

# Exemple d'inclusion de code CHP dans un document L<sup>A</sup>T<sub>E</sub>X

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Voici un code CHP :

```
component mux4 port (
  S  : OUT DI PASSIVE DR;
  C  : IN  DI ACTIVE  MR[4][1];
  I0 : IN  DI ACTIVE  DR;
  I1 : IN  DI ACTIVE  DR;
  I2 : IN  DI ACTIVE  DR;
  I3 : IN  DI ACTIVE  DR)

begin
  process mux4 port (
    S  : OUT DI PASSIVE DR;
    C  : IN  DI ACTIVE  MR[4][1];
    I0 : IN  DI ACTIVE  DR;
    I1 : IN  DI ACTIVE  DR;
    I2 : IN  DI ACTIVE  DR;
    I3 : IN  DI ACTIVE  DR)
    variable x      : DR;
    variable cmd    : MR[4][1];
    begin
      [
        C?cmd;
        @[
          cmd="0"[4] => I0?x; S!x; break
          cmd="1"[4] => I1?x; S!x; break
          cmd="2"[4] => I2?x; S!x; break
          cmd="3"[4] => I3?x; S!x; break
        ];
      loop
    ];
  end;
end;
```