

The Calorimeter UTILITIES package v. 1.01 README
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In this README file there is a description of how to install the calorimeter utilities package and how to configure the PAMELA working environment.

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1) INSTALLATION:

The software has been written to satisfy the PAMELA repository requirements. These software is required to install the other packages.

Installation steps:

a) download the calorimeter common software. You can find the software on the PAMELA afs repository:

```
/afs/ba.infn.it/user/pamela
```

or you can download it from the WEB, in this case go to:

```
http://pcba28.ba.infn.it/cgi-bin/cvsweb.cgi
```

from the menu "CVS Root" choose "PAMELA repository", click on "calo", "UTILITIES" and click on "Download this directory in [tarball](#) or [zip archive](#)" depending on your preferences.

b) once you have downloaded your package unpack it somewhere.

c) enter the "UTILITIES" directory, you will find these file and directories:

```
doc/ macros/ inc/ src/ bin/ lib/ Makefile calib/ data/
```

d) make sure you have set up your PAMELA environmental variables and directories. To do so, choose a path where you want to install the PAMELA software (let's say /mydirectory/pamela/) and create the following directories: bin , lib , src , inc , macros , docs , calib .

Then edit your login configuration file (people using bash shell will edit \$HOME/.bashrc , people using tcsh will edit \$HOME/.tcshrc and so on), and add the following environmental variables:

```
export PAM_BIN=/mydirectory/pamela/bin  
export PAM_LIB=/mydirectory/pamela/lib  
export PAM_SRC=/mydirectory/pamela/src  
export PAM_INC=/mydirectory/pamela/inc  
export PAM_MACROS=/mydirectory/pamela/macros  
export PAM_DOC=/mydirectory/pamela/docs  
export PAM_CALIB=/mydirectory/pamela/calib  
export PAM_YODASRC=/mydirectory/pamela/yoda/yodaX_YYY/
```

```
export PAM_YODALIB=/mydirectory/pamela/yoda/lib/
```

The last two variables determines where is the source of YODA and the path to the installed YODA libraries.

I also suggest to add the PAMELA bin directory to your default bin path but this is not essential:

```
export PATH=$PATH:$PAM_BIN
```

People using tcsh will use "setenv" instead of "export" and will put a space at the place of the sign "equal". This set up has to be done once forever.

e) once the PAMELA environment is set, just cd to the "COMMON" directory and give:

```
make all install
```

the program will check the system and create the needed libraries. Then it will install the calorimeter common package in the paths you have given.

If you are upgrading an older version, use "make all forceinstall" to force the installation of latest programs or "make all upgrade" to force the installation and to delete the old libraries.
