Pirana

The flexible modeling environment for NONMEM

Quick Guide: Setting up and working with a cluster over SSH on Windows

Version 1.1

Scope

This Pirana Quick Guide explains how add NONMEM (nmfe) installations to Pirana. This procedure is not required for PsN installations, which are automatically recognized if PsN is configured appropriately. It will also be discussed how to set up installations that use Intel Fortran v11 as compiler within Pirana. Note: in this quick guide it will be assumed that you already have installed NONMEM.

Add NONMEM installation setting window

- Go to File → Settings → NONMEM. The dialog window shown in Figure 1 appears.
- In this dialo, local (top part) and remote (bottom part) NONMEM installations may be defined.

Adding local nonmem installations

- By pressing the Find icon (Figure 1, blue square), Pirana will automatically attempt to find any local NONMEM installations at common installation locations.
- If you installed NONMEM at a non-standard location and Pirana is not able to find it automatically, you will have to add it manually, by pressing the + button (Figure 1, red square).
- A window (Figure 2) will appear where the name and location of the NONMEM installation may be entered. The version of NONMEM will be automatically detected.
- After adding NONMEM installations, please press the Save button (Figure 1). The local NONMEM installations will then be available in Pirana.

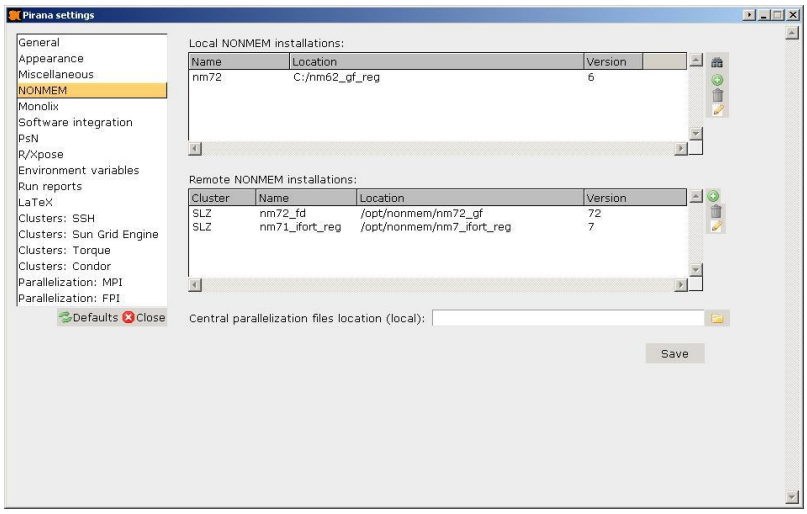

Figure 1: Adding a NONMEM installation

Figure 2: Adding a local NONMEM installation

Adding remote nonmem installations

- Auto-detection of NONMEM installations is not available for remote NONMEM installations, they will have to be added manually.
- Press the + button next to **Remote NONMEM** installations, to add a remote installation.
- A window (Figure 3) appears, in which the installation name, the associated cluster, the location and the version can be defined.
- After adding NONMEM installations, press the Save button (Figure 1). The remote NONMEM installations are now available in Pirana.

Using Intel Fortran 11 for Windows together with NONMEM/PsN

The Intel Fortran 11 compiler requires the user to set several environmental variables. If these variables are correctly defined system-wide, NONMEM installations using Intel Fortran should already work. However, if you are not able to set the environment variables system-wide, or you experience problems, you can also use Pirana to set them for you.

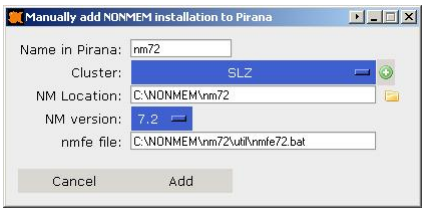

Figure 3: Adding a remote NONMEM installation

- Please refer to posts on NMusers (such as this one) where it is explained how environmental variables should be defined for Intel Fortran. These may differ slightly from system to system, so we can't give a fixed solution here. The common way in Windows to set these environment variables is by going to the Control panel → System settings → Environment variables. However, Pirana offers three alternative solutions to define the required environmental variables.
- The first option is through Tools → NONMEM → Environmental variables. Setting the environment variables here will set them prior to executing a model (nmfe-only).
- The second option is through File → Settings → Software integration → 'Add this to path at Pirana startup. Note that this only adds locations to the PATH environment variable. Most likely, you will have to set a few more environment variables as well.
- The last option is by adding a text file add_env.txt or set_env.txt to the main Pirana folder. These text files can be used to **add** to or **set** any environmental variables. These files could for instance look as below.

```
PATH=C:\nmvi\run;C:\MinGW\bin
LIB=C:\Program files\Intel
fortran\bin
```