

EXPLOLER

OPEN EDITORS

main.c

edge-ai/samples/axon/hello_axon/src

3

WORKSPACEEDGEAI

edge-ai

include

axon

drivers/axon

nrf_axon_driver.h

nrf_axon_dsp_intrinsics.h

nrf_axon_nn_infer_test.h

nrf_axon_nn_infer.h

nrf_axon_nn_op_extensions.h

nrf_axon_platform_interface.h

nrf_edgeai

lib

samples

axon/hello_axon

boards

src

generated

main.c

3

CMakeLists.txt

Kconfig

prj.conf

README.rst

sample.yaml

edge_impulse

nrf_edgeai

tests/axon

compiled_models

OUTLINE

TIMELINE

PROJECT COMPONENTS

workspaceEdgeAI

Update

ESP-IDF: Search Error Hint

main.c

3

edge-ai > samples > axon > hello_axon > src > main.c > ...

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/*

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*

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*/

#include <drivers/axon/nrf_axon_driver.h>

#include <drivers/axon/nrf_axon_nn_infer.h>

#include <axon/nrf_axon_platform.h>

#include <zephyr/logging/log.h>

#include <math.h>

#include "generated/nrf_axon_model_hello_axon.h"

LOG_MODULE_REGISTER(hello_axon);

/* Input size, matching the input layer dimensions in @ref model_hello_axon */

#define INPUT_SIZE (1)

/* Output size, matching the output dimensions in @ref model_hello_axon */

#define OUTPUT_SIZE (1)

static const float sample_values[] = {3.07f, 2.14f, 5.76f, 4.62f, 0.00f, 1.60f, 4.5

0.35f, 3.53f, 6.17f, 5.29f, 0.21f, 6.13f, 3.10f, 1.75f};

/* Used to pass current sample value to inference_callback to compare prediction with target */

static float current_async_sample_value;

static void quantize(const float *values, const size_t length, int8_t *target,

const nrf_axon_nn_compiled_model_input_s *input_params)

{

const uint32_t q_mult = input_params->quant_mult;

const uint8_t q_round = input_params->quant_round;

const int8_t q_zp = input_params->quant_zp;

for (size_t i = 0; i < length; i++) {

target[i] = (int8_t)((uint32_t)(values[i] * q_mult) >> q_round) + q_zp;

}

}

static void dequantize(const int8_t *values, const size_t length, float *target,

CHAT

SESSIONS

Tip: Try the Plan agent to research and plan before implementing changes.

+ C main.c

Describe what to build

+ Auto

v2.0.0

Launchpad

3

0

Ln 1, Col 1

Tab Size: 4

UTF-8

LF

C

Mac