the frozen file if freezing, otherwise the expansion of the *FILES*.

If some of the *FILES* are named ‘FILE.m4f’ they are considered to be M4 frozen files of all the previous files (which are therefore not loaded). If ‘FILE.m4f’ is not found, then ‘FILE.m4’ will be used, together with all the previous files.

Some files may be optional, i.e., will only be processed if found in the include path, but then must end in ‘.m4?’; the question mark is not part of the actual file name.

Operation modes:

- h, --help**
print this help, then exit
- V, --version**
print version number, then exit
- v, --verbose**
verbosely report processing
- d, --debug**
don’t remove temporary files
- o, --output=FILE**
save output in FILE (defaults to ‘-’, stdout)
- f, --force**
don’t rely on cached values
- W, --warnings=CATEGORY**
report the warnings falling in CATEGORY
- l, --language=LANG**
specify the set of M4 macros to use
- C, --cache=DIRECTORY**
preserve results for future runs in DIRECTORY
- no-cache**
disable the cache
- m, --mode=OCTAL**
change the non trace output file mode (0666)
- M, --melt**
don’t use M4 frozen files

Languages include:

- ‘Autoconf’
create Autoconf configure scripts
- ‘Autotest’
create Autotest test suites
- ‘M4sh’ create M4sh shell scripts
- ‘M4sugar’
create M4sugar output

Warning categories include:

- ‘cross’ cross compilation issues

‘gnu’ GNU coding standards (default in gnu and gnits modes)

‘obsolete’
obsolete features or constructions

‘override’
user redefinitions of Automake rules or variables

‘portability’
portability issues (default in gnu and gnits modes)

‘syntax’
dubious syntactic constructs (default)

‘unsupported’
unsupported or incomplete features (default)

‘all’ all the warnings

‘no-CATEGORY’
turn off warnings in CATEGORY

‘none’ turn off all the warnings

‘error’ treat warnings as errors

The environment variables ‘M4’ and ‘WARNINGS’ are honored.

Library directories:

-B, --prepend-include=DIR
prepend directory DIR to search path

-I, --include=DIR
append directory DIR to search path

Tracing:

-t, --trace=MACRO[:FORMAT]
report the MACRO invocations

-p, --preselect=MACRO
prepare to trace MACRO in a future run

Freezing:

-F, --freeze
produce an M4 frozen state file for FILES

FORMAT defaults to ‘\$f:\$l:\$n:\$%’, and can use the following escapes:

\$\$ literal \$

\$f file where macro was called

\$l line where macro was called

\$d nesting depth of macro call

\$n name of the macro

\$NUM argument NUM, unquoted and with newlines

\$SEP@
all arguments, with newlines, quoted, and separated by SEP

\$SEP* all arguments, with newlines, unquoted, and separated by SEP

\$SEP% all arguments, without newlines, unquoted, and separated by SEP

SEP can be empty for the default (comma for @ and *, colon for %), a single character for that character, or {STRING} to use a string.

AUTHOR

Written by Akim Demaille.

REPORTING BUGS

Report bugs to <bug-autoconf@gnu.org>.

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SEE ALSO

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The full documentation for **autom4te** is maintained as a Texinfo manual. If the **info** and **autom4te** programs are properly installed at your site, the command

info autom4te

should give you access to the complete manual.

AUTORECONF

NAME

autoreconf – Update generated configuration files

SYNOPSIS

autoreconf [*OPTION*]... [*DIRECTORY*]...

DESCRIPTION

Run ‘autoconf’ (and ‘autoheader’, ‘aclocal’, ‘automake’, ‘autopoint’ (formerly ‘gettextize’), and ‘libtoolize’ where appropriate) repeatedly to remake the GNU Build System files in specified DIRECTORIES and their subdirectories (defaulting to ‘.’).

By default, it only remakes those files that are older than their sources. If you install new versions of the GNU Build System, you can make ‘autoreconf’ remake all of the files by giving it the ‘—force’ option.

Operation modes:

- h, --help**
print this help, then exit
- V, --version**
print version number, then exit
- v, --verbose**
verbosely report processing
- d, --debug**
don't remove temporary files
- f, --force**
consider all files obsolete
- i, --install**
copy missing auxiliary files
- no-recursive**
don't rebuild sub-packages
- s, --symlink**
with **-i**, install symbolic links instead of copies
- m, --make**
when applicable, re-run ./configure && make
- W, --warnings=CATEGORY**
report the warnings falling in CATEGORY [syntax]

Warning categories include:

- ‘cross’ cross compilation issues
- ‘gnu’ GNU coding standards (default in gnu and gnits modes)
- ‘obsolete’
obsolete features or constructions
- ‘override’
user redefinitions of Automake rules or variables
- ‘portability’
portability issues (default in gnu and gnits modes)
- ‘syntax’
dubious syntactic constructs (default)
- ‘unsupported’
unsupported or incomplete features (default)
- ‘all’ all the warnings

'no-CATEGORY'
turn off warnings in CATEGORY

'none' turn off all the warnings

'error' treat warnings as errors

The environment variable **'WARNINGS'** is honored. Some subtools might support other warning types, using **'all'** is encouraged.

Library directories:

-B, --prepend-include=DIR
prepend directory DIR to search path

-I, --include=DIR
append directory DIR to search path

The environment variables **AUTOCONF**, **AUTOHEADER**, **AUTOMAKE**, **ACLOCAL**, **AUTOPOINT**, **LIBTOOLIZE**, **M4**, and **MAKE** are honored.

AUTHOR

Written by David J. MacKenzie and Akim Demaille.

REPORTING BUGS

Report bugs to <bug-autoconf@gnu.org>.

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SEE ALSO

autoconf(1), **automake(1)**, **autoreconf(1)**, **autoupdate(1)**, **autoheader(1)**, **autoscan(1)**, **config.guess(1)**, **config.sub(1)**, **ifnames(1)**, **libtool(1)**.

The full documentation for **autoreconf** is maintained as a Texinfo manual. If the **info** and **autoreconf** programs are properly installed at your site, the command

info autoreconf

should give you access to the complete manual.

AUTOSCAN

NAME

autoscan – Generate a preliminary configure.in

SYNOPSIS

autoscan [*OPTION*]... [*SRCDIR*]

DESCRIPTION

Examine source files in the directory tree rooted at *SRCDIR*, or the current directory if none is given. Search the source files for common portability problems, check for incompleteness of ‘configure.ac’, and create a file ‘configure.scan’ which is a preliminary ‘configure.ac’ for that package.

-h, --help

print this help, then exit

-V, --version

print version number, then exit

-v, --verbose

verbosely report processing

-d, --debug

don't remove temporary files

Library directories:**-B, --prepend-include=DIR**

prepend directory *DIR* to search path

-I, --include=DIR

append directory *DIR* to search path

AUTHOR

Written by David J. MacKenzie and Akim Demaille.

REPORTING BUGS

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SEE ALSO

autoconf(1), **automake**(1), **autoreconf**(1), **autoupdate**(1), **autoheader**(1), **autoscan**(1), **config.guess**(1), **config.sub**(1), **ifnames**(1), **libtool**(1).

The full documentation for **autoscan** is maintained as a Texinfo manual. If the **info** and **autoscan** programs are properly installed at your site, the command

info autoscan

should give you access to the complete manual.

AUTOUPDATE

NAME

autoupdate – Update a configure.in to a newer Autoconf

SYNOPSIS

autoupdate [*OPTION*]... [*TEMPLATE-FILE*]...

DESCRIPTION

Update each *TEMPLATE-FILE* if given, or ‘configure.ac’ if present, or else ‘configure.in’, to the syntax of the current version of Autoconf. The original files are backed up.

Operation modes:

-h, --help

print this help, then exit

-V, --version

print version number, then exit

-v, --verbose

verbosely report processing

-d, --debug

don't remove temporary files

-f, --force

consider all files obsolete

Library directories:

-B, --prepend-include=DIR

prepend directory DIR to search path

-I, --include=DIR

append directory DIR to search path

AUTHOR

Written by David J. MacKenzie and Akim Demaille.

REPORTING BUGS

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SEE ALSO

autoconf(1), **automake(1)**, **autoreconf(1)**, **autoupdate(1)**, **autoheader(1)**, **autoscan(1)**, **config.guess(1)**, **config.sub(1)**, **ifnames(1)**, **libtool(1)**.

The full documentation for **autoupdate** is maintained as a Texinfo manual. If the **info** and **autoupdate** programs are properly installed at your site, the command

info autoupdate

should give you access to the complete manual.

CONFIG.GUESS

NAME

config.guess – guess the build system triplet

SYNOPSIS

config.guess [*OPTION*]

DESCRIPTION

The GNU build system distinguishes three types of machines, the ‘build’ machine on which the compilers are run, the ‘host’ machine on which the package being built will run, and, exclusively when you build a compiler, assembler etc., the ‘target’ machine, for which the compiler being built will produce code.

This script will guess the type of the ‘build’ machine.

Output the configuration name of the system ‘config.guess’ is run on.

Operation modes:

-h, --help

print this help, then exit

-t, --time-stamp

print date of last modification, then exit

-v, --version

print version number, then exit

ENVIRONMENT VARIABLES

config.guess might need to compile and run C code, hence it needs a compiler for the ‘build’ machine: use the environment variable ‘CC_FOR_BUILD’ to specify the compiler for the build machine. If ‘CC_FOR_BUILD’ is not specified, ‘CC’ will be used. Be sure to specify ‘CC_FOR_BUILD’ is ‘CC’ is a cross-compiler to the ‘host’ machine.

CC_FOR_BUILD a native C compiler, defaults to ‘cc’

CC a native C compiler, the previous variable is preferred

REPORTING BUGS

Report bugs and patches to <config-patches@gnu.org>.

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SEE ALSO

autoconf(1), automake(1), autoreconf(1), autoupdate(1), autoheader(1), autoscan(1), config.guess(1), config.sub(1), ifnames(1), libtool(1).

CONFIG.SUB

NAME

config.sub – validate and canonicalize a configuration triplet

SYNOPSIS

config.sub [*OPTION*] *CPU-MFR-OPSYS*

DESCRIPTION

../build-aux/config.sub [*OPTION*] ALIAS

Canonicalize a configuration name.

Operation modes:

-h, --help

print this help, then exit

-t, --time-stamp

print date of last modification, then exit

-v, --version

print version number, then exit

REPORTING BUGS

Report bugs and patches to <config-patches@gnu.org>.

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SEE ALSO

autoconf(1), **automake(1)**, **autoreconf(1)**, **autoupdate(1)**, **autoheader(1)**, **autoscan(1)**, **config.guess(1)**, **config.sub(1)**, **ifnames(1)**, **libtool(1)**.

IFNAMES

NAME

ifnames – Extract CPP conditionals from a set of files

SYNOPSIS

ifnames [*OPTION*]... [*FILE*]...

DESCRIPTION

Scan all of the C source **FILES** (or the standard input, if none are given) and write to the standard output a sorted list of all the identifiers that appear in those files in ‘**#if**’, ‘**#elif**’, ‘**#ifdef**’, or ‘**#ifndef**’ directives. Print each identifier on a line, followed by a space-separated list of the files in which that identifier occurs.

-h, --help

print this help, then exit

-V, --version

print version number, then exit

AUTHOR

Written by David J. MacKenzie and Paul Eggert.

REPORTING BUGS

Report bugs to <bug-autoconf@gnu.org>.

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The full documentation for **ifnames** is maintained as a Texinfo manual. If the **info** and **ifnames** programs are properly installed at your site, the command

info ifnames

should give you access to the complete manual.