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## Compiling - Windows

The officially supported Windows build platform for OpenCPN 2.6 beta and later is Microsoft Visual C++ 2010 Express. It is still possible to perform the build with Visual Studio 2008, but if you want to create installation packages, expect versioning problems.

Before you begin, update your Windows. If still using XP, Service Pack 3 is needed.

### Important note before you start

The order of the steps described below really matters. Don't skip any steps, not explicitly marked as optional and don't change their order unless you really know what you are doing. It's an excellent idea to read the whole text first and make sure you understand what it's talking about, especially if you are new to software development. If you encounter any problems, please get to us in the forum and tell us where you are failing so we can help you and improve these instructions for the others.

### Preparing the toolchain

**VC++ 2010 Express**

Get it <http://www.microsoft.com/visualstudio/en-us/products/2010-editions/visual-studio-express>

Run the setup and click through the installation wizard. Silverlight and SQL Server are not needed for OpenCPN, so you can save some time and space by not installing them.

After installation, register it (**Help->Register Product**), otherwise you will have just 30 days to use it.

If you are on XP or Vista, you can supposedly make VS 2010 run faster: <http://www.softpedia.com/menus/speed-up-visual-studio-2010-on-xp-sp3-and-vista-sp2-152520.shtml>

**Service Pack 3**

It is essential to perform ALL the updates you can, as if you don't install the Visual Studio 2010 Service Pack 3, you will not be able to convert the WIX projects to VS 2010 format. Go to **Help menu** and select **Check for Updates**. It may be necessary to repeat this step.

**VC++ 2008 Express Edition**

If you don't intend to debug the WIX sources, you can skip this step altogether. If you do, you can still try to skip this step now and get back to it later in case you experience problems converting the WIX projects to the VS 2010 format.

Get it <http://www.microsoft.com/visualstudio/en-us/products/2008-editions/express>

Run the setup and click through the installation wizard. Silverlight and SQL Server are not needed for OpenCPN, so you can save some time and space by not installing them.

**Git for Windows**

Get it from <http://git-scm.com/> (You want Git for Windows, Not MSysGit)

The defaults for all the installation settings are fine except the following:

- On the "Adjusting your PATH environment", select "Run Git from the Windows Command Prompt"
- On the "Choosing CR/LF behavior" select "Commit line endings as they are"

If you want a tutorial, have a look at the series of articles starting at:

[http://www.lostechies.com/blogs/jason\\_meridth/archive/2009/06/03/git-for-visual-studio.aspx](http://www.lostechies.com/blogs/jason_meridth/archive/2009/06/03/git-for-visual-studio.aspx)

**Cmake**

Get it from <http://www.cmake.org/cmake/resources/software.html>

While installing it's advisable to let the setup program add cmake to the system PATH variable.

**Gettext**

Install Poedit from <http://www.poedit.net/> - it's version of gettext is the best available out there.

Add gettext to your PATH - if you installed Poedit, right-click **My Computer**, select **Properties...**, and on the **Advanced** tab click on **Environment Variables** button and add C:\program files\poedit\bin to the **PATH** system variable.

**NSIS (Unicode)**

Needed only in case you intend to build the **Installation package** for OpenCPN. Not needed for normal development.

Get it from <http://code.google.com/p/nsis/>

The NSIS Unicode 2.46 setup file is also included in the GIT repository -> .../buildin/NSIS\_Unicode/nsis-2.46-Unicode-setup.exe

Direct download link: <http://code.google.com/p/nsis/downloads/list?name=nsis-2.46-Unicode-Setup.exe>

Download and install it. Due to a "bug" in CMake, which only looks at **"HKEY\_LOCAL\_MACHINE\Software\NSIS"** for the installation location of NSIS and the Unicode version, adds its registry key in **"HKEY\_LOCAL\_MACHINE\Software\NSIS\Unicode"**, there is some registry tweaking needed.

# Open Cpn User Manual

**Sam Steele**

## **Open Cpn User Manual:**

*Application and Theory of Petri Nets 1999* Susanna Donatelli,Jetty Kleijn,2003-07-31 This book constitutes the refereed proceedings of the 20th International Conference on Application and Theory of Petri Nets ICATPN 99 held in Williamsburg Virginia USA in June 1999 The 21 revised full papers presented were carefully selected from 45 submissions Also included are three invited presentations The book presents state of the art research results on all current aspects of Petri nets as well as advanced applications in a variety of areas

**Integrated Formal Methods** Judi M.T. Romijn,Graeme P. Smith,Jaco C.

van de Pol,2005-10-27 This book constitutes the refereed proceedings of the 5th International Conference on Integrated Formal Methods IFM 2005 held in Eindhoven The Netherlands in November December 2005 The 19 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 40 submissions The papers are organized in topical sections on components state event based verification system development applications of B tool support non software domains semantics as well as UML and statecharts

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[Volume 1: Users Manual. Final Report](#) David J. Segal,1976 [UK and Ireland Circumnavigator's Guide 3rd edition](#) Sam Steele,2025-02-13 An indispensable planning manual for all sailors and motorboaters yearning to cruise home waters

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[Iron and Steel Industry and British Foundryman ,1966](#)

**1998 International Conference Software Engineering: Education & Practice** Martin Purvis,Stephen Cranefield,Steve MacDonell,1998 [Proceedings of the ... International Workshop on Community Networking ,1995 Proceedings ,1995](#) [Design/IDEF for Microsoft Windows ,1995](#) [Public Works Manual ,1986](#) [The Software Encyclopedia 2001 ,2001](#) [EURO-DAC ... ,1993](#) [Iron and Steel ,1972](#) [Applied Hydraulics ,1956](#) [Laboratory Manual of Test Procedures, 2005](#) Colorado. Department of Transportation. Materials and Geotechnical Branch,2005

Seventh IEEE International Workshop on Rapid System Prototyping ,1996 Proceedings of the June 1996 workshop focusing on hardware software codevelopment Highlights advances in hardware emulation co simulation of hardware software and mechanical parts RSP for telecom and higher level models for system prototyping and explores subjects including system simulation emulation in a hierarchical sense software prototyping and validation and experiences from specific system prototyping projects Of interest to system designers modeling and tool developers integrated circuit designers and software engineers No index Annotation copyright by Book News Inc Portland OR      Poor's Manual of Railroads ,1903      *African Concord* ,1990

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