**package** micro1

**public**

**system** radar\_simple

**end** radar\_simple;

**system** **implementation** radar\_simple.impl

**subcomponents**

laMemoire:**memory** Ram;

Lemotor:**device** rotor;

L\_ecran:**device** screen;

L\_antenne: **device** antenne;

LeBUS:**bus** VME;

Themain:**process** processing;

CPU:**processor** leon2;

**connections**

C1:**bus** **access** LeBUS->laMemoire.bus\_acces;

C2:**bus** **access** LeBUS->CPU.bus\_acces;

C3:**bus** **access** LeBUS->L\_antenne.bus\_acces;

C4:**bus** **access** LeBUS->L\_ecran.bus\_acces;

C5:**bus** **access** LeBUS->Lemotor.bus\_acces;

C6:**port** Themain.to\_screen->L\_ecran.screen\_in;

C7:**port** Lemotor.rotor\_out->Themain.get\_angle;

C8:**port** Themain.send\_pulse->L\_antenne.antenne\_in;

C9:**port** L\_antenne.antenne\_out->Themain.receive\_pulse;

**end** radar\_simple.impl;

**processor** leon2

**features**

bus\_acces:**requires** **bus** **access** VME;

**end** leon2;

**processor** **implementation** leon2.impl

**end** leon2.impl;

**process** processing

**features**

to\_screen:**out** **event** **port**;

send\_pulse:**out** **event** **port**;

get\_angle:**in** **data** **port**;

receive\_pulse:**in** **event** **data** **port**;

**end** processing;

**process** **implementation** processing.impl

**end** processing.impl;

**memory** Ram

**features**

bus\_acces:**requires** **bus** **access** VME;

**end** Ram;

**device** screen

**features**

bus\_acces:**requires** **bus** **access** VME;

screen\_in:**in** **event** **port**;

**end** screen;

**device** rotor

**features**

bus\_acces:**requires** **bus** **access** VME;

rotor\_out:**out** **data** **port**;

**end** rotor;

**device** antenne

**features**

bus\_acces:**requires** **bus** **access** VME;

antenne\_in:**in** **event** **port**;

antenne\_out:**out** **event** **data** **port**;

**end** antenne;

**bus** VME

**end** VME;

**bus** **implementation** VME.impl

**end** VME.impl;

**end** micro1;