FOSS EDA / Coriolis Repositories

Contents

The goal of the FOSS EDA and Coriolis repositories is to provide an *out of the box* way to install the Coriolis toolchain along with all the third party tools needed to fully use it.

- **Rollback and determinism**. Not only the latest versions of the tools are provided, but also all prior versions are kept availables. This way you can always rebuild previous designs in a fully deterministic way.

- **Fast pace update**. We intend to keep the packages in close synchronisation with the developement release. Those repositories must be understood as *rolling release*.

Supported Distributions

- AlmaLinux 8 (missing: klayout).

- AlmaLinux 9.

- Fedora 40.

- Fedora 41.

- openSUSE Leap 15.6.

- openSUSE Tumbleweed.

- Debian 12.

- Ubuntu 22.04 LTS.

- Ubuntu 24.04 LTS.

- Ubuntu 24.10.

Provided Softwares

Software	Web Site	Package name
Coriolis	https://coriolis.lip6.fr/	`coriolis-eda`
Yosys	https://yosyshq.net	`yosys`
klayout	https://klayout.de/	`klayout`
Tas/Yagle	https://coriolis.lip6.fr/	`tas-yagle`
OpenVAF	https://openvaf.semimod.de/	`openvaf`

Provided PDKs

PDK Web Site		Package name
IHP 130nm (SG13G2)	IHP Open PDK	`coriolis-pdk-ihpsg13g2`
C4M PDKMaster for IHP SG13G2	PDKMaster	`coriolis-pdk-ihpsg13g2-c4m`

Note

The PDKs are installed as *Python wheels*, so their data are stored under:

```
/usr/lib64/pythonV.RR/site-packages/pdks  (RPM based distributions)
/usr/lib/python3/dist-packages/pdks       (DEB based distributions)
```

Is convenient to install them as Python wheel so the toolchain, whose management part is written is Python, will always be able to import them regardless of the distribution specific layout.

Using the Repositories

The various configuration files for the repositories are available here:

Distributions	`.repo` (rpm) or `.sources` (deb)
AlmaLinux 8	https://ftp.lip6.fr/lip6/softs/coriolis/etc/fossEDA_al8.repo
AlmaLinux 9	https://ftp.lip6.fr/lip6/softs/coriolis/etc/fossEDA_al9.repo
Fedora 40	https://ftp.lip6.fr/lip6/softs/coriolis/etc/fossEDA_f40.repo
Fedora 41	https://ftp.lip6.fr/lip6/softs/coriolis/etc/fossEDA_f41.repo
openSUSE Leap 15.6	https://ftp.lip6.fr/lip6/softs/coriolis/etc/fossEDA_SUSELeap.repo
openSUSE Tumbleweed	https://ftp.lip6.fr/lip6/softs/coriolis/etc/fossEDA_SUSETumbleweed.repo
Debian 12	https://ftp.lip6.fr/lip6/softs/coriolis/etc/fossEDA_deb12.sources
Ubuntu 22.04 LTS	https://ftp.lip6.fr/lip6/softs/coriolis/etc/fossEDA_ubu22_04.sources
Ubuntu 24.04 LTS	https://ftp.lip6.fr/lip6/softs/coriolis/etc/fossEDA_ubu24_04.sources

Distributions	`.repo` (rpm) or `.sources` (deb)
Ubuntu 24.10	https://ftp.lip6.fr/lip6/softs/coriolis/etc/fossEDA_ubu24_10.sources

Direct access to the directory holding the files:

https://ftp.lip6.fr/lip6/softs/coriolis/etc/

For RPM based systems (Fedora, AlmaLinux, SUSE)

As you are installing the tools natively in your distributions, those operations are to be done as `root`.

1. From the `etc/` directory of the ftp site, download the relevant `*.repo` file, then copy it under `/etc/yum.repos.d/`.

```
root@pc:~> wget https://ftp.lip6.fr/lip6/softs/coriolis/etc/fossEDA_al9.repo
root@pc:~> mv fossEDA_al9.repo /etc/yum.repos.d/
```

2. Install the PDK you want to work with, all the tools needed to use it will be installed with it as dependencies.

```
root@pc:~> dnf group install fossEDA
```

For DEB based systems (Debian, Ubuntu)

As you are installing the tools natively in your distributions, those operations are to be done as `root`.

1. From the `etc/` directory of the ftp site, download the relevant `*.sources` file, then copy it under `/etc/apt/sources`

```
you@pc:~> wget https://ftp.lip6.fr/lip6/softs/coriolis/etc/fossEDA_ubu24_10.source
you@pc:~> sudo mv fossEDA_ubu24_10.sources /etc/apt/sources.list.d/
```

2. Install the PDK you want to work with, all the tools needed to use it will be installed with it as dependencies.

```
you@pc:~> sudo apt update
you@pc:~> sudo apt install coriolis-pdk-ihpsg13g2-c4m
```