```
Last login: Thu Nov 24 14:25:02 on ttys001
nicolobattaini@MacBook-Pro-di-Nicolo PX4-Autopilot % HEADLESS=1 make
px4_sitl jsbsim_quadrotor_x
-- PX4 version: v1.12.3-1-g55374fe589
-- PX4 config file: /Users/nicolobattaini/PX4-Autopilot/boards/px4/
sitl/default.cmake
-- PX4 config: px4_sitl_default
-- PX4 platform: posix
-- PX4 lockstep: enabled
-- cmake build type: RelWithDebInfo
-- The CXX compiler identification is AppleClang 14.0.0.14000029
-- The C compiler identification is AppleClang 14.0.0.14000029
-- The ASM compiler identification is Clang with GNU-like command-
line
-- Found assembler: /Applications/Xcode.app/Contents/Developer/
Toolchains/XcodeDefault.xctoolchain/usr/bin/cc
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Check for working CXX compiler: /Applications/Xcode.app/Contents/
Developer/Toolchains/XcodeDefault.xctoolchain/usr/bin/c++ - skipped
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Check for working C compiler: /Applications/Xcode.app/Contents/
Developer/Toolchains/XcodeDefault.xctoolchain/usr/bin/cc - skipped
-- Detecting C compile features
-- Detecting C compile features - done
-- Building for code coverage
-- ccache enabled (export CCACHE_DISABLE=1 to disable)
-- Found PythonInterp: /Users/nicolobattaini/.pyenv/shims/python3
(found suitable version "3.9.6", minimum required is "3")
-- build type is RelWithDebInfo
-- PX4 ECL: Very lightweight Estimation & Control Library v1.9.0-
rc1-591-gb3fed06
-- ROMFS: ROMFS/px4fmu_common
-- Configuring done
-- Generating done
-- Build files have been written to: /Users/nicolobattaini/PX4-
Autopilot/build/px4_sitl_default
[0/815] git submodule src/drivers/gps/devices
[1/815] git submodule src/lib/ecl
[2/815] git submodule mavlink/include/mavlink/v2.0
[10/815] git submodule Tools/jsbsim_bridge
[19/815] Performing configure step for 'jsbsim_bridge'
CMake Deprecation Warning at CMakeLists.txt:1
(cmake_minimum_required):
  Compatibility with CMake < 2.8.12 will be removed from a future
version of
  CMake.

  Update the VERSION argument <min> value or use a ...<max> suffix
to tell
  CMake that the project does not need compatibility with older
```

versions.

-- The C compiler identification is AppleClang 14.0.0.14000029
-- The CXX compiler identification is AppleClang 14.0.0.14000029
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Check for working C compiler: /Applications/Xcode.app/Contents/
Developer/Toolchains/XcodeDefault.xctoolchain/usr/bin/cc - skipped
-- Detecting C compile features
-- Detecting C compile features - done
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Check for working CXX compiler: /Applications/Xcode.app/Contents/
Developer/Toolchains/XcodeDefault.xctoolchain/usr/bin/c++ - skipped
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Found MAVLink: /Users/nicolobattaini/PX4-Autopilot/mavlink/
include (found version "2.0")
-- Found Boost: /usr/local/lib/cmake/Boost-1.80.0/BoostConfig.cmake
(found suitable version "1.80.0", minimum required is "1.58") found
components: system thread filesystem
-- Found TinyXML: /usr/local/lib/libtinyxml.dylib
-- /Users/nicolobattaini/PX4-Autopilot/mavlink/include
-- catkin DISABLED
-- Configuring done
-- Generating done
-- Build files have been written to: /Users/nicolobattaini/PX4-
Autopilot/build/px4_sitl_default/build_jsbsim_bridge
[20/815] Performing build step for 'jsbsim_bridge'
[4/13] Building CXX object CMakeFiles/jsbsim_bridge.dir/src/
sensor_plugin.cpp.o
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/src/sensor_plugin.cpp:42:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/sensor_plugin.h:45:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/mavlink_interface.h:26:
/usr/local/include/boost/bind.hpp:36:1: warning: The practice of
declaring the Bind placeholders (_1, _2, ...) in the global
namespace is deprecated. Please use <boost/bind/bind.hpp> + using
namespace boost::placeholders, or define
BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current behavior. [-
W#pragma-messages]
BOOST_PRAGMA_MESSAGE(
^
/usr/local/include/boost/config/pragma_message.hpp:24:34: note:
expanded from macro 'BOOST_PRAGMA_MESSAGE'
# define BOOST_PRAGMA_MESSAGE(x)
_Pragma(BOOST_STRINGIZE(message(x)))
                                    ^
<scratch space>:411:2: note: expanded from here
 message("The practice of declaring the Bind placeholders (_1,
_2, ...) " "in the global namespace is deprecated. Please use "

```
"<boost/bind/bind.hpp> + using namespace boost::placeholders, " "or
define BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current
behavior.")
 ^
1 warning generated.
[5/13] Building CXX object CMakeFiles/jsbsim_bridge.dir/src/
main.cpp.o
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/src/main.cpp:42:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/jsbsim_bridge.h:43:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/mavlink_interface.h:26:
/usr/local/include/boost/bind.hpp:36:1: warning: The practice of
declaring the Bind placeholders (_1, _2, ...) in the global
namespace is deprecated. Please use <boost/bind/bind.hpp> + using
namespace boost::placeholders, or define
BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current behavior. [-
W#pragma-messages]
BOOST_PRAGMA_MESSAGE(
^
/usr/local/include/boost/config/pragma_message.hpp:24:34: note:
expanded from macro 'BOOST_PRAGMA_MESSAGE'
# define BOOST_PRAGMA_MESSAGE(x)
_Pragma(BOOST_STRINGIZE(message(x)))
                                 ^
<scratch space>:403:2: note: expanded from here
 message("The practice of declaring the Bind placeholders (_1,
_2, ...) " "in the global namespace is deprecated. Please use "
"<boost/bind/bind.hpp> + using namespace boost::placeholders, " "or
define BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current
behavior.")
 ^
1 warning generated.
[6/13] Building CXX object CMakeFiles/jsbsim_bridge.dir/src/
jsbsim_bridge.cpp.o
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/src/jsbsim_bridge.cpp:44:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/jsbsim_bridge.h:43:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/mavlink_interface.h:26:
/usr/local/include/boost/bind.hpp:36:1: warning: The practice of
declaring the Bind placeholders (_1, _2, ...) in the global
namespace is deprecated. Please use <boost/bind/bind.hpp> + using
namespace boost::placeholders, or define
BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current behavior. [-
W#pragma-messages]
BOOST_PRAGMA_MESSAGE(
^
/usr/local/include/boost/config/pragma_message.hpp:24:34: note:
expanded from macro 'BOOST_PRAGMA_MESSAGE'
# define BOOST_PRAGMA_MESSAGE(x)
_Pragma(BOOST_STRINGIZE(message(x)))
```

```
                                      ^
<scratch space>:403:2: note: expanded from here
 message("The practice of declaring the Bind placeholders (_1,
_2, ...) " "in the global namespace is deprecated. Please use "
"<boost/bind/bind.hpp> + using namespace boost::placeholders, " "or
define BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current
behavior.")
 ^
1 warning generated.
[7/13] Building CXX object CMakeFiles/jsbsim_bridge.dir/src/
mavlink_interface.cpp.o
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/src/mavlink_interface.cpp:22:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/mavlink_interface.h:26:
/usr/local/include/boost/bind.hpp:36:1: warning: The practice of
declaring the Bind placeholders (_1, _2, ...) in the global
namespace is deprecated. Please use <boost/bind/bind.hpp> + using
namespace boost::placeholders, or define
BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current behavior. [-
W#pragma-messages]
BOOST_PRAGMA_MESSAGE(
^
/usr/local/include/boost/config/pragma_message.hpp:24:34: note:
expanded from macro 'BOOST_PRAGMA_MESSAGE'
# define BOOST_PRAGMA_MESSAGE(x)
_Pragma(BOOST_STRINGIZE(message(x)))
                                      ^
<scratch space>:403:2: note: expanded from here
 message("The practice of declaring the Bind placeholders (_1,
_2, ...) " "in the global namespace is deprecated. Please use "
"<boost/bind/bind.hpp> + using namespace boost::placeholders, " "or
define BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current
behavior.")
 ^
1 warning generated.
[8/13] Building CXX object CMakeFiles/jsbsim_bridge.dir/src/
sensor_airspeed_plugin.cpp.o
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/src/sensor_airspeed_plugin.cpp:42:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/sensor_airspeed_plugin.h:45:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/sensor_plugin.h:45:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/mavlink_interface.h:26:
/usr/local/include/boost/bind.hpp:36:1: warning: The practice of
declaring the Bind placeholders (_1, _2, ...) in the global
namespace is deprecated. Please use <boost/bind/bind.hpp> + using
namespace boost::placeholders, or define
BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current behavior. [-
W#pragma-messages]
BOOST_PRAGMA_MESSAGE(
^
```

```
/usr/local/include/boost/config/pragma_message.hpp:24:34: note:
expanded from macro 'BOOST_PRAGMA_MESSAGE'
# define BOOST_PRAGMA_MESSAGE(x)
_Pragma(BOOST_STRINGIZE(message(x)))
                                       ^
<scratch space>:411:2: note: expanded from here
 message("The practice of declaring the Bind placeholders (_1,
_2, ...) " "in the global namespace is deprecated. Please use "
"<boost/bind/bind.hpp> + using namespace boost::placeholders, " "or
define BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current
behavior.")
 ^
1 warning generated.
[9/13] Building CXX object CMakeFiles/jsbsim_bridge.dir/src/
sensor_baro_plugin.cpp.o
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/src/sensor_baro_plugin.cpp:42:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/sensor_baro_plugin.h:45:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/sensor_plugin.h:45:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/mavlink_interface.h:26:
/usr/local/include/boost/bind.hpp:36:1: warning: The practice of
declaring the Bind placeholders (_1, _2, ...) in the global
namespace is deprecated. Please use <boost/bind/bind.hpp> + using
namespace boost::placeholders, or define
BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current behavior. [-
W#pragma-messages]
BOOST_PRAGMA_MESSAGE(
^
/usr/local/include/boost/config/pragma_message.hpp:24:34: note:
expanded from macro 'BOOST_PRAGMA_MESSAGE'
# define BOOST_PRAGMA_MESSAGE(x)
_Pragma(BOOST_STRINGIZE(message(x)))
                                       ^
<scratch space>:411:2: note: expanded from here
 message("The practice of declaring the Bind placeholders (_1,
_2, ...) " "in the global namespace is deprecated. Please use "
"<boost/bind/bind.hpp> + using namespace boost::placeholders, " "or
define BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current
behavior.")
 ^
1 warning generated.
[10/13] Building CXX object CMakeFiles/jsbsim_bridge.dir/src/
sensor_gps_plugin.cpp.o
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/src/sensor_gps_plugin.cpp:42:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/sensor_gps_plugin.h:45:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/sensor_plugin.h:45:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/mavlink_interface.h:26:
```

```
/usr/local/include/boost/bind.hpp:36:1: warning: The practice of
declaring the Bind placeholders (_1, _2, ...) in the global
namespace is deprecated. Please use <boost/bind/bind.hpp> + using
namespace boost::placeholders, or define
BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current behavior. [-
W#pragma-messages]
BOOST_PRAGMA_MESSAGE(
^
/usr/local/include/boost/config/pragma_message.hpp:24:34: note:
expanded from macro 'BOOST_PRAGMA_MESSAGE'
# define BOOST_PRAGMA_MESSAGE(x)
_Pragma(BOOST_STRINGIZE(message(x)))
                                     ^
<scratch space>:411:2: note: expanded from here
 message("The practice of declaring the Bind placeholders (_1,
_2, ...) " "in the global namespace is deprecated. Please use "
"<boost/bind/bind.hpp> + using namespace boost::placeholders, " "or
define BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current
behavior.")
 ^
1 warning generated.
[11/13] Building CXX object CMakeFiles/jsbsim_bridge.dir/src/
sensor_imu_plugin.cpp.o
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/src/sensor_imu_plugin.cpp:42:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/sensor_imu_plugin.h:45:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/sensor_plugin.h:45:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/mavlink_interface.h:26:
/usr/local/include/boost/bind.hpp:36:1: warning: The practice of
declaring the Bind placeholders (_1, _2, ...) in the global
namespace is deprecated. Please use <boost/bind/bind.hpp> + using
namespace boost::placeholders, or define
BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current behavior. [-
W#pragma-messages]
BOOST_PRAGMA_MESSAGE(
^
/usr/local/include/boost/config/pragma_message.hpp:24:34: note:
expanded from macro 'BOOST_PRAGMA_MESSAGE'
# define BOOST_PRAGMA_MESSAGE(x)
_Pragma(BOOST_STRINGIZE(message(x)))
                                     ^
<scratch space>:411:2: note: expanded from here
 message("The practice of declaring the Bind placeholders (_1,
_2, ...) " "in the global namespace is deprecated. Please use "
"<boost/bind/bind.hpp> + using namespace boost::placeholders, " "or
define BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current
behavior.")
 ^
1 warning generated.
[12/13] Building CXX object CMakeFiles/jsbsim_bridge.dir/src/
sensor_mag_plugin.cpp.o
```

```
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/src/sensor_mag_plugin.cpp:42:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/sensor_mag_plugin.h:46:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/sensor_plugin.h:45:
In file included from /Users/nicolobattaini/PX4-Autopilot/Tools/
jsbsim_bridge/include/mavlink_interface.h:26:
/usr/local/include/boost/bind.hpp:36:1: warning: The practice of
declaring the Bind placeholders (_1, _2, ...) in the global
namespace is deprecated. Please use <boost/bind/bind.hpp> + using
namespace boost::placeholders, or define
BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current behavior. [-
W#pragma-messages]
BOOST_PRAGMA_MESSAGE(
^
/usr/local/include/boost/config/pragma_message.hpp:24:34: note:
expanded from macro 'BOOST_PRAGMA_MESSAGE'
# define BOOST_PRAGMA_MESSAGE(x)
_Pragma(BOOST_STRINGIZE(message(x)))
                                 ^
<scratch space>:411:2: note: expanded from here
 message("The practice of declaring the Bind placeholders (_1,
_2, ...) " "in the global namespace is deprecated. Please use "
"<boost/bind/bind.hpp> + using namespace boost::placeholders, " "or
define BOOST_BIND_GLOBAL_PLACEHOLDERS to retain the current
behavior.")
 ^
1 warning generated.
[13/13] Linking CXX executable jsbsim_bridge
ld: warning: dylib (/usr/local/lib/libboost_thread-mt.dylib) was
built for newer macOS version (13.0) than being linked (12.3)
ld: warning: dylib (/usr/local/lib/libboost_system-mt.dylib) was
built for newer macOS version (13.0) than being linked (12.3)
ld: warning: dylib (/usr/local/lib/libtinyxml.dylib) was built for
newer macOS version (13.0) than being linked (12.3)
[347/815] Building CXX object platforms/posix/src/px4/common/
CMakeFiles/px4_layer.dir/print_load.cpp.o
FAILED: platforms/posix/src/px4/common/CMakeFiles/px4_layer.dir/
print_load.cpp.o
/usr/local/bin/ccache /Applications/Xcode.app/Contents/Developer/
Toolchains/XcodeDefault.xctoolchain/usr/bin/c++
-DCONFIG_ARCH_BOARD_PX4_SITL -DENABLE_LOCKSTEP_SCHEDULER
-DMODULE_NAME=\"px4\" -D__CUSTOM_FILE_IO__ -D__PX4_DARWIN
-D__PX4_POSIX -D__STDC_FORMAT_MACROS
-Dnoreturn_function="__attribute__((noreturn))" -I/Users/
nicolobattaini/PX4-Autopilot/boards/px4/sitl/src -I/Users/
nicolobattaini/PX4-Autopilot/platforms/posix/src/px4/common/include
-I/Users/nicolobattaini/PX4-Autopilot/build/px4_sitl_default -I/
Users/nicolobattaini/PX4-Autopilot/build/px4_sitl_default/src/lib
-I/Users/nicolobattaini/PX4-Autopilot/platforms/posix/src/px4/
generic/generic/include -I/Users/nicolobattaini/PX4-Autopilot/
platforms/common -I/Users/nicolobattaini/PX4-Autopilot/platforms/
common/include -I/Users/nicolobattaini/PX4-Autopilot/src -I/Users/
```

```
nicolobattaini/PX4-Autopilot/src/include -I/Users/nicolobattaini/
PX4-Autopilot/src/lib -I/Users/nicolobattaini/PX4-Autopilot/src/lib/
matrix -I/Users/nicolobattaini/PX4-Autopilot/src/modules -I/Users/
nicolobattaini/PX4-Autopilot/platforms/posix/include -I/Users/
nicolobattaini/PX4-Autopilot/build/px4_sitl_default/external/
Install/include -I/Users/nicolobattaini/PX4-Autopilot/platforms/
posix/src/px4/common/lockstep_scheduler/include -O2 -g -DNDEBUG
-isysroot /Applications/Xcode.app/Contents/Developer/Platforms/
MacOSX.platform/Developer/SDKs/MacOSX12.3.sdk -fPIC -g -fdata-
sections -ffunction-sections -fomit-frame-pointer -fmerge-all-
constants -fno-signed-zeros -fno-trapping-math -freciprocal-math
-fno-math-errno -fno-strict-aliasing -fvisibility=hidden -include
visibility.h -Wall -Wextra -Werror -Warray-bounds -Wcast-align
-Wdisabled-optimization -Wdouble-promotion -Wfatal-errors -Wfloat-
equal -Wformat-security -Winit-self -Wlogical-op -Wpointer-arith
-Wshadow -Wuninitialized -Wunknown-pragmas -Wunused-variable -Wno-
missing-field-initializers -Wno-missing-include-dirs -Wno-unused-
parameter -fcolor-diagnostics -fdiagnostics-absolute-paths -Qunused-
arguments -Wno-c99-designator -Wno-unknown-warning-option -Wno-
unused-const-variable -Wno-varargs -fno-exceptions -fno-rtti -fno-
threadsafe-statics -Wreorder -Wno-overloaded-virtual -Wno-cast-align
-std=gnu++14 -MD -MT platforms/posix/src/px4/common/CMakeFiles/
px4_layer.dir/print_load.cpp.o -MF platforms/posix/src/px4/common/
CMakeFiles/px4_layer.dir/print_load.cpp.o.d -o platforms/posix/src/
px4/common/CMakeFiles/px4_layer.dir/print_load.cpp.o -c /Users/
nicolobattaini/PX4-Autopilot/platforms/posix/src/px4/common/
print_load.cpp
/Users/nicolobattaini/PX4-Autopilot/platforms/posix/src/px4/common/
print_load.cpp:119:11: fatal error: variable 'stat_thread' set but
not used [-Wunused-but-set-variable]
        uint32_t stat_thread = 0;
                 ^
1 error generated.
[351/815] Building CXX object platforms/common/px4_work_queue/
CMakeFiles/px4_work_queue.dir/WorkQueue.cpp.o
ninja: build stopped: subcommand failed.
make: *** [px4_sitl] Error 1
nicolobattaini@MacBook-Pro-di-Nicolo PX4-Autopilot %
```