EMAM Model Autopilot.emam *.emam*.struct EMAM2CPP AutopilotAdapterH.ftl Generate AutopilotAdapterCPP.ftl AutopilotAdapterDataModel.java GeneratorCPP.java //Discovery functions: Autopilot.dll /.so get_count_input() get_type_input() AutopilotAdapter.h get_name_input() AutopilotAdapter.cpp get_struct_count__StructType() sub_components.h get_struct_name__StructType() //Getters/Setters set_input__speed() get_output__brakes() set_input__structPort__mem() **Emulator** Library load_file(.dll) Library.init(.dll) get_symbol(name) get_function(name) Port virtual buffer_input() //Reads input from Simulator virtual send_input() //Sends input to the Autopilot virtual buffer_output() //Reads output from Autopilot virtual get_output() //Sends output to the Simulator PortDouble PortStruct Port... Port[] member_ports double value ... value + init(): resolve getter/setter + init(): discover member + init(): resolve getter/setter + implements Port functions list & resolve getter/setter + implements Port functions + implements Port functions JNI + Compound Structure HardwareEmulatorInterface.java