

# Fichier de Configuration du générateur

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

<!-- comment -->

<parameters>

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

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

</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)).
    - ◇ **attribut description** : Description du paramètre.
  - ◆ **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.
    - ◇ **attribut description** : Description du paramètre.

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_dcach" 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_ffl"                           | min="0"                   | max="1"                    | step="+1" | default="0"  |
| <parameter name="type_fll"                           | 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>