```
system ADS
                                               system Plant
properties
                                               features
  Period => 3sec:
                                               Ecurr xego: out data port:
  EnvAADL::Sampling Time => 10ms..30ms;
                                               Ecurr vego: out data port:
  EnvAADL::Response Time => 40ms..60ms;
                                               Econtl aego: in data port:
  VehiclePhysics::Mass => 1500:
  VehiclePhysics::Length => 2.0:
                                               properties
  VehiclePhysics::CRotInert=> 1.2;
                                                 EnvAADL::isPlant => true:
  VehiclePhysics::CRollResis => 0.015;
                                               end ADSController:
end ADS:
                                               system implementation Plant.impl
                                               subcomponents
                                               x ego:data{Data Model::Real Range=>0..0;}:
system implementation ADS.impl
                                               v ego:data{Data Model::Real Range=>10..10;};
subcomponents
Plant:system Plant.impl
                                               a ego: data{Data Model::Real Range=>0..0;};
Env:system Environment.impl;
Contl:process ControlProcess.impl;
                                               connections
                                               C1:port x ego->Ecurr xego
connections
                                               C2:port v ego->Ecurr vego
C1:port Env.Efriction->Contrl.Efriction;
C2:port Env.Eslope -> Contrl.Eslope;
                                               properties
C3:port Env.Ex env -> Contrl.Ex env;
                                               EnvAADL::ContinuousDvnamics =>
C4:port Env.Ev env -> Contrl.Ev env;
                                                 "x ego'=v ego;v ego'=a ego; ...";
C5:port Env.Ea env -> Contrl.Ea env;
C6:port Plant.Ecurr xego -> Contrl.Ecurr xego;
                                               end Plant.impl
C7:port Plant.Ecurr vego -> Contrl.Ecurr vego;
C8:port Contrl.Econtl aego->Plant.Econtl aego;
end ADS:
```

Plant component

Top-level system