

## What is vnmrsys?

In every user account is a directory called "vnmrsys". This is a VNMR system directory. In this directory, are many subdirectories. These subdirectories are probably empty unless the user or someone else has put in a new macro, pulse sequence, shim file, parameter file, etc.

The most significant of the subdirectories:

**psglib** - pulse sequence library, contains *uncompiled* pulse sequences

**seqlib** - sequence library, contains the compiled, executable versions of pulse sequences

**maclib** - macro library

**shims** - stores saved shim files

**parlib** - (may need to be created) parameter files

**probes** - probe calibration files

**shapelib** – shaped pulse files

**manual** – manual pages for corresponding pulse sequences

The global "vnmrsys" directories are found in the /vnmr directory (a few directories up from a personal directory). The global directories, like psglib, contains all the pulse sequences, macros, parameters, shims etc. available to everyone. To see the pulse sequences available on a specific machine, you can look in the psglib in the /vnmr directory. The main /vnmr subdirectories can only be altered by facility staff who have authorization. Files can be copied into a personal vnmrsys and altered there. Macros, pulse sequences, parameter files, etc. in a personal vnmrsys will be accessed preferentially to the global vnmrsys.

To put a new pulse sequence into the vnmrsys, copy the uncompiled sequence (file.c) into the psglib. Also, copy any necessary macros into the maclib, any parameters into the parlib.

To compile a sequence copied into the psglib from a UNIX shell,

```
>seqgen pulseq
```

or from the VNMR command line:

```
>seqgen('pulseq')
```

This will compile the sequence and put the executable into the seqlib.

After loading Protein Pack, the corresponding pulse sequences will be placed in the psglib and the installation will include compiling these sequences into the seqlib. Manual pages will be placed in the vnmrsys/manual directory and all corresponding parameters into the parlib.