

Wikiprint Book

Title: prolog.wrf4g file

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prolog.wrf4g configuration file allows to specify tools to be used locally on the remote computing resources. This file has to be in the directory which **experiment.wrf4g** is located. In order to help you, we show two possible examples below:

In this first example, we want to use our own WRF, WPS and NetCDF library compilation available on remote computing resources. If we assume that all the jobs from an experiment has access to a local version on the user's HOME firectory. After that, WRF4G will use there binaries (**ungrib.exe**, **metgrid.exe**, **real.exe**, **wrf.exe** and **ncdump**) in order to simulate the experiments.

```
[user@mycomputer~]$ cat prolog.wrf4g
export PATH=~/WPS:$PATH
export PATH=~/WRFV3/run:$PATH
export PATH=~/netCDF/bin:$PATH
```

This second example presents a bash shell code which basically distinguishes between two resources using \$GW_HOSTNAME variable.

```
[user@mycomputer~]$ cat prolog.wrf4g
if [ $GW_HOSTNAME = mycomputer ]; then
    use WRFV3.3.1
    use netCDF4.1.1.3
fi

if [ $GW_HOSTNAME = mycomputer2 ]; then
    use WRFV3.3.3
    use netCDF4.3.3
fi
```

How to know the value of all \$GW_HOSTNAME variable?

```
[user@mycomputer~]$ wrf4g_resources | awk {'print $11'}
HOSTNAME
mycomputer
mycomputer2
```