

# Fichier de Configuration du générateur

```
<?xml version="1.0" encoding="ISO-8859-1" ?>

<!-- comment -->

<parameters>

  <parameter name="..."
             min="..."
             max="..."
             step="..."
             default="..."
             level="..." />

  <link      src="..."
             dest="..." />

</parameters>
```

- **balise parameters** : (*obligatoire et unique*) Balise englobante
  - ◆ **balise parameters** : (*nombre quelconque d'occurrence*) Un paramètre du générateur.
    - ◇ **attribut name** : Nom du paramètre
    - ◇ **attribut min** : Valeur minimal du paramètre
    - ◇ **attribut max** : Valeur maximal du paramètre
    - ◇ **attribut step** : Pas entre deux valeurs de paramètres (par exemple +1 ou \*2)
    - ◇ **attribut default** : Valeur par défaut de ce paramètre
    - ◇ **attribut level** : Niveau requis pour que l'utilisateur puisse voir ce paramètre. Le niveau varie de 0 (paramètre jamais affiché) 1 (affichage de presque aucun des paramètres (mode néophyte) à 5 (affichage de tous les paramètres (mode expert))
  - ◆ **balise link** : (*nombre quelconque d'occurrence*) Indication d'un lien entre deux composants du processeur.
    - ◇ **attribut name** : Nom du paramètre
    - ◇ **attribut src** : Source du lien.
    - ◇ **attribut dest** : Destination du lien.

Ce qui suit est un exemple de fichier de configuration du générateur.

```
<?xml version="1.0" encoding="ISO-8859-1" ?>

<!-- comment -->

<parameters>

  <parameter name="nb_icache"           min="1"    max="32"   step="+1"  default="1"
  <parameter name="nb_dcachec"         min="1"    max="32"   step="+1"  default="1"
  <parameter name="nb_front_end"       min="1"    max="8"    step="+1"  default="1"
  <parameter name="nb_ifetch"          min="1"    max="8"    step="+1"  default="1"
  <parameter name="nb_decod"           min="1"    max="8"    step="+1"  default="1"
  <parameter name="nb_out_of_order_engine" min="1"    max="8"    step="+1"  default="1"
  <parameter name="nb_execution_loop"  min="1"    max="8"    step="+1"  default="1"
  <parameter name="nb_reservation_station" min="1"    max="8"    step="+1"  default="1"
  <parameter name="nb_execution"       min="1"    max="8"    step="+1"  default="1"
  <parameter name="nb_writeback"       min="1"    max="8"    step="+1"  default="1"

  <parameter name="arbiter"            min="1"    max="4"    step="+1"  default="1"
  <parameter name="associativity"      min="1"    max="4"    step="+1"  default="1"
  <parameter name="bypass_execute_gpr" min="0"    max="1"    step="+1"  default="1"
```

```

<parameter name="bypass_execute_spr" min="0" max="1" step="+1" default="1"
<parameter name="bypass_memory_in" min="0" max="1" step="+1" default="1"
<parameter name="bypass_memory_out" min="0" max="1" step="+1" default="1"
<parameter name="commit_out_of_order_thread" min="0" max="1" step="+1" default="0"
<parameter name="have_meta_predictor" min="0" max="1" step="+1" default="0"
<parameter name="keep_data" min="0" max="1" step="+1" default="1"
<parameter name="nb_branch_complete" min="1" max="8" step="+1" default="1"
<parameter name="nb_branch_decod" min="1" max="8" step="+1" default="1"
<parameter name="nb_gpr_free" min="1" max="4" step="+1" default="1"
<parameter name="nb_gpr_physical" min="32" max="512" step="*2" default="1"
<parameter name="nb_inst" min="1" max="8" step="+1" default="1"
<parameter name="nb_port" min="1" max="8" step="+1" default="1"
<parameter name="nb_prediction" min="1" max="8" step="+1" default="1"
<parameter name="nb_spr_free" min="1" max="4" step="+1" default="1"
<parameter name="nb_spr_physical" min="2" max="512" step="*2" default="1"
<parameter name="one_queue" min="0" max="1" step="+1" default="1"
<parameter name="predictor_0_have_bht" min="0" max="1" step="+1" default="0"
<parameter name="predictor_0_have_pht" min="0" max="1" step="+1" default="0"
<parameter name="predictor_0_bht_nb_shifter" min="1" max="8" step="+1" default="1"
<parameter name="predictor_0_bht_size_shifter" min="1" max="8" step="+1" default="1"
<parameter name="predictor_0_pht_nb_counter" min="1" max="8" step="+1" default="1"
<parameter name="predictor_0_pht_size_address_share" min="1" max="8" step="+1" default="1"
<parameter name="predictor_0_pht_size_counter" min="1" max="8" step="+1" default="1"
<parameter name="predictor_1_have_bht" min="0" max="1" step="+1" default="0"
<parameter name="predictor_1_have_pht" min="0" max="1" step="+1" default="0"
<parameter name="predictor_1_bht_nb_shifter" min="1" max="8" step="+1" default="1"
<parameter name="predictor_1_bht_size_shifter" min="1" max="8" step="+1" default="1"
<parameter name="predictor_1_pht_nb_counter" min="1" max="8" step="+1" default="1"
<parameter name="predictor_1_pht_size_address_share" min="1" max="8" step="+1" default="1"
<parameter name="predictor_1_pht_size_counter" min="1" max="8" step="+1" default="1"
<parameter name="predictor_2_have_bht" min="0" max="1" step="+1" default="0"
<parameter name="predictor_2_have_pht" min="0" max="1" step="+1" default="0"
<parameter name="predictor_2_bht_nb_shifter" min="1" max="8" step="+1" default="1"
<parameter name="predictor_2_bht_size_shifter" min="1" max="8" step="+1" default="1"
<parameter name="predictor_2_pht_nb_counter" min="1" max="8" step="+1" default="1"
<parameter name="predictor_2_pht_size_address_share" min="1" max="8" step="+1" default="1"
<parameter name="predictor_2_pht_size_counter" min="1" max="8" step="+1" default="1"
<parameter name="size_data" min="32" max="64" step="*2" default="32"
<parameter name="size_queue" min="1" max="32" step="*2" default="1"
<parameter name="size_windows" min="1" max="32" step="*2" default="1"
<parameter name="speculated_memory_read" min="0" max="1" step="+1" default="1"
<parameter name="type_mul" min="0" max="1" step="+1" default="0"
<parameter name="type_div" min="0" max="1" step="+1" default="0"
<parameter name="type_ext" min="0" max="1" step="+1" default="0"
<parameter name="type_ff1" min="0" max="1" step="+1" default="0"
<parameter name="type_ff1" min="0" max="1" step="+1" default="0"

<link name="link_icache" src="front_end" dest="icache"
<link name="link_dcache" src="execution_loop" dest="dcache"
<link name="link_out_of_order_engine" src="front_end" dest="out_of_order_engine"
<link name="link_decod" src="ifetch" dest="decod"
<link name="link_rename" src="decod" dest="rename"
<link name="link_execution_loop" src="out_of_order_engine" dest="execution_loop"

</parameters>

```