```
// Do the experiment: collect e.g. data to a shared memory
   AccGvro = inlist(1):
    [sim] = ld printf(sim, 0, AccGvro, "Collecting data ... ", 6):
   outlist=list(out):
endfunction
function [sim, outlist, userdata]=whileComputing(sim, ev, inlist, userdata)
   // While the computation is running this is called regularly
   [sim, out] = ld const(sim, ev. 0):
   outlist=list(out):
endfunction
function [sim, outlist, userdata]=whileIdle(sim, ev, inlist, userdata)
   // When no calibration or computation is active
   AccGyro = inlist(1);
   [sim, out] = ld const(sim, ev, 0);
   outlist=list(out);
endfunction
function [sim, CalibrationOk, userdata]=evaluation(sim, userdata)
   // Will run in a thread in background execution mode. Only one time step is executed here.
   // Embedded e.g. a Scilab script that will be called once to perform the calibration
    [sim, Calibration] = ld scilab2(sim, 0, in=CombinedData, comp fn=scilab comp fn, include scilab fns=list(),
                                            scilab path="BUILDIN PATH"):
   // Tell ld AutoExperiment that the calibration was successful
    [sim, oneint32] = ld constvecInt32(sim, 0, vec=1)
   CalibrationOk = oneint32:
endfunction
[sim, finished, outlist] = ld AutoExperiment(sim, ev, inlist=list(AccGyro, Ts), insizes=[6,1], outsizes=[1], ...
                                   intypes=[ORTD.DATATYPE FLOAT,ORTD.DATATYPE FLOAT], ...
                                   outtypes=[ORTD.DATATYPE FLOAT], ...
                                   ThreadPrioStruct, experiment, whileComputing, evaluation, whileIdle);
```

function [sim, finished, outlist, userdata]=experiment(sim, ev, inlist, userdata)