Computing centers and environments

The supported computing centers (also called computing environment) that can be used with the IPSL Climate Modeling Center tools and models are described in this chapter.

Table of Content

1. IDRIS

The IDRIS (*Institute for Development and Resources in Intensive Scientific Computing*) is one of the 3 national high performance computing centers of CNRS. The center is located at Orsay (Essonne). All of the IPSL models and tools are supported and maintained for the IDRIS's CPU machine.

IDRIS environment

2. TGCC

The TGCC (*Très Grand Centre de Calcul*) is another one of the 3 national high performance computing centers of CNRS. The center is located on the CEA site, at Bruyères-le-Châtel (Essonne). All of the IPSL models and tools are supported and maintained for the TGCC's CPU machine.

TGCC environment

3. CINES

The CINES (*Centre Informatique National de l'Enseignement Supérieur*) is the third national high performance computing centers of CNRS. The center is located at Montpellier (Hérault). The tools modipsl/libIGCM are not maintained for this center's machine.

CINES environment (not supported)

4. LSCE

The LSCE (*Laboratoire des Sciences du Climat et de l'Environnement*) has his own cluster on which you can use a part of the IPSL models and tools.

LSCE computing environment

5. IPSL ESPRI mesocenter

ESPRI IPSL-UPMC, located at Jussieu in Paris and ESPRI IPSL-X, located at Polytechnique, Palaiseau (Essonne) contain the new computing clusters **spirit** and **spirtix** and as well the old clusters **ciclad** and **climserv**. A part of the IPSL models and tools are supported for these machines.

ESPRI computing clusters

6. Local PC or other cluster

Short guide to install a configuration on a local PC or other cluster.

7. Shared files

Information about the necessary files to properly use the IPSL tools and models.

- Shared files in synchronized repository IGCM
- Informations on nudges files and limit.nc predefined