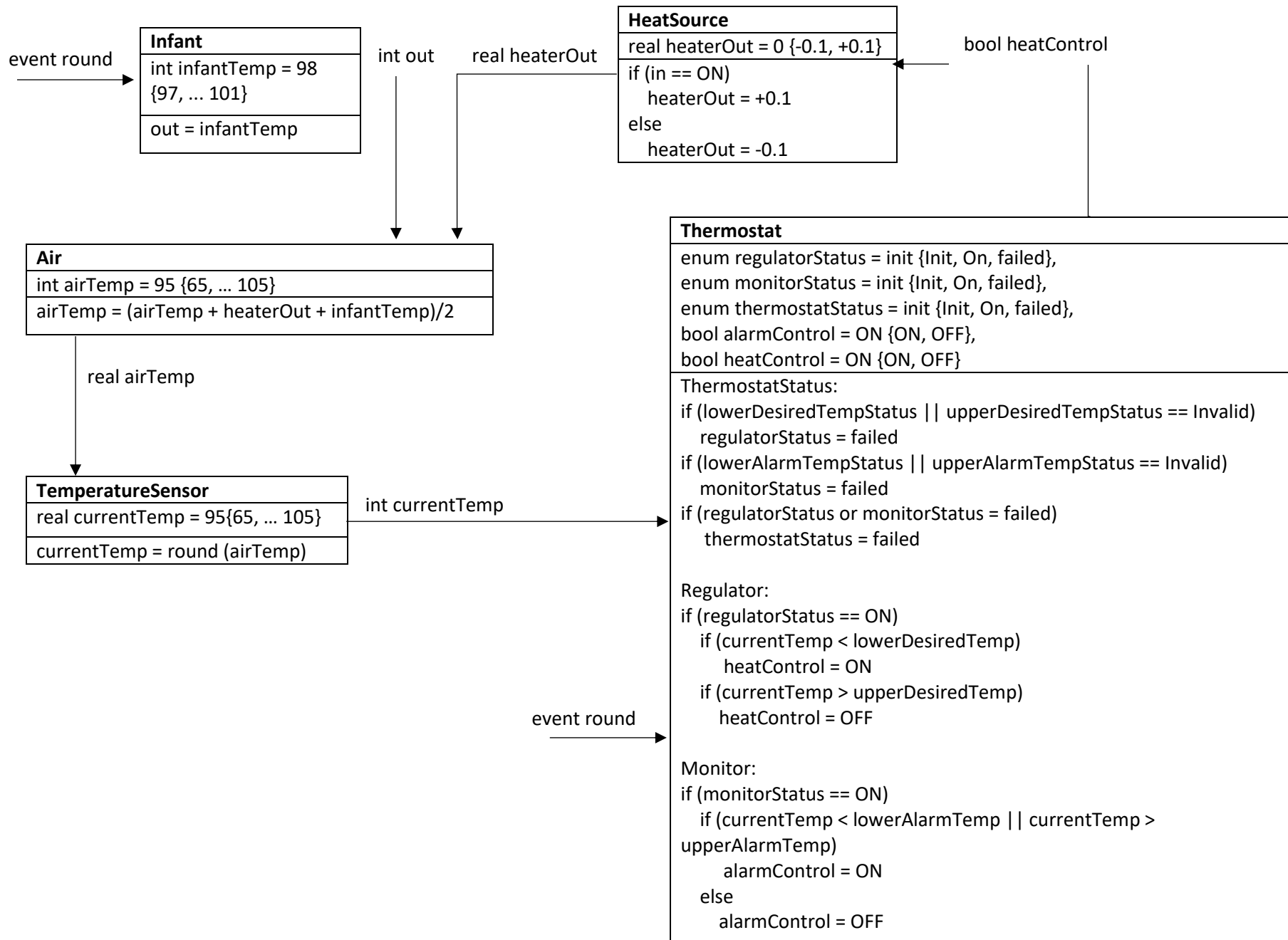


1 Round = 6 Seconds



OperatorInterface

bool alarmStatus = OFF {ON, OFF}
enum lowerDesiredTempStatus = invalid {Valid, Invalid}
enum upperDesiredTempStatus = invalid {Valid, Invalid}
enum lowerAlarmTempStatus = invalid {Valid, Invalid}
enum upperAlarmTempStatus = invalid {Valid, Invalid}
int displaytemp = 95 {65, ... 105}

ValidateInput:

if (lowerAlarmTemp < 93 or >98 or (lowerDesiredTemp - lowerAlarmTemp) > 1)
 lowerAlarmTempStatus = Invalid
if (lowerDesiredTemp < 97 or >99 or (upperDesiredTemp - lowerDesiredTemp) > 1
or (lowerDesiredTemp - lowerAlarmTemp) > 1)
 lowerDesiredTempStatus = Invalid
if (upperDesiredTemp < 98 or >100 or (upperDesiredTemp - lowerDesiredTemp) > 1
or (upperAlarmTemp - upperDesiredTemp) > 1)
 upperDesiredTempStatus = Invalid
if (upperAlarmTemp < 99 or >103 or (upperAlarmTemp - upperDesiredTemp) > 1)
 upperAlarmTempStatus = Invalid
alarmStatus = alarmControl

out1 = {lowerDesiredTempStatus, upperDesiredTempStatus,
lowerAlarmTempStatus, upperAlarmTempStatus}

enum out1[]

Thermostat

bool alarmControl

enum thermostatStatus

event round

enum thermostatStatus

int displayTemp

bool alarmStatus

int inTemp []

bool control

Nurse

int lowerDesiredTemp = 97 {97, ... 99},
int upperDesiredTemp = 98 {98, ... 100}
int lowerAlarmTemp = 93 {93, ... 98}
int upperAlarmTemp = 99 {99, ... 103}
bool control = OFF {ON, OFF}

InitializeValues:

<< set/ change values according to the
operator interface feedback>>

choose: lowerDesiredTemp = {97, ... 99}
choose: upperDesiredTemp = {98, ... 100}
choose: lowerAlarmTemp = {93, ... 98}
choose: upperAlarmTemp = {99, ... 103}

inTemp = {lowerDesiredTemp,
upperDesiredTemp, lowerAlarmTemp,
upperAlarmTemp}