

Wikiprint Book

Title: WRF configuration

Subject: TracMeteo - WRF4G2.0/WRFAPP

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To use WRF through WRF4G2, you need to configure the `app` variable in the [experiment.wrf4g](#) file. By default, WRF4G2 provides a bundle with all you need to simulate a WRF experiment, which is configured as follows :

```
app = wrf_all_in_one | bundle | /home/user/wrf4g/repository/apps/WRF/WRFbin-3.4.1_r2265_gfortran.tar.gz
```

This bundle can be used on x86_64 Linux systems, and contains binaries, libraries and configuration files for WRF-3.4.1 build against gfortran-4.4.7, openmpi-1.4.3 and netcdf-4.1.3, which are included in the bundle too (hence, all in one).

This configuration is quite useful

However, if you'd like to use your own WRF, installed on your machine or on a cluster, you can do so by updating the `app` variable. There are several ways to configure this variable depending on your WRF configuration. Let's see some examples:

Using [?module](#) command:

```
app = wps | command | module load wps/4.5.1
      wrf | command | module load wrf/4.5.1
```

We assume that each command is configuring other pieces of software

Using `PATH` and `LD_LIBRARY_PATH` environment variables:

```
app = netcdf_bin | command | PATH=/home/user/netcdf-4.1.3/bin/:$PATH
      netcdf_lib | command | LD_LIBRARY_PATH=/home/user/netcdf-4.1.3/lib/:$LD_LIBRARY_PATH
      wrf_bin     | command | PATH=/home/user/WRF4.5.1/:$PATH
```

- If WRF is already configured and readily accessible (i.e. in the search path) on your system, you do not need to use the `app` variable.

As you might have probably noticed, we didn't mention heavy input files required by some WRF configurations (e.g. `CAM_ABS_DATA`, `CAM_AEROPT_DATA`, `co2_trans`, etc). In order to make them available for a specific WRF experiment