# FGDSOUT  3.0

# User Manual

Author : O. MAROT

Date :  December 2004

# 1

## 1.1  Specification of user units :

Dimensional values specified in FGDSOUT template are always integers. This is mandatory to avoid precision loss.  When the circuit dimensions are not integers, the user can specify units in 1/10 micron or 1/100 microns, etc..

This is done by adding UNIT=10 or UNIT =100 in the beginning of the template file. But in this case all the dimensions of the template must have the same unit. If UNIT is not specified,  it is assumed to be 1.

example :

The following is an example of beginning of template file with unit =1/100 microns.

TECHNO HCMOS5

 GDSCELLNAME="ESSAI"

 SCALE=1000.00

 **UNIT=100**

 GDSDIR="/user310/librat/hcmos5/litho_hc5"{

.....

## 1.2  Specification of GDS2 units :

This achieved by the SCALE factor , which must be a float. (see previous example).

## 1.3   Rename of GDS2 cells

When conflict ocuurs in GDS2 cellnames, user can ask FROG to rename all the GDS2 cellname , to avoid cellname ambiguity. This is done by calling fgdsout program with the option -rename. In this case, an incremented index is added at the end of each cell name.

## 1.4   Other useful functionnalities implemented :

MASTERBBOX remains the physical bbox.

This is useful to respect spacing constraints.