let k = 125;

let dc = -1.5;

let m = 0.6;

let vl = 0;

let vr = 0;

let dsl = 0;

let dsr = 0;

let restingpoint = 0;

let dml = 0;

let dmr = 0;

let rrate = 1/240;

let frameD = rrate \* 1000;

let autopilotDisconnectSound = new Audio("https://raw.githubusercontent.com/Ariakim-Taiyo/GeoFs-737-Immersion-SFX/main/737\_autopilot\_disconnect.mp3")

// autopliot disconnect sound

geofs.autopilot.\_turnOff = geofs.autopilot.turnOff // duplicate the original

geofs.autopilot.turnOff = () => { // override the original function

geofs.autopilot.\_turnOff();

if (audio.on && !geofs.pause) autopilotDisconnectSound.play();

}

//fix bug with reset

geofs.flyTo = function(a, b) {

clearInterval(soundInt)

clearInterval(accelInt);

setTimeout(function(){

accelInt = setInterval(function(){

getAccel()

},10)

soundInt = setInterval(function(){

getFinalSoundVolumes();

//groundEffect();

getGearFlapsWarn();

testForApproach();

testTerrainorAppr();

doRadioAltCall();

checkReverse();

checkCabin();

doShake();

getGroundSound();

getGearThud();

overspeed();

getRainVol();

getTouch();

getTrimSound();

getFlapsSound();

getFlapsClick();

resetLift();

applyInertia();

getPaxCheer();

getScream();

getFrontTouch();

bumpCount()

})

}, 2000)

lastWingPosL = 0;

lastWingPosR = 0;

accelerationL = 1;

accelerationR = 1;

geofs.animation.values.volumeCabin = null;

geofs.animation.values.engSoundMultF = null;

geofs.animation.values.engSoundMultR = null;

geofs.animation.values.engSoundFar = null;

geofs.animation.values.reverseThrustVol = null;

geofs.animation.values.cabinAmb = null;

geofs.animation.values.groundSound = null;

geofs.animation.values.gearThud = null;

geofs.animation.values.overspeed = null;

geofs.animation.values.rainVol = null;

geofs.animation.values.tdSoft = null;

geofs.animation.values.tdHard = null;

geofs.animation.values.spoilersSound = null;

geofs.animation.values.shake = null;

geofs.animation.values.flapsClick = null;

geofs.animation.values.flapsSound = null;

geofs.animation.values.trimSound = null;

geofs.animation.values.liftLeftWing = 1;

geofs.animation.values.liftRightWing = 1;

geofs.animation.values.defL = 1;

geofs.animation.values.defR = 1;

geofs.animation.values.paxScream = 0;

geofs.animation.values.paxClap = 0;

geofs.animation.values.bump = 0;

if (a) {

geofs.doPause(1);

var c = geofs.aircraft.instance;

a[0] = a[0] || geofs.initialRunways[0][0];

a[1] = a[1] || geofs.initialRunways[0][1];

a[2] = a[2] || 0;

a[3] = a[3] || 0;

c.absoluteStartAltitude = a[4] ? !0 : !1;

c.startAltitude = a[2];

geofs.lastFlightCoordinates = a;

var d = a[0]

, e = a[1]

, g = a[2]

, f = [0, 0, 0];

f[0] = a[3];

var k = 0 == g;

c.llaLocation = [d, e, g];

b ? geofs.camera.set(geofs.camera.currentMode) : (geofs.probeTerrain(),

geofs.camera.reset(),

controls.reset(),

weather.reset(),

weather.refresh());

geofs.api.waterDetection.reset();

c.reset(k);

instruments.reset();

geofs.objects.update(c.llaLocation);

geofs.runways.refresh();

geofs.runwaysLights.updateAll();

ui.hideCrashNotification();

geofs.api.getGuarantiedGroundAltitude([d, e, 0]).then(function(m) {

m = m[0].height || 0;

geofs.groundElevation = m;

flight.reset(geofs.groundElevation);

k ? (c.startAltitude = geofs.groundElevation + c.definition.startAltitude,

c.absoluteStartAltitude = !1) : c.absoluteStartAltitude || (c.startAltitude += geofs.groundElevation);

c.llaLocation[2] = c.startAltitude;

flight.elevationAtPreviousLocation = m;

k ? (f[1] = c.definition.startTilt || 0,

c.startOnGround = !0,

c.groundContact = !0,

c.place(c.llaLocation, f),

c.object3d.compute(c.llaLocation),

c.render()) : (c.startOnGround = !1,

c.place(c.llaLocation, f),

c.object3d.compute(c.llaLocation),

m = c.definition.minimumSpeed / 1.94 \* c.definition.mass,

c.rigidBody.applyCentralImpulse(V3.scale(c.object3d.getWorldFrame()[1], m)));

geofs.undoPause(1);

geofs.camera.setToNeutral();

geofs.camera.update(2);

flight.recorder.clear();

$(document).trigger("flyto")

})

}

};

//define new variables

geofs.animation.values.volumeCabin = null;

geofs.animation.values.engSoundMultF = null;

geofs.animation.values.engSoundMultR = null;

geofs.animation.values.engSoundFar = null;

geofs.animation.values.reverseThrustVol = null;

geofs.animation.values.cabinAmb = null;

geofs.animation.values.groundSound = null;

geofs.animation.values.gearThud = null;

geofs.animation.values.overspeed = null;

geofs.animation.values.rainVol = null;

geofs.animation.values.tdSoft = null;

geofs.animation.values.tdHard = null;

geofs.animation.values.spoilersSound = null;

geofs.animation.values.shake = null;

geofs.animation.values.flapsClick = null;

geofs.animation.values.flapsSound = null;

geofs.animation.values.trimSound = null;

geofs.animation.values.liftLeftWing = 1;

geofs.animation.values.liftRightWing = 1;

geofs.animation.values.defL = 1;

geofs.animation.values.defR = 1;

geofs.animation.values.paxScream = 0;

geofs.animation.values.paxClap = 0;

geofs.animation.values.tdFront = 0;

geofs.animation.values.bump = 0;

let bumpDist = 10;

let bumpSC = 0;

//get taxiway bumps

function bumpCount() {

//enable sim continuity when out of cabin

if (geofs.animation.values.groundContact == 1) {

var s = geofs.animation.values.kias / 45.0;

if (s < 0.05) s = 0;

bumpSC += s;

if (bumpSC >= bumpDist) {

bumpSC = 0;

if (geofs.camera.currentModeName == "cockpit" || geofs.camera.currentModeName == "Left wing" || geofs.camera.currentModeName == "Right wing") {

geofs.animation.values.bump = 1;

setTimeout(function(){geofs.animation.values.bump = 0;},1500);

}

}

}

}

//get clap/scream fx

function getScream() {

if (geofs.camera.currentModeName == "cockpit" || geofs.camera.currentModeName == "Left wing" || geofs.camera.currentModeName == "Right wing") {

if (geofs.animation.values.climbrate <= -6000 && geofs.animation.values.kias > 300) {

geofs.animation.values.paxScream = 1;

}

else {

geofs.animation.values.paxScream = 0;

}

}

else {

geofs.animation.values.paxScream = 0;

}

}

function getPaxCheer() {

if (weather.definition.turbulences <= 0.8) {

geofs.animation.values.paxClap = 0;

}

};

//add g force effect to wingflex

function resetLift(){

geofs.animation.values.liftLeftWing = (-geofs.aircraft.instance.parts.leftwing.lift / 50000)+((geofs.animation.values.accZ - 9)/50 + geofs.animation.values.shake / 1000) / (geofs.animation.values.kias / 150);

geofs.animation.values.liftRightWing = (-geofs.aircraft.instance.parts.rightwing.lift / 50000)+((geofs.animation.values.accZ - 9)/50 + geofs.animation.values.shake / 1000) / (geofs.animation.values.kias / 150);

};

let lastWingPosL = 0;

let lastWingPosR = 0;

let accelerationL = 1;

let accelerationR = 1;

function getAccel() {

lastWingPosL = geofs.animation.values.liftLeftWing;

lastWingPosR = geofs.animation.values.liftLeftWing;

setTimeout(function(){

accelerationL = 10 \*(geofs.animation.values.liftLeftWing - lastWingPosL) / geofs.animation.values.defL + 1;

accelerationR = 10 \*(geofs.animation.values.liftRightWing - lastWingPosR) / geofs.animation.values.defR + 1;

}, 10)

}

accelInt = setInterval(function(){

getAccel()

},10)

function applyInertia() {

geofs.animation.values.defL = ((accelerationL) \* lastWingPosL) \* -100000;

geofs.animation.values.defR = ((accelerationR) \* lastWingPosR) \* -100000;

}

/\*

geofs.aircraft.instance.setup.parts[2].animations[0].function = "{return geofs.animation.values.defL}"

geofs.aircraft.instance.setup.parts[3].animations[0].function = "{return geofs.animation.values.defL}"

geofs.aircraft.instance.setup.parts[4].animations[0].function = "{return geofs.animation.values.defL}"

geofs.aircraft.instance.setup.parts[25].animations[0].function = "{return geofs.animation.values.defR}"

geofs.aircraft.instance.setup.parts[26].animations[0].function = "{return geofs.animation.values.defR}"

geofs.aircraft.instance.setup.parts[27].animations[0].function = "{return geofs.animation.values.defR}"

\*/

let lastFlapPos = 0;

let lastFlapTarg = 0;

function getFlapsSound() {

if (geofs.camera.currentModeName == "Left wing" || geofs.camera.currentModeName == "Right wing") {

if (geofs.animation.values.flapsPosition != lastFlapPos) {

geofs.animation.values.flapsSound = 1;

}

else {

geofs.animation.values.flapsSound = 0;

}

}

else {

geofs.animation.values.flapsSound = 0;

}

lastFlapPos = geofs.animation.values.flapsPosition;

}

function getFlapsClick() {

if (geofs.camera.currentModeName == "cockpit") {

if (lastFlapTarg != geofs.animation.values.flapsTarget) {

geofs.animation.values.flapsClick = 1;

setTimeout(function() {

geofs.animation.values.flapsClick = 0;

}, 200)

}

}

else {

geofs.animation.values.flapsClick = 0;

}

lastFlapTarg = geofs.animation.values.flapsTarget

}

let lastTrim = 0;

function getTrimSound() {

if (geofs.camera.currentModeName == "cockpit") {

if (lastTrim != geofs.animation.values.trim) {

geofs.animation.values.trimSound = 1;

}

else {

geofs.animation.values.trimSound = 0;

}

}

else {

geofs.animation.values.trimSound = 0;

}

lastTrim = geofs.animation.values.trim

}

//ground effect sound sensing

function getGroundSound() {

if (geofs.animation.values.haglFeet < 20) {

geofs.animation.values.groundSound = (-(geofs.animation.values.haglFeet) + 20) \* (geofs.animation.values.kias / 10) / 500;

}

else {

geofs.animation.values.groundSound = 0;

}

}

function getGearThud() {

if (geofs.animation.values.gearPosition != 0 && geofs.animation.values.gearPosition != 1) {

geofs.animation.values.gearThud = 1;

}

else {

geofs.animation.values.gearThud = 0;

}

}

function getSpoilerSound() {

if (geofs.animation.values.airbrakesPosition != 0) {

geofs.animation.values.spoilersSound = geofs.animation.values.airbrakesPosition \* (geofs.animation.values.kias / 10)

}

else {

geofs.animation.values.spoilersSound = 0;

}

}

function getShake() {

if (geofs.animation.values.tdHard == 1 || geofs.animation.values.tdSoft == 1) {

geofs.animation.values.shake = Math.random() \* (geofs.animation.values.climbrate / 10)

return;

}

if (geofs.animation.values.groundContact == 1) {

geofs.animation.values.shake = geofs.animation.values.kias \* Math.random();

}

else {

geofs.animation.values.shake = geofs.animation.values.aoa \* Math.random();

}

}

function overspeed() {

if (geofs.camera.currentModeName == "cockpit") {

if (geofs.animation.values.kias >= 450) {

geofs.animation.values.overspeed = 1;

}

else {

geofs.animation.values.overspeed = 0;

}

}

else {

geofs.animation.values.overspeed = 0;

}

}

let lastGC = 0;

let lastGCF = 0;

let noseDown = 0;

function getTouch() {

if (lastGC != geofs.animation.values.groundContact && geofs.animation.values.groundContact != 0) {

if (Math.abs(geofs.animation.values.climbrate) >= 1000) {

geofs.animation.values.tdSoft = 0;

geofs.animation.values.tdHard = 1;

setTimeout(function(){

geofs.animation.values.tdHard = 0;

}, 1000)

}

else {

if (geofs.animation.values.climbrate >= -1000) {

geofs.animation.values.paxClap = 1;

setTimeout(function(){

geofs.animation.values.paxClap = 0;

}, 5000)

}

geofs.animation.values.tdSoft = 1;

geofs.animation.values.tdHard = 0;

setTimeout(function(){

geofs.animation.values.tdSoft = 0;

}, 1000)

}

}

lastGC = geofs.animation.values.groundContact;

};

function getFrontTouch() {

if (geofs.animation.values.nose\_suspensionSuspension > 0) {

noseDown = 1;

}

else {

noseDown = 0;

}

if (lastGCF != noseDown && noseDown != 0 && geofs.camera.currentModeName === "cockpit") {

geofs.animation.values.tdFront = 1;

setTimeout(function(){

geofs.animation.values.tdFront = 0;

}, 1000)

}

lastGCF = noseDown;

};

function doShake() {

getShake()

geofs.camera.translate(0.0001 \* geofs.animation.values.shake,0.0001 \* geofs.animation.values.shake,0.0001 \* geofs.animation.values.shake)

setTimeout(function(){

geofs.camera.translate(-0.0001 \* geofs.animation.values.shake,-0.0001 \* geofs.animation.values.shake,-0.0001 \* geofs.animation.values.shake)

},1)

}

function getRainVol() {

if (geofs.camera.currentModeName != "cockpit") {

geofs.animation.values.rainVol = 0;

return;

}

if (weather.definition.precipitationAmount != 0 && weather.definition.precipitationType === "rain") {

if (geofs.animation.values.altitudeMeters <= weather.definition.ceiling) {

geofs.animation.values.rainVol = (clamp(weather.definition.precipitationAmount, 0, 10) \* geofs.animation.values.kias / 2)/1000

}

else {

geofs.animation.values.rainVol = 0;

}

}

else {

geofs.animation.values.rainVol = 0;

}

}

//find direction from camera in degrees. 0 should be directly behind, 90 is to the left of the plane, 180 is in front, and 270 is to the right.

function radians(n) {

return n \* (Math.PI / 180);

};

function degrees(n) {

return n \* (180 / Math.PI);

};

function getCameraDirection() {

var a = geofs.api.getCameraLla(geofs.camera.cam);

var b = geofs.aircraft.instance.llaLocation;

var startLat = radians(a[0]);

var startLong = radians(a[1]);

var endLat = radians(b[0]);

var endLong = radians(b[1]);

let dLong = endLong - startLong;

let dPhi = Math.log(Math.tan(endLat/2.0+Math.PI/4.0)/Math.tan(startLat/2.0+Math.PI/4.0));

if (Math.abs(dLong) > Math.PI){

if (dLong > 0.0)

dLong = -(2.0 \* Math.PI - dLong);

else

dLong = (2.0 \* Math.PI + dLong);

}

return (degrees(Math.atan2(dLong, dPhi)) + 270.0) % 360.0;

};

//split camera into front and backblast sound cones, front and sides should sound the same, while the back should play a backblast sound.

function checkPos() {

var a = (getCameraDirection() - geofs.animation.values.heading360) % 360;

var b = radians(a);

var c = Math.cos(b);

var d = Math.sin(b);

var e = clamp((clamp(d, 0, 1) + Math.abs(c)), 0, 1)

var f = clamp((clamp(-d, 0, 1) - Math.abs(c)), 0, 1)

return [e,f]; // e is front sound, f is backblast

};

//get distance from aircraft

function camDist() {

var R = 6371 // km

var lat1 = radians(geofs.api.getCameraLla(geofs.camera.cam)[0])

var lat2 = radians(geofs.aircraft.instance.llaLocation[0])

var lon1 = radians(geofs.api.getCameraLla(geofs.camera.cam)[1])

var lon2 = radians(geofs.aircraft.instance.llaLocation[1])

var dLat = radians(lat2 - lat1)

var dLon = radians(lon2 - lon1)

var a = Math.sin(dLat / 2) \* Math.sin(dLat / 2) +

Math.sin(dLon / 2) \* Math.sin(dLon / 2) \* Math.cos(lat1) \* Math.cos(lat2)

var c = 2 \* Math.atan2(Math.sqrt(a), Math.sqrt(1 - a))

var d = R \* c

return d \* 1000

};

function findVolumes() {

var scalar = 100;

var d = camDist() \* 2;

var v = -0.005 \* (((d \* 10) - 100) \* ((d \* 10) - 100)) + 100;

var v1 = (scalar \* -d) + 1000;

return [clamp(v1/100, 0, 100), clamp(v\*10, 0, 10000)];

};

//mix all sound functions

function getFinalSoundVolumes() {

if (geofs.camera.currentModeName != "cockpit" && geofs.camera.currentModeName != "Left wing" && geofs.camera.currentModeName != "Right wing") {

var rpm = geofs.animation.values.rpm / 10

var vClose = findVolumes()[0];

var vFar = findVolumes()[1];

var vDf = checkPos()[0];

var vDb = checkPos()[1];

var finalVf = vClose \* vDf \* rpm;

var finalVb = (vClose \* vDb \* rpm \* 10);

geofs.animation.values.engSoundMultF = finalVf;

geofs.animation.values.engSoundMultR = vDb/2 \* 7000 \* clamp(geofs.animation.values.rpm, 0, 1);

geofs.animation.values.engSoundFar = vFar;

geofs.animation.values.volumeCabin = 0;

}

else {

geofs.animation.values.engSoundMultF = 0;

geofs.animation.values.engSoundMultR = 0;

geofs.animation.values.engSoundFar = 0;

geofs.animation.values.volumeCabin = geofs.animation.values.rpm;

}

}

function checkReverse() {

if (geofs.animation.values.throttle < 0) {

geofs.animation.values.reverseThrustVol = Math.abs(geofs.animation.values.throttle) \* 10

}

else {

geofs.animation.values.reverseThrustVol = 0;

}

}

function checkCabin() {

if (geofs.animation.values.volumeCabin > 0) {

geofs.animation.values.cabinAmb = 1;

}

else {

geofs.animation.values.cabinAmb = 0;

}

}

//assign new sounds

function assignSounds() {

geofs.aircraft.instance.definition.sounds[0].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/englowfront.ogg"

geofs.aircraft.instance.definition.sounds[0].effects.volume.value = "engSoundMultF";

geofs.aircraft.instance.definition.sounds[0].effects.pitch.value = "rpm";

geofs.aircraft.instance.definition.sounds[1].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/engmidfront.ogg"

geofs.aircraft.instance.definition.sounds[1].effects.volume.value = "engSoundMultF";

geofs.aircraft.instance.definition.sounds[1].effects.pitch.value = "rpm";

geofs.aircraft.instance.definition.sounds[2].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/enghighestfront.ogg"

geofs.aircraft.instance.definition.sounds[2].effects.volume.value = "engSoundMultF";

geofs.aircraft.instance.definition.sounds[2].effects.pitch.value = "rpm";

geofs.aircraft.instance.definition.sounds[3].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/737rolling.mp3"

geofs.aircraft.instance.definition.sounds[7] = {};

geofs.aircraft.instance.definition.sounds[7].id = "rpmback";

geofs.aircraft.instance.definition.sounds[7].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/enghighback.ogg"

geofs.aircraft.instance.definition.sounds[7].effects = {"volume": {"value": "engSoundMultR", "ramp": [6000, 10000, 20000, 50000]},"pitch": {"value": "rpm", "ramp": [1000, 20000, 20000, 20000], "ratio": 1, "offset": 1}}

geofs.aircraft.instance.definition.sounds[8] = {};

geofs.aircraft.instance.definition.sounds[8].id = "rpmback1";

geofs.aircraft.instance.definition.sounds[8].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/enghighback.ogg"

geofs.aircraft.instance.definition.sounds[8].effects = {"volume": {"value": "engSoundMultR", "ramp": [100, 500, 2000, 10000]},"pitch": {"value": "rpm", "ramp": [1000, 20000, 20000, 20000], "ratio": 1, "offset": 1}}

geofs.aircraft.instance.definition.sounds[9] = {};

geofs.aircraft.instance.definition.sounds[9].id = "flapswarn"

geofs.aircraft.instance.definition.sounds[9].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/tlf.mp3"

geofs.aircraft.instance.definition.sounds[9].effects = {"start": {"value": "isFlapsWarn"}}

geofs.aircraft.instance.definition.sounds[10] = {};

geofs.aircraft.instance.definition.sounds[10].id = "terrainwarn"

geofs.aircraft.instance.definition.sounds[10].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/tlt.mp3"

geofs.aircraft.instance.definition.sounds[10].effects = {"start": {"value": "isTerrainWarn"}}

geofs.aircraft.instance.definition.sounds[11] = {};

geofs.aircraft.instance.definition.sounds[11].id = "pullwarn"

geofs.aircraft.instance.definition.sounds[11].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/pullup.mp3"

geofs.aircraft.instance.definition.sounds[11].effects = {"start": {"value": "isPullupWarn"}}

geofs.aircraft.instance.definition.sounds[12] = {};

geofs.aircraft.instance.definition.sounds[12].id = "bankangle"

geofs.aircraft.instance.definition.sounds[12].file = ""

geofs.aircraft.instance.definition.sounds[12].effects = {"start": {"value": "isBankWarn"}}

geofs.aircraft.instance.definition.sounds[13] = {};

geofs.aircraft.instance.definition.sounds[13].id = "1000"

geofs.aircraft.instance.definition.sounds[13].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/1000gpws\_merged.mp3"

geofs.aircraft.instance.definition.sounds[13].effects = {"start": {"value": "gpws1000"}}

geofs.aircraft.instance.definition.sounds[14] = {};

geofs.aircraft.instance.definition.sounds[14].id = "500"

geofs.aircraft.instance.definition.sounds[14].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/500correct.mp3"

geofs.aircraft.instance.definition.sounds[14].effects = {"start": {"value": "gpws500"}}

geofs.aircraft.instance.definition.sounds[15] = {};

geofs.aircraft.instance.definition.sounds[15].id = "400"

geofs.aircraft.instance.definition.sounds[15].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/400gpws\_merged.mp3"

geofs.aircraft.instance.definition.sounds[15].effects = {"start": {"value": "gpws400"}}

geofs.aircraft.instance.definition.sounds[16] = {};

geofs.aircraft.instance.definition.sounds[16].id = "300"

geofs.aircraft.instance.definition.sounds[16].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/300gpws\_merged.mp3"

geofs.aircraft.instance.definition.sounds[16].effects = {"start": {"value": "gpws300"}}

geofs.aircraft.instance.definition.sounds[17] = {};

geofs.aircraft.instance.definition.sounds[17].id = "200"

geofs.aircraft.instance.definition.sounds[17].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/200gpws\_merged.mp3"

geofs.aircraft.instance.definition.sounds[17].effects = {"start": {"value": "gpws200"}}

geofs.aircraft.instance.definition.sounds[18] = {};

geofs.aircraft.instance.definition.sounds[18].id = "100"

geofs.aircraft.instance.definition.sounds[18].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/100gpws\_merged.mp3"

geofs.aircraft.instance.definition.sounds[18].effects = {"start": {"value": "gpws100"}}

geofs.aircraft.instance.definition.sounds[19] = {};

geofs.aircraft.instance.definition.sounds[19].id = "50"

geofs.aircraft.instance.definition.sounds[19].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/50gpws\_merged.mp3"

geofs.aircraft.instance.definition.sounds[19].effects = {"start": {"value": "gpws50"}}

geofs.aircraft.instance.definition.sounds[20] = {};

geofs.aircraft.instance.definition.sounds[20].id = "40"

geofs.aircraft.instance.definition.sounds[20].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/40gpws\_merged.mp3"

geofs.aircraft.instance.definition.sounds[20].effects = {"start": {"value": "gpws40"}}

geofs.aircraft.instance.definition.sounds[21] = {};

geofs.aircraft.instance.definition.sounds[21].id = "30"

geofs.aircraft.instance.definition.sounds[21].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/30gpws\_merged.mp3"

geofs.aircraft.instance.definition.sounds[21].effects = {"start": {"value": "gpws30"}}

geofs.aircraft.instance.definition.sounds[22] = {};

geofs.aircraft.instance.definition.sounds[22].id = "20"

geofs.aircraft.instance.definition.sounds[22].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/20gpws\_merged.mp3"

geofs.aircraft.instance.definition.sounds[22].effects = {"start": {"value": "gpws20"}}

geofs.aircraft.instance.definition.sounds[23] = {};

geofs.aircraft.instance.definition.sounds[23].id = "10"

geofs.aircraft.instance.definition.sounds[23].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/10gpws\_merged.mp3"

geofs.aircraft.instance.definition.sounds[23].effects = {"start": {"value": "gpws10"}}

geofs.aircraft.instance.definition.sounds[24] = {};

geofs.aircraft.instance.definition.sounds[24].id = "TCAS";

geofs.aircraft.instance.definition.sounds[24].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/traffic.mp3";

geofs.aircraft.instance.definition.sounds[24].effects = {

"start": {

"value": "isTCAS"

}

};

geofs.aircraft.instance.definition.sounds[25] = {};

geofs.aircraft.instance.definition.sounds[25].id = "climb";

geofs.aircraft.instance.definition.sounds[25].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/climb.mp3";

geofs.aircraft.instance.definition.sounds[25].effects = {

"start": {

"value": "isTCASClimb"

}

};

geofs.aircraft.instance.definition.sounds[26] = {};

geofs.aircraft.instance.definition.sounds[26].id = "descend";

geofs.aircraft.instance.definition.sounds[26].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/descend.mp3";

geofs.aircraft.instance.definition.sounds[26].effects = {

"start": {

"value": "isTCASDescend"

}

};

geofs.aircraft.instance.definition.sounds[27] = {};

geofs.aircraft.instance.definition.sounds[27].id = "clear";

geofs.aircraft.instance.definition.sounds[27].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/clear.mp3";

geofs.aircraft.instance.definition.sounds[27].effects = {

"start": {

"value": "isTCASClear"

}

};

geofs.aircraft.instance.definition.sounds[28] = {};

geofs.aircraft.instance.definition.sounds[28].id = "rpmin1";

geofs.aircraft.instance.definition.sounds[28].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/lowcab.ogg";

geofs.aircraft.instance.definition.sounds[28].effects = {"volume": {"value": "volumeCabin", "ramp": [800, 950, 2500, 3500]},"pitch": {"value": "rpm", "ramp": [0, 20000, 20000, 20000], "ratio": 1, "offset": 1}}

geofs.aircraft.instance.definition.sounds[29] = {};

geofs.aircraft.instance.definition.sounds[29].id = "rpmin2";

geofs.aircraft.instance.definition.sounds[29].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/midcab.ogg";

geofs.aircraft.instance.definition.sounds[29].effects = {"volume": {"value": "volumeCabin", "ramp": [1000, 2500, 10000, 10000]},"pitch": {"value": "rpm", "ramp": [0, 20000, 20000, 20000], "ratio": 1, "offset": 1}}

geofs.aircraft.instance.definition.sounds[30] = {};

geofs.aircraft.instance.definition.sounds[30].id = "buzzsaw";

geofs.aircraft.instance.definition.sounds[30].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/buzzsawcab.ogg";

geofs.aircraft.instance.definition.sounds[30].effects = {"volume": {"value": "volumeCabin", "ramp": [3000, 10000, 20000, 20000]}};

geofs.aircraft.instance.definition.sounds[31] = {};

geofs.aircraft.instance.definition.sounds[31].id = "reverse";

geofs.aircraft.instance.definition.sounds[31].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/737reverse.mp3";

geofs.aircraft.instance.definition.sounds[31].effects = {"volume": {"value": "reverseThrustVol", "ramp": [0, 100, 1000, 2500]}};

geofs.aircraft.instance.definition.sounds[32] = {};

geofs.aircraft.instance.definition.sounds[32].id = "system";

geofs.aircraft.instance.definition.sounds[32].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/737-800\_cabin\_system.mp3";

geofs.aircraft.instance.definition.sounds[32].effects = {

"start": {

"value": "cabinAmb"

}

};

geofs.aircraft.instance.definition.sounds[33] = {};

geofs.aircraft.instance.definition.sounds[33].id = "pax";

geofs.aircraft.instance.definition.sounds[33].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/737-800\_cabin\_ambience.mp3";

geofs.aircraft.instance.definition.sounds[33].effects = {

"start": {

"value": "cabinAmb"

}

};

geofs.aircraft.instance.definition.sounds[34] = {};

geofs.aircraft.instance.definition.sounds[34].id = "touchH";

geofs.aircraft.instance.definition.sounds[34].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/hardtouch1.mp3";

geofs.aircraft.instance.definition.sounds[34].effects = {

"start": {

"value": "tdHard"

},

"volume": {

"ratio": 0.1

}

};

geofs.aircraft.instance.definition.sounds[35] = {};

geofs.aircraft.instance.definition.sounds[35].id = "touchS";

geofs.aircraft.instance.definition.sounds[35].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/softtouch1.mp3";

geofs.aircraft.instance.definition.sounds[35].effects = {

"start": {

"value": "tdSoft"

},

"volume": {

"value": "tdSoft",

"ratio": 1

}

};

geofs.aircraft.instance.definition.sounds[36] = {};

geofs.aircraft.instance.definition.sounds[36].id = "overspeed";

geofs.aircraft.instance.definition.sounds[36].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/sounds\_overspeed.mp3";

geofs.aircraft.instance.definition.sounds[36].effects = {

"start": {

"value": "overspeed"

}

};

geofs.aircraft.instance.definition.sounds[37] = {};

geofs.aircraft.instance.definition.sounds[37].id = "gearThud";

geofs.aircraft.instance.definition.sounds[37].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/wheelthud.mp3";

geofs.aircraft.instance.definition.sounds[37].effects = {

"start": {

"value": "gearThud"

}

};

geofs.aircraft.instance.definition.sounds[38] = {};

geofs.aircraft.instance.definition.sounds[38].id = "rain";

geofs.aircraft.instance.definition.sounds[38].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/sounds\_rain.mp3";

geofs.aircraft.instance.definition.sounds[38].effects = {

"volume": {

"value": "rainVol",

"ratio": 1

}

};

geofs.aircraft.instance.definition.sounds[39] = {};

geofs.aircraft.instance.definition.sounds[39].id = "groundwind";

geofs.aircraft.instance.definition.sounds[39].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/groundeffect1.mp3";

geofs.aircraft.instance.definition.sounds[39].effects = {

"volume": {

"value": "groundSound",

"ratio": 1

}

};

geofs.aircraft.instance.definition.sounds[40] = {};

geofs.aircraft.instance.definition.sounds[40].id = "flapsClick";

geofs.aircraft.instance.definition.sounds[40].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/flapslever.mp3";

geofs.aircraft.instance.definition.sounds[40].effects = {

"start": {

"value": "flapsClick"

}

};

geofs.aircraft.instance.definition.sounds[41] = {};

geofs.aircraft.instance.definition.sounds[41].id = "flapsSound";

geofs.aircraft.instance.definition.sounds[41].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/737flaps.mp3";

geofs.aircraft.instance.definition.sounds[41].effects = {

"start": {

"value": "flapsSound"

}

};

geofs.aircraft.instance.definition.sounds[42] = {};

geofs.aircraft.instance.definition.sounds[42].id = "trim";

geofs.aircraft.instance.definition.sounds[42].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/sounds\_trim.mp3";

geofs.aircraft.instance.definition.sounds[42].effects = {

"start": {

"value": "trimSound"

}

};

geofs.aircraft.instance.definition.sounds[43] = {};

geofs.aircraft.instance.definition.sounds[43].id = "clap";

geofs.aircraft.instance.definition.sounds[43].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/paxclap1.mp3";

geofs.aircraft.instance.definition.sounds[43].effects = {

"start": {

"value": "paxClap"

}

};

geofs.aircraft.instance.definition.sounds[44] = {};

geofs.aircraft.instance.definition.sounds[44].id = "scream";

geofs.aircraft.instance.definition.sounds[44].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/paxscream.mp3";

geofs.aircraft.instance.definition.sounds[44].effects = {

"start": {

"value": "paxScream"

}

};

geofs.aircraft.instance.definition.sounds[45] = {};

geofs.aircraft.instance.definition.sounds[45].id = "frontgearthump";

geofs.aircraft.instance.definition.sounds[45].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/nosetouch.ogg";

geofs.aircraft.instance.definition.sounds[45].effects = {

"start": {

"value": "tdFront"

}

};

geofs.aircraft.instance.definition.sounds[46] = {};

geofs.aircraft.instance.definition.sounds[46].id = "rpfar";

geofs.aircraft.instance.definition.sounds[46].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/engfar.mp3";

geofs.aircraft.instance.definition.sounds[46].effects = {"volume": {"value": "engSoundFar", "ramp": [0, 2000, 10000, 10000]}}

geofs.aircraft.instance.definition.sounds[47] = {};

geofs.aircraft.instance.definition.sounds[47].id = "spool";

geofs.aircraft.instance.definition.sounds[47].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/spoolcab.mp3";

geofs.aircraft.instance.definition.sounds[47].effects = {"volume": {"value": "volumeCabin", "ramp": [1500, 6000, 7000, 8000]}, "pitch": {"value": "rpm", "ramp": [3500, 10000, 20000, 20000], "ratio": 1, "offset": 1}};

geofs.aircraft.instance.definition.sounds[48] = {};

geofs.aircraft.instance.definition.sounds[48].id = "taxiBump"

geofs.aircraft.instance.definition.sounds[48].file = "https://138772948-227015667470610340.preview.editmysite.com/uploads/1/3/8/7/138772948/bump.mp3"

geofs.aircraft.instance.definition.sounds[48].effects = {"start": {"value": "bump"}}

audio.init(geofs.aircraft.instance.definition.sounds)

geofs.aircraft.instance.definition.sounds[0].effects.volume.ratio = 100

geofs.aircraft.instance.definition.sounds[0].effects.volume.ramp = [100, 500, 2000, 10000]

geofs.aircraft.instance.definition.sounds[1].effects.volume.ratio = 100

geofs.aircraft.instance.definition.sounds[2].effects.volume.ratio = 100

geofs.aircraft.instance.definition.sounds[3].effects.volume.ramp = [0, 50, 1000, 1000]

geofs.aircraft.instance.definition.sounds[3].effects.volume.ratio = 100

geofs.aircraft.instance.definition.sounds[3].effects.volume.ratio = 1

geofs.aircraft.instance.definition.sounds[7].effects.volume.ratio = 100

geofs.aircraft.instance.definition.sounds[8].effects.volume.ratio = 100

geofs.aircraft.instance.definition.sounds[46].effects.volume.ratio = 100

geofs.aircraft.instance.definition.sounds[28].effects.volume.ratio = 100

geofs.aircraft.instance.definition.sounds[29].effects.volume.ratio = 100

geofs.aircraft.instance.definition.sounds[30].effects.volume.ratio = 350

geofs.aircraft.instance.definition.sounds[31].effects.volume.ratio = 750

geofs.aircraft.instance.definition.sounds[34].effects.volume.ratio = 1

geofs.aircraft.instance.definition.sounds[39].effects.volume.ratio = 100

geofs.aircraft.instance.definition.sounds[47].effects.volume.ratio = 90

geofs.aircraft.instance.definition.sounds[48].effects.volume = {};

geofs.aircraft.instance.definition.sounds[48].effects.volume.ratio = 2;

}

assignSounds()

function groundEffect() {

if (geofs.animation.values.haglFeet <= 100) {

geofs.aircraft.instance.rigidBody.applyCentralImpulse([0,0,(-(geofs.animation.values.haglFeet) + 100) \* geofs.animation.values.kias] / 10)

}

}

let restingPoint = 5.152139372973117

//detect and execute GPWS callouts

let isApprConfig = false;

geofs.animation.values.isFlapsWarn = 0;

geofs.animation.values.isGearWarn = 0;

geofs.animation.values.isTerrainWarn = 0;

geofs.animation.values.isPullupWarn = 0;

geofs.animation.values.isBankWarn = 0;

geofs.animation.values.gpws1000 = 0;

geofs.animation.values.gpws500 = 0;

geofs.animation.values.gpws400 = 0;

geofs.animation.values.gpws300 = 0;

geofs.animation.values.gpws200 = 0;

geofs.animation.values.gpws100 = 0;

geofs.animation.values.gpws50 = 0;

geofs.animation.values.gpws40 = 0;

geofs.animation.values.gpws30 = 0;

geofs.animation.values.gpws20 = 0;

geofs.animation.values.gpws10 = 0;

geofs.animation.values.isTCASClimb = 0;

geofs.animation.values.isTCASDescend = 0;

geofs.animation.values.isTCAS = 0;

geofs.animation.values.isTCASClear = 0;

function getGearFlapsWarn() {

if (geofs.animation.values.groundContact == 1) {

geofs.animation.values.isGearWarn = 0;

geofs.animation.values.isFlapsWarn = 0;

return;

}

if (geofs.animation.values.haglFeet <= 500 && geofs.animation.values.gearPosition == 1 && geofs.animation.values.climbrate < 0 && geofs.animation.values.isPullupWarn == 0) {

geofs.animation.values.isGearWarn = 1;

} else {

geofs.animation.values.isGearWarn = 0;

}

if (geofs.animation.values.haglFeet <= 1000 && geofs.animation.values.flapsPosition == 0 && geofs.animation.values.climbrate < 0 && geofs.animation.values.isPullupWarn == 0) {

geofs.animation.values.isFlapsWarn = 1;

} else {

geofs.animation.values.isFlapsWarn = 0;

}

}

function testTerrainorAppr() {

if (geofs.animation.values.gearPosition == 0) {

if (geofs.animation.values.haglFeet <= 1000 && geofs.animation.values.climbrate <= -100 && geofs.animation.values.climbrate >= -5000 && geofs.animation.values.isGearWarn == 0 && geofs.animation.values.isFlapsWarn == 0 && isApprConfig == 0) {

geofs.animation.values.isTerrainWarn = 1;

} else {

geofs.animation.values.isTerrainWarn = 0;

}

if (geofs.animation.values.haglFeet <= 5000 && geofs.animation.values.climbrate <= -2000 || geofs.animation.values.haglFeet <= 1000 && geofs.animation.values.climbrate <= -5000) {

geofs.animation.values.isPullupWarn = 1;

} else {

geofs.animation.values.isPullupWarn = 0;

}

} else {

geofs.animation.values.isTerrainWarn = 0;

geofs.animation.values.isPullupWarn = 0;

return;

}

}

function testForApproach(){

if (geofs.animation.values.isFlapsWarn == 0 && geofs.animation.values.isGearWarn == 0 && geofs.animation.values.climbrate <= -1){

isApprConfig = true

}

else{

isApprConfig = false

}

}

function doRadioAltCall(){

if (isApprConfig){

if (geofs.animation.values.haglFeet <= 1000 + restingPoint && geofs.animation.values.haglFeet >= 900 + restingPoint){

geofs.animation.values.gpws1000 = 1;

}

else{

geofs.animation.values.gpws1000 = 0;

}

if (geofs.animation.values.haglFeet <= 500 + restingPoint && geofs.animation.values.haglFeet >= 400 + restingPoint){

geofs.animation.values.gpws500 = 1;

}

else{

geofs.animation.values.gpws500 = 0;

}

if (geofs.animation.values.haglFeet <= 400 + restingPoint && geofs.animation.values.haglFeet >= 300 + restingPoint){

geofs.animation.values.gpws400 = 1;

}

else{

geofs.animation.values.gpws400 = 0;

}

if (geofs.animation.values.haglFeet <= 300 + restingPoint && geofs.animation.values.haglFeet >= 200 + restingPoint){

geofs.animation.values.gpws300 = 1;

}

else{

geofs.animation.values.gpws300 = 0;

}

if (geofs.animation.values.haglFeet <= 200 + restingPoint && geofs.animation.values.haglFeet >= 100 + restingPoint){

geofs.animation.values.gpws200 = 1;

}

else{

geofs.animation.values.gpws200 = 0;

}

if (geofs.animation.values.haglFeet <= 100 + restingPoint && geofs.animation.values.haglFeet >= 50 + restingPoint){

geofs.animation.values.gpws100 = 1;

}

else{

geofs.animation.values.gpws100 = 0;

}

if (geofs.animation.values.haglFeet <= 50 + restingPoint && geofs.animation.values.haglFeet >= 40 + restingPoint){

geofs.animation.values.gpws50 = 1;

}

else{

geofs.animation.values.gpws50 = 0;

}

if (geofs.animation.values.haglFeet <= 40 + restingPoint && geofs.animation.values.haglFeet >= 30 + restingPoint){

geofs.animation.values.gpws40 = 1;

}

else{

geofs.animation.values.gpws40 = 0;

}

if (geofs.animation.values.haglFeet <= 30 + restingPoint && geofs.animation.values.haglFeet >= 20 + restingPoint){

geofs.animation.values.gpws30 = 1;

}

else{

geofs.animation.values.gpws30 = 0;

}

if (geofs.animation.values.haglFeet <= 20 + restingPoint && geofs.animation.values.haglFeet >= 10 + restingPoint){

geofs.animation.values.gpws20 = 1;

}

else{

geofs.animation.values.gpws20 = 0;

}

if (geofs.animation.values.haglFeet <= 10 + restingPoint && geofs.animation.values.haglFeet >= 5 + restingPoint){

geofs.animation.values.gpws10 = 1;

}

else{

geofs.animation.values.gpws10 = 0;

}

}

else {

geofs.animation.values.gpws1000 = 0;

geofs.animation.values.gpws500 = 0;

geofs.animation.values.gpws400 = 0;

geofs.animation.values.gpws300 = 0;

geofs.animation.values.gpws200 = 0;

geofs.animation.values.gpws100 = 0;

geofs.animation.values.gpws50 = 0;

geofs.animation.values.gpws40 = 0;

geofs.animation.values.gpws30 = 0;

geofs.animation.values.gpws20 = 0;

geofs.animation.values.gpws10 = 0;

}

}

soundInt = setInterval(function(){

getFinalSoundVolumes();

//groundEffect();

getGearFlapsWarn();

testForApproach();

testTerrainorAppr();

doRadioAltCall();

checkReverse();

checkCabin();

doShake();

getGroundSound();

getGearThud();

overspeed();

getRainVol();

getTouch();

getTrimSound();

getFlapsSound();

getFlapsClick();

resetLift();

applyInertia();

getPaxCheer();

getScream();

getFrontTouch();

bumpCount()

}, 10)

let alreadyChecked = false;

function doTrafficCheck() {

geofs.animation.values.isTCASDescend = 0;

geofs.animation.values.isTCASClimb = 0;

Object.values(multiplayer.visibleUsers).forEach(function(e) {

if (e.distance <= 1000) {

if (alreadyChecked) {

return;

}

geofs.animation.values.isTCAS = 1;

setTimeout(function(){

alreadyChecked = true

geofs.animation.values.isTCAS = 0;

}, 1000)

}

})

getTrafficProximity()

}

function getTrafficProximity() {

if (geofs.animation.values.isTCAS == 1) {

return;

}

Object.values(multiplayer.visibleUsers).forEach(function(e) {

if (e.distance <= 1000) {

if (e.referencePoint.lla[2] >= geofs.animation.values.altitudeMeters && e.referencePoint.lla[2] <= geofs.animation.values.altitudeMeters + 1000) {

geofs.animation.values.isTCASDescend = 1;

} else {

geofs.animation.values.isTCASDescend = 0;

}

if (e.referencePoint.lla[2] <= geofs.animation.values.altitudeMeters && e.referencePoint.lla[2] >= geofs.animation.values.altitudeMeters - 1000) {

geofs.animation.values.isTCASClimb = 1;

} else {

geofs.animation.values.isTCASClimb = 0;

}

}

});

if (geofs.animation.values.isTCASClimb == 0 && geofs.animation.values.isTCASDescend == 0) {

alreadyChecked = false

}

}

tcasIntervalAnnounce = setInterval(function() {

if (geofs.animation.values.altitudeMeters >= 1000) {

doTrafficCheck();

}

}, 200)

geofs.animation.values.flexl = 0;

geofs.animation.values.flexr = 0;

function getds() {

dsl = geofs.animation.values.flexl + geofs.aircraft.instance.parts['leftwing'].lift + (geofs.animation.values.accZ - 9.8) \* 30;

dsr = geofs.animation.values.flexr + geofs.aircraft.instance.parts['rightwing'].lift + (geofs.animation.values.accZ - 9.8) \* 30;

}

function spring() {

getds();

var ldsl = dsl;

var ldsr = dsr;

var fl = -k \* dsl;

var fr = -k \* dsr;

dml = dc \* vl;

dmr = dc \* vr;

var al = (fl + dml) / m;

var ar = (fr + dmr) / m;

vl += al \* rrate;

vr += ar \* rrate;

geofs.animation.values.flexl += vl \* rrate;

geofs.animation.values.flexr += vr \* rrate;

}

geofs.aircraft.instance.setup.parts[3].animations[0].function = "{return -geofs.animation.values.flexl}"

geofs.aircraft.instance.setup.parts[4].animations[0].function = "{return -geofs.animation.values.flexl}"

geofs.aircraft.instance.setup.parts[25].animations[0].function = "{return -geofs.animation.values.flexr}"

geofs.aircraft.instance.setup.parts[26].animations[0].function = "{return -geofs.animation.values.flexr}"

geofs.aircraft.instance.setup.parts[27].animations[0].function = "{return -geofs.animation.values.flexr}"

flexInterval = setInterval(function(){

spring();

}, frameD)

//yaw damper

geofs.animation.values.rudderDamp = 0;

function yawDamper() {

if (geofs.animation.values.haglFeet <= 200) {

geofs.animation.values.rudderDamp = geofs.animation.values.yaw;

} else {

var av = geofs.aircraft.instance.rigidBody.v\_angularVelocity[2] \* 30

geofs.animation.values.rudderDamp = geofs.animation.values.yaw - (av / (1 / geofs.animation.values.pitch \* 40))

}

}

geofs.aircraft.instance.parts.rudder.animations[0].value = "rudderDamp";

setInterval(function(){yawDamper();},10)