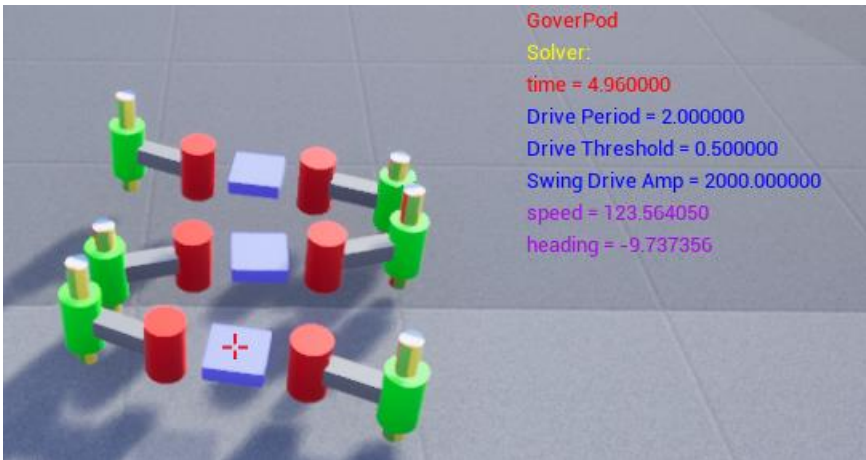


GoverPod Mini-Project Brief

CBP 10-02-23

Here's what you get when you open map **GoverPod_Map1**



and here's some ideas for investigations.

Robot Motion – Principal Parameters

Effect of parameters on the robot motion. In particular how to get it to move fast.

- Important Parameters
 - Drive Period
 - Drive Threshold
 - Swing Drive Amp
 - Lift Drive Amp
- How to describe robot motion
 - Measure its forward speed (Octave file autogenerated)
 - Observe its X-Y trajectory (Octave file) does it move straight or arc. If the latter what is the radius?
 - Look at variations in speed (Octave file)
 - Direct observations of the robot motion in Unreal. You could consider,
 - The whole robot
 - Its Legs and Feet

Robot Motion – Additional Parameters

How do the joint parameters affect its motion?

Additional Investigations

Up to you. Here's some ideas.

- Test the robot going up inclines of various slopes.
- Test the robot traversing uneven terrain (create some sleeping policemen)
- What happens if you amputate one leg?