```
NotebookDirectory[]
SetDirectory[NotebookDirectory[]]

FileNames[]
rawData = Import["accels.txt", "CSV"];
```

```
C:\Users\mdlougheed\Documents\Processing\ThrustPool\
```

```
C:\Users\mdlougheed\Documents\Processing\ThrustPool
```

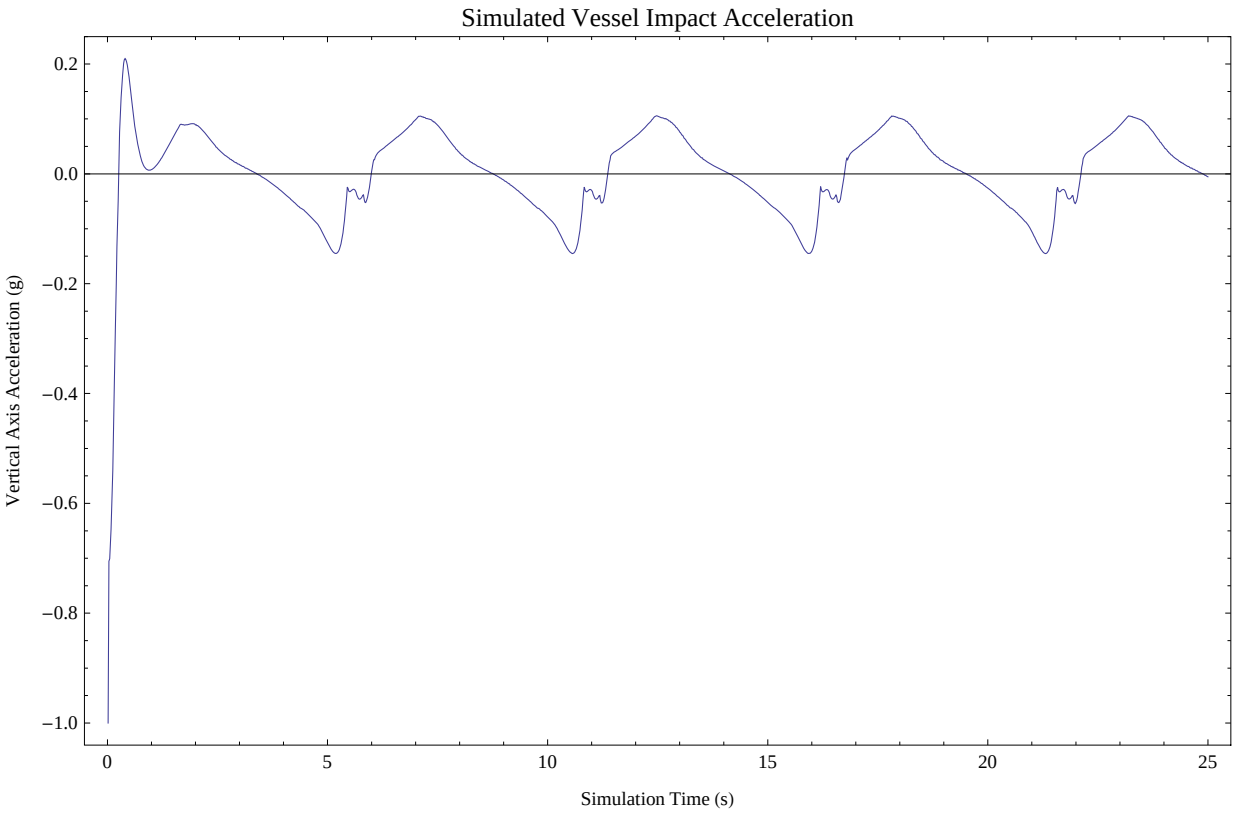
```
{accels.nb, accels.txt, BuoyantBody.pde, frames,
 Savitsky Lambda Based On Wetted Keel Length.nb, SutherlandHodgmanClipper.pde,
 ThrustPool.mov, ThrustPool.pde, ThrustPool.wmv, WaveBody.pde,
 Wave Impact Simulation_pptx, Wave Impact Simulation.pptx, WaveTank.pde}
```

```
rawData[[2]]
```

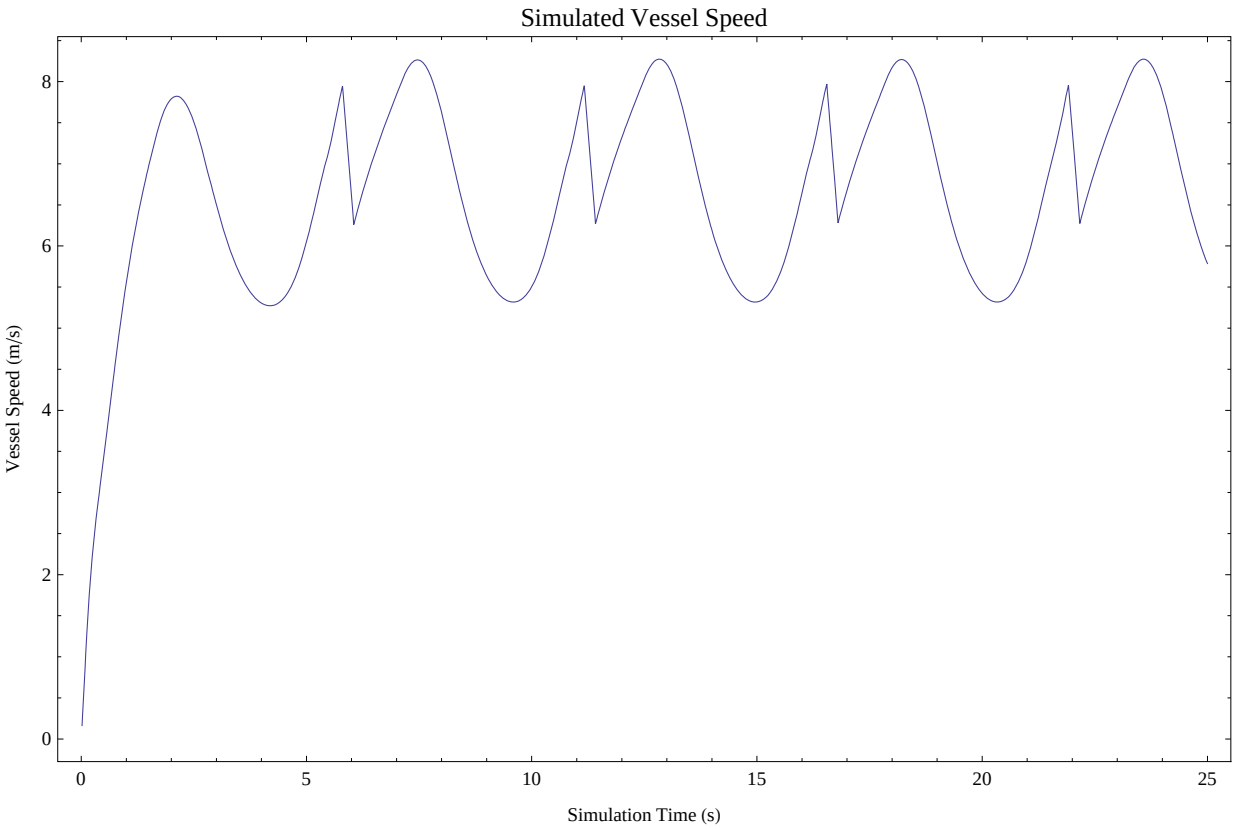
```
{0.0333333, -0.931835, 0.705459, 0.317642}
```

```
time = Table[rawData[[i]][[1]], {i, Length[rawData]}];
xAccel = Table[rawData[[i]][[2]], {i, Length[rawData]}];
yAccel = Table[rawData[[i]][[3]], {i, Length[rawData]}];
speed = Table[rawData[[i]][[4]], {i, Length[rawData]}];
```

```
Table[{time[[i]], -yAccel[[i]]}, {i, Length[time]}];
ListLinePlot[%[[1 ;; 1500]], ImageSize → Large, PlotRange → All, Frame → True,
 FrameLabel -> {"Simulation Time (s)", "Vertical Axis Acceleration (g)"},
 PlotLabel → "Simulated Vessel Impact Acceleration"]
```



```
Table[{time[[i]], speed[[i]]}, {i, Length[time]}];
ListLinePlot[%[[1 ;; 1500]], ImageSize → Large, PlotRange → All,
 Frame → True, FrameLabel -> {"Simulation Time (s)", "Vessel Speed (m/s)"},
 PlotLabel → "Simulated Vessel Speed"]
```



```
Table[{time[[i]], xAccel[[i]]}, {i, Length[time]}];
ListLinePlot[%[[1 ;; 1500]], ImageSize → Large, PlotRange → All, Frame → True,
 FrameLabel -> {"Simulation Time (s)", "Longitudinal Axis Acceleration (g)"},
 PlotLabel → "Simulated Vessel (Longitudinal) Impact Acceleration"]
```