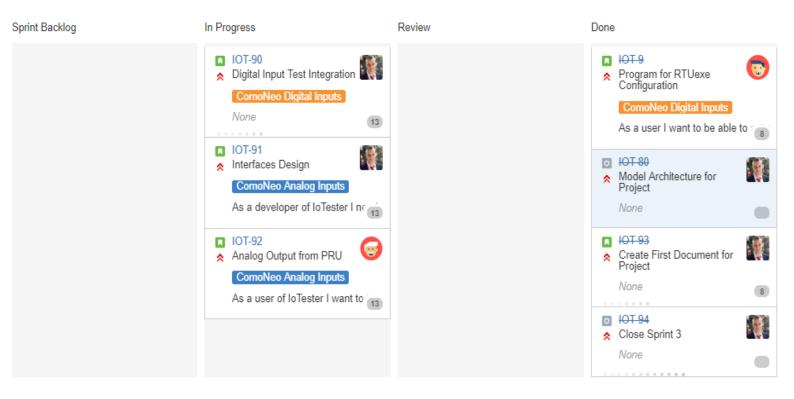
Slovenská technická univerzita v Bratislave Fakulta informatiky a informačných technológií Ilkovičova 2, 842 16, Bratislava 4



Export úloh z nástroja JIRA

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|------------------|--|
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| Akademický rok: | 2018/2019 |



| Summary | lssue key | lssue Type | Status | Assignee | Description | Epic Link | Epic Name | Sprint 1 | Sprint 2 | Sprint 3 | Sprint 4 | Story Points | Task type |
|--|--------------|---------------|-------------|-----------------|--|--------------|------------|----------|----------|----------|--------------|-----------------|-----------|
| Close Sprint 3 | IOT-94 | Task | Closed | Stanislav Širka | | LIIIK | | | | | IOT Sprint 4 | romus | other |
| Create First Document for Project | IOT-93 | Story | Closed | Stanislav Širka | | | | | | | IOT Sprint 4 | 8.0 | |
| Analog Output from PRU | IOT-92 | Story | In Progress | Rastislav Kováč | As a user of IoTester I want to be able to generate analog outputs with defined timing to be able to test the ComoNeo. Acceptance criteria: * simple analog output example is compilable and possible to load into PRU * team understands how the DAC chip is connected to the board (SPI, GPIOS) * SPI and GPIOs necessary to control DAC are enabled in the device tree * team has basic understanding of used DACsÅ (http://www.tic.com/lit/ds/symlink/dac8734.pdf] * team understands daisy-chain concept [https://www.maximintegrated.com/en/app- notes/index.moy/d/3947] * team understand how to send data over SPI from PRU (what is the data format, how the address is stored in the data) - basicaly to understand what this code means.Â ((unit32_t) bata.Channe[[iCount].iCurrentValue]& DAFFF] [((I0X04) + (int)[iCount / DAISY_CHAIN_DEVICES]) << 16) | IOT-36 | | | | | IOT Sprint 4 | 13.0 | |
| Interfaces Design | IOT-91 | Story | In Progress | Stanislav Širka | As a developer of IoTester I need a design of the communication message between PRU and CPU. Acceptance criteria: * message should be easy to use for PRU (no parsing, no caching in PRU,) * message will support all digital outputs and analog outputs usable on IoTester * documentation of the message - will contain reasoningÅ * the basic idea how to create this message in CPU is described | IOT-36 | | | | | IOT Sprint 4 | 13.0 | |
| Digital Input Test Integration | IOT-90 | Story | In Progress | Stanislav Širka | | IOT-2 | | | | | IOT Sprint 4 | 13.0 | |
| Deployment | IOT-89 | Epic | To Do | | | | Deployment | | | | | | |
| Jenkins pipeline for installation image | IOT-88 | Story | To Do | | As a user I want try the latest changes of the IoTester firmware. Acceptance criteria: * Jenkins pipeline which will be trigerred by the change in a giit branch and will compose the IoTester firmware | IOT-89 | | | | | | | |
| Installation image build | IOT-87 | Story | To Do | | As a developer/tester/user I want to try the latest changes in the IoTester firmware. Acceptance criteria: * script which will integrate parts of the IoTester firmware (web server, PRU binary,) | IOT-89 | | | | | | | |
| Enable multiple digital and analog outputs | IOT-86 | Story | To Do | | As a user I want to use all analog and digital outputs of IoTester to be able to control ComoNeo. Acceptance criteria: * Rest API is extended so that it allows configuration of all digital and analog outputs * RTU executes the configuration according defined timing | IOT-40 | | | | | | | |
| ComoNeo simulator data conversion | 101-85 | Story | To Do | | As a ComoNeo tester I want to be able to take the data for ComoNeo simulator and configure with the IoTester Acceptance criteria: * Robot framework keyword which will load configures IoTester via Rest API ComoNeo Simulator input data description: [https://git.kistler.com/comong/comong- software/tree/master/Core/lib/Fpga/Simulator] ComoNeo Simulator input data examples: [https://git.kistler.com/comong/comong- software/tree/release-3.0/Testing/RestApi- Robot/Setups/2molds/ApplicationFiles/Simulator] [https://git.kistler.com/comong/comong- software/tree/master/Testing/RestApi- Robot/Setups/2c1p/ApplicationFiles/Simulator] Å | IOT-40 | | | | | | | |

| | | | | | As a user I want to generate a defined digital output in real time. | | | | | |
|--|--|--|---|------------------------------------|--|--------|--|--------------|--------------|------------------------|
| RTU IoTester analog output | IOT-84 | Story | To Do | | Acceptance criteria: * PRU process a message with values of digital output | IOT-36 | | | | |
| | | | | | and analog output and sets that according timing defined in the message | | | | | |
| | | | | | | | | | | |
| | | | | | As a user of IoTester I want to be able to set the analog and digital outputs. | | | | | |
| | | | | | Acceptance criteria: | | | | | |
| REST API for analog | IOT-83 | Story | To Do | | * IoTester Rest API provides a call which allows to set digital and analog outputs of IoTester * the RestAPI handler sends the data as a message to | IOT-36 | | | | |
| output of IoTester | | | | | RTU | | | | | |
| | | | | | HINT: The handler can prepare the data in a "RTU friendly" | | | | | |
| | | | | | form. | | | | | |
| | | | | | | | | | | |
| | | | | | As I user I want to generate analog output on IoTester | | | | | |
| | | | | | and test the behaviour of ComoNeo firmware. Acceptance criteria: | | | | | |
| Create a test for ComoNeo analog | IOT-82 | Change | To Do | | * Test sets the measurement start of the ComoNeo to a pin connected to IoTester | | | | | |
| input | 101-82 | SLOTY | To Do | | * Test sets the analog output values to the IoTester (e.g. in 10 seconds sets 10 different values) | IOT-36 | | | | |
| | | | | | * Test starts the measurement with digiital output of IoTester * Test checks the values using cursor in ComoNeo web | | | | | |
| | | | | | application (see the attachment) | | | | | |
| | | | | | | | | | | |
| | | | | | As a user I want to be able to install IoTester software to a new BBB. | | | | | |
| Installer SD card | IOT-81 | Story | To Do | | Acceptance criteria: | IOT-89 | | | | |
| image | | , | | | * SD card image which installs the IoTester firmware into internal memory of BBB | | | | | |
| | | | | | * document how to install the new BBB | | | | | |
| Model Architecture | | | | | | | | | | |
| for Project | IOT-80 | Task | Closed | Stanislav Širka | | | | IOT Sprint 3 | IOT Sprint 4 | documentation |
| Presentation for Sprint 3 End | IOT-80 | Task | Closed | Stanislav Širka Stanislav Širka | | | | IOT Sprint 3 | IOI Sprint 4 | documentation other |
| Presentation for Sprint 3 End Document how to use IoTester for ComoNeo | IOT-79 | | | | | | | | IOI Sprint 4 | |
| Presentation for Sprint 3 End Document how to use IoTester for | IOT-79 IOT-64 | Task | Closed | | | | | | IOI Sprint 4 | |
| Presentation for Sprint 3 End Document how to use IoTester for ComoNeo Document how to use IoTester for devices other than ComoNeo Tests integration into continuous | IOT-79 IOT-64 | Task Group Group | Closed Group Group | | | | | | IOI Sprint 4 | |
| Presentation for Sprint 3 End Document how to use IoTester for ComoNeo Document how to use IoTester for devices other than ComoNeo Tests integration integration system Test examples | IOT-79 IOT-64 IOT-76 IOT-60 | Task Group Group Group | Closed Group Group Group | | | | | | IOI Sprint 4 | |
| Presentation for Sprint 3 End Document how to use IoTester for ComoNeo Document how to use IoTester for devices other than ComoNeo Tests integration into continuous integration system Test examples implementation Robot framework | IOT-79 IOT-64 IOT-76 IOT-60 | Task Group Group | Closed Group Group | | | | | | IOI Sprint 4 | |
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| Presentation for Sprint 3 End Document how to use loTester for ComoNeo Document how to use loTester for devices other than ComoNeo Tests integration into continuous integration system Test examples implementation Robot framework integration loTester implementation loTester architecture Architecture Architecture Architecture Architecture Robot Framework Tests Robot Framework tests Documentation | IOT-79 IOT-64 IOT-76 IOT-76 IOT-55 IOT-66 IOT-58 IOT-65 IOT-65 IOT-65 IOT-67 IOT-67 | Task Group Group Group Group Group Group Group Group Group | Closed Group Group Group Group Group Group Group Group Group | | Architecture document contains high level view on PRU, ARM, beaglebone, robot framework and ComoNeo relations.Å Examples of robot framework tests demonstrates the functionality of IoTester. REST API is documented. Documentation contains description how to use the interface for different | | | | IOI Sprint 4 | |
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| | | | - | | Harware consists of reusable part and device specific | | | | | | | |
|---|------------------|--------------|------------------|------------------------------------|--|--------|-----------------------|--------------|--------------|--------------|-----|----------------|
| Hardware | | Group | Group | | part (e.g. ComoNeo connectors). | | | | | | | |
| Design | IOT-74 | | Group | | First prototype of the device is used to test ComoNeo:Â [https://www.kistler.com/en/applications/industrial- process-control/plastic-process-monitoring/injection- molding-process-control/process-monitoring-with- comoneo/] | | | | | | | |
| Project goal | IOT-78 | Group | Group | | The goal of the porject is to enable automatic testing of measuring devices. For this purpose it is necessary to develop a device able to generate various analog and digital signals which will simulate sensors and device states. | | | | | | | |
| Project goal | IOT-57 | Group | Group | | | | | | | | | |
| Port IoTester specification to Jira | IOT-54 | Task | Closed | Lukáš Ondriga | | | | | | IOT Sprint 3 | | |
| Manage Kistler resources for PCB design | IOT-53 | Task | Closed | Lukáš Ondriga | | | | | | IOT Sprint 3 | | |
| Create Document for Tasks Managment | IOT-52 | Task | Closed | Stanislav Širka | | | | | | IOT Sprint 3 | | documentation |
| Create Document for Jira Changes | IOT-51 | Task | Closed | Stanislav Širka | | | | | | IOT Sprint 3 | | documentation |
| Close Sprint 2 | IOT-50 | Task | Closed | Stanislav Širka | | | | | | IOT Sprint 3 | | |
| Prepare Document for Board Design | IOT-49 | Story | In Progress | Miroslav Sabo | As a hardware engineer, IÂ want to create document for board design, so that we can use it as a guideline for creating final design of our new board.Â | IOT-1 | | | | IOT Sprint 3 | 8.0 | |
| Close Sprint 1 | IOT-48 | Task | Closed | Stanislav Širka | Close sprint 1. Create sprint 2. Export tasks from Jira. | | | | IOT Sprint 2 | | | other |
| Print User Stories | IOT-47 | Task | Closed | Stanislav Širka | | | | IOT Sprint 1 | | | | other |
| Export Data From Jira - Sprint 1 Start | IOT-46 | Task | Closed | Stanislav Širka | | | | IOT Sprint 1 | | | | other |
| Create Methodic for Methodics Document | IOT-45 | Task | Closed | Stanislav Širka | | | | IOT Sprint 1 | | | | documentation |
| Methodics | IOT-44 | Story | Closed | Stanislav Širka | Create methodic for: * Meeting Documentation * Tasks managment - done * Methodics - done * Code versioning - done * Web - done | | | IOT Sprint 1 | IOT Sprint 2 | IOT Sprint 3 | 3.0 | |
| Implement REST API | IOT-43 | Story | To Do | | | IOT-40 | | | | | | |
| Design REST API | IOT-42 | Story | To Do | | As a user of IoTester I need the documentation of REST API to be able to use this interface. Acceptance criteria: * REST API is not ComoNeo specific * REST API enables to set digital and analog outputs of IoTester * Documentation of REST APIÅ Å Hint: Analyse the data used in ComoNeo software simulator: [https://git.kistler.com/comong/comong. software/tree/master/Core/lib/Fpga/Simulator 10/ders: [https://git.kistler.com/comong/comong. software/tree/master/Tost/lib/Fpga/Simulator folders: [https://git.kistler.com/comong/comong. software/tree/master/Testing/RestApi-Robot/Setups] Å | IOT-40 | | | | | | |
| Analyze, design, implement REST API | IOT-40 | Epic | To Do | | | | REST API | | | | | |
| Test analog inputs on ComoNeo | IOT-36 | Epic | To Do | | As a user I want to be able to test an analog output on IoTester to be able to test analog input of ComoNeo. Acceptance criteria: * test in robot framework: ** configures IoTester to send an analog signal ** checks if the signal was measured by ComoNeo | | ComoNeo Analog Inputs | | | | | |
| Study Story Points | IOT-35 | Task | Closed | Stanislav Širka | | | | | | | | other |
| Study Poker Cards | | Task | Closed | Stanislav Širka | | | | | | | | other |
| Study SCRUM Write TP1 | IOT-33 IOT-32 | Task Task | Closed Closed | Stanislav Širka Stanislav Širka | | | | | | | | other other |
| Requirements Update Trello | IOT-31 | Task | Closed | Stanislav Širka | | | | | | | | other |
| Create Team Website | IOT-30 | Story | Closed | Tomáš Bujna | | | | IOT Sprint 1 | | | 8.0 | |
| Decide on Our Guidelines | IOT-29 | Task | To Do | | | | | | | | | other |
| Kistler VPN Access Decleration | IOT-28 | Task | In Progress | Lukáš Ondriga | | | | IOT Sprint 1 | IOT Sprint 2 | | | other |
| Decleration | IOT-27 | Task | Closed | | | | | | | | | documentation |

| Create Team | | | | | | | | | | | | |
|---|--------|-------|-----------|-------------------|---|-------|--------------|--------------|--------------|--------------|------|----------------------|
| Poster Create Project | IOT-26 | Task | Closed | | | | | | | | | documentation |
| Specification | IOT-25 | Task | Closed | Lukáš Ondriga | | | | | | | | documentation |
| Share Google Drive | IOT-24 | Task | Closed | | | | | | | | | other |
| Create Team Chat | IOT-23 | Task | Closed | | | | | | | | | other |
| Decide on Continuous Server | IOT-22 | Task | Closed | | | | | | | | | other |
| Create Team GIT | IOT-21 | Task | Closed | | | | | | | | | other |
| Add Tasks to Jira | IOT-20 | Task | Closed | Stanislav Širka | Subtasks left: * Create Sprint - done * Add tasks to Sprint - done * Add task owners - done | | IOT Sprint 1 | | | | | other |
| Call Program on RTU from CPU | IOT-19 | Task | Closed | | | IOT-2 | | | | | | implementation |
| Analyze Communication Between RTU and | IOT-18 | Task | Closed | | | IOT-2 | | | | | | analysis |
| CPU Load Program to RTU | IOT-17 | Task | Closed | lgor Labát | As a user I want to be able to set digital output from RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. | IOT-2 | IOT Sprint 1 | IOT Sprint 2 | IOT Sprint 3 | | | implementation |
| Choose Simple Program for RTU | IOT-16 | Task | Closed | | | IOT-2 | | | | | | analysis |
| Choose Web Server Technology | IOT-15 | Task | Closed | Rastislav Kováč | | IOT-2 | IOT Sprint 1 | | | | | other |
| RTU and Web | 107 | Tert | Charles 1 | | | 107.5 | | | | | | and at |
| Server Compatibility Analyze RTU | IOT-14 | Task | Closed | | | IOT-2 | | | | | | analysis analysis |
| Create a Test | IOT-12 | | Closed | Marián Ján Franko | As a user I want to test the ComoNeo digital input. Acceptance criteria: Test configures IoTester (library for IoTester configuration will be implemented in different user story) Test checks the ComoNeo web application if the digital input was set. Â | IOT-2 | IOT Sprint 1 | IOT Sprint 2 | IOT Sprint 3 | | 13.0 | 0100725 |
| Robot Framework LIB | IOT-11 | Story | Closed | Marián Ján Franko | As a test developer I want to have a library to use IDTester * Acceptance criteria: * python module * keywords to set Como digital inputs are implemented HINT:Å implementation of the keywords are POST requests to the IDTester POST request is implemented inÅ http://jira.kistler.com/browse/IOT-10 | IOT-2 | | | IOT Sprint 3 | | 5.0 | |
| REST API Prototype | IOT-10 | Story | Closed | Tomáš Bujna | As a user of IOTester I want to have interface to set the Como digital input to be able to configure IOTester. Acceptance criteria: * working webserver on beagleboard * implemented simple post request with value of digital input (0 or 1) * post request execution is logged to the console | IOT-2 | | | IOT Sprint 3 | | 3.0 | |
| Program for RTUexe Configuration | IOT-9 | Story | Closed | Filip Starý | As a user I want to be able to set digital output from RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. | IOT-2 | | | | IOT Sprint 4 | 8.0 | |
| RTU and CPU Communication | IOT-8 | Story | Closed | Filip Starý | As a user I need to configure real time simulation to run various simulations. Acceptance criteria: RTU and CPU prototype is running on Beaglebone Linux console. | IOT-2 | IOT Sprint 1 | IOT Sprint 2 | IOT Sprint 3 | | 5.0 | |
| Load RTUexe | IOT-7 | Story | Closed | lgor Labát | As a user I need to do a real time simulation to be able to simulate sensor measurements. Acceptance criteria: Loading of the program to the real time unit will be shown on Linux console. | IOT-2 | IOT Sprint 1 | IOT Sprint 2 | IOT Sprint 3 | | 13.0 | |

| Technology for Linux (Web Server) | IOT-6 | Story | Closed | Rastislav Kováč | As a developer I want to select frameworks/technologies to be able to write REST API for BeagleBone Black real time unit configurations. Acceptance criteria: Document 3 alternatives with pros and cons. | IOT-2 | | IOT Sprint 1 | | | 5.0 | |
|--|-------|-------|--------|-----------------|---|-------|------------------------|--------------|--------------|--|------|--|
| New Housing Design | IOT-5 | Story | To Do | Miroslav Sabo | | IOT-1 | | | | | 3.0 | |
| Design Boards as modules | IOT-4 | Story | To Do | Miroslav Sabo | As a hardware engineer, IÂ want to design board in modules block, so that each module has a particular function and could be possible to replace it with extended function.Â Acceptance criteria: # Detail block schematic of modules and connection between them # Created design user stories for each modules | IOT-1 | | | | | 13.0 | |
| Analyze Board | IOT-3 | Story | Closed | Miroslav Sabo | As a hardware engineer I need to analyse the current board to be able to make the final design. Acceptance criteria: Document the current design of the board. | IOT-1 | | IOT Sprint 1 | IOT Sprint 2 | | 8.0 | |
| Testing digital inputs on | IOT-2 | Epic | To Do | | | | ComoNeo Digital Inputs | | | | | |
| ComoNeo Refactoring HW for better compactness | IOT-1 | Epic | To Do | | | | IoTester Refactoring | | | | | |