

Figure 1: Internal scheme

## 2.2 Instruction fetch

set architecture specification, mod

17 Idib r5, 0 ; mode

19



Figure 2: Simulation results

## 5.2 Computing factorials

The example in 2 computes the factorials of 1 . . . 9 and writes the results to the PC via UART. Note that the last result transmitted will be wrong, because it is truncated to 16 bits.

Listing 2: Computing factorials

```
r8, lo(iobuf)
r8, hi(iobuf)
r9, lo(convert)
r9, hi(convert)
                  ldil
ldih
38
                  ldil
40
                  ldih
41
42
                               r12, -8
r11, (1 << 2)
r11, r12
                                                        ; enable write interrupts
43
                  ldib
                  ldib
44
45
                  store
46
                  ldil
                               r12, lo(nter
47
```

101 written: 102 getshfl r10