Entwicklungsumgebung

Diese Anleitung gilt für die Entwicklung ab BPS 2.24.1.0

Um eine Entwicklungsumgebung einzurichten sollten sie vorgängig eine virtuelle Maschine vorbereitet haben wie es in VM für Entwicklung beschrieben.

Beachten sie, dass nicht alle Anwendungen während der Einrichtung sofort funktionieren werden, da erforderliche DLL's unter Umständen noch nicht gefunden werden. Die erforderlichen Pfade werden erst im Schritt Umgebungsvariablen definitiv eingerichtet, bitte gedulden sie sich bis dann.

Visual Studio 2019

- Laden Sie Visual Studio Community 2019 herunter
- Wählen sie «Desktopentwicklung mit C++»
    - Unter «Optional»:
        - MSVC v142 - VS 2019 C++ x64/x86 Buildtools (neuste)
        - Windows 10 SDK (10.0.19041-0)
        - C++ CMake Tools für Windows

Installation der Debugger

Nachdem die obigen Komponenten installiert sind können die Debugger im SDK installiert werden:

- Systemsteuerung > Programme > Programme und Features
- Suchen nach «Windows Software Development Kit - Windows 10.0.19041.658»
- «Ändern»
- Nochmals «Change», dann «Next»
- «Debugging Tools for Windows» ankreuzen
- Button «Change»

Visual Studio IDE testweise starten und wieder beenden. (optional)

Perl

Homepage: http://strawberryperl.com/

- 64 bit Ausgabe wählen
- strawberry-perl-5.30.2.1-64bit.msi ausführen
- Installation nach: C:\dev\perl

Python

- Binärversion wählen auf: http://www.python.org
- Download «Windows x86-64 executable installer»
- python-3.8.5-amd64.exe ausführen
- Unten Abwählen:
    - Install launcher for all users
    - Add Python 3.8 to PATH
- Customize installation
- Optional Features
    - Alles abwählen
- Advanced Options
    - Alles abwählen
- Customize install location: C:\dev\python

Clang

- Holen sie die vorkompilierte Binärversion für Windows 64-bit: https://download.qt.io/development_releases/prebuilt/libclang/
- Rechtsklick auf libclang-release_100-based-windows-vs2019_64.7z
    - 7-Zip
        - Dateien entpacken...
        - Entpacken nach: C:\dev\ (Dateinamen darunter abwählen)
- Die Verzeichisse bin, include,... sollten danach in C:\dev\libclang sein

Jom

Replacement for nmake, compiles on multiple CPU cores simultaneously.

Homepage: http://wiki.qt.io/Jom

Download latest binary release.

- Rechtsklick auf jom_1_1_3.zip
    - 7-Zip
        - Dateien entpacken...
        - Entpacken nach: C:\dev\jom (Dateinamen darunter ggf. abwählen)

NASM

Net-wide Assembler. (Zum Bauen von OpenSSL benötigt)

Homepage: http://www.nasm.us/

- Rechtsklick auf nasm-2.14.02-win64.zip
    - 7-Zip

        - Dateien entpacken...
        - Entpacken nach: C:\dev\ (Dateinamen darunter ggf. abwählen)
- Umbenennen von ~~C:\dev\nasm-2.14.02~~ nach C:\dev\nasm

OpenSSL

Homepage: http://www.openssl.org/

- Neustes Tar-Archiv herunterladen

Quellcode vorbereiten:

- Rechtsklick auf openssl-1.1.1g.tar.gz
    - 7-Zip
        - Hier entpacken
- Rechtsklick auf openssl-1.1.1g.tar
    - 7-Zip
        - Dateien entpacken...
        - Entpacken nach: C:\dev\ (Dateinamen darunter ggf. abwählen)
- Umbenennen von ~~C:\dev\openssl-1.1.1g~~ nach C:\dev\openssl.src

Bauen:

- Start / Visual Studio 2019 / x64 Native Command Prompt **ALS ADMINISTRATOR AUSFÜHREN**
- cd \dev\openssl.src
- PATH=C:\dev\nasm;C:\dev\perl\perl\bin;%PATH%
- perl Configure VC-WIN64A --prefix=c:\dev\openssl --openssldir=c:\dev\openssl
- nmake
- nmake test
- nmake install
- nmake clean
- exit

Qt

Quellcode beschaffen und vorbereiten

Quellcode holen:

- Download zip Quellen von http://download.qt.io/official_releases/qt/5.15/5.15.2/single/
- Rechtsklick auf qt-everywhere-src-5.15.2.zip
    - 7-Zip
        - Dateien entpacken...
        - Entpacken nach: C:\dev\ (Dateinamen darunter ggf. abwählen)
- Umbenennen von ~~C:\dev\qt-everywhere-src-5.15.2~~ nach C:\dev\qt.src

Patches vornehmen:

- C:\dev\qt.src\qtbase\src\widgets\itemviews\qlistwidget.h
  C:\dev\qt.src\qtbase\src\widgets\widgets\qcombobox.h
  - Funktion „addItems“ nach „public Q_SLOTS“ verschieben

- C:\dev\qt.src\qtbase\src\corelib\kernel\qvariant.h
  - Am Ende der Datei unmittelbar vor QT_END_NAMESPACE einfügen:

```
Q_CORE_EXPORT const QVariant::Handler* userVariantHandler();
Q_CORE_EXPORT void setUserVariantHandler(const QVariant::Handler*
aHandler);
```

- C:\dev\qt.src\qtbase\src\corelib\kernel\qvariant.cpp
  - Nach der Funktion QVariantPrivate::registerHandler (ca. Zeile 1591) einfügen:

```
Q_CORE_EXPORT const QVariant::Handler* userVariantHandler()
{
    return handlerManager[QMetaType::User];
}

Q_CORE_EXPORT void setUserVariantHandler(const QVariant::Handler*
aHandler)
{
    handlerManager.registerHandler(QModulesPrivate::Unknown,
aHandler);
}
```

- C:\dev\qt.src\qtbase\src\network\socket\qlocalsocket_win.cpp
  - Anweisung in Zeile 144 anpassen:

```
    if
(d->serverName.startsWith(QLatin1String("\\\\")/*pipePath*/))
```

- C:\dev\qt.src\qtbase\src\printsupport\kernel\qprintengine_win.cpp
  - Anpassungen in Funktion QWin32PrintEnginePrivate::setPageSize(const QPageSize &pageSize) die ca. auf Zeile 1620 beginnt
  - Ersetzen: ~~printerPageSize.isValid()~~
    durch: pageSize.id()!=QPageSize::Custom && printerPageSize.isValid()
    - Ca. in Zeile 1629:

```
    const QPageSize usePageSize =
pageSize.id()!=QPageSize::Custom && printerPageSize.isValid()
? printerPageSize : pageSize;
```

    - Ca. in Zeile 1635:

```
    if (pageSize.id()!=QPageSize::Custom &&
printerPageSize.isValid()) {
```

Qt Kommandozeile

Datei C:\dev\bat\qtbuildenv.bat erzeugen:

```
@echo off
call "C:\Program Files (x86)\Microsoft Visual
Studio\2019\Community\VC\Auxiliary\Build\vcvarsall.bat" x64
set INCLUDE=C:\dev\openssl\include;%INCLUDE%
set LIB=C:\dev\openssl\lib;%LIB%
set LLVM_INSTALL_DIR=C:\dev\libclang
PATH=C:\dev\libclang\bin;%PATH%
PATH=C:\dev\python;%PATH%
PATH=C:\dev\perl\perl\bin;%PATH%
PATH=C:\dev\nasm;%PATH%
PATH=C:\dev\jom;%PATH%
PATH=C:\dev\qt.src\gnuwin32\bin;%PATH%
PATH=C:\dev\qt.src\qtbase\bin;%PATH%
PATH=C:\dev\qt\qtbase\bin;%PATH%
cd /d C:\dev
```

Neue Verknüpfung *Qt Command Prompt* in C:\dev:

- Ziel: %COMSPEC% /k C:\dev\bat\qtbuildenv.bat

Qt bauen

Qt Command Prompt ausführen:

- mkdir \dev\qt
- cd \dev\qt
- ..\qt.src\configure -prefix C:\dev\qt\qtbase -nomake examples -nomake tests -skip qtwebengine -opensource -confirm-license
- jom

Wenn Qt5Script.dll/Qt5ScriptTools.dll in C:\dev\qt\qtbase\bin fehlen:

- jom module-qtscript

Dokumentation bauen:

- jom docs

Qt Solutions

Beschaffen und vorbereiten

- Quellcode von https://github.com/qtproject/qt-solutions holen
  - Klick auf *Clone or download*

    - Download ZIP
- Verzeichnis anlegen: C:\dev\qtsol
- qt-solutions-master.zip öffnen und folgende Unterordner nach C:\dev\qtsol kopieren:
    - qtpropertybrowser
    - qtservice
    - qtsingleapplication

Patches:

- C:\dev\qtsol\qtpropertybrowser\common.pri:
  ~~QTPROPERTYBROWSER_LIBNAME = $$qtLibraryTarget(QtSolutions_PropertyBrowser-head)~~
  QTPROPERTYBROWSER_LIBNAME = $$qtLibraryTarget(QtPropertyBrowser)

- C:\dev\qtsol\qtservice\common.pri:
  ~~QTSERVICE_LIBNAME = QtSolutions_Service-head~~
  QTSERVICE_LIBNAME = QtService

- C:\dev\qtsol\qtsingleapplication\common.pri:
  ~~QTSINGLEAPPLICATION_LIBNAME = $$qt5LibraryTarget(QtSolutions_SingleApplication-head)~~
  QTSINGLEAPPLICATION_LIBNAME = $$qt5LibraryTarget(Qt5SingleApplication)

  ~~QTSINGLEAPPLICATION_LIBNAME = $$qtLibraryTarget(QtSolutions_SingleApplication-head)~~
  QTSINGLEAPPLICATION_LIBNAME = $$qtLibraryTarget(QtSingleApplication)

- C:\dev\qtsol\qtsingleapplication\src\qtsingleapplication.cpp:
- Includes im Kopfbereich ergänzen mit:

```
#if defined(Q_OS_WIN)
    #include <windows.h>
#endif
```

- Am Anfang der Funktion sysInit(…) einfügen:

```
#if defined(Q_OS_WIN)
    AllowSetForegroundWindow(ASFW_ANY);
#endif
```

- C:\dev\qtsol\qtsingleapplication\buildlib\buildlib.pro:
    - Unten anhängen:

```
win32: LIBS += -lUser32
```

Qt Solutions bauen

Qt Command Prompt ausführen:

- cd \dev\qtsol\qtpropertybrowser
    - configure -library
    - qmake
    - jom debug
    - jom release

    - cd doc\html
    - qhelpgenerator qtpropertybrowser.qhp

- cd \dev\qtsol\qtservice
    - configure -library
    - qmake
    - jom debug
    - jom release
    - cd doc\html
    - qhelpgenerator qtservice.qhp

- cd \dev\qtsol\qtsingleapplication
    - configure -library
    - qmake
    - jom debug
    - jom release
    - cd doc\html
    - qhelpgenerator qtsingleapplication.qhp

PostgreSQL

http://www.postgresql.org/

- Binaries im ZIP Archiv für Win X86-64 herunterladen
- Rechtsklick auf postgresql-13.2-2-windows-x64-binaries.zip
    - 7-Zip
        - Dateien entpacken...
        - Entpacken nach: C:\dev\ (Dateinamen darunter ggf. abwählen)

Oracle

https://www.oracle.com/ch-de/database/technologies/instant-client/winx64-64-downloads.html

- Instant Client Herunterladen:
    - Basic Light-Paket
    - SQL*Plus-Paket
    - Tools-Paket
    - SDK-Paket
- Ordner C:\dev\oracle anlegen
- Rechtsklick auf instantclient-basiclite-windows.x64-19.6.0.0.0dbru.zip
    - 7-Zip
        - Dateien entpacken...
        - Entpacken nach: C:\dev\oracle\ (Dateinamen darunter ggf. abwählen)
- Dito jeweils mit
    - instantclient-sqlplus-windows.x64-19.6.0.0.0dbru.zip
    - instantclient-tools-windows.x64-19.6.0.0.0dbru.zip
    - instantclient-sdk-windows.x64-19.6.0.0.0dbru.zip
- Vorhandenes tnsnames.ora für die eigenen Oracle Server kopieren nach C:\dev\oracle

Umgebungsvariablen

Folgende Verzeichnisse zu PATH in System-Umgebungsvariablen hinzufügen:

- C:\dev\openssl\bin
- C:\dev\libclang\bin
- C:\dev\qt\qtbase\bin
- C:\dev\oracle\instantclient_19_6
- C:\dev\pgsql\bin
- C:\dev\pgsql\lib
- C:\dev\bps\Release64\bin

Neue System-Umgebungsvariablen hinzufügen:

- QT_PLUGIN_PATH=C:\dev\qt\qtbase\plugins
- TNS_ADMIN=C:\dev\oracle

Qt Assistant Verwendung

C:\dev\qt\qtbase\bin\assistant.exe ausführen:

- An Taskleiste anheften
- Warten bis die Indexierung beim ersten Start fertig durchgelaufen ist, dann:
- *Edit - Preferences - Documentation - Add...*
  - C:\dev\qtsol\qtpropertybrowser\doc\html\qtpropertybrowser.qch
  - C:\dev\qtsol\qtservice\doc\html\qtservice.qch
  - C:\dev\qtsol\qtsingleapplication\doc\html\qtsingleapplication.qch

Qt Creator

- Opensource Quellcode holen von http://download.qt.io/official_releases/qtcreator/4.14/4.14.0/
- Rechtsklick auf qt-creator-opensource-src-4.14.0.zip
  - 7-Zip
    - Dateien entpacken...
    - Entpacken nach: C:\dev\ (Dateinamen darunter ggf. abwählen)
- Umbenennen von ~~C:\dev\qt-creator-opensource-src-4.14.0~~ nach C:\dev\qtcre.src

Qt Command Prompt ausführen:

- mkdir c:\dev\qtcre
- cd c:\dev\qtcre
- c:\dev\qt\qtbase\bin\qmake.exe -r c:\dev\qtcre.src
- jom
- jom docs

C:\dev\qtcre64\bin\qtcreator.exe ausführen:

- An Taskleiste anheften

- Weiter mit Konfiguration unten

Konfiguration

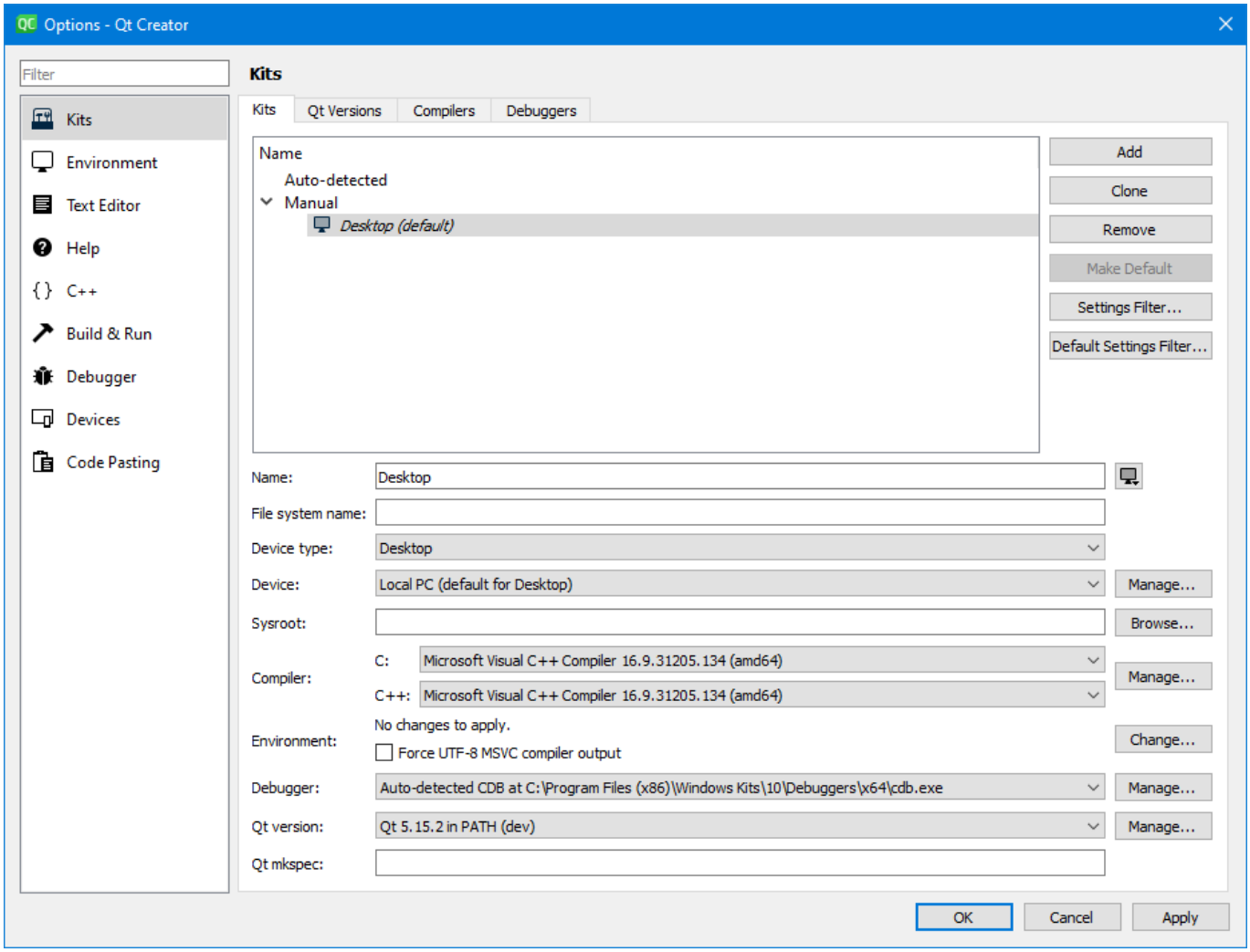
Help - About Plugins

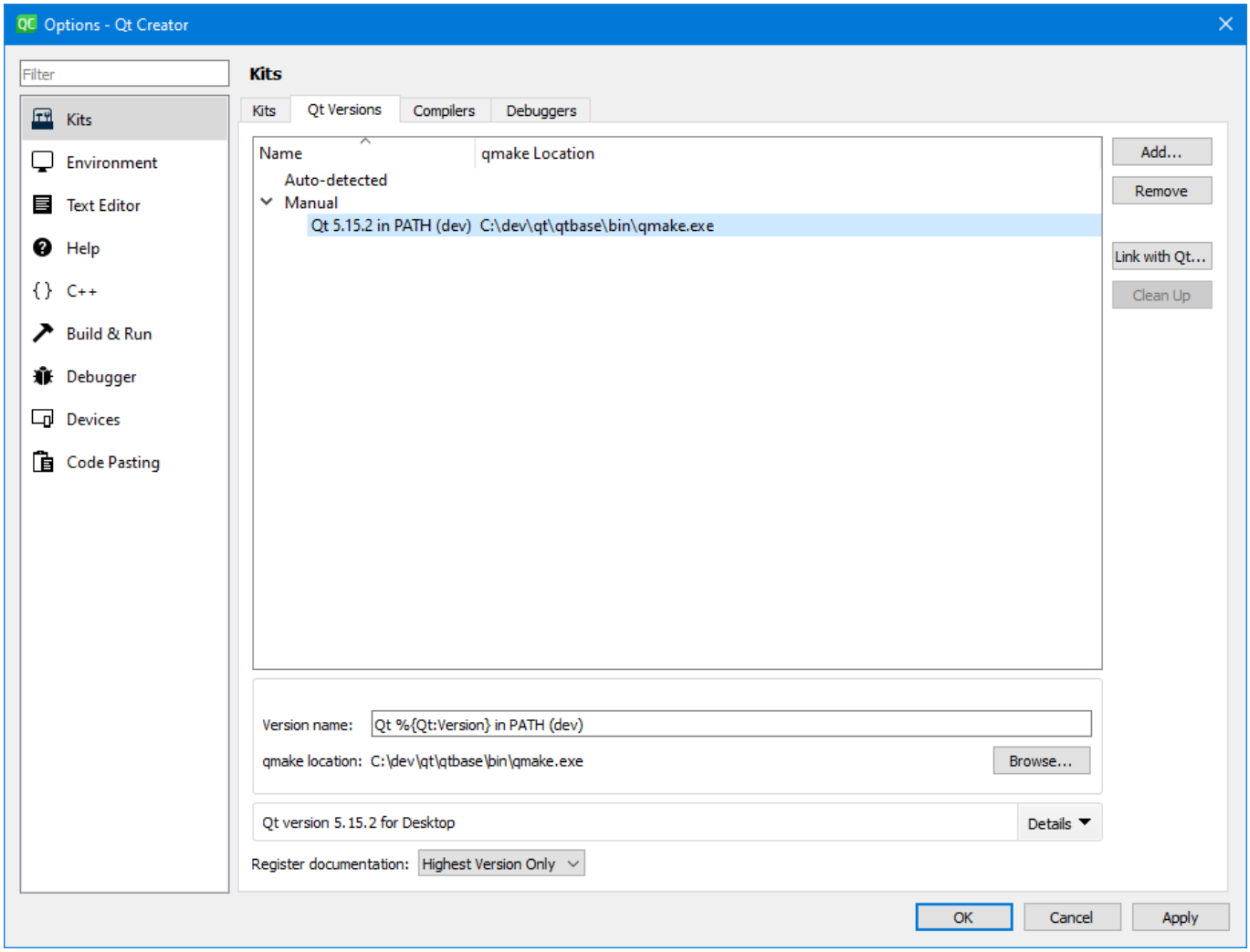
Empfohlen:

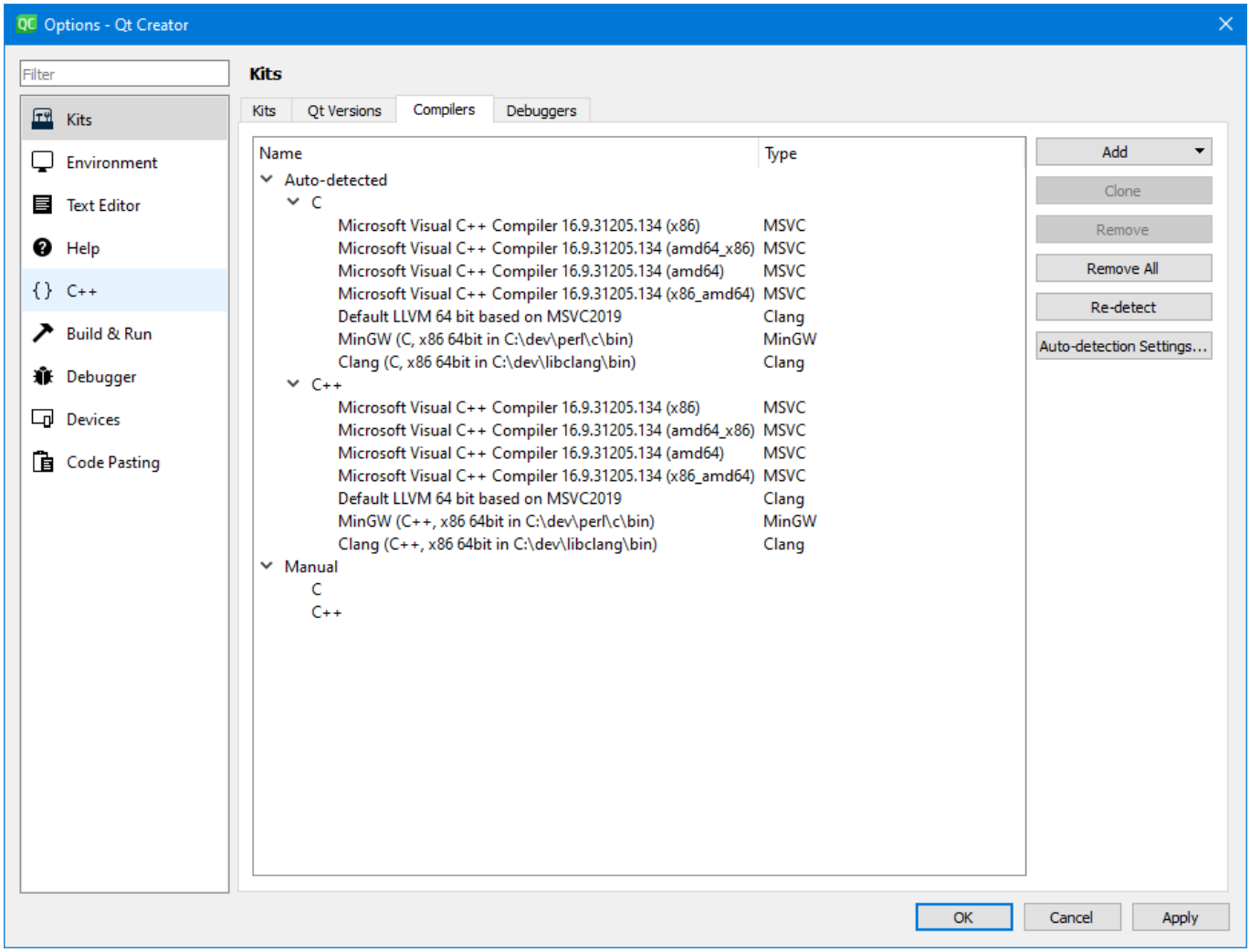
- Build Systems
  - QmakeProjectManager
  - QtSupport
- C++
  - ClassView
  - CppEditor
  - CppTools
- Code Analyzer
  - (nichts)
- Core
  - Bookmarks
  - Help
  - ProjectExplorer
  - TextEditor
  - Welcome
- Device Support
  - (nichts)
- Modeling
  - (nichts)
- Other Languages
  - (nichts)
- Qt Creator
  - BinEditor
  - Debugger
  - Designer
  - ResourceEditor
- Qt Quick
  - (nichts)
- Utilities
  - CodePaster
  - DiffEditor
  - ImageViewer
  - Macros
  - TaskList
- Version Control
  - (nichts)

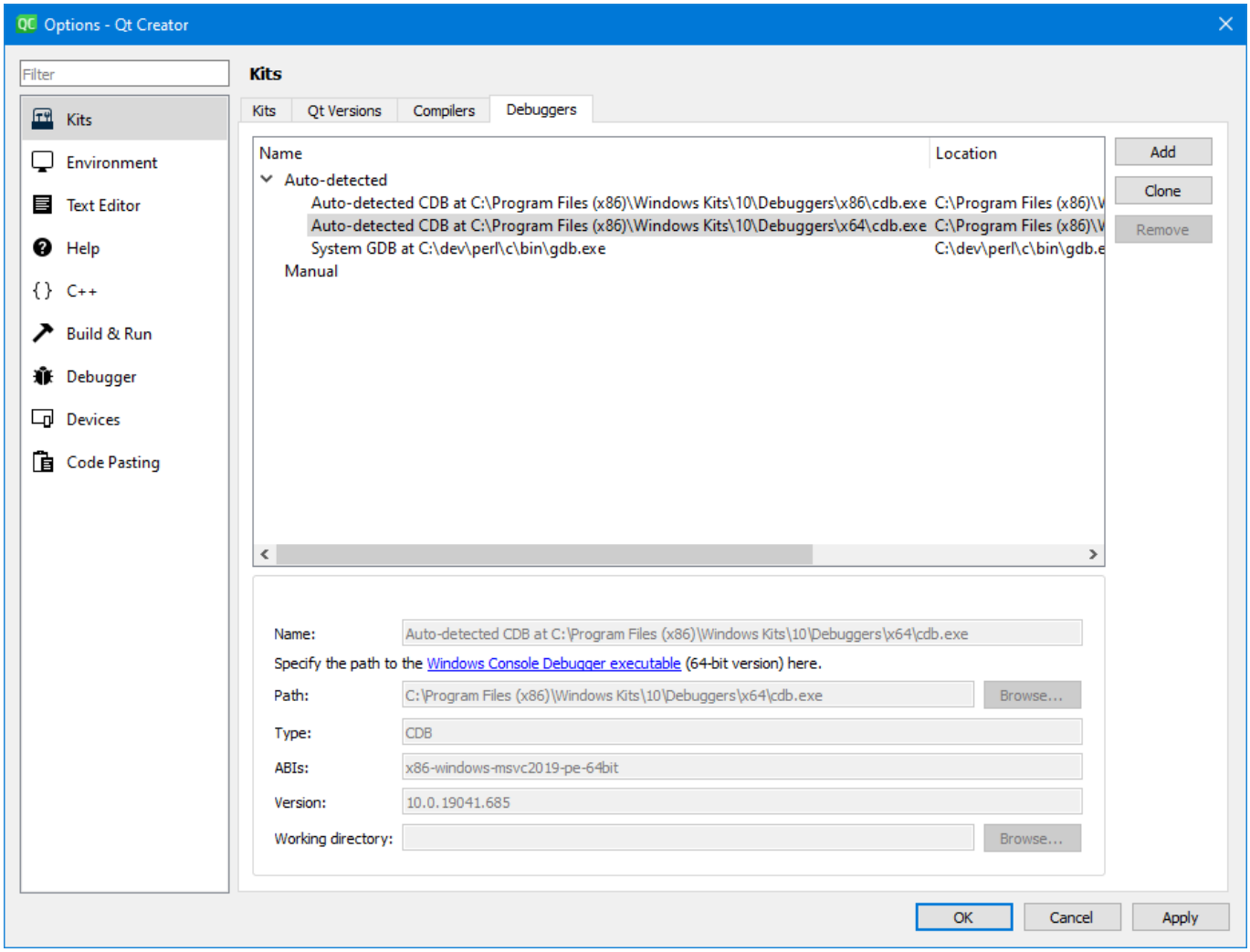
Tools - Options

Kits

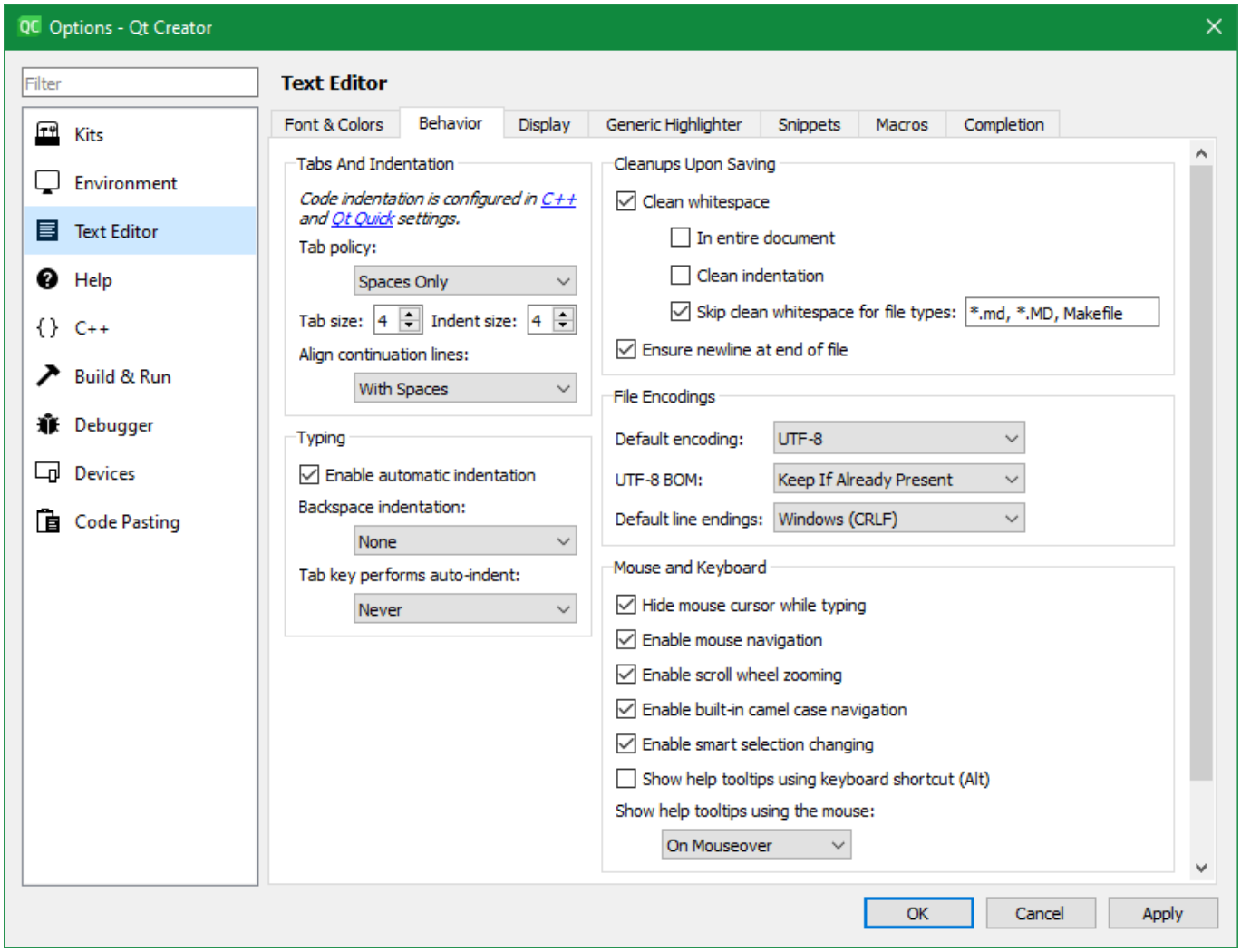

Options - Qt Creator
Filter
Kits
Environment
Text Editor
Help
C++
Build & Run
Debugger
Devices
Code Pasting
Kits
Kits
Qt Versions
Compilers
Debuggers
Name
Auto-detected
Manual
Desktop (default)
Add
Clone
Remove
Make Default
Settings Filter...
Default Settings Filter...
Name:
Desktop
File system name:
Device type:
Desktop
Device:
Local PC (default for Desktop)
Manage...
Sysroot:
Browse...
Compiler:
C:
Microsoft Visual C++ Compiler 16.9.31205.134 (amd64)
C++:
Microsoft Visual C++ Compiler 16.9.31205.134 (amd64)
Manage...
Environment:
No changes to apply.
Force UTF-8 MSVC compiler output
Change...
Debugger:
Auto-detected CDB at C:\Program Files (x86)\Windows Kits\10\Debuggers\x64\cdb.exe
Manage...
Qt version:
Qt 5.15.2 in PATH (dev)
Manage...
Qt mkspec:
OK
Cancel
Apply


Options - Qt Creator
Filter
Kits
Environment
Text Editor
Help
C++
Build & Run
Debugger
Devices
Code Pasting
Kits
Kits
Qt Versions
Compilers
Debuggers
Name
qmake Location
Auto-detected
Manual
Qt 5.15.2 in PATH (dev) C:\dev\qt\qtbase\bin\qmake.exe
Add...
Remove
Link with Qt...
Clean Up
Version name: Qt %{Qt:Version} in PATH (dev)
qmake location: C:\dev\qt\qtbase\bin\qmake.exe
Browse...
Qt version 5.15.2 for Desktop
Details
Register documentation: Highest Version Only
OK
Cancel
Apply

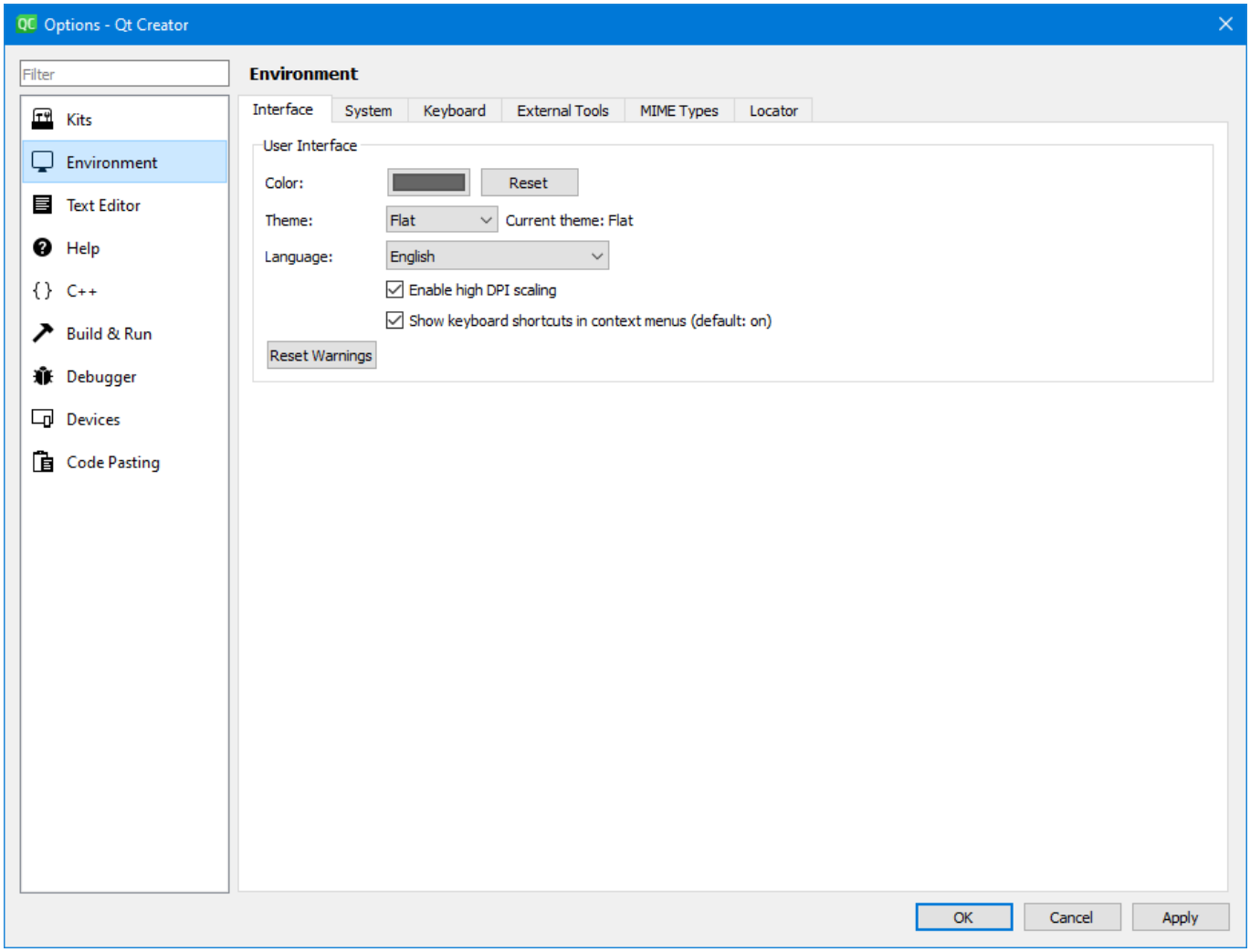

Options - Qt Creator
Filter
Kits
Environment
Text Editor
Help
C++
Build & Run
Debugger
Devices
Code Pasting
Kits
Kits
Qt Versions
Compilers
Debuggers
Name
Type
Auto-detected
C
Microsoft Visual C++ Compiler 16.9.31205.134 (x86) MSVC
Microsoft Visual C++ Compiler 16.9.31205.134 (amd64_x86) MSVC
Microsoft Visual C++ Compiler 16.9.31205.134 (amd64) MSVC
Microsoft Visual C++ Compiler 16.9.31205.134 (x86_amd64) MSVC
Default LLVM 64 bit based on MSVC2019 Clang
MinGW (C, x86 64bit in C:\dev\perl\c\bin) MinGW
Clang (C, x86 64bit in C:\dev\libclang\bin) Clang
C++
Microsoft Visual C++ Compiler 16.9.31205.134 (x86) MSVC
Microsoft Visual C++ Compiler 16.9.31205.134 (amd64_x86) MSVC
Microsoft Visual C++ Compiler 16.9.31205.134 (amd64) MSVC
Microsoft Visual C++ Compiler 16.9.31205.134 (x86_amd64) MSVC
Default LLVM 64 bit based on MSVC2019 Clang
MinGW (C++, x86 64bit in C:\dev\perl\c\bin) MinGW
Clang (C++, x86 64bit in C:\dev\libclang\bin) Clang
Manual
C
C++
Add
Clone
Remove
Remove All
Re-detect
Auto-detection Settings...
OK
Cancel
Apply

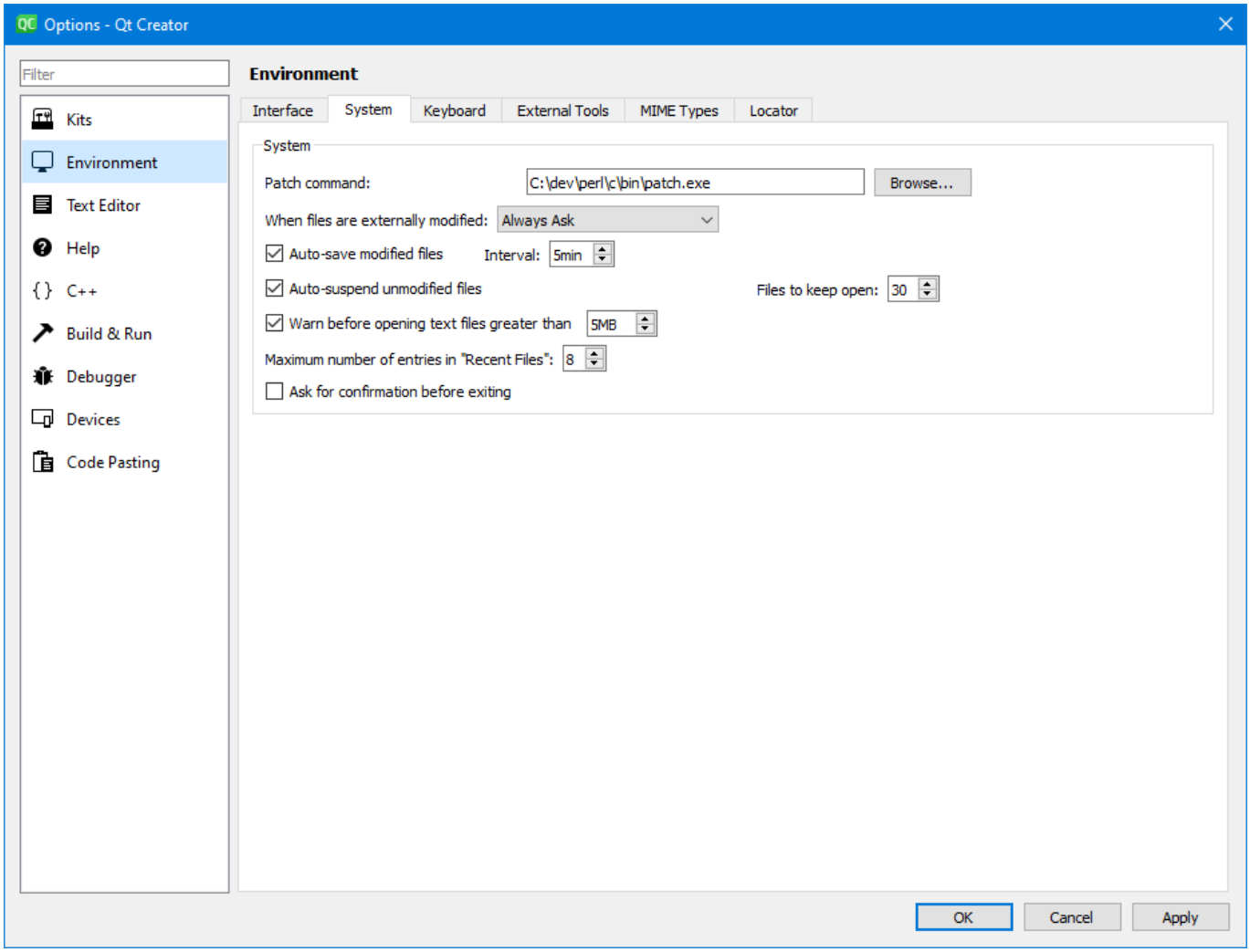

Options - Qt Creator
Filter
Kits
Environment
Text Editor
Help
C++
Build & Run
Debugger
Devices
Code Pasting
Kits
Kits
Qt Versions
Compilers
Debuggers
Name
Location
Auto-detected
Auto-detected CDB at C:\Program Files (x86)\Windows Kits\10\Debuggers\x86\cdb.exe
Auto-detected CDB at C:\Program Files (x86)\Windows Kits\10\Debuggers\x64\cdb.exe
System GDB at C:\dev\perl\c\bin\gdb.exe
Manual
Add
Clone
Remove
Name:
Auto-detected CDB at C:\Program Files (x86)\Windows Kits\10\Debuggers\x64\cdb.exe
Specify the path to the Windows Console Debugger executable (64-bit version) here.
Path:
C:\Program Files (x86)\Windows Kits\10\Debuggers\x64\cdb.exe
Browse...
Type:
CDB
ABIs:
x86-windows-msvc2019-pe-64bit
Version:
10.0.19041.685
Working directory:
Browse...
OK
Cancel
Apply

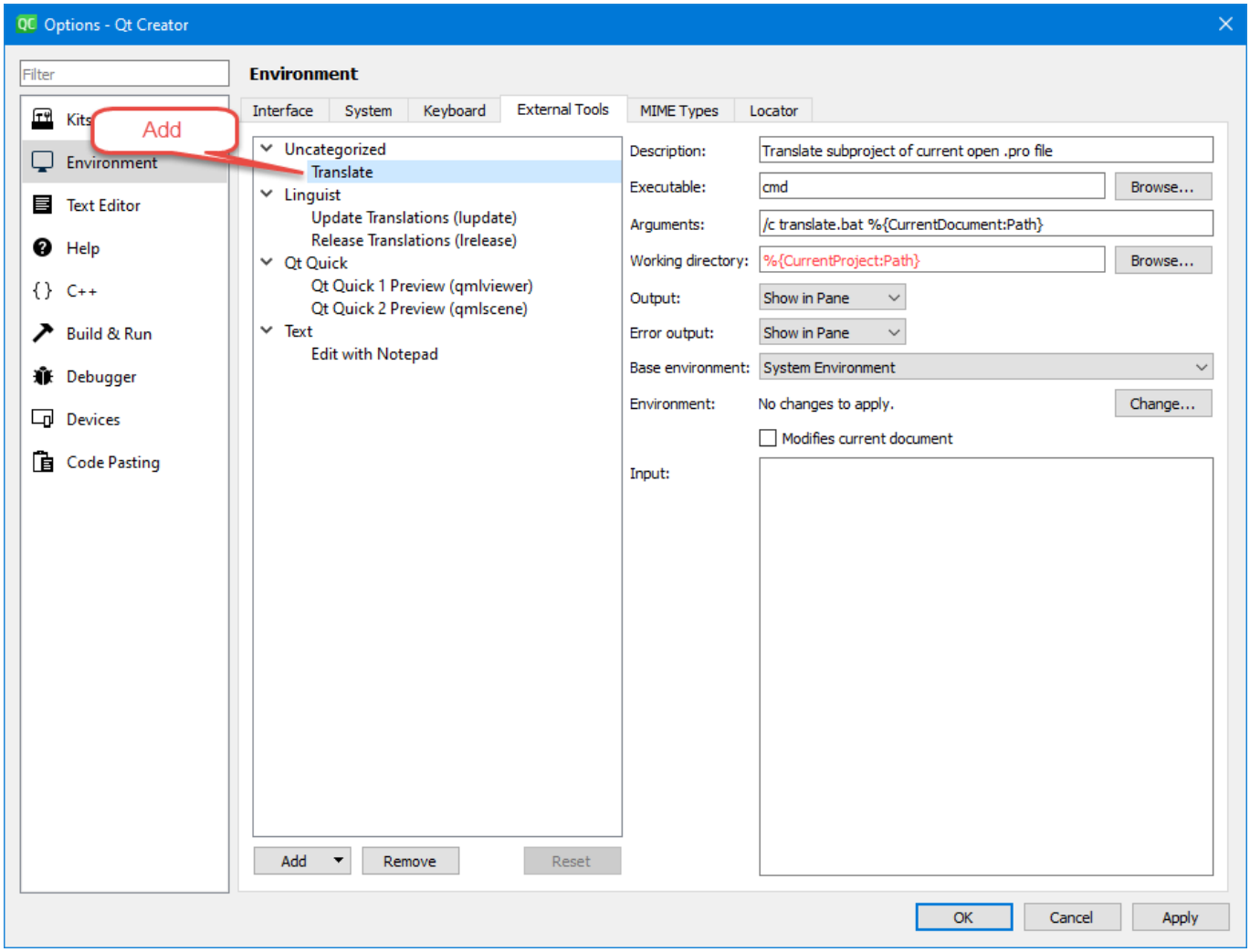
Text Editor



Environment


Options - Qt Creator
Filter
Kits
Environment
Text Editor
Help
C++
Build & Run
Debugger
Devices
Code Pasting
Environment
Interface
System
Keyboard
External Tools
MIME Types
Locator
User Interface
Color:
Reset
Theme:
Flat
Current theme: Flat
Language:
English
Enable high DPI scaling
Show keyboard shortcuts in context menus (default: on)
Reset Warnings
OK
Cancel
Apply


Options - Qt Creator
Filter
Kits
Environment
Text Editor
Help
C++
Build & Run
Debugger
Devices
Code Pasting
Environment
Interface
System
Keyboard
External Tools
MIME Types
Locator
System
Patch command:
C:\dev\perl\c\bin\patch.exe
Browse...
When files are externally modified:
Always Ask
Auto-save modified files
Interval:
5min
Auto-suspend unmodified files
Files to keep open:
30
Warn before opening text files greater than
5MB
Maximum number of entries in "Recent Files":
8
Ask for confirmation before exiting
OK
Cancel
Apply


Options - Qt Creator
Filter
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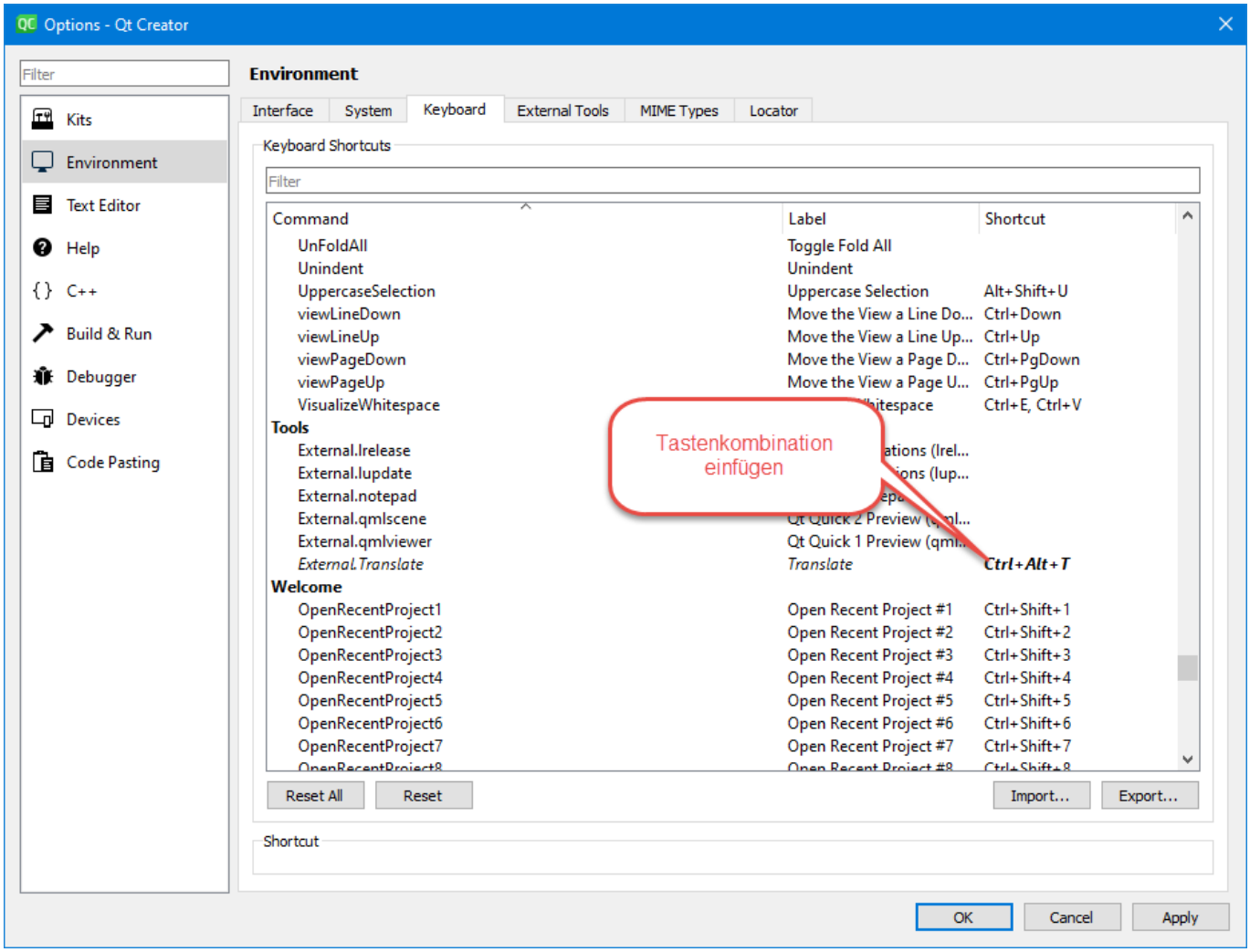
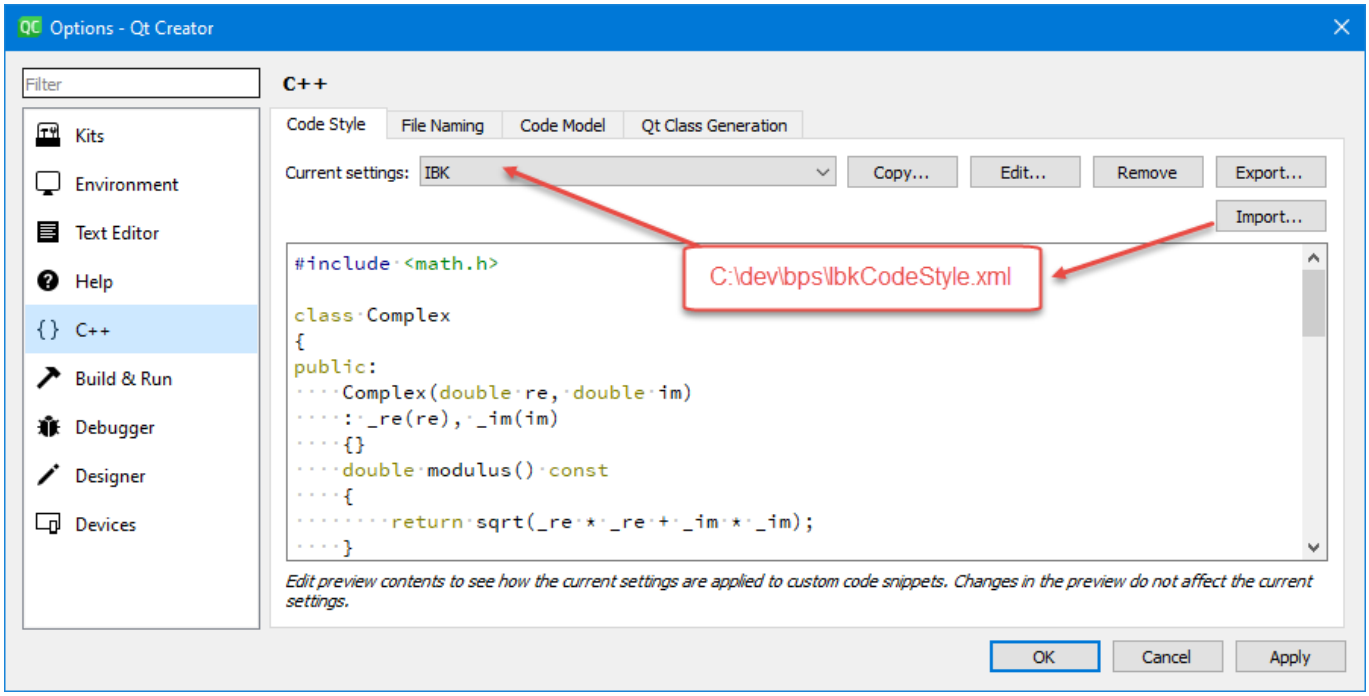
Environment
Text Editor
Help
C++
Build & Run
Debugger
Devices
Code Pasting
Add
Environment
Interface
System
Keyboard
External Tools
MIME Types
Locator
Uncategorized
Translate
Linguist
Update Translations (lupdate)
Release Translations (lrelease)
Qt Quick
Qt Quick 1 Preview (qmlviewer)
Qt Quick 2 Preview (qmlscene)
Text
Edit with Notepad
Add
Remove
Reset
Description:
Translate subproject of current open .pro file
Executable:
cmd
Browse...
Arguments:
/c translate.bat %{CurrentDocument:Path}
Working directory:
%{CurrentProject:Path}
Browse...
Output:
Show in Pane
Error output:
Show in Pane
Base environment:
System Environment
Environment:
No changes to apply.
Change...
Modifies current document
Input:
OK
Cancel
Apply

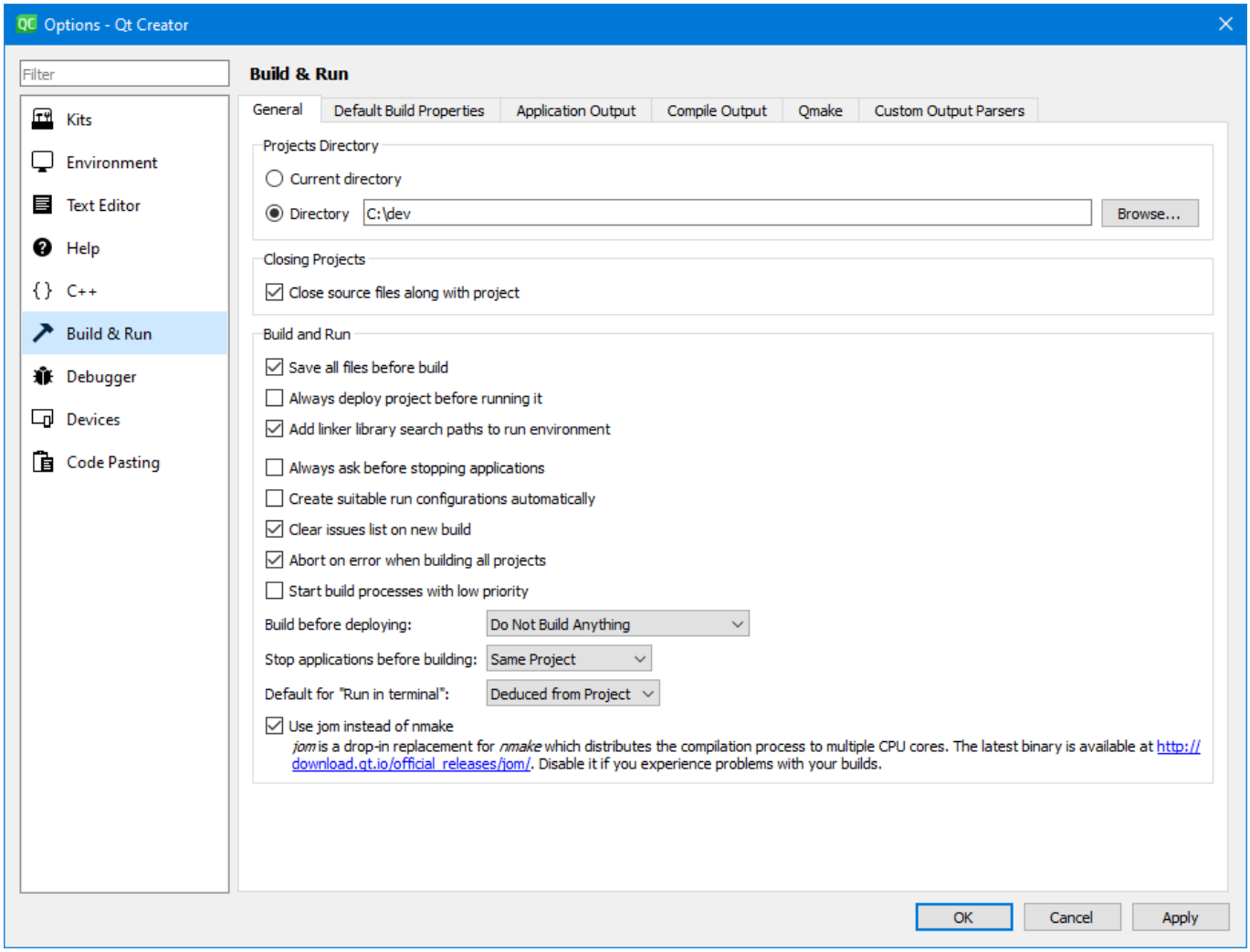

Options - Qt Creator
Filter
Kits
Environment
Text Editor
Help
C++
Build & Run
Debugger
Devices
Code Pasting
Environment
Interface
System
Keyboard
External Tools
MIME Types
Locator
Keyboard Shortcuts
Filter
Command
Label
Shortcut
UnFoldAll
Toggle Fold All
Unindent
Unindent
UppercaseSelection
Uppercase Selection
Alt+Shift+U
viewLineDown
Move the View a Line Do...
Ctrl+Down
viewLineUp
Move the View a Line Up...
Ctrl+Up
viewPageDown
Move the View a Page D...
Ctrl+PgDown
viewPageUp
Move the View a Page U...
Ctrl+PgUp
VisualizeWhitespace
Ctrl+E, Ctrl+V
Tools
External.lrelease
External.lupdate
External.notepad
External.qmlscene
External.qmlviewer
External.Translate
Translate
Ctrl+Alt+T
Welcome
OpenRecentProject1
Open Recent Project #1
Ctrl+Shift+1
OpenRecentProject2
Open Recent Project #2
Ctrl+Shift+2
OpenRecentProject3
Open Recent Project #3
Ctrl+Shift+3
OpenRecentProject4
Open Recent Project #4
Ctrl+Shift+4
OpenRecentProject5
Open Recent Project #5
Ctrl+Shift+5
OpenRecentProject6
Open Recent Project #6
Ctrl+Shift+6
OpenRecentProject7
Open Recent Project #7
Ctrl+Shift+7
Tastenkombination einfügen
Reset All
Reset
Import...
Export...
Shortcut
OK
Cancel
Apply

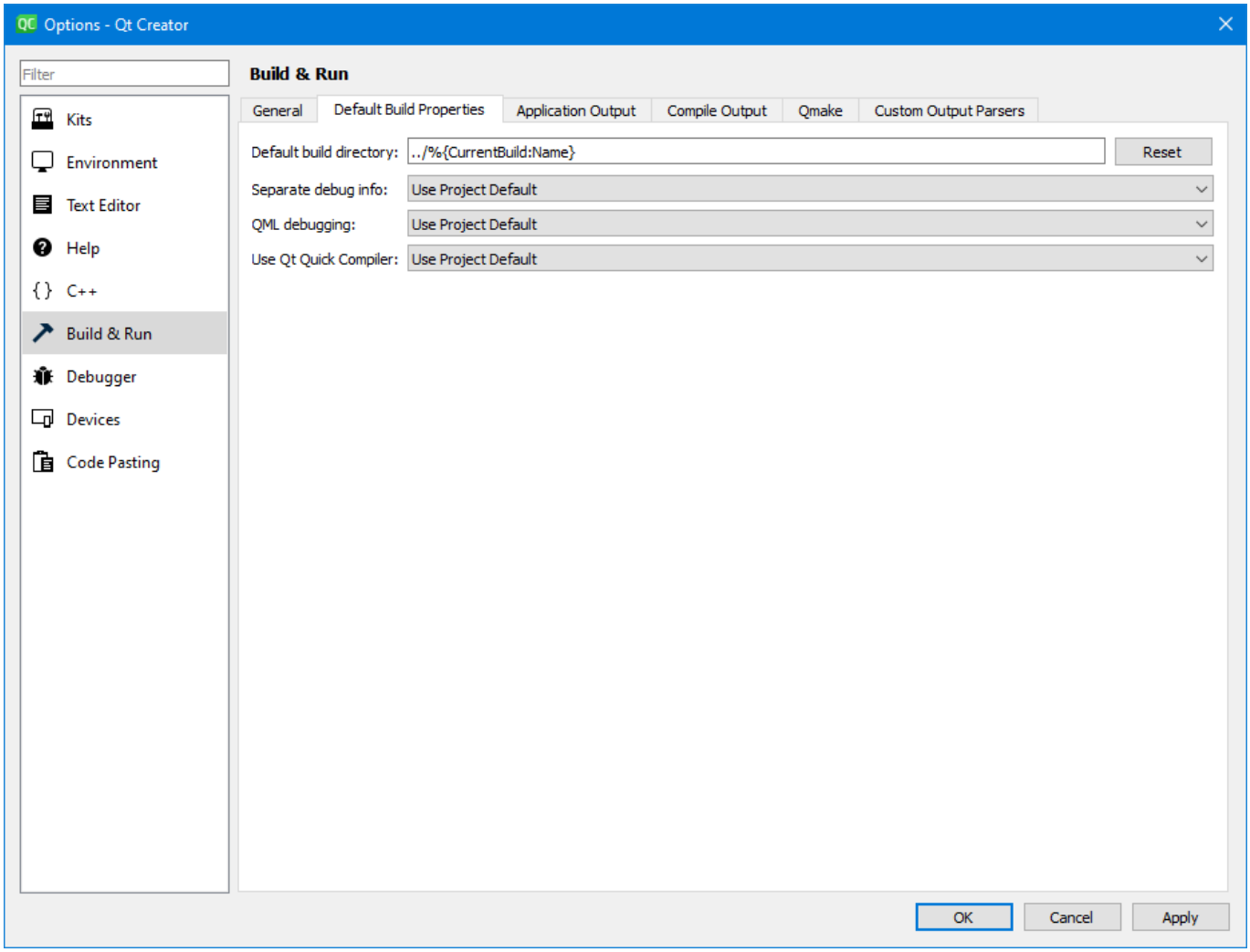
C++


Options - Qt Creator
Filter
Kits
Environment
Text Editor
Help
C++
Build & Run
Debugger
Designer
Devices
C++
Code Style
File Naming
Code Model
Qt Class Generation
Current settings:
IBK
Copy...
Edit...
Remove
Export...
Import...
C:\dev\bps\IbkCodeStyle.xml
#include <math.h>
class Complex
{
public:
Complex(double re, double im)
: _re(re), _im(im)
{}
double modulus() const
{
return sqrt(_re * _re + _im * _im);
}
Edit preview contents to see how the current settings are applied to custom code snippets. Changes in the preview do not affect the current settings.
OK
Cancel
Apply

\\}}

Build & Run


Options - Qt Creator
Filter
Kits
Environment
Text Editor
Help
C++
Build & Run
Debugger
Devices
Code Pasting
Build & Run
General
Default Build Properties
Application Output
Compile Output
Qmake
Custom Output Parsers
Projects Directory
Current directory
Directory
C:\dev
Browse...
Closing Projects
Close source files along with project
Build and Run
Save all files before build
Always deploy project before running it
Add linker library search paths to run environment
Always ask before stopping applications
Create suitable run configurations automatically
Clear issues list on new build
Abort on error when building all projects
Start build processes with low priority
Build before deploying:
Do Not Build Anything
Stop applications before building:
Same Project
Default for "Run in terminal":
Deduced from Project
Use jom instead of nmake
jom is a drop-in replacement for nmake which distributes the compilation process to multiple CPU cores. The latest binary is available at http://download.qt.io/official_releases/jom/. Disable it if you experience problems with your builds.
OK
Cancel
Apply


Options - Qt Creator
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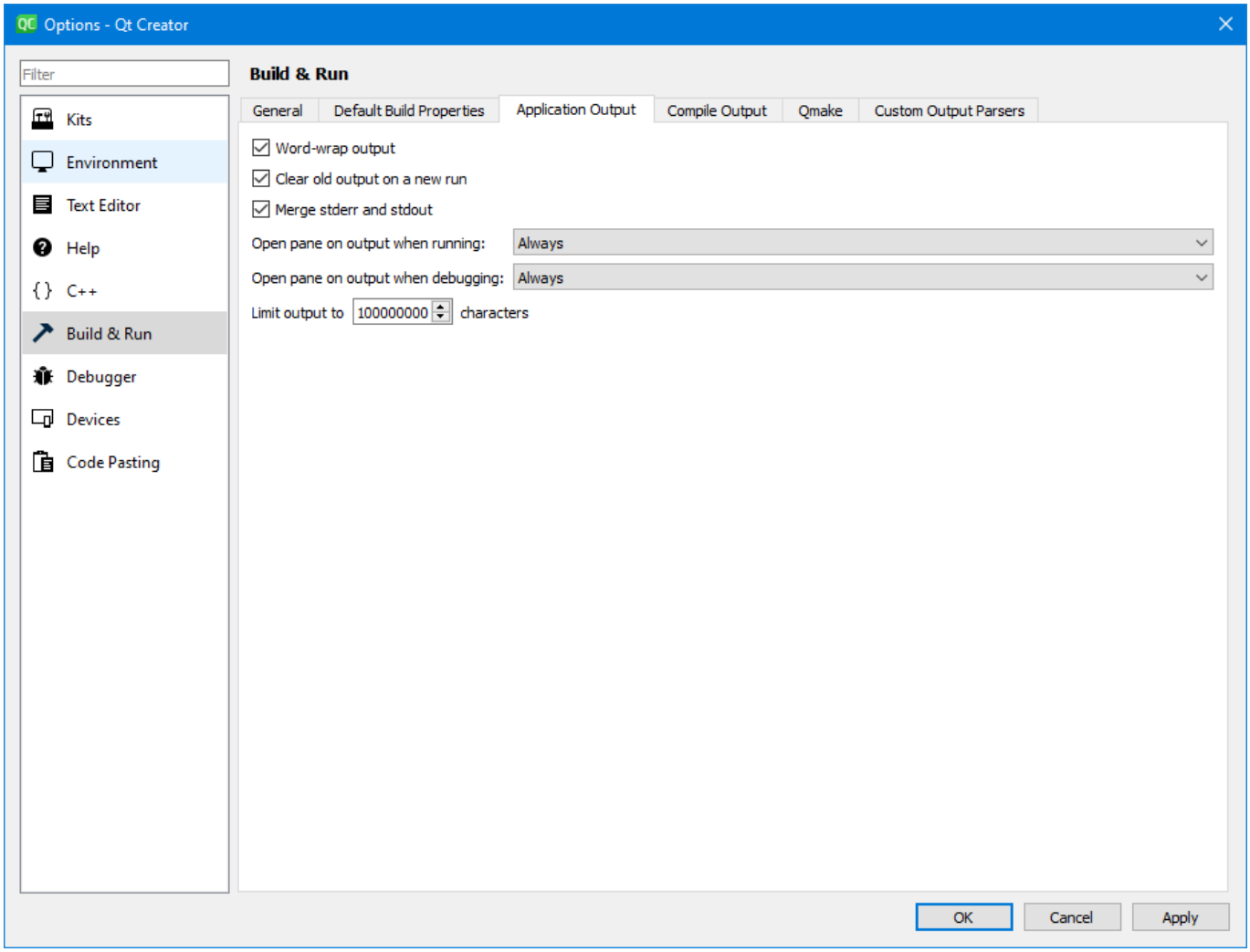
Text Editor
Help
C++
Build & Run
Debugger
Devices
Code Pasting
Build & Run
General
Default Build Properties
Application Output
Compile Output
Qmake
Custom Output Parsers
Default build directory:
../%{CurrentBuild:Name}
Reset
Separate debug info:
Use Project Default
QML debugging:
Use Project Default
Use Qt Quick Compiler:
Use Project Default
OK
Cancel
Apply


Options - Qt Creator
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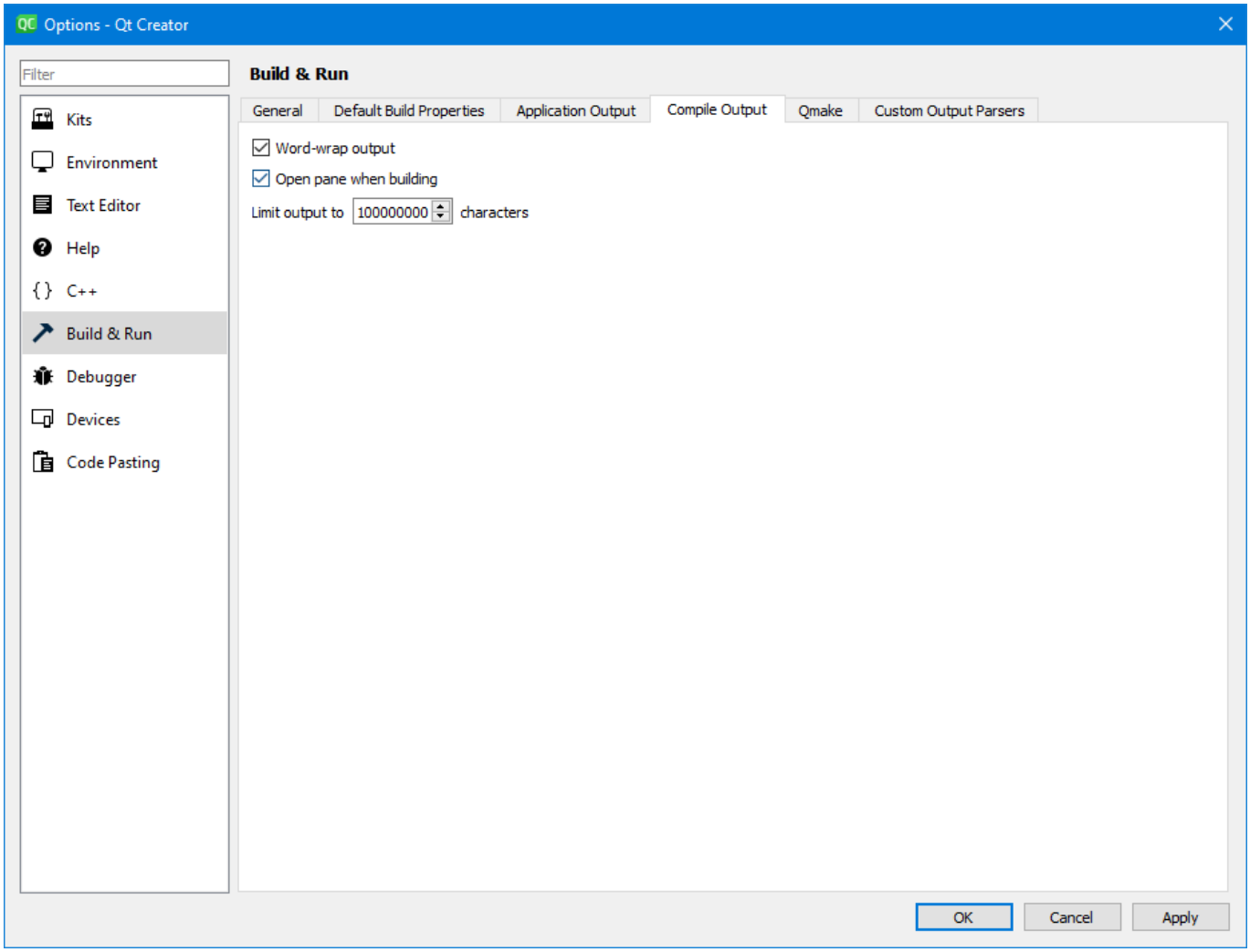
Kits
Environment
Text Editor
Help
C++
Build & Run
Debugger
Devices
Code Pasting
Build & Run
General
Default Build Properties
Application Output
Compile Output
Qmake
Custom Output Parsers
Word-wrap output
Clear old output on a new run
Merge stderr and stdout
Open pane on output when running:
Always
Open pane on output when debugging:
Always
Limit output to
100000000
characters
OK
Cancel
Apply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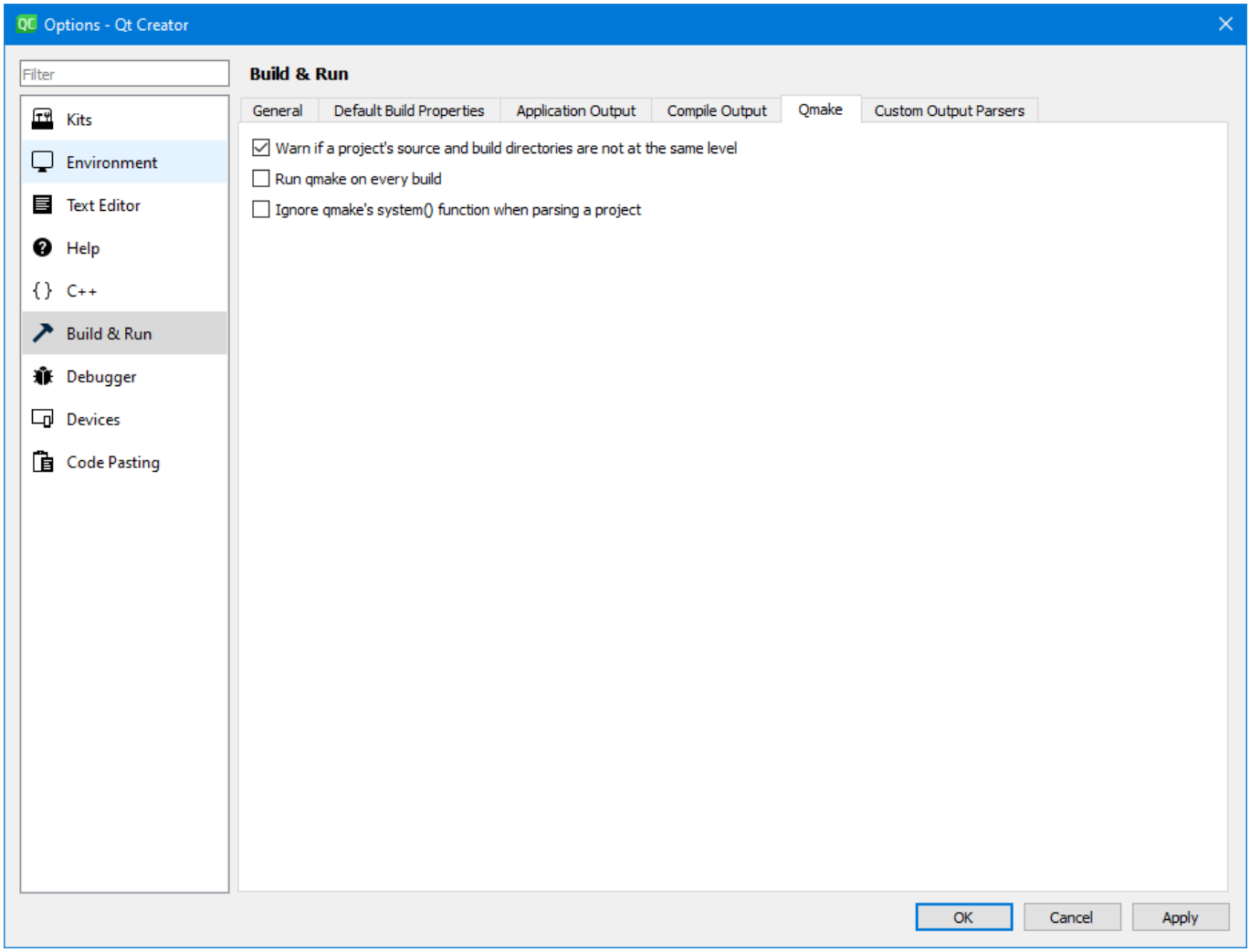
Debugger
Devices
Code Pasting
Build & Run
General
Default Build Properties
Application Output
Compile Output
Qmake
Custom Output Parsers
Word-wrap output
Open pane when building
Limit output to 100000000 characters
OK
Cancel
Apply



Nächste Schritte

Von hier können sie mit folgenden Kapiteln weiter machen:

- Grundlegende Skripte wenn sie Skripte für BPS entwickeln wollen
- Eigene Programme und Plugins wenn sie eigene Programme und Module mit C++ entwickeln wollen
- Kernentwicklung wenn sie BPS Kern selbst mit C++ entwickeln wollen