

NAME

icu-config - output ICU build options

SYNOPSIS

```
icu-config [ --bindir ] [ --cc ] [ --cflags ] [ --cppflags ] [ --cppflags-searchpath ] [ --cxx ] [ --cxxflags ] [
--detect-prefix ] [ --exec-prefix ] [ --exists ] [ --help, -?, --usage ] [ --icudata ] [ --icudata-install-dir ] [
--icudata-mode ] [ --icudatadir ] [ --invoke ] [ --invoke=prog ] [ --ldflags ] [ --ldflags-libsonly ] [
--ldflags-searchpath ] [ --ldflags-system ] [ --ldflags-icuio ] [ --mandir ] [ --prefix ] [ --prefix=prefix ] [
--sbindir ] [ --shared-datadir ] [ --sysconfdir ] [ --unicode-version ] [ --version ] [ --incfile ]
```

DESCRIPTION

icu-config simplifies the task of building and linking against ICU as compared to manually configuring user makefiles or equivalent. Because **icu-config** is an executable script, it also solves the problem of locating the ICU libraries and headers, by allowing the system PATH to locate it.

EXAMPLES

icu-config can be used without a makefile. The command line below is sufficient for building a single-file c++ program against ICU. (For example, **icu/source/samples/props/props.cpp**)

```
'icu-config --cxx --cxxflags --cppflags --ldflags' -o props props.cpp
```

More commonly, **icu-config** will be called from within a makefile, and used to set up variables. The following example also builds the *props* example.

```
CC=$(shell icu-config --cc)

CXX=$(shell icu-config --cxx)

CPPFLAGS=$(shell icu-config --cppflags)

CXXFLAGS=$(shell icu-config --cxxflags)

LDFLAGS=$(shell icu-config --ldflags)

all: props

props.o: props.cpp
```

make(1) will automatically use the above variables.

OPTIONS

--bindir

Prints the binary (executable) directory path. Normally equivalent to 'bin'. ICU user-executable applications and scripts are found here.

--cc

Print the C compiler used. Equivalent to the \$(CC) Makefile variable.

--cflags

Print the C compiler flags. Equivalent to the \$(CFLAGS) Makefile variable. Does NOT include preprocessor directives such as include path or defined symbols. Examples include debugging (-g) and optimization flags

--cppflags

Print the C preprocessor flags. Equivalent to the \$(CPPFLAGS) Makefile variable. Examples are -I include paths and -D define directives.

--cppflags-searchpath

Print the C preprocessor flags, as above but only -I search paths.

--cxx

Print the C++ compiler. Equivalent to the \$(CXX) Makefile variable.

--cxxflags

Print the C++ compiler flags. Equivalent to the \$(CXXFLAGS) Makefile variable.

--detect-prefix

If ICU has been moved from its installed location, prepending this flag to other **icu-config** calls will attempt to locate ICU relative to where the **icu-config** script has been located. Can be used as a last-chance effort if the ICU install has been damaged.

--exec-prefix

Print the prefix used for executable program directories (such as bin, sbin, etc). Normally the same as the prefix.

--exists

Script will return with a successful (0) status if ICU seems to be installed and located correctly, otherwise an error message and nonzero status will be displayed.

--help, -?,--usage

Print a help and usage message.

--icudata

Print the *shortname* of the ICU data file. This does not include any suffix such as .dat, .dll, .so, .lib, .a, etc nor does it include prefixes such as 'lib'. It may be in the form **icudt21b**

--icudata-install-dir

Print the directory where ICU packaged data should be installed. Can use as pkgdata(1)'s --install option.

--icudata-mode

Print the default ICU pkgdata mode, such as dll or common. Can use as pkgdata(1)'s --mode option.

--icudatadir

Print the path to packaged archive data. (should be where \$ICU_DATA or equivalent default path points.) Will NOT point to the libdir.

--invoke

If ICU is not installed in a location where the operating system will locate its shared libraries, this option will print out commands so as to set the appropriate environment variables to load ICU's shared libraries. For example, on many systems a variable named LD_LIBRARY_PATH or equivalent must be set.

--invoke=prog

Same as the **--invoke** option, except includes options for invoking a program named *prog*. If *prog* is the name of an ICU tool, such as genrb(1), then **icu-config** will also include the full path to that tool.

--ldflags

Print any flags which should be passed to the linker. These may include -L for library search paths, and -l for including ICU libraries. By default, this option will attempt to link in the "common" (libcuc) and "i18n" (libicui18n) libraries, as well as the data library. If additional libraries are required, any of the following two flags may be added in conjunction with this one, for example "--ldflags --ldflags-icuio" if the icuio library is required in addition to the standard ICU libraries. Equivalent to the \$(LDFLAGS) Makefile variable.

--ldflags-layout

Prints the link option for the ICU layout library.

--ldflags-icuio

Prints the link option to add the ICU I/O package

--ldflags-libsonly

Similar to *--ldflags* but only includes the *-l* options.

--ldflags-searchpath

Similar to *--ldflags* but only includes the *-L* search path options.

--ldflags-system

Similar to *--ldflags* but only includes system libraries (such as pthreads) **--mandir** Prints the location of the installed ICU man pages. Normally (man)

--prefix

Prints the prefix (base directory) under which the installed ICU resides.

--prefix=prefix

Sets the ICU prefix to *prefix* for the remainder of this command line. Does test whether the new prefix is valid.

--sbindir

Prints the location of ICU system binaries, normally (sbin)

--shared-datadir

Prints the location of ICU shared data, normally (share)

--sysconfdir

Prints the location of ICU system configuration data, normally (etc)

--unicode-version

Prints the Version of the Unicode Standard which the current ICU uses.

--version

Prints the current version of ICU.

--incfile

Prints the 'Makefile.inc' path, suitable for use with pkgdata(1)'s *-O* option.

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74.2

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