

Developer Information

Table of contents

1 CVS.....	2
2 Build dependencies.....	2
3 Build with SCons.....	2
4 NetMidi Server for Windows.....	2
5 Web site.....	3
6 Nomad.....	3
6.1 Dependencies.....	3
6.2 Build libraries.....	3
6.3 Build Nomad.....	4

1. CVS

The module 'nmedit' contains the code currently being developed. Instructions on how to access CVS can be found at [the SF CVS page](#).

2. Build dependencies

- A C++ compiler
- TCL 8.x
- Flex
- Bison
- SWIG
- SCons

3. Build with SCons

To build everything recursively:

```
./sconsbuild.sh
```

The parameter PREFIX can be used to set the installation path.

```
./sconsbuild.sh PREFIX=/usr
```

To install all software:

```
./sconsbuild.sh install
```

To clean all build directories:

```
./sconsbuild.sh -c
```

The same command line parameters work with scons directly if you want to build each library and program separately.

```
cd libs/libppf  
scons install
```

4. NetMidi Server for Windows

NetMidi is a simple MIDI over TCP/IP protocol. The NETMIDI driver in libnmProtocol needs a running NetMidi server to be able to communicate with the NM.

Jan Punter has written a NetMidi server for Windows which is available at <http://www.iaf.nl/Users/BlueHell/prot/netmidi.zip>.

To download patches in Windows, configure and start the NetMidi server. Then run patchloader.exe from a dos prompt.

```
patchloader.exe -d NETMIDI -i localhost:1024 Bahia.pch
```

5. Web site

The website is stored in the CVS module 'website2' (the older website is stored in module 'website'). The [Forrest framework](#) is used to manage the site.

After checking out the site, make sure you have the skin installed, then run a forrest bot to check the site locally.

```
forrest install-skin
forrest run
```

After that the site can be build and uploaded with a command such as (change login name 'wirez' to your own):

```
ant
scp -r build/site/* wirez@nmedit.sf.net:/home/groups/n/nm/nmedit/htdocs/
```

Important: Do not build the website with the command *forrest*. Only use the command *ant*. The environment variable FORREST_HOME must be set to the forrest directory.

6. Nomad

6.1. Dependencies

Nomad has following dependencies

- jNmProtocol
- jPdl
- jPatch, Nord Modular 3.03 implementation
- jSynth, Nord Modular 3.03 implementation
- jTheme
- jMisc
- XPP3 XmlPullParser
- JGoodies looks-2.0.2, forms-1.0.7

The JAR files must be available in the directory 'nomad/lib'.

6.2. Build libraries

Installing required libraries:

Following jar files must be present in the directory nomad/lib.

```
have to be added by the user:
jnmprotocol.jar
jpd1.jar
```

```
jpatch.jar
jsynth.jar
xpp3_min-1.1.3_8.jar
jmisc.jar
jpatch.nordmodular.jar
jsynth.nordmodular.jar

provided by nomad:
looks-2.0.2.jar
forms-1.0.7.jar
```

The Nomad ANT script can help you compiling and installing the required libraries. First assure yourself that following directories are checked out from CVS (and are in the same folder)

```
nmedit/libs
nmedit/nomad
```

Open the nomad directory:

```
cd nomad
```

Build and install the required libraries:

```
ant build-libraries
ant install-libraries
```

You can uninstall these libraries by calling:

```
ant uninstall-libraries
```

You can clean the project directories of the libraries by calling:

```
ant clean-libraries
```

6.3. Build Nomad

Building nomad. This required the libraries to be installed (like described above).

Open the nomad directory:

```
cd nomad
```

Build the project:

```
ant
```

Run nomad:

```
ant nomad
```

Optional: Run nomad user interface editor:

```
ant editor
```

Clean up the project / Remove built files: (Note this step does clean up the directory nomad/lib)

```
ant clean
```