```
EventLogger event log("output/events.txt");
DataLogger net log("output/network.nc4");
SimulationClock clock (&data log);
SchedulerAlpha scheduler(&clock);
Sun sun(&clock);
ObservingSystemAlpha system(&sun, &clock, &scheduler, &event log, &net log);
DataProcessorTemplate processor;
Battery battery (0.9333, 6, 12.9, 85);
SolarPanel panel (29, 0.06, 0, 0, 0, &sun);
SubsystemPower power ss (battery, {panel, panel}, 6.2425);
AntennaDipole comm antenna(30, 0, 0, 0);
ModemUhfDeploy uhf modem;
SubsystemComm comm (&comm_antenna, &uhf_modem);
AntennaHelical sensing antenna(30, 0, 0, 0);
SensorCloudRadar cloud radar ("input/nc4/", 10);
SubsystemSensing cloud (&sensing antenna, &cloud radar);
std::vector<PlatformOrbit> orbits = PlatformOrbitList("input/tle/cube.tle");
system.Launch(orbits, 0, true, comm, cloud, power_ss, &processor, &data_log);
for (uint64_t tick = 0; tick < 10000; ++tick) {
 system. Update();
clock.Tick(1);
```

DataLogger data log("output/data.nc4");