

## Issues

| #    | Project   | Tracker | Status   | Priority  | Subject   | Author            | Assignee          | Target version |
|------|-----------|---------|----------|-----------|---|-------------------|-------------------|----------------|
| 7385 | MicroTESK | Bug     | Closed   | Immediate | The 'prepare' function does not work with randomly selected registers   | Andrei Tatarnikov | Andrei Tatarnikov | 2.3            |
| 6910 | MicroTESK | Bug     | Closed   | Immediate | The is_global flag for data sections  | Andrei Tatarnikov | Andrei Tatarnikov | 2.3            |
| 5708 | MicroTESK | Bug     | Closed   | Immediate | MicroTESK build fails: SsaAssembler - symbol Changes is not defined   | Andrei Tatarnikov | Artem Kotsynyak   | 2.1            |
| 7628 | MicroTESK | Bug     | Closed   | Immediate | Methods 'dist' and 'range' are not supported in data sections   | Andrei Tatarnikov | Andrei Tatarnikov | 2.3            |
| 5668 | MicroTESK | Bug     | Closed   | Immediate | Issues with large memory addresses (48 and 64 bits) must be fixed   | Andrei Tatarnikov | Andrei Tatarnikov | 2.2            |
| 7461 | MicroTESK | Bug     | Closed   | Immediate | Block-level prologue and epilogue must stay prologue and epilogue when sequences are mixed                          | Andrei Tatarnikov | Andrei Tatarnikov | 2.3            |
| 5654 | MicroTESK | Task    | Closed   | Urgent    | [template] User-defined seed for random generation  | Andrei Tatarnikov | Andrei Tatarnikov |                |
| 4109 | MicroTESK | Bug     | Closed   | Urgent    | [template] Update needed: Test templates do not work after changes in Java.   | Andrei Tatarnikov | Andrei Tatarnikov |                |
| 5667 | MicroTESK | Task    | Closed   | Urgent    | Support splitting generated test programs into several source files   | Andrei Tatarnikov | Andrei Tatarnikov | 2.3            |
| 5672 | MicroTESK | Task    | Closed   | Urgent    | Support for UNPREDICTED and UNDEFINED   | Andrei Tatarnikov | Artem Kotsynyak   | 2.2            |
| 5678 | MicroTESK | Task    | Closed   | Urgent    | Support for named branches in ISA specifications  | Andrei Tatarnikov | Andrei Tatarnikov | 2.1            |
| 5665 | Fortress  | Task    | Closed   | Urgent    | Support for CVC4  | Andrei Tatarnikov | Artem Kotsynyak   | 0.4            |
| 5671 | MicroTESK | Bug     | Rejected | Urgent    | Robustness of test template processing logic must be improved   | Andrei Tatarnikov | Andrei Tatarnikov | 2.2            |
| 7300 | MicroTESK | Task    | Closed   | Urgent    | More timing metrics in generation statistics  | Andrei Tatarnikov | Andrei Tatarnikov | 2.3            |
| 5344 | MicroTESK | Task    | Closed   | Urgent    | Metamodel should provide information on argument types and whether they are in or out arguments                     | Andrei Tatarnikov | Andrei Tatarnikov | 2.2            |
| 5673 | MicroTESK | Task    | Closed   | Urgent    | Memory scalability for large memory ranges (address space for 48 and 64 bit addresses)                              | Andrei Tatarnikov | Andrei Tatarnikov | 2.2            |
| 6455 | MicroTESK | Bug     | Closed   | Urgent    | Implement block-level prologue and epilogue   | Andrei Tatarnikov | Andrei Tatarnikov | 2.3            |
| 5676 | MicroTESK | Task    | Closed   | Urgent    | [generator] Random generation - weighting / biasing distribution  | Andrei Tatarnikov |                   |                |
| 7690 | MicroTESK | Bug     | Closed   | Urgent    | Exception handler is not handled if it is not the first element in the list of exception describe in test templates | Andrei Tatarnikov | Andrei Tatarnikov | 2.4            |
| 5666 | MicroTESK | Task    | Closed   | Urgent    | Estimate generation speed   | Andrei Tatarnikov | Alexander Kamkin  | 2.1            |
| 7463 | MicroTESK | Bug     | Closed   | Urgent    | Correct processing of block structures and code in the root of pre, post and run methods                            | Andrei Tatarnikov | Andrei Tatarnikov | 2.3            |
| 7298 | MicroTESK | Task    | Closed   | Urgent    | Command-line option to disable simulation on the reference model  | Andrei Tatarnikov | Andrei Tatarnikov | 2.3            |
| 4281 | MicroTESK | Bug     | Closed   | High      | [translator] Support for aliases in memory (aka mem) definitions.   | Andrei Tatarnikov | Andrei Tatarnikov | 2.1            |
| 5514 | MicroTESK | Bug     | Closed   | High      | The implementation of 'coerce' needs a review   | Andrei Tatarnikov | Andrei Tatarnikov | 2.2            |
| 5312 | TestBase  | Task    | Closed   | High      | TestBase.executeQuery should return some status description   | Andrei Tatarnikov | Artem Kotsynyak   | 0.0            |
| 6973 | MicroTESK | Task    | Closed   | High      | Support for atomic sequences that will never be interrupted/reordered by a compositor/permutator                    | Andrei Tatarnikov | Andrei Tatarnikov | 2.3            |
| 5463 | Fortress  | Bug     | Closed   | High      | [S-expr] JavaDoc comments are needed  | Andrei Tatarnikov | Artem Kotsynyak   | 0.3            |

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|------|-----------|---------|----------|----------|---|-------------------|---------------------|----------------|
| 7269 | MicroTESK | Bug     | Rejected | High     | Returning from an exception in the last instruction in a test case                                | Andrei Tatarnikov | Andrei Tatarnikov   | 2.3            |
| 7418 | MicroTESK | Bug     | Closed   | High     | Reset the state of the model before starting generating a new test program file                   | Andrei Tatarnikov | Alexander Kamkin    | 2.5            |
| 5460 | Fortress  | Bug     | Closed   | High     | [project] Get rid of warnings   | Andrei Tatarnikov | Artem Kotsyntyak    | 0.3            |
| 4900 | MicroTESK | Task    | Rejected | High     | Printing information on the model should be possible  | Andrei Tatarnikov | Andrei Tatarnikov   | 2.2            |
| 5350 | MicroTESK | Task    | Closed   | High     | Labels in the text of instruction calls   | Andrei Tatarnikov | Andrei Tatarnikov   | 2.2            |
| 5716 | MicroTESK | Task    | Closed   | High     | Implement the possibility to process template code multiple times (e.g. atomic (:repeat => N) {}) | Andrei Tatarnikov | Andrei Tatarnikov   | 2.3            |
| 7012 | MicroTESK | Task    | Closed   | High     | Implement means of managing the use of registers in a test program                                | Andrei Tatarnikov | Andrei Tatarnikov   | 2.3            |
| 5987 | MicroTESK | Bug     | Closed   | High     | Handling situations when TestBase fails to generate test data (e.g. constraint is UNSAT)          | Andrei Tatarnikov | Andrei Tatarnikov   | 2.2            |
| 5659 | MicroTESK | Bug     | Rejected | High     | Function 'trace' should accept addressing modes as arguments                                      | Andrei Tatarnikov | Andrei Tatarnikov   | 2.2            |
| 5650 | MicroTESK | Bug     | Rejected | High     | Exception when no test situation is specified.  | Andrei Tatarnikov | Andrei Tatarnikov   | 2.2            |
| 4693 | Fortress  | Task    | Closed   | High     | [data] Реализации операций над битовыми векторами (BitVector)                                     | Andrei Tatarnikov | Andrei Tatarnikov   | 0.3            |
| 5542 | MicroTESK | Bug     | Closed   | High     | Creating instances of modes and ops: validity checks for arguments are needed                     | Andrei Tatarnikov | Andrei Tatarnikov   | 2.2            |
| 7534 | MicroTESK | Task    | Closed   | High     | Configuration option to manage reservation of explicitly specified registers                      | Andrei Tatarnikov | Andrei Tatarnikov   | 2.3            |
| 5639 | MicroTESK | Task    | Closed   | High     | Code review notes (package ru.ispras.unitesk.processor.test.mmu)                                  | Andrei Tatarnikov | Alexander Protsenko | 2.2            |
| 5819 | Fortress  | Task    | Closed   | High     | Calculator for bit vectors  | Andrei Tatarnikov | Artem Kotsyntyak    | 0.4            |
| 7251 | MicroTESK | Bug     | Rejected | High     | A warning or error is needed when a value is truncated  | Andrei Tatarnikov | Artem Kotsyntyak    | 2.5            |
| 7759 | TestBase  | Bug     | Closed   | High     | Avoid using lambda functions  | Andrei Tatarnikov | Alexander Dyumaev   |                |
| 8939 | MicroTESK | Feature | Closed   | High     | [autogen] New option 'base-template-path' must be supported.                                      | Andrei Tatarnikov | Alexander Protsenko | 2.4            |
| 5657 | MicroTESK | Task    | Closed   | High     | A command line option for random seed   | Andrei Tatarnikov | Andrei Tatarnikov   | 2.3            |
| 3996 | MicroTESK | Bug     | Closed   | Normal   | [translator] Support for long types (64-bit) in expressions                                       | Andrei Tatarnikov | Andrei Tatarnikov   |                |
| 4283 | MicroTESK | Task    | Closed   | Normal   | [translator] Support for custom attributes in operations and addressing modes.                    | Andrei Tatarnikov | Andrei Tatarnikov   | 2.1            |
| 3995 | MicroTESK | Bug     | Closed   | Normal   | [translator] Support for bitfields using non-constant expressions                                 | Andrei Tatarnikov | Andrei Tatarnikov   |                |
| 4015 | MicroTESK | Bug     | Closed   | Normal   | [translator] Shift and Rotate operations: negative distance                                       | Andrei Tatarnikov | Andrei Tatarnikov   |                |
| 4104 | MicroTESK | Task    | Closed   | Normal   | [translator] Reset VAR values after an instruction call   | Andrei Tatarnikov | Andrei Tatarnikov   |                |
| 4996 | MicroTESK | Bug     | Closed   | Normal   | [translator] It should be possible to define the "instruction" operation (root) as an OR rule     | Andrei Tatarnikov | Andrei Tatarnikov   | 2.1            |
| 6911 | MicroTESK | Bug     | New      | Normal   | The "get_address_of" method must work with all label types.                                       | Andrei Tatarnikov | Alexander Kamkin    | 2.6            |
| 5403 | MicroTESK | Task    | Closed   | Normal   | Test sequence generation logic (blocks, combinators, compositors) needs a review                  | Andrei Tatarnikov | Alexander Kamkin    | 2.2            |
| 8455 | MicroTESK | Bug     | Rejected | Normal   | Test Document   | Andrei Tatarnikov | Andrei Tatarnikov   | 2.4            |

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| 3988 | MicroTESK | Task    | Rejected | Normal   | Support for forward definitions in the nML translator  | Andrei Tatarnikov | Andrei Tatarnikov | 2.2            |
| 4061 | MicroTESK | Task    | New      | Normal   | Support for endianness   | Andrei Tatarnikov | Alexander Kamkin  | 2.6            |
| 5177 | Fortress  | Task    | Closed   | Normal   | [solver] Implement function templates  | Andrei Tatarnikov | Andrei Tatarnikov | 0.3            |
| 6380 | MicroTESK | Bug     | New      | Normal   | Possibility to specify initial values for registers  | Andrei Tatarnikov | Artem Kotsyniyak  | 2.6            |
| 8061 | MicroTESK | Bug     | Rejected | Normal   | Position of all blocks, calls, data etc. in test templates must be tracked to provide better debugging | Andrei Tatarnikov | Andrei Tatarnikov | 2.4            |
| 4161 | MicroTESK | Bug     | Rejected | Normal   | Observing the design state via addressing modes  | Andrei Tatarnikov | Andrei Tatarnikov | 2.2            |
| 8481 | MicroTESK | Task    | New      | Normal   | Need a way to specify the termination address for the test program                                     | Andrei Tatarnikov | Alexander Kamkin  | 2.6            |
| 5658 | MicroTESK | Task    | Closed   | Normal   | Need a single entry point for the translator and test generator subsystem                              | Andrei Tatarnikov | Andrei Tatarnikov | 2.2            |
| 4116 | MicroTESK | Task    | Closed   | Normal   | [model] Lazy memory allocation in memory models  | Andrei Tatarnikov | Andrei Tatarnikov | 2.1            |
| 5990 | MicroTESK | Bug     | New      | Normal   | Memory state must be taken into account when generating test data                                      | Andrei Tatarnikov | Alexander Kamkin  | 2.6            |
| 7603 | MicroTESK | Bug     | New      | Normal   | List of plug-ins must be stored in etc/settings.xml  | Andrei Tatarnikov | Alexander Kamkin  | 2.6            |
| 5176 | Fortress  | Task    | Closed   | Normal   | [expression] Possibility to calculate the expression type  | Andrei Tatarnikov | Andrei Tatarnikov | 0.3            |
| 5217 | Fortress  | Bug     | Closed   | Normal   | [expression] NodeBinding: hashCode and equals must be implemented                                      | Andrei Tatarnikov | Artem Kotsyniyak  | 0.3            |
| 5670 | MicroTESK | Task    | Closed   | Normal   | Examples of test templates using memory-related test situations (hit, miss)                            | Andrei Tatarnikov | Alexander Kamkin  | 2.3            |
| 5674 | MicroTESK | Task    | Rejected | Normal   | Description of test data generation mechanisms (test situation processing, constraint solving)         | Andrei Tatarnikov | Alexander Kamkin  | 2.2            |
| 4014 | MicroTESK | Bug     | Closed   | Normal   | Concatenation in left hand side expressions  | Andrei Tatarnikov | Andrei Tatarnikov | 2.2            |
| 5775 | Fortress  | Bug     | Closed   | Normal   | BitVector.longValue returns incorrect values   | Andrei Tatarnikov | Andrei Tatarnikov | 0.4            |
| 6194 | MicroTESK | Bug     | Rejected | Normal   | Automated extraction of addressable unit size  | Andrei Tatarnikov | Andrei Tatarnikov |                |
| 8060 | MicroTESK | Bug     | New      | Normal   | Attributes image and syntax and static instances   | Andrei Tatarnikov | Artem Kotsyniyak  | 2.6            |
| 5192 | MicroTESK | Task    | New      | Normal   | Assert constructions to check the model state during and after simulation                              | Andrei Tatarnikov | Alexander Kamkin  | 2.6            |
| 7678 | MicroTESK | Task    | New      | Low      | Generation of LLVM configuration files from nML specifications   | Andrei Tatarnikov | Alexander Kamkin  | 2.6            |