

## Issues

| #     | Project                    | Tracker | Status   | Priority | Subject   | Author        | Assignee          | Target version |
|-------|----------------------------|---------|----------|----------|---|---------------|-------------------|----------------|
| 6507  | Castle                     | Task    | Closed   | Normal   | build.gradle: get ANTLR jar from server   | Sergey Smolov | Sergey Smolov     |                |
| 9999  | Castle                     | Task    | Closed   | Normal   | ChangeLog -> ChangeLog.md   | Sergey Smolov | Sergey Smolov     | 0.1            |
| 9998  | Castle                     | Task    | Closed   | Normal   | README -> README.md   | Sergey Smolov | Sergey Smolov     | 0.1            |
| 2494  | CTESK                      | Bug     | New      | Normal   | warning at build log  | Sergey Smolov | Alexey Demakov    |                |
| 3590  | C++TESK<br>Testing ToolKit | Bug     | Closed   | Normal   | C++TesK installation fails on OpenSUSE 12.2 x64   | Sergey Smolov | Sergey Smolov     | 1.0            |
| 4004  | C++TESK<br>Testing ToolKit | Bug     | Closed   | Normal   | Из build'a пропал скрипт install-eclipse-plugin.sh  | Sergey Smolov | Sergey Smolov     | 1.0            |
| 3805  | C++TESK<br>Testing ToolKit | Bug     | Closed   | Normal   | Ошибка в QuickReference   | Sergey Smolov | Sergey Smolov     |                |
| 4005  | C++TESK<br>Testing ToolKit | Bug     | Rejected | Normal   | удалить пустой README   | Sergey Smolov | asd ert           | 1.0            |
| 5461  | Fortress                   | Bug     | Closed   | High     | [arrays] Insufficient arrays support  | Sergey Smolov | Artem Kotsyniyak  | 0.3            |
| 5453  | Fortress                   | Bug     | Closed   | High     | [arrays] Unexpected solver output: "(INSTQUEUE ((as const (Array Int Int) 0))"  | Sergey Smolov | Artem Kotsyniyak  | 0.3            |
| 10370 | Fortress                   | Bug     | Closed   | Normal   | class ru.ispras.fortress.solver.constraint.Formulas cannot be cast to class ru.ispras.fortress.solver.constraint.Sat4jFormula | Sergey Smolov | Sergey Smolov     | 0.4            |
| 7557  | Fortress                   | Bug     | Closed   | High     | ConstCastTestCase: java.lang.AssertionError: Calculator failed to substitute result   | Sergey Smolov | Artem Kotsyniyak  | 0.4            |
| 5401  | Fortress                   | Bug     | Closed   | Normal   | error at ru/ispras/fortress/solver/constraint/ArrayTestCase.java  | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 5425  | Fortress                   | Bug     | Closed   | High     | [expression] java.lang.IllegalArgumentException: Expression is not a condition: (BVEXTRACT D_IN 0 0)                          | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 8573  | Fortress                   | Bug     | Closed   | Normal   | missing javadoc   | Sergey Smolov | Andrei Tatarnikov | 0.4            |
| 4221  | Fortress                   | Bug     | Closed   | Normal   | performConstant: public -> private  | Sergey Smolov | Sergey Smolov     | 0.2            |
| 4813  | Fortress                   | Bug     | Closed   | High     | [solver][constraint] Невозможно создавать тривиальные ограничения   | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 4797  | Fortress                   | Bug     | Closed   | Normal   | [solver] NullPointerException when solver is not found  | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 5162  | Fortress                   | Bug     | Closed   | Normal   | [solver] ReductionCustomOperationsTestCase -> java.lang.AssertionError  | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 6352  | Fortress                   | Bug     | Closed   | High     | Transformer.standardize returns 'false' on (AND (EQ a 00) (NOT(EQ a b 00)))   | Sergey Smolov | Artem Kotsyniyak  | 0.4            |
| 7555  | Fortress                   | Bug     | Closed   | Normal   | unable to create constraint-related junit tests including unused variables  | Sergey Smolov | Artem Kotsyniyak  | 0.4            |
| 8203  | Fortress                   | Feature | Closed   | Normal   | bv2nat\int2bv operations  | Sergey Smolov | Sergey Smolov     | 0.4            |
| 9123  | Fortress                   | Feature | Closed   | High     | calculate DataType for 'BVEXTRACT(i, i, x)' NodeOperation objects   | Sergey Smolov | Sergey Smolov     | 0.4            |
| 8665  | Fortress                   | Feature | Closed   | High     | Nodes.BVEXTRACT(Node, Node, Node) convenience method  | Sergey Smolov | Andrei Tatarnikov | 0.4            |
| 8667  | Fortress                   | Feature | Closed   | Normal   | Nodes.EQ(Node ... nodes) convenience method   | Sergey Smolov | Andrei Tatarnikov | 0.4            |
| 8709  | Fortress                   | Feature | Closed   | Normal   | 'public static boolean isOperation(final Node node, final T ... opTypes)' convenience method                                  | Sergey Smolov | Andrei Tatarnikov | 0.4            |

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|-------|----------|---------|----------|----------|--|---------------|-------------------|----------------|
| 8703  | Fortress | Feature | Closed   | Normal   | 'public static boolean isType(final Node node, final DataType ... types)' convenience method | Sergey Smolov | Andrei Tatarnikov | 0.4            |
| 8702  | Fortress | Feature | Closed   | Normal   | 'public static NodeValue.newBitVector(final boolean value)' convenience method               | Sergey Smolov | Andrei Tatarnikov | 0.4            |
| 8204  | Fortress | Feature | Closed   | Normal   | solver-specific header for generated SMT2 files  | Sergey Smolov | Sergey Smolov     | 0.4            |
| 4133  | Fortress | Task    | Closed   | Normal   | ABS, MAX, MIN для Logic-типов  | Sergey Smolov | Sergey Smolov     | 0.1            |
| 5462  | Fortress | Task    | Closed   | Normal   | [arrays] arrays initialization is inconvenient   | Sergey Smolov | Artem Kotsyniyak  | 0.3            |
| 5907  | Fortress | Task    | Closed   | Normal   | boolean areOfType(DataType id, Node ... nodes)   | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 5993  | Fortress | Task    | Closed   | Normal   | boolean ExprUtils.isKind(Node.Kind kind, Node ... nodes)                                     | Sergey Smolov | Andrei Tatarnikov | 0.4            |
| 7383  | Fortress | Task    | Closed   | Normal   | boolean isOperation(final Node expr, final T... opld)  | Sergey Smolov | Andrei Tatarnikov | 0.4            |
| 5259  | Fortress | Task    | Rejected | Normal   | [build] удаление папки distr при выполнении команды ant clean                                | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 10494 | Fortress | Task    | Closed   | Normal   | check Windows build of Boolector on project tests  | Sergey Smolov | Maxim Chudnov     | 0.4            |
| 7527  | Fortress | Task    | Closed   | Normal   | constant casting while type conversion   | Sergey Smolov | Sergey Smolov     | 0.4            |
| 5563  | Fortress | Task    | Closed   | Normal   | [data] implement DataType.isLogic(Enum<?> id) method   | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 4699  | Fortress | Task    | Closed   | Normal   | [data][solver] поддержка массивов SMT-LIB  | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 4671  | Fortress | Task    | Closed   | Normal   | [data] Метод построения битовых векторов из их строкового представления                      | Sergey Smolov | Sergey Smolov     | 0.3            |
| 6831  | Fortress | Task    | Closed   | Normal   | ESEExprParser: improve error messages  | Sergey Smolov | Artem Kotsyniyak  | 0.4            |
| 5599  | Fortress | Task    | Closed   | Normal   | [expression] implement getDataType() method  | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 5316  | Fortress | Task    | Closed   | Low      | [expression] Операции теории множеств над коллекциями объектов Node                          | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 5319  | Fortress | Task    | Closed   | Low      | [expression] Реализовать метод получения коллекции NodeVariable по объекту Node              | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 5317  | Fortress | Task    | Closed   | Low      | [expression] Реализовать метод построения Constraint по Node                                 | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 4702  | Fortress | Task    | Closed   | Normal   | [expression] Реализовать операцию BVBIT  | Sergey Smolov | Alexander Kamkin  | 0.3            |
| 5313  | Fortress | Task    | Closed   | Normal   | [expression] Сделать публичным метод ExprUtils.isSAT(Node assertion)                         | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 7402  | Fortress | Task    | Closed   | Normal   | ExprUtils: ignore repeated Node objects upon conjunction/disjunction construction            | Sergey Smolov | Andrei Tatarnikov | 0.4            |
| 3914  | Fortress | Task    | Rejected | Normal   | function templates   | Sergey Smolov | Andrei Tatarnikov | 0.1            |
| 10002 | Fortress | Task    | Closed   | Normal   | get Boolector solver from server as dependency   | Sergey Smolov | Sergey Smolov     | 0.4            |
| 5478  | Fortress | Task    | Closed   | Normal   | Implement Transformer.reduce(Node expression)  | Sergey Smolov | Artem Kotsyniyak  | 0.4            |
| 7561  | Fortress | Task    | New      | Normal   | ISampleConstraint: 'getExpectedVariables' returns value that is ignored in junit tests       | Sergey Smolov | Andrei Tatarnikov | 0.4            |
| 5985  | Fortress | Task    | Closed   | High     | Node ExprUtils.getEquation(Node target, Node value)  | Sergey Smolov | Andrei Tatarnikov | 0.4            |
| 7378  | Fortress | Task    | Closed   | Low      | NodeTransformer: multiple transform rules for a single enum id                               | Sergey Smolov | Artem Kotsyniyak  | 0.4            |
| 5802  | Fortress | Task    | Closed   | High     | NodeValue newZero(DataType dataType)   | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 7397  | Fortress | Task    | Closed   | Normal   | NodeVariable.new<type-of-variable>(final String name)  | Sergey Smolov | Andrei Tatarnikov | 0.4            |
| 5399  | Fortress | Task    | Closed   | Normal   | silent & debug mode  | Sergey Smolov | Andrei Tatarnikov | 0.3            |
| 4713  | Fortress | Task    | New      | High     | SMT-LIB structures   | Sergey Smolov | Artem Kotsyniyak  | 0.4            |

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| 10001 | Fortress       | Task    | Rejected | Normal   | SMT-LIBv2 benchmarks  | Sergey Smolov |                     |                |
| 5464  | Fortress       | Task    | Closed   | High     | [solver] boolean expressions casting into bit vectors   | Sergey Smolov | Andrei Tatarnikov   | 0.3            |
| 4673  | Fortress       | Task    | Closed   | Normal   | [solver][constraint] Ограничения без имен   | Sergey Smolov | Sergey Smolov       | 0.3            |
| 4802  | Fortress       | Task    | Closed   | Normal   | [solver][constraint] создание Constraint без указания variables   | Sergey Smolov | Andrei Tatarnikov   | 0.3            |
| 5318  | Fortress       | Task    | Closed   | Low      | [solver][expression] Реализовать метод разрешения ограничений SolverResult solve(Constraint constraint) | Sergey Smolov | Andrei Tatarnikov   | 0.3            |
| 5466  | Fortress       | Task    | Closed   | High     | [solver] print the input constraint when solver returns ERROR/UNKNOWN verdict                           | Sergey Smolov | Andrei Tatarnikov   | 0.3            |
| 6364  | Fortress       | Task    | Rejected | Low      | SolverResult: implement equals\hashCode methods   | Sergey Smolov | Andrei Tatarnikov   | 0.4            |
| 4554  | Fortress       | Task    | Closed   | Normal   | [solver][xml] Метод преобразования ограничения в XML-based String                                       | Sergey Smolov | Andrei Tatarnikov   | 0.3            |
| 5861  | Fortress       | Task    | Closed   | Low      | static boolean containsSingleObject(Collection<?> collection)   | Sergey Smolov | Andrei Tatarnikov   | 0.3            |
| 5433  | Fortress       | Task    | Closed   | Normal   | [test] write executable SMT-LIB code at testcase comments   | Sergey Smolov | Artem Kotsyniyak    | 0.3            |
| 6423  | Fortress       | Task    | Rejected | Low      | to_real, to_int, is_int operations  | Sergey Smolov | Andrei Tatarnikov   | 0.4            |
| 7846  | Fortress       | Task    | Rejected | Normal   | 'Transformer.reduce(Transformer.substitute(expression, name, term))' convenience method                 | Sergey Smolov |                     | 0.4            |
| 5600  | Fortress       | Task    | Closed   | High     | [transformer][ruleset] implement ITE rules  | Sergey Smolov | Artem Kotsyniyak    | 0.3            |
| 5424  | Fortress       | Task    | Closed   | High     | [transformer][ruleset] дополнительные правила стандартизации  | Sergey Smolov | Artem Kotsyniyak    | 0.3            |
| 5419  | Fortress       | Task    | Closed   | High     | [transformer][ruleset] реализовать правило expr==false -> NOT(expr == true)                             | Sergey Smolov | Artem Kotsyniyak    | 0.3            |
| 5447  | Fortress       | Task    | Closed   | High     | [transformer][ruleset] стандартизация константных выражений вида "x EQ y"                               | Sergey Smolov | Artem Kotsyniyak    | 0.3            |
| 5229  | Fortress       | Task    | Closed   | High     | [transformer] Упрощение выражений с LOGIC_BOOLEAN   | Sergey Smolov | Artem Kotsyniyak    | 0.3            |
| 7772  | Fortress       | Task    | Closed   | High     | TypeConversion.coerce: transform from MAP to BIT_VECTOR   | Sergey Smolov | Sergey Smolov       | 0.4            |
| 10492 | Fortress       | Task    | Closed   | Normal   | use CVC4 1.8 in testing   | Sergey Smolov | Sergey Smolov       | 0.4            |
| 5465  | Fortress       | Task    | Closed   | Normal   | [z3][solver] solver errors elaboration scheme   | Sergey Smolov | Andrei Tatarnikov   | 0.3            |
| 4175  | Fortress       | Task    | Closed   | Normal   | Добавить параметризованные операции   | Sergey Smolov | Sergey Smolov       | 0.1            |
| 3721  | Fortress       | Task    | Closed   | Normal   | Дополнительные операции   | Sergey Smolov | Sergey Smolov       |                |
| 3895  | Fortress       | Task    | Closed   | Normal   | Дополнительные операции Verilog   | Sergey Smolov | Sergey Smolov       |                |
| 3708  | Fortress       | Task    | Closed   | Normal   | Методы makeNegation, makeConjunction, makeDisjunction класса Constraint                                 | Sergey Smolov | Sergey Smolov       |                |
| 3694  | Fortress       | Task    | Closed   | Normal   | Операции сравнения битовых векторов   | Sergey Smolov | Andrei Tatarnikov   |                |
| 3734  | Fortress       | Task    | Closed   | Normal   | Операции сравнения для LOGIC-типов  | Sergey Smolov | Sergey Smolov       |                |
| 3973  | Fortress       | Task    | Closed   | Normal   | Реализовать добавление Variable в Constraint  | Sergey Smolov | Sergey Smolov       | 0.1            |
| 5576  | Fortress       | Task    | Closed   | Normal   | Calculate data type of expression with BVCONCAT   | Sergey Smolov | Andrei Tatarnikov   | 0.3            |
| 11042 | Java SoftFloat | Bug     | New      | Normal   | Javadoc warnings  | Sergey Smolov | Alexander Protsenko | 2.0            |
| 5385  | Java SoftFloat | Bug     | Closed   | Normal   | Странная структура директорий проекта   | Sergey Smolov | Alexander Kamkin    |                |

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| 3528  | Local Support Project | Bug               | Closed   | Normal   | Не отображается полный адрес svn-репозитория   | Sergey Smolov | Alexey Demakov      |                |
| 5836  | Local Support Project | Bug               | Resolved | High     | не собирается проект на сервере Jenkins  | Sergey Smolov | Sergey Smolov       |                |
| 3565  | Local Support Project | Bug               | Closed   | Normal   | Перестали приходить уведомления на почту об изменениях в проектах  | Sergey Smolov | Alexey Demakov      |                |
| 6394  | Local Support Project | Bug               | New      | Normal   | Проект HDL Retrascope: на 17-дюймовом мониторе не масштабируется таблица Задачи  | Sergey Smolov | Alexey Demakov      |                |
| 10069 | MicroTESK             | Bug               | New      | Normal   | cpu.nml Error: Internal error: context [/Isa] 1:8 attribute file isn't defined   | Sergey Smolov | Alexander Kamkin    | 2.6            |
| 6241  | MicroTESK             | Bug               | Closed   | Normal   | Generated assembler files contain tab-only lines   | Sergey Smolov | Andrei Tatarnikov   | 2.2            |
| 10102 | MicroTESK             | Bug               | Closed   | High     | incorrect ld scripts for x86 test programs   | Sergey Smolov | Alexander Kamkin    | 2.5            |
| 5966  | MicroTESK             | Bug               | Closed   | Normal   | mark shell scripts as executable in the distribution tar.gz archive  | Sergey Smolov | Sergey Smolov       | 2.5            |
| 9063  | MicroTESK             | Bug               | Closed   | Normal   | microtesk/src/main/java/core/ru/ispras/microtesk/utills/PropertyMap.java uses unchecked or unsafe operations                   | Sergey Smolov | Alexander Kamkin    | 2.5            |
| 4464  | MicroTESK             | Bug               | Closed   | Normal   | [project] ошибки сборки проекта в Eclipse  | Sergey Smolov | Andrei Tatarnikov   |                |
| 9436  | MicroTESK             | Bug               | Closed   | Normal   | ru.ispras.microtesk.mmu.translator.GeneralTestCase: java.lang.IllegalArgumentException   | Sergey Smolov | Alexander Kamkin    | 2.5            |
| 9437  | MicroTESK             | Bug               | Closed   | Normal   | ru.ispras.microtesk.model.minimips.BufferPreparatorTestCase: QEMU4V crashes with general protection error on this test program | Sergey Smolov | Sergey Smolov       | 2.4            |
| 10094 | MicroTESK             | Bug               | Closed   | Normal   | strange common code at LinkerScript.stg  | Sergey Smolov | Alexander Kamkin    | 2.5            |
| 7730  | MicroTESK             | Bug               | Closed   | High     | [tarmac-logger] missing "<cpu>" tag  | Sergey Smolov | Andrei Tatarnikov   | 2.4            |
| 10121 | MicroTESK             | Bug               | Open     | Normal   | technical output printing at 'compile.sh' script running with '--help' option  | Sergey Smolov | Alexander Kamkin    | 2.6            |
| 6106  | MicroTESK             | Bug               | Closed   | Normal   | zero opcodes for instructions in Tarmac log  | Sergey Smolov | Andrei Tatarnikov   | 2.2            |
| 8587  | MicroTESK             | Feature           | New      | Normal   | ISA subsets  | Sergey Smolov | Artem Kotsyniyak    | 2.6            |
| 10074 | MicroTESK             | Feature           | New      | Normal   | option that stores boot obj at the generated ld script   | Sergey Smolov | Alexander Kamkin    | 2.6            |
| 6108  | MicroTESK             | Task              | Closed   | Normal   | create environment variable(s) for SMT solver(s)   | Sergey Smolov | Andrei Tatarnikov   | 2.2            |
| 10304 | MicroTESK             | Task              | New      | Normal   | deprecation warnings via compilation   | Sergey Smolov | Alexander Kamkin    | 2.6            |
| 7564  | MicroTESK             | Task              | Closed   | Normal   | "How to build MicroTESK" guide for developers in project Wiki  | Sergey Smolov | Alexander Kamkin    | 2.5            |
| 5967  | MicroTESK             | Task              | Closed   | Low      | one directory for all components of distribution   | Sergey Smolov | Andrei Tatarnikov   | 2.2            |
| 9217  | MicroTESK             | Task              | Closed   | Normal   | Use 'ru.ispras.castle.codegen' package classes from Castle   | Sergey Smolov |                     |                |
| 9377  | MicroTESK for MIPS    | Bug               | New      | Normal   | 'Failed to construct decoder' warnings in project's build log  | Sergey Smolov | Alexander Kamkin    |                |
| 9376  | MicroTESK for MIPS    | Bug               | New      | Normal   | Warning: Group MIPS64FpuOp contains two items add_fmt and mfc1 with the same opcode 01000100000000000000000000000000           | Sergey Smolov | Alexander Kamkin    |                |
| 12038 | MicroTESK for Plasma  | Developer Request | Resolved | Normal   | обновление плагина PMD в Gradle  | Sergey Smolov | Alexander Protsenko |                |

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| 9889  | MicroTESK for Plasma  | Task    | Resolved | Normal    | rm deprecated 'findbugs' plugin from Gradle build script  | Sergey Smolov |                     |                |
| 12249 | MicroTESK for PowerPC | Bug     | New      | Normal    | qemu-system-ppc: failed to find romfile "efi-virtio.rom"  | Sergey Smolov | Sergey Smolov       |                |
| 9374  | MicroTESK for PowerPC | Bug     | Closed   | Normal    | ru.ispras.microtesk.model.powerpc.autogen.BoundaryTestCase: Simulation failedThe CPR storage is not defined in the model.ru.ispras.microtesk.model.ConfigurationException: The CPR storage is not defined in the model.                       | Sergey Smolov | Alexander Protsenko |                |
| 9375  | MicroTESK for PowerPC | Bug     | Closed   | Normal    | ru.ispras.microtesk.model.powerpc.autogen.GroupTestCase: org.jruby.exceptions.RaiseException: (NoMethodError) undefined method `la' for #<GroupGenTemplate:0x6046f0da>  | Sergey Smolov | Alexander Protsenko |                |
| 9386  | MicroTESK for PowerPC | Bug     | Closed   | High      | ru.ispras.microtesk.model.powerpc.InstructionALUTestCase: Assembler messages: ../microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:1: Error: junk at end of line, first unrecognized character is `/'                       | Sergey Smolov | Sergey Smolov       |                |
| 9387  | MicroTESK for PowerPC | Bug     | Closed   | Normal    | ru.ispras.microtesk.model.powerpc.InstructionBPUTestCase: ../microtesk-powerpc/build/test/instruction_bpu/instruction_bpu_0000.s:47: Error: operand out of range (0x0000000000002774 is not between 0x0000000000000000 and 0x0000000000000001 | Sergey Smolov | Alexander Protsenko |                |
| 10819 | MicroTESK for PowerPC | Bug     | New      | Normal    | Trace Matcher crashes on QEMU4V empty trace   | Sergey Smolov | Sergey Smolov       |                |
| 10031 | MicroTESK for PowerPC | Bug     | New      | Normal    | WARNING: An illegal reflective access operation has occurred  | Sergey Smolov | Alexander Protsenko | 0.0            |
| 9892  | MicroTESK for RISC-V  | Bug     | Closed   | Normal    | WARNING: An illegal reflective access operation has occurred  | Sergey Smolov | Alexander Protsenko | 0.1            |
| 9971  | MicroTESK for RISC-V  | Task    | Closed   | Normal    | print Spike trace to separate log file for every JUnit test case  | Sergey Smolov | Sergey Smolov       | 0.1            |
| 9365  | QEMU4V                | Bug     | Closed   | Normal    | missing insn binary images in MIPS trace  | Sergey Smolov | Sergey Smolov       | 0.2            |
| 12607 | QEMU4V                | Bug     | New      | Normal    | missing log problem   | Sergey Smolov | Sergey Smolov       |                |
| 9288  | QEMU4V                | Bug     | Closed   | Immediate | /target/mips/translate.c:2617:9: error: 'else' without a previous 'if'  | Sergey Smolov | Maxim Chudnov       | 0.2            |
| 9334  | QEMU4V                | Bug     | Closed   | Normal    | timestamp reset at MIPS trace   | Sergey Smolov | Sergey Smolov       | 0.2            |
| 9333  | QEMU4V                | Bug     | Closed   | Normal    | unexpected hex value in MIPS trace  | Sergey Smolov | Sergey Smolov       | 0.2            |
| 10041 | QEMU4V                | Bug     | Closed   | Normal    | wrong names for PowerPC registers in trace  | Sergey Smolov | Sergey Smolov       | 0.3            |
| 9050  | QEMU4V                | Feature | Closed   | Normal    | basic support for i386 emulation  | Sergey Smolov | Sergey Smolov       |                |
| 9079  | QEMU4V                | Feature | Closed   | Normal    | basic support for MIPS32  | Sergey Smolov | Sergey Smolov       | 0.2            |
| 9049  | QEMU4V                | Feature | Closed   | Normal    | basic support for MIPS64 emulation  | Sergey Smolov | Sergey Smolov       | 0.2            |
| 9051  | QEMU4V                | Feature | Closed   | Normal    | basic support for PowerPC emulation   | Sergey Smolov | Sergey Smolov       | 0.3            |
| 8868  | QEMU4V                | Feature | Closed   | Normal    | implement tracer that is activated by "-trace-log" command line option  | Sergey Smolov | Sergey Smolov       |                |
| 8871  | QEMU4V                | Feature | Closed   | Normal    | "-print-pte-addr" cmdline option  | Sergey Smolov | Sergey Smolov       |                |

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| 10088 | QEMU4V     | Feature | New      | Low      | QEMU4V formatted traces for x86 programs   | Sergey Smolov |                  |                |
| 8869  | QEMU4V     | Feature | Closed   | Normal   | trace generation for Aarch64 programs  | Sergey Smolov | Sergey Smolov    |                |
| 8866  | QEMU4V     | Feature | Closed   | Normal   | trace generation for MIPS programs   | Sergey Smolov | Maxim Chudnov    | 0.2            |
| 8867  | QEMU4V     | Feature | Closed   | Normal   | trace generation for PowerPC (32bit) programs  | Sergey Smolov | Maxim Chudnov    | 0.3            |
| 8870  | QEMU4V     | Feature | Closed   | Normal   | trace generation for RISC-V programs   | Sergey Smolov | Sergey Smolov    |                |
| 9986  | QEMU4V     | Task    | New      | Normal   | check if QEMU4V features can be implemented as TCG plugin                            | Sergey Smolov | Sergey Smolov    | 0.3            |
| 9917  | QEMU4V     | Task    | Closed   | Normal   | check QEMU4V-specific code on compliance with coding style                           | Sergey Smolov | Sergey Smolov    | 0.3            |
| 9269  | QEMU4V     | Task    | Closed   | Normal   | migrate to QEMU 3.0.0  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 9415  | QEMU4V     | Task    | Closed   | Normal   | migrate to QEMU 3.1.0  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 9862  | QEMU4V     | Task    | Closed   | Normal   | migrate to QEMU 4.1.0  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 9909  | QEMU4V     | Task    | Closed   | Normal   | migrate to QEMU 4.2.0  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 10258 | QEMU4V     | Task    | Closed   | Normal   | migrate to QEMU 5.0  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 10474 | QEMU4V     | Task    | Resolved | Normal   | migrate to QEMU 5.1.0  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 10611 | QEMU4V     | Task    | Resolved | Normal   | migrate to QEMU 5.2.0  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 10836 | QEMU4V     | Task    | Resolved | Normal   | migrate to QEMU 6.0.0  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 10888 | QEMU4V     | Task    | Resolved | Normal   | migrate to QEMU 6.1.0  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 11017 | QEMU4V     | Task    | Resolved | Normal   | migrate to QEMU 6.2.0  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 11516 | QEMU4V     | Task    | Resolved | Normal   | migrate to QEMU 7.0.0  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 11811 | QEMU4V     | Task    | Resolved | Normal   | migrate to QEMU 7.1.0  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 12058 | QEMU4V     | Task    | Resolved | Normal   | migrate to QEMU 7.2.0  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 12282 | QEMU4V     | Task    | New      | Normal   | migrate to QEMU 8.0.0  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 8167  | QEMU4V     | Task    | New      | Low      | Program flow tracing   | Sergey Smolov |                  |                |
| 9363  | QEMU4V     | Task    | Closed   | Normal   | remove 'set_q4v_tstamp' function calls from RISC-V/MIPS/Aarch64 'cpu_loop.c' modules | Sergey Smolov | Sergey Smolov    | 0.2            |
| 9863  | QEMU4V     | Task    | Closed   | Normal   | use Gradle 4.10.3  | Sergey Smolov | Sergey Smolov    | 0.3            |
| 9373  | QEMU4V     | Task    | Closed   | Normal   | write a PowerPC-related chapter to "Getting Started"                                 | Sergey Smolov | Maxim Chudnov    | 0.3            |
| 8285  | Retrascope | Bug     | Closed   | Normal   | 0% coverage of EFSM transitions for b01 example                                      | Sergey Smolov | Sergey Smolov    | 0.2            |
| 7097  | Retrascope | Bug     | Closed   | Normal   | 32-bit constants should be casted to appropriate values                              | Sergey Smolov | Sergey Smolov    | 0.2            |
| 6413  | Retrascope | Bug     | Closed   | Normal   | b03.vhd: different EFSM extraction stats   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6424  | Retrascope | Bug     | Closed   | Normal   | b05.vhd: line 64: at token "d32_-10": syntax error                                   | Sergey Smolov | Mikhail Lebedev  | 0.1            |
| 6425  | Retrascope | Bug     | Closed   | Normal   | b12.vhd: XmvExprPrinter.getConstant(XmvExprPrinter.java:330) -> NullPointerException | Sergey Smolov | Mikhail Lebedev  | 0.1            |
| 6430  | Retrascope | Bug     | Closed   | Normal   | b14.vhd: StackOverflowError  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 5096  | Retrascope | Bug     | Closed   | Normal   | [basis] FileCreator: "Can't create file" error                                       | Sergey Smolov | Alexander Kamkin | 0.1            |

| #    | Project    | Tracker | Status   | Priority | Subject  | Author        | Assignee            | Target version |
|------|------------|---------|----------|----------|--|---------------|---------------------|----------------|
| 6353 | Retrascope | Bug     | Closed   | Normal   | Case children of one Switch node can have equal NodeValue  | Sergey Smolov | Sergey Smolov       | 0.1            |
| 4926 | Retrascope | Bug     | Closed   | Normal   | [cfg][model] Путаница с наследниками CfgNode   | Sergey Smolov | Sergey Smolov       | 0.1            |
| 5256 | Retrascope | Bug     | Closed   | Normal   | [cfg][printer][graphml] Не отображать вершины типа Case  | Sergey Smolov | Sergey Smolov       | 0.1            |
| 5126 | Retrascope | Bug     | Closed   | Normal   | [cfg][printer][graphml] Узлы BasicBlock и Merge имеют одинаковый цвет и форму  | Sergey Smolov | Alexander Protsenko | 0.1            |
| 5509 | Retrascope | Bug     | Closed   | Normal   | [cfg][printer][smv] javadoc warnings   | Sergey Smolov | Mikhail Lebedev     | 0.1            |
| 5508 | Retrascope | Bug     | Closed   | Normal   | [cfg][printer][smv] java.io.IOException  | Sergey Smolov | Mikhail Lebedev     | 0.1            |
| 8237 | Retrascope | Bug     | Closed   | Normal   | CFG random test generator works too slow on b19  | Sergey Smolov | Sergey Smolov       | 0.2            |
| 4928 | Retrascope | Bug     | Rejected | Normal   | [cfg] Range может состоять из нескольких участков  | Sergey Smolov | Sergey Smolov       | 0.1            |
| 8245 | Retrascope | Bug     | Closed   | Normal   | cfg-rnd-testgen: IllegalArgumentException at minimips/pps_pf.v   | Sergey Smolov | Sergey Smolov       | 0.2            |
| 7166 | Retrascope | Bug     | Closed   | Normal   | cfg-rnd-testgen: OutOfMemoryError at b10 (1.000.000 ticks)   | Sergey Smolov | Sergey Smolov       | 0.2            |
| 7145 | Retrascope | Bug     | Closed   | Normal   | cfg-rnd-testgen: take variable invariants into account   | Sergey Smolov | Sergey Smolov       | 0.2            |
| 8991 | Retrascope | Bug     | Closed   | Normal   | CfgSwitchSequenceBackend: do not collapse "if" statements with incompatible conditions                                 | Sergey Smolov | Sergey Smolov       | 1.0            |
| 4836 | Retrascope | Bug     | Closed   | Normal   | [cfg][transformer][cgaa] java heap space error at control.vhd\mlite2sram.vhd   | Sergey Smolov | Sergey Smolov       | 0.1            |
| 4357 | Retrascope | Bug     | Closed   | Normal   | [cfg][transformer][cgaa] Внести исправления в методы извлечения clock-like variables                                   | Sergey Smolov | Sergey Smolov       | 0.1            |
| 8244 | Retrascope | Bug     | Closed   | Normal   | CGAA-to-EFSM engine falls on b05 test  | Sergey Smolov | Sergey Smolov       | 0.2            |
| 9463 | Retrascope | Bug     | Closed   | Normal   | check if junit test cases for CfgCgaaTransformer return same results on different machines/platforms                   | Sergey Smolov | Sergey Smolov       | 1.0            |
| 5684 | Retrascope | Bug     | Rejected | Low      | computeExpression -> LOGIC_BOOLEAN vs (MAP LOGIC_INTEGER LOGIC_BOOLEAN)  | Sergey Smolov | Igor Melnichenko    | 0.2            |
| 6263 | Retrascope | Bug     | Closed   | High     | Crash when test generation engine elaborates EFSMs from alu.vhd: java.lang.IllegalArgumentException                    | Sergey Smolov | Sergey Smolov       | 0.2            |
| 3622 | Retrascope | Bug     | Closed   | Normal   | DFGElementaryCyclesTest & DFGClusterStatisticsTest - java.lang.OutOfMemoryError: Java heap space                       | Sergey Smolov | Sergey Smolov       |                |
| 5499 | Retrascope | Bug     | Closed   | Normal   | [efsm][extractor][conflict] move & rename EfsmConflicts class  | Sergey Smolov | Mikhail Lebedev     | 0.1            |
| 5538 | Retrascope | Bug     | Closed   | Normal   | [efsm][generator][test] EfsmFateTestGeneratorVhdlTestCase -> java.lang.RuntimeException: Unexpected simulation result. | Sergey Smolov | Igor Melnichenko    | 0.1            |
| 5263 | Retrascope | Bug     | Rejected | High     | [efsm][generator][test] EfsmTestGeneratorTestCase -> java.lang.OutOfMemoryError: Java heap space                       | Sergey Smolov | Igor Melnichenko    | 0.1            |
| 5536 | Retrascope | Bug     | Closed   | Normal   | [efsm][generator][test] EfsmTestGeneratorVhdlTestCase -> java.lang.RuntimeException: Unexpected simulation result      | Sergey Smolov | Igor Melnichenko    | 0.1            |
| 5680 | Retrascope | Bug     | Closed   | Urgent   | [efsm][generator][test][fate] DirectedFateGenerator.generateSequence -> NullPointerException                           | Sergey Smolov | Igor Melnichenko    | 0.1            |
| 5608 | Retrascope | Bug     | Closed   | High     | [efsm][generator][test][fate] FATE generator hangs at b03 description from ITC'99                                      | Sergey Smolov | Igor Melnichenko    | 0.1            |
| 5510 | Retrascope | Bug     | Closed   | High     | [efsm][generator][test] RandomFateSequenceIterator compilation error   | Sergey Smolov | Igor Melnichenko    | 0.1            |

| #     | Project    | Tracker | Status   | Priority | Subject   | Author        | Assignee         | Target version |
|-------|------------|---------|----------|----------|---|---------------|------------------|----------------|
| 5572  | Retrascope | Bug     | Closed   | Normal   | [efsm][simulator] b10: Failed to resolve the assignment constraint  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5648  | Retrascope | Bug     | Rejected | High     | EfsmSimulator.executeAssignment -> Unsupported data type of ranged variable: (MAP LOGIC_INTEGER LOGIC_INTEGER)  | Sergey Smolov | Igor Melnichenko | 0.2            |
| 5004  | Retrascope | Bug     | Rejected | Normal   | [efsm][simulator][execution] ReferenceEfsmTestGeneratorTest.java : java.lang.RuntimeException: An error occured while trying to resolve a constraint. | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5103  | Retrascope | Bug     | Closed   | Normal   | [efsm][simulator][execution] ReferenceEfsmTestGeneratorTest -> NullPointerException   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5831  | Retrascope | Bug     | Closed   | Normal   | EfsmSimulator.java -> Tag @see: can't find getResetGuardedAction() in ru.ispras.retrascope.model.efsm.Efsm  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5736  | Retrascope | Bug     | Closed   | Normal   | EfsmSimulator.substituteVariables(EfsmSimulator.java:736) -> NullPointerException   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 10236 | Retrascope | Bug     | Rejected | Normal   | efsm-test-generator hangs at opencores/mips16/data_mem.v  | Sergey Smolov | Sergey Smolov    | 1.1            |
| 5719  | Retrascope | Bug     | Closed   | Urgent   | EFSM Test Generator hangs on b11  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5715  | Retrascope | Bug     | Closed   | High     | EfsmTestGenerator.java:138: error: method put in interface Map<K,V> cannot be applied to given types -> traversedPaths.put(efsm, new HashSet<>());    | Sergey Smolov | Igor Melnichenko | 0.1            |
| 6281  | Retrascope | Bug     | Closed   | Normal   | EfsmTestGeneratorVhdlTestCase: Efsm.UNINITIALISED_STATE isn't supported yet   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5248  | Retrascope | Bug     | Closed   | Normal   | [efsm][testgen]FateTestCase -> java.lang.NumberFormatException: For input string: "-2975976114"   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5171  | Retrascope | Bug     | Closed   | Normal   | [efsm][testgen][test] ru.ispras.retrascope.util.XmlUtilTestCase -> NullPointerException   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 10085 | Retrascope | Bug     | Closed   | Normal   | EfsmTransitionPropertyExtractorTestCase: There is no declaration of variable neither in this EFSM nor in its ancestors: process_0.D                   | Sergey Smolov | Sergey Smolov    | 1.1            |
| 8681  | Retrascope | Bug     | Closed   | Normal   | EngineRegistry fails to create toolchain when HashSet\HashMap are used  | Sergey Smolov | Alexander Kamkin | 1.0            |
| 5502  | Retrascope | Bug     | Closed   | Normal   | [engine][testbench] 'engine' subpackages must not contain entities  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5528  | Retrascope | Bug     | Closed   | High     | [engine][testbench] java.nio.file.FileAlreadyExistsException: decider_parser.vhd  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5500  | Retrascope | Bug     | Closed   | Normal   | [engine][testbench] possible bug in TestVhdlTestbenchPrinter engine id  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5414  | Retrascope | Bug     | Closed   | Normal   | [engine][xml]/[util]: TransducedAccessor.get -> NullPointerException  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5524  | Retrascope | Bug     | Closed   | High     | [engine][xml] wrong package for TestXmlPrinter  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5525  | Retrascope | Bug     | Closed   | High     | [engine][xml] wrong package for TestXmlPrinterTestCase  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 7753  | Retrascope | Bug     | Closed   | Normal   | example.vhd: cannot generate SMV-based test   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 6426  | Retrascope | Bug     | Closed   | Normal   | example.vhd: HlDdXmvVisitor.onProcessEnd(HlDdXmvVisitor.java:381) -> NullPointerException   | Sergey Smolov | Mikhail Lebedev  | 0.1            |
| 5692  | Retrascope | Bug     | Rejected | Normal   | FATE/FATE+ hangs on b03 with Java 1.8   | Sergey Smolov | Igor Melnichenko |                |
| 6504  | Retrascope | Bug     | Closed   | Normal   | fifo/fifo.v: nuSMV model checker returns ERROR  | Sergey Smolov | Mikhail Lebedev  | 0.1            |
| 7883  | Retrascope | Bug     | Closed   | Normal   | fifo_testbench.v: java.lang.NullPointerException  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 6335  | Retrascope | Bug     | Closed   | Normal   | fifo.v: non-constant number of extracted EFSMs' transitions   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 8912  | Retrascope | Bug     | Closed   | Normal   | file ram.smv: line 332: variable is assigned more than once: m_ram.mem0   | Sergey Smolov | Sergey Smolov    | 1.0            |
| 6730  | Retrascope | Bug     | Closed   | Normal   | fix javadoc   | Sergey Smolov | Mikhail Lebedev  | 0.1            |



| #     | Project    | Tracker | Status   | Priority | Subject   | Author        | Assignee         | Target version |
|-------|------------|---------|----------|----------|---|---------------|------------------|----------------|
| 6510  | Retrascope | Bug     | Closed   | Normal   | fix javadoc   | Sergey Smolov | Mikhail Lebedev  | 0.1            |
| 8289  | Retrascope | Bug     | Closed   | Normal   | ITC99 b02: no resetting transition has been found   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 5540  | Retrascope | Bug     | Closed   | Normal   | [javadoc] E fsm Simulator.java:119: warning - @param argument "efsm" is not a parameter name.   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5505  | Retrascope | Bug     | Closed   | Normal   | [javadoc] warnings while ConflictModel processing   | Sergey Smolov | Mikhail Lebedev  | 0.1            |
| 5506  | Retrascope | Bug     | Closed   | Normal   | [javadoc] warning while E fsm AtomicFateTestGenerator processing  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5457  | Retrascope | Bug     | Closed   | Normal   | [javadoc] Поправить комментарий в классе engine.efsm.testgen.ulisse.PercolationCoefficient  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 10191 | Retrascope | Bug     | Closed   | Normal   | java.lang.IllegalArgumentException: Specified target vertex 0 is not part of graph  | Sergey Smolov | Sergey Smolov    | 1.1            |
| 9075  | Retrascope | Bug     | Closed   | Normal   | java.lang.IllegalArgumentException: testNum 0 != 1 topModuleNum   | Sergey Smolov | Sergey Smolov    | 1.0            |
| 10075 | Retrascope | Bug     | Closed   | Normal   | ython.jar: WARNING: An illegal reflective access operation has occurred at JDK 11   | Sergey Smolov | Sergey Smolov    | 1.1            |
| 7593  | Retrascope | Bug     | Closed   | Normal   | mips16\data_mem.v: java.lang.IllegalArgumentException   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 7720  | Retrascope | Bug     | Closed   | Normal   | mips16\data_mem.v: The expression to be computed (ram) contains unevaluated variables: [ram]  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 7576  | Retrascope | Bug     | Closed   | Normal   | mips16/hazard_detection_unit.v: java.lang.IllegalArgumentException: Constraint contains errors  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 9485  | Retrascope | Bug     | Closed   | Normal   | missing javadoc   | Sergey Smolov | Mikhail Lebedev  | 1.0            |
| 6375  | Retrascope | Bug     | Closed   | Normal   | missing javadoc   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5873  | Retrascope | Bug     | Closed   | High     | missing transitions in b04 EFSM   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 7594  | Retrascope | Bug     | Rejected | Normal   | ModelSim shows error when TST file contains multiple comments   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 10174 | Retrascope | Bug     | Closed   | High     | nondeterminism at EFSM transitions generation   | Sergey Smolov | Sergey Smolov    | 1.1            |
| 9521  | Retrascope | Bug     | Closed   | High     | NuSMV works too slow on ITC'99 b11 design   | Sergey Smolov | Mikhail Lebedev  | 1.0            |
| 6443  | Retrascope | Bug     | Closed   | Normal   | print error message when "--toplevel" value is wrong  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 7423  | Retrascope | Bug     | Rejected | High     | rnd_fsm.vhd: empty tst file   | Sergey Smolov | Igor Melnichenko | 0.2            |
| 3980  | Retrascope | Bug     | Closed   | Normal   | ru.ispras.retrascope.cfg.lib.examples.FIFOExample.java compilation error  | Sergey Smolov | Sergey Smolov    |                |
| 10266 | Retrascope | Bug     | Closed   | Normal   | ru.ispras.retrascope.engine.hidd.printer.smv.HiddSmvPrinterTestCase.runTest: java.lang.NullPointerException                               | Sergey Smolov | Mikhail Lebedev  | 1.1            |
| 10289 | Retrascope | Bug     | Closed   | Normal   | ru.ispras.retrascope.engine.hidd.printer.smv.property.HiddPropertySmvPrinterTestCase.runTest: java.lang.OutOfMemoryError: Java heap space | Sergey Smolov | Mikhail Lebedev  | 1.1            |
| 9066  | Retrascope | Bug     | Closed   | Normal   | ru.ispras.retrascope.engine.hidd.printer.smv.Texas97HiddSmvPrinterTestCase.runTest: java.lang.NullPointerException                        | Sergey Smolov | Sergey Smolov    | 1.0            |
| 9562  | Retrascope | Bug     | Closed   | Normal   | ru.ispras.retrascope.engine.hidd.printer.smv.usedef.MemStageUseDefSmvPrinterTestCase: model checker crashes without errors in *.smvlog    | Sergey Smolov | Mikhail Lebedev  | 1.0            |
| 5778  | Retrascope | Bug     | Closed   | Normal   | ru.ispras.retrascope.engine.testbench.TestVhdlTestbenchPrinterTestCase -> java.util.NoSuchElementException                                | Sergey Smolov | Igor Melnichenko | 0.1            |

| #     | Project    | Tracker | Status   | Priority | Subject   | Author        | Assignee         | Target version |
|-------|------------|---------|----------|----------|---|---------------|------------------|----------------|
| 10023 | Retrascope | Bug     | Closed   | High     | ru.ispras.retrascope.parser.verilog.VerilogParserTestCase: java.lang.Exception: Method runTest should have no parameters                          | Sergey Smolov | Maxim Chudnov    | 1.1            |
| 5871  | Retrascope | Bug     | Closed   | Normal   | ru.ispras.retrascope.test.printer.testbench -><br>ru.ispras.retrascope.engine.test.printer.testbench  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 6362  | Retrascope | Bug     | Rejected | Normal   | src/test/verilog/adder/adder4_testbench.v: wrong CFG model  | Sergey Smolov | Mikhail Chupilko | 0.1            |
| 6365  | Retrascope | Bug     | Closed   | Normal   | src/test/vhdl/example/example.vhd: IllegalArgumentException   | Sergey Smolov | Mikhail Lebedev  | 0.1            |
| 6366  | Retrascope | Bug     | Rejected | Normal   | src/test/vhdl/example/test.vhd: E fsm.UNINITIALISED_STATE isn't supported yet   | Sergey Smolov | Igor Melnichenko | 0.2            |
| 6892  | Retrascope | Bug     | Closed   | Normal   | support for non-zero starting bitvectors  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 5443  | Retrascope | Bug     | Closed   | Normal   | [test][engine][media] TestVhdlTestbenchPrinterTestCase -> java.lang.RuntimeException: The exception has occurred while printing test pattern file | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5709  | Retrascope | Bug     | Closed   | Normal   | TestMinimiser.java:43: warning - @param argument "test" is not a parameter name.  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5827  | Retrascope | Bug     | Closed   | Normal   | TestVhdlTestbenchPrinterDummyTestCase -> NoSuchFileException  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5828  | Retrascope | Bug     | Closed   | Normal   | TestVhdlTestbenchPrinterVhdlTestCase -> IllegalArgumentException: Unexpected event value: true  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 6280  | Retrascope | Bug     | Closed   | Normal   | TestVhdlTestbenchPrinterVhdlTestCase: The exception has occurred while printing test pattern file   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 6279  | Retrascope | Bug     | Closed   | Normal   | TestXmlPrinterTestCase: IllegalArgumentException: Output file name isn't specified  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 10081 | Retrascope | Bug     | Closed   | High     | tool hangs right after final "Duration: " msg   | Sergey Smolov | Sergey Smolov    | 1.1            |
| 5003  | Retrascope | Bug     | Rejected | Normal   | [util] XmlUtilTest.java: java.lang.RuntimeException: An error occured while trying to resolve a constraint.                                       | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5005  | Retrascope | Bug     | Closed   | Normal   | [util] XmlUtilTest: java.lang.AssertionError  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5404  | Retrascope | Bug     | Closed   | Normal   | [verilog][parser][cfg] java.lang.IllegalArgumentException: Unsupported data type: UNKNOWN   | Sergey Smolov | Alexander Kamkin | 0.1            |
| 3605  | Retrascope | Bug     | Rejected | Normal   | [vhdl][parser][cfg] Zamia не обрабатывает пакеты функций  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 10082 | Retrascope | Bug     | New      | Normal   | WARNING: Illegal reflective access by org.python.core.PySystemState   | Sergey Smolov | Sergey Smolov    | 1.1            |
| 6293  | Retrascope | Bug     | Closed   | Normal   | XmlTestParserTestCase: NoSuchMethodException  | Sergey Smolov | Igor Melnichenko | 0.1            |
| 8283  | Retrascope | Bug     | Closed   | Normal   | "X <= (others => '0')" should be translated properly when X is bit vector   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 4358  | Retrascope | Bug     | Closed   | Normal   | Внести исправления в представление CGA и методы их извлечения   | Sergey Smolov | Sergey Smolov    |                |
| 8282  | Retrascope | Feature | Closed   | Normal   | apply SLV detection heuristic to more than one CGAA path  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 8220  | Retrascope | Feature | Closed   | Normal   | BV_INC6 VHDL function support   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 9247  | Retrascope | Feature | Open     | High     | CFG-to-C printer  | Sergey Smolov | Sergey Smolov    | 1.2            |
| 9335  | Retrascope | Feature | Closed   | Normal   | cgaa-assert-extractor engine  | Sergey Smolov | Mikhail Lebedev  | 1.0            |
| 9281  | Retrascope | Feature | Closed   | Normal   | cmdline option that specifies clock variable for CGAA model   | Sergey Smolov | Sergey Smolov    | 1.0            |
| 10116 | Retrascope | Feature | Closed   | Normal   | command line option to check if solvers\model checkers that are used are installed properly   | Sergey Smolov | Sergey Smolov    | 1.1            |

| #     | Project    | Tracker           | Status   | Priority | Subject  | Author        | Assignee         | Target version |
|-------|------------|-------------------|----------|----------|--|---------------|------------------|----------------|
| 9446  | Retrascope | Feature           | Closed   | Normal   | Debug output file for engines and their backends   | Sergey Smolov | Sergey Smolov    | 1.0            |
| 10125 | Retrascope | Feature           | Closed   | Normal   | '--detailed' option for fsm-graphml-printer engine   | Sergey Smolov | Sergey Smolov    | 1.1            |
| 9264  | Retrascope | Feature           | Closed   | Normal   | '--disable-backends' cmdline option for HDL parser engine  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 8305  | Retrascope | Feature           | Closed   | Normal   | EFSM state limit   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 9149  | Retrascope | Feature           | Closed   | Normal   | elaborate ranged assignments for bitvector target variables  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 9474  | Retrascope | Feature           | Closed   | Normal   | enable/disable backend parameters for all the engines  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 9769  | Retrascope | Feature           | Closed   | Normal   | GraphML printers: make branch values italic  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 9767  | Retrascope | Feature           | Closed   | Normal   | GraphML printers: use dotted arrows for Module->(Module  Process) hierarchy dependencies                                   | Sergey Smolov | Sergey Smolov    | 1.0            |
| 9468  | Retrascope | Feature           | Closed   | Normal   | HDL parser backend that removes 'initial' processes  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 9486  | Retrascope | Feature           | Closed   | Normal   | HDL parser's init_process backend: calculate initial values if possible  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 8615  | Retrascope | Feature           | Closed   | Normal   | "--no-backends" command line option  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 10112 | Retrascope | Feature           | Closed   | Normal   | '--no-phase' command line option for 'cfg-gadd-transformer' engine   | Sergey Smolov | Sergey Smolov    | 1.1            |
| 9457  | Retrascope | Feature           | Closed   | Normal   | one more auxiliary path in GADD model for terminal endings   | Sergey Smolov | Sergey Smolov    | 1.0            |
| 8262  | Retrascope | Feature           | Closed   | Normal   | phase variable based approach for CFG-CGAA-EFSM optimisation   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 8304  | Retrascope | Feature           | Rejected | Normal   | SLR values number limit  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 9227  | Retrascope | Feature           | Closed   | High     | support for 'BVEXTRACT(x y (SELECT z w))' constructions in left hand sides of assignments                                  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 9039  | Retrascope | Feature           | Closed   | Normal   | Support for designs that assign to variable more than once   | Sergey Smolov | Sergey Smolov    | 1.0            |
| 10060 | Retrascope | Feature           | Closed   | High     | Support SVA properties in CFG model  | Sergey Smolov | Sergey Smolov    | 1.2            |
| 10287 | Retrascope | Feature           | Closed   | Normal   | TestModel: keep top level module name & variables  | Sergey Smolov | Sergey Smolov    | 1.1            |
| 10238 | Retrascope | Feature           | Closed   | Normal   | VerilogParser: '--library-file' cmdline option   | Sergey Smolov | Sergey Smolov    | 1.1            |
| 10115 | Retrascope | Feature           | Closed   | Normal   | '--version' command line option  | Sergey Smolov | Sergey Smolov    | 1.1            |
| 8260  | Retrascope | Feature           | Closed   | Normal   | VHDL record support (non-aggregate case)   | Sergey Smolov | Maxim Chudnov    | 1.0            |
| 9503  | Retrascope | Feature           | Closed   | Normal   | when debug option is enabled, pass it to the model checker as well   | Sergey Smolov | Mikhail Lebedev  | 1.0            |
| 9041  | Retrascope | Feature           | Closed   | Normal   | when model checker returns an error, print it's log to the Retrascope output   | Sergey Smolov | Mikhail Lebedev  | 1.0            |
| 6537  | Retrascope | Developer Request | Closed   | Normal   | E fsm: collection of resetting guarded actions   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5580  | Retrascope | Developer Request | Closed   | Normal   | [efsm][conflict][extractor][jxb] can GuardedAction() call at the JaxbGuardedActionAdapter be substituted by something else | Sergey Smolov | Mikhail Lebedev  | 0.1            |
| 3979  | Retrascope | Developer Request | Closed   | Normal   | Реструктурирование проекта   | Sergey Smolov | Sergey Smolov    |                |
| 4807  | Retrascope | Task              | Closed   | Normal   | Action as interface for BasicBlock, Assertion, Situation   | Sergey Smolov | Sergey Smolov    |                |
| 5504  | Retrascope | Task              | New      | Normal   | add channels between EFSMs   | Sergey Smolov | Mikhail Lebedev  | 1.2            |

| #    | Project    | Tracker | Status   | Priority | Subject   | Author        | Assignee         | Target version |
|------|------------|---------|----------|----------|---|---------------|------------------|----------------|
| 9964 | Retrascope | Task    | Closed   | Normal   | add HDL examples to project distribution  | Sergey Smolov | Sergey Smolov    | 1.1            |
| 7271 | Retrascope | Task    | Closed   | Normal   | add javadoc for new methods when efsm.state.abstraction branch will be merged into master | Sergey Smolov | Sergey Smolov    | 0.2            |
| 6060 | Retrascope | Task    | Closed   | Normal   | Add plasma to project test suite  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 8293 | Retrascope | Task    | Closed   | Normal   | add VeriTrans & Fortress info to NOTICE   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 9389 | Retrascope | Task    | Closed   | Normal   | Assertion -> Property   | Sergey Smolov | Sergey Smolov    | 1.0            |
| 7096 | Retrascope | Task    | Closed   | Normal   | assign process merging backend  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 6472 | Retrascope | Task    | Closed   | Normal   | b13.vhd: too long elaboration time  | Sergey Smolov | Mikhail Lebedev  | 1.0            |
| 7906 | Retrascope | Task    | Closed   | Normal   | Backend that merges "neighbour ranged" sequential 'if' statements                         | Sergey Smolov | Sergey Smolov    | 0.2            |
| 8429 | Retrascope | Task    | Closed   | Normal   | backend that transforms "x[i] := y" assignments into constant-ranged                      | Sergey Smolov | Sergey Smolov    | 1.0            |
| 4946 | Retrascope | Task    | Closed   | Normal   | [basis][log] Ведение лога для нескольких логгеров   | Sergey Smolov | Alexander Kamkin | 0.1            |
| 4945 | Retrascope | Task    | Closed   | Normal   | [basis][log] Опция логирования  | Sergey Smolov | Alexander Kamkin | 0.1            |
| 5247 | Retrascope | Task    | Closed   | Normal   | [basis] Набор идентификаторов Engine как опция командной строки Retrascope                | Sergey Smolov | Alexander Kamkin | 0.1            |
| 5249 | Retrascope | Task    | Closed   | High     | [basis] Настройка Retrascope для работы с SMT-решателями                                  | Sergey Smolov | Alexander Kamkin | 0.1            |
| 5258 | Retrascope | Task    | Closed   | High     | [basis] Обработка циклических зависимостей разных Engine                                  | Sergey Smolov | Alexander Kamkin | 0.1            |
| 5570 | Retrascope | Task    | Closed   | Low      | [build] build.xml: extract equal code parts from 'test'/test.short' targets               | Sergey Smolov | Sergey Smolov    | 0.1            |
| 8994 | Retrascope | Task    | Closed   | Normal   | "BVEXTRACT( ... BVEXTRACT (j i x))" expression transformation rule to the tool ruleset    | Sergey Smolov | Sergey Smolov    | 1.0            |
| 5157 | Retrascope | Task    | Closed   | Normal   | [cfg] addNewVariable(DataType type)   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 3406 | Retrascope | Task    | Closed   | Normal   | CFG extraction from guarded atomic actions (GAA) set.                                     | Sergey Smolov | Sergey Smolov    |                |
| 5143 | Retrascope | Task    | Closed   | Normal   | [cfg][extractor][iface] CfgIfaceExtractor   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 9488 | Retrascope | Task    | New      | Normal   | CFG-GADD transformer backend that makes assignments index and range-free                  | Sergey Smolov | Sergey Smolov    | 1.2            |
| 5395 | Retrascope | Task    | Closed   | Normal   | [cfg] getOnlyChild(), getOnlyParent()   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 6456 | Retrascope | Task    | Closed   | High     | CFG model as hirerarchical list of statements   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 9248 | Retrascope | Task    | Closed   | High     | CFG model process should not have it's own internal variables                             | Sergey Smolov | Sergey Smolov    | 1.0            |
| 4929 | Retrascope | Task    | Rejected | Normal   | [cfg][model] Добавить структуру данных для представления задержек (delay) в присваиваниях | Sergey Smolov | Sergey Smolov    | 0.2            |
| 4924 | Retrascope | Task    | Closed   | Normal   | [cfg][model] Представление непрерывных присваиваний                                       | Sergey Smolov | Sergey Smolov    | 0.1            |
| 4558 | Retrascope | Task    | Closed   | Normal   | [cfg][model] Реализовать обходчик для внутреннего представления описаний аппаратуры       | Sergey Smolov | Sergey Smolov    | 0.1            |
| 4927 | Retrascope | Task    | Rejected | Normal   | [cfg][model] Убрать узел типа ASSERT  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5226 | Retrascope | Task    | Closed   | Normal   | [cfg][printer][graphml] Узлы SOURCE и BASIC_BLOCK имеют одинаковый цвет                   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5579 | Retrascope | Task    | Closed   | Normal   | [cfg] simplify the Assignment class   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5568 | Retrascope | Task    | Closed   | Normal   | [cfg] support process variable declarations   | Sergey Smolov | Sergey Smolov    | 0.1            |

| #    | Project    | Tracker | Status   | Priority | Subject  | Author        | Assignee            | Target version |
|------|------------|---------|----------|----------|--|---------------|---------------------|----------------|
| 4829 | Retrascope | Task    | Closed   | Normal   | [cfg][transformer][cгаа] CFG: Assertion building                               | Sergey Smolov | Sergey Smolov       | 0.1            |
| 4999 | Retrascope | Task    | Closed   | Normal   | [cfg][transformer][cгаа] CFG-to-GADD transformer                               | Sergey Smolov | Sergey Smolov       | 0.1            |
| 9196 | Retrascope | Task    | Closed   | Normal   | CfgVarRangeBlockBackend: use array length for assignment elaboration           | Sergey Smolov | Sergey Smolov       | 1.0            |
| 5320 | Retrascope | Task    | Rejected | Normal   | [cfg] Методы копирования вершин CFG  | Sergey Smolov | Sergey Smolov       | 0.2            |
| 5090 | Retrascope | Task    | Closed   | Normal   | [cfg] Оптимизация представления ветвлений                                      | Sergey Smolov | Sergey Smolov       | 0.1            |
| 5107 | Retrascope | Task    | Closed   | Normal   | [cfg] Реализовать VhdlExpressionPrinter  | Sergey Smolov | Sergey Smolov       | 0.1            |
| 4359 | Retrascope | Task    | Rejected | Normal   | [cfg] Реализовать метод toConstraint()   | Sergey Smolov | Igor Melnichenko    | 0.1            |
| 9430 | Retrascope | Task    | Closed   | Normal   | CGAA -> GADD   | Sergey Smolov | Sergey Smolov       | 1.0            |
| 7806 | Retrascope | Task    | Closed   | Normal   | [cгаа] process - collection of diagrams  | Sergey Smolov | Sergey Smolov       | 0.2            |
| 5322 | Retrascope | Task    | Closed   | Normal   | [cгаа][transformer][efsm] Продумать и реализовать эвристику определения reset  | Sergey Smolov | Sergey Smolov       | 0.2            |
| 5394 | Retrascope | Task    | Closed   | High     | [cгаа][transformer][efsm] реализовать построение переходов EFSM                | Sergey Smolov | Sergey Smolov       | 0.1            |
| 9242 | Retrascope | Task    | Closed   | High     | check BVEXTRACT operation's parameter order                                    | Sergey Smolov | Sergey Smolov       | 1.0            |
| 9658 | Retrascope | Task    | Closed   | Normal   | Check for duplicated data access conflict assertions                           | Sergey Smolov | Mikhail Lebedev     | 1.0            |
| 5711 | Retrascope | Task    | Closed   | Normal   | Check generated *.smv files with external model checker                        | Sergey Smolov | Mikhail Lebedev     | 1.0            |
| 5875 | Retrascope | Task    | Closed   | Normal   | Check state/transition count for extracted EFSM models                         | Sergey Smolov | Sergey Smolov       | 0.1            |
| 9484 | Retrascope | Task    | Closed   | Normal   | Check variables\switches\basic blocks number at HDL parser test cases          | Sergey Smolov | Sergey Smolov       | 1.0            |
| 6354 | Retrascope | Task    | Closed   | Normal   | Collapsing group node for Module   | Sergey Smolov | Alexander Protsenko | 0.1            |
| 5694 | Retrascope | Task    | Closed   | Normal   | collect the *.smt2 files and analyse constraints                               | Sergey Smolov | Sergey Smolov       | 0.1            |
| 6445 | Retrascope | Task    | Closed   | Normal   | compare nuXmv and NuSMV  | Sergey Smolov | Mikhail Lebedev     | 0.1            |
| 6431 | Retrascope | Task    | Closed   | Normal   | descriptor for (VHDL) variables & signals                                      | Sergey Smolov | Sergey Smolov       | 0.1            |
| 3957 | Retrascope | Task    | Closed   | High     | DFG to EFSM  | Sergey Smolov | Sergey Smolov       |                |
| 6061 | Retrascope | Task    | Closed   | Normal   | EFSM-based transition assertion generator                                      | Sergey Smolov | Sergey Smolov       | 1.0            |
| 6350 | Retrascope | Task    | Closed   | Normal   | EfsmConflictExtractor wiki documentation                                       | Sergey Smolov | Mikhail Lebedev     | 0.1            |
| 7574 | Retrascope | Task    | Closed   | Normal   | Efsm: deepCopy()   | Sergey Smolov | Sergey Smolov       | 0.2            |
| 5446 | Retrascope | Task    | Closed   | Normal   | [efsm][examples] Добавить мета-информацию в B04/B13                            | Sergey Smolov | Sergey Smolov       | 0.1            |
| 5590 | Retrascope | Task    | Closed   | Normal   | [efsm][extraction] implement an EFSM initial state & 'reset' signal heuristics | Sergey Smolov | Sergey Smolov       | 0.1            |
| 5589 | Retrascope | Task    | Closed   | Normal   | [efsm][extraction] state-like variables use/def statistics                     | Sergey Smolov | Sergey Smolov       | 0.1            |
| 5497 | Retrascope | Task    | Closed   | Normal   | [efsm][extractor][conflict][jxjb] rename jxjb-classes                          | Sergey Smolov | Mikhail Lebedev     | 0.1            |
| 5501 | Retrascope | Task    | Closed   | Normal   | [efsm][generator][test] Class 'EfsmAtomicTestGenerator' is never used          | Sergey Smolov | Igor Melnichenko    | 0.1            |
| 5537 | Retrascope | Task    | Closed   | Normal   | [efsm][generator][test] make log shorter                                       | Sergey Smolov | Igor Melnichenko    | 0.1            |
| 5756 | Retrascope | Task    | Closed   | Normal   | EFSM pre-initial state + initialization action                                 | Sergey Smolov | Sergey Smolov       | 0.1            |
| 7409 | Retrascope | Task    | Closed   | Normal   | EFSM state abstraction (stabilization)   | Sergey Smolov | Sergey Smolov       | 0.2            |

| #     | Project    | Tracker | Status   | Priority | Subject  | Author        | Assignee         | Target version |
|-------|------------|---------|----------|----------|--|---------------|------------------|----------------|
| 7597  | Retrascope | Task    | Closed   | Normal   | E fsmTransition.getGuardedAction().getGuard() -> E fsmTransition.getGuard()            | Sergey Smolov | Sergey Smolov    | 0.2            |
| 5548  | Retrascope | Task    | Closed   | Low      | elaborate minimips modules   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 7972  | Retrascope | Task    | Closed   | Normal   | empty event-free cases merging backend   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 5507  | Retrascope | Task    | Rejected | Normal   | [engine][basis] implement PrinterEngine  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6412  | Retrascope | Task    | Rejected | Normal   | engine combining HLDD & assertion model  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5541  | Retrascope | Task    | Closed   | High     | [engine][printer][smv] move engine.printer.smv package to sandbox                      | Sergey Smolov | Mikhail Lebedev  | 0.1            |
| 7742  | Retrascope | Task    | Closed   | Normal   | enum support   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 5696  | Retrascope | Task    | Closed   | Normal   | exclude sandbox & test folder from distribution  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5588  | Retrascope | Task    | Closed   | Normal   | extend HDL test suite  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 6282  | Retrascope | Task    | Closed   | High     | finish AstSmvVisitor & CfgAstVisitor merge   | Sergey Smolov | Mikhail Lebedev  | 0.1            |
| 10073 | Retrascope | Task    | Closed   | High     | fix checkstyle warnings  | Sergey Smolov | Maxim Chudnov    | 1.1            |
| 10139 | Retrascope | Task    | Closed   | High     | fix coding issues at *BenchTest classes  | Sergey Smolov | Maxim Chudnov    | 1.1            |
| 5897  | Retrascope | Task    | Closed   | Normal   | fix javadoc for methods using InvariantChecks.checkNotNull                             | Sergey Smolov | Sergey Smolov    | 0.1            |
| 7727  | Retrascope | Task    | Closed   | Normal   | Flatten module instances   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 6367  | Retrascope | Task    | Closed   | Urgent   | Fortress expressions printing in an SMV format   | Sergey Smolov | Mikhail Lebedev  | 0.1            |
| 6490  | Retrascope | Task    | Closed   | High     | Gradle task & cmdline scripts for running the tool from terminal                       | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6454  | Retrascope | Task    | Closed   | Normal   | group sequential switches with boolean conditions of "x == a" form                     | Sergey Smolov | Sergey Smolov    | 0.1            |
| 7595  | Retrascope | Task    | Closed   | Normal   | GuardedAction.getGuard().getNode() -> GuardedAction.getGuardNode()                     | Sergey Smolov | Sergey Smolov    | 0.2            |
| 5872  | Retrascope | Task    | Closed   | Normal   | HDL file meta info   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6956  | Retrascope | Task    | Closed   | Normal   | HDL Retrascope 0.2.1 release   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 7626  | Retrascope | Task    | Closed   | Normal   | HDL Retrascope 0.2.2-beta release  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 7623  | Retrascope | Task    | Closed   | Normal   | HLDD-to-SMV printer with no assertions   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 5459  | Retrascope | Task    | Closed   | Normal   | implement EngineFrontend/EngineBackend   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5689  | Retrascope | Task    | Closed   | High     | implement test-to-Verilog printer  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 5688  | Retrascope | Task    | Closed   | Normal   | implement test-to-VHDL printer   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 9438  | Retrascope | Task    | Closed   | Normal   | jUnit test cases for CFG-GAD transformer that check path number                        | Sergey Smolov | Sergey Smolov    | 1.0            |
| 9462  | Retrascope | Task    | Closed   | Normal   | jUnit test cases for HDL parsers that count numbers of CFG processes, statements, etc. | Sergey Smolov | Sergey Smolov    | 1.0            |
| 6336  | Retrascope | Task    | Closed   | Normal   | jUnit tests for E fsmConflictExtractor   | Sergey Smolov | Mikhail Lebedev  | 0.1            |
| 6511  | Retrascope | Task    | Rejected | Normal   | keep expressions at case statements  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6483  | Retrascope | Task    | Closed   | High     | keep related clock-like variables for top-level containers of EFSM assertions          | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6327  | Retrascope | Task    | Closed   | Normal   | log messages class   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6331  | Retrascope | Task    | Closed   | Normal   | look into unused classes   | Sergey Smolov | Sergey Smolov    |                |

| #     | Project    | Tracker | Status   | Priority | Subject   | Author        | Assignee         | Target version |
|-------|------------|---------|----------|----------|---|---------------|------------------|----------------|
| 10988 | Retrascope | Task    | New      | Normal   | lowercase debug messages  | Sergey Smolov | Sergey Smolov    |                |
| 5609  | Retrascope | Task    | Rejected | Normal   | make process-local variables be efsm-model-global                                       | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6448  | Retrascope | Task    | New      | Low      | mapping description language + IR + parser  | Sergey Smolov | Sergey Smolov    | 2.0            |
| 5695  | Retrascope | Task    | Closed   | Normal   | mark retrascope.sh as executable automatically  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6509  | Retrascope | Task    | Rejected | Normal   | merge embedded switch nodes with conditions depending exactly from the same variable(s) | Sergey Smolov | Sergey Smolov    | 0.1            |
| 9911  | Retrascope | Task    | Closed   | Urgent   | merge "**/sample/*TestCase" Java test cases   | Sergey Smolov | Maxim Chudnov    | 1.1            |
| 8430  | Retrascope | Task    | Closed   | Normal   | meta-info type for CFG statements that were added by HDL parser backends                | Sergey Smolov | Sergey Smolov    | 1.0            |
| 6393  | Retrascope | Task    | Rejected | Normal   | migrate to EFSM model containing only concurrent assignments                            | Sergey Smolov | Igor Melnichenko | 0.2            |
| 5868  | Retrascope | Task    | Closed   | Normal   | Migrate to Fortress 0.4   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5413  | Retrascope | Task    | Closed   | High     | [model][basis] add HdIType field to VariableData class                                  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 4971  | Retrascope | Task    | Rejected | Normal   | [model][basis] AssignAtomicStatement vs Binding   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5498  | Retrascope | Task    | Closed   | Normal   | [model][basis][memory] rename IMemory interface   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5416  | Retrascope | Task    | Closed   | Normal   | [model][basis] мета-информация  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 4967  | Retrascope | Task    | Closed   | Normal   | [model][basis] Реализовать хранилище деклараций переменных                              | Sergey Smolov | Sergey Smolov    | 0.1            |
| 4966  | Retrascope | Task    | Closed   | Normal   | [model][basis] Убрать поле isDefined класса MVariableData                               | Sergey Smolov | Sergey Smolov    | 0.1            |
| 4998  | Retrascope | Task    | Closed   | Normal   | [model][cgaa] Data structure for guarded actions decision diagram                       | Sergey Smolov | Sergey Smolov    | 0.1            |
| 4972  | Retrascope | Task    | Closed   | Normal   | [model][cgaa] странное расположение метода addVarNamePrefix                             | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6041  | Retrascope | Task    | Closed   | Normal   | move to gradle based build system   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 10059 | Retrascope | Task    | Rejected | Normal   | mv all the project tests to JUnit 5 platform  | Sergey Smolov | Maxim Chudnov    | 1.1            |
| 9277  | Retrascope | Task    | Closed   | High     | mv clock-like variable detection to CFG-to-CGAA transformer                             | Sergey Smolov | Sergey Smolov    | 1.0            |
| 6410  | Retrascope | Task    | Closed   | Normal   | no-loop/no-recursion functions elaboration  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 7770  | Retrascope | Task    | Closed   | Normal   | 'others' attribute upon array/bitvector initialization                                  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 5122  | Retrascope | Task    | Closed   | Normal   | [parser][backend] elaborate non-blocking assignments                                    | Sergey Smolov | Sergey Smolov    | 0.2            |
| 5116  | Retrascope | Task    | Closed   | Normal   | [parser][basis][backend] CfgBasicBlockBackend   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5117  | Retrascope | Task    | Closed   | Normal   | [parser][basis][backend] CfgMergeBackend  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5503  | Retrascope | Task    | Closed   | Normal   | [parser][basis][backend] implement "atomic hammock" backend                             | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5161  | Retrascope | Task    | Closed   | Normal   | [parser][cfg] Обработка циклов  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 5095  | Retrascope | Task    | Closed   | Normal   | [parser][cfg] Оптимизация представления ветвлений - многовариантные узлы switch         | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5108  | Retrascope | Task    | Closed   | Normal   | [parser] Реализовать базовые классы Parser, Frontend, Backend                           | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6534  | Retrascope | Task    | Closed   | Normal   | pass reset-like signals to EFSM-based assertions  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6050  | Retrascope | Task    | Closed   | High     | Path to testbench directory as command-line parameter                                   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 9280  | Retrascope | Task    | Closed   | Normal   | prepare the code to 1.1.1 release   | Sergey Smolov | Mikhail Lebedev  | 1.0            |

| #     | Project    | Tracker | Status   | Priority | Subject   | Author        | Assignee         | Target version |
|-------|------------|---------|----------|----------|---|---------------|------------------|----------------|
| 9762  | Retrascope | Task    | Closed   | High     | prepare to 1.1.1 release  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 5832  | Retrascope | Task    | Closed   | Normal   | print some info about failed tests                                      | Sergey Smolov | Sergey Smolov    | 0.1            |
| 7546  | Retrascope | Task    | Closed   | Normal   | Print tool execution time in milliseconds                               | Sergey Smolov | Sergey Smolov    | 0.2            |
| 5592  | Retrascope | Task    | Closed   | Normal   | [project] prepare tar.gz distribution for future release                | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5591  | Retrascope | Task    | Closed   | Normal   | [project] run scripts for Unix/Windows                                  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5561  | Retrascope | Task    | Closed   | Normal   | [project] use InvariantChecks if needed                                 | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6446  | Retrascope | Task    | New      | Normal   | Promela translator to CFG representation (no buffers)                   | Sergey Smolov | Mikhail Lebedev  | 2.0            |
| 6528  | Retrascope | Task    | Closed   | Normal   | random test generator   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 8976  | Retrascope | Task    | Closed   | Normal   | Range: old -> high, young -> low  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 10000 | Retrascope | Task    | Closed   | Normal   | README\ChangeLog -> README.md\ChangeLog.md                              | Sergey Smolov | Sergey Smolov    | 1.1            |
| 7715  | Retrascope | Task    | Closed   | Normal   | [refactoring] duplicate code in AssertionVariableContainer              | Sergey Smolov | Sergey Smolov    | 0.2            |
| 6864  | Retrascope | Task    | Closed   | Normal   | Remove crypto-cores from test suite                                     | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5896  | Retrascope | Task    | Closed   | Normal   | remove parameterized collections from public method interfaces          | Sergey Smolov | Sergey Smolov    | 0.1            |
| 9766  | Retrascope | Task    | Closed   | High     | remove 'vhdl.record' Git branch from remote repo                        | Sergey Smolov | Maxim Chudnov    | 1.0            |
| 5887  | Retrascope | Task    | Closed   | Normal   | rename 'decider_parser.vhd'   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 10128 | Retrascope | Task    | Closed   | Normal   | rename multi-test classes: "**TestCase" -> "**TestSuite"                | Sergey Smolov | Maxim Chudnov    | 1.1            |
| 10166 | Retrascope | Task    | Closed   | Normal   | rename some class fields & related methods                              | Sergey Smolov | Sergey Smolov    | 1.1            |
| 5526  | Retrascope | Task    | Rejected | Normal   | Retrascope engines configuration  | Sergey Smolov | Alexander Kamkin |                |
| 8975  | Retrascope | Task    | Closed   | Normal   | RetrascopeException.makeException -> RetrascopeException.exception      | Sergey Smolov | Sergey Smolov    | 1.0            |
| 5870  | Retrascope | Task    | Closed   | Normal   | Retrascope exceptions   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 6758  | Retrascope | Task    | Closed   | Normal   | return state/transition coverage for the specified EFSM & test entities | Sergey Smolov | Sergey Smolov    | 0.2            |
| 9427  | Retrascope | Task    | Closed   | Normal   | reuse variables' versions upon CGAA model building                      | Sergey Smolov | Sergey Smolov    | 1.0            |
| 9806  | Retrascope | Task    | Closed   | Normal   | rm dependency from commons-lang library                                 | Sergey Smolov | Sergey Smolov    | 1.0            |
| 5904  | Retrascope | Task    | Closed   | Normal   | save junit test results in build/test-results                           | Sergey Smolov | Sergey Smolov    | 0.1            |
| 9249  | Retrascope | Task    | Closed   | Normal   | separate junit test cases for EFSMGraphMIPrinter engine                 | Sergey Smolov | Sergey Smolov    | 1.0            |
| 8194  | Retrascope | Task    | Closed   | Normal   | Separately solve independent sub-expressions of common AND expression   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 6059  | Retrascope | Task    | Closed   | Normal   | Simple solver for "x && lx" constraints                                 | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6447  | Retrascope | Task    | Closed   | Normal   | SMV-based counterexamples parser  | Sergey Smolov | Mikhail Lebedev  | 0.2            |
| 7104  | Retrascope | Task    | Closed   | High     | smv-test-parser: filter tests   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 6808  | Retrascope | Task    | Rejected | High     | Split CFG processes into independent parts                              | Sergey Smolov | Sergey Smolov    | 0.2            |
| 6051  | Retrascope | Task    | Closed   | Normal   | state-like variable names option  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6453  | Retrascope | Task    | Closed   | Normal   | Statement class for grouping CFG nodes                                  | Sergey Smolov | Sergey Smolov    | 0.1            |



| #     | Project    | Tracker | Status   | Priority | Subject  | Author        | Assignee         | Target version |
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| 5683  | Retrascope | Task    | Closed   | Normal   | STD_LOGIC/STD_ULOGIC processing  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5495  | Retrascope | Task    | Closed   | Normal   | [structure] move ru.ispras.retrascope.testbench.media package to ru.ispras.retrascope.result.testbench | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5481  | Retrascope | Task    | Closed   | Normal   | [structure] remove raw packages from main build folder   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5494  | Retrascope | Task    | Closed   | Normal   | [structure] remove ru.ispras.retrascope.engine.efsm.testgen.heuristic empty package                    | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5471  | Retrascope | Task    | Closed   | Normal   | [structure] Rename *ing packages   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5456  | Retrascope | Task    | Closed   | Normal   | [structure] Замечания по структуре каталогов   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 9310  | Retrascope | Task    | Closed   | Normal   | substitute SMT-LIB variables those names are equal to builtin commands                                 | Sergey Smolov | Sergey Smolov    | 1.0            |
| 7723  | Retrascope | Task    | Rejected | Normal   | Support for module instances in Verilog descriptions   | Sergey Smolov | Sergey Smolov    | 1.0            |
| 5569  | Retrascope | Task    | Closed   | Normal   | support process variable declarations  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6449  | Retrascope | Task    | New      | Low      | testbench generator taking test sequences and mappings as inputs                                       | Sergey Smolov | Sergey Smolov    | 2.0            |
| 5145  | Retrascope | Task    | Closed   | Normal   | [testbench] lface  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5704  | Retrascope | Task    | Closed   | Normal   | try to find a way to remove 'toplevel' option  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6301  | Retrascope | Task    | Closed   | Normal   | unused code  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 9278  | Retrascope | Task    | Closed   | Normal   | use CGAA model instead of EFSM-based assertions to get clocks  | Sergey Smolov | Mikhail Lebedev  | 1.0            |
| 10133 | Retrascope | Task    | New      | Normal   | use '-coi' model checker option  | Sergey Smolov | Mikhail Lebedev  | 1.1            |
| 8288  | Retrascope | Task    | Closed   | Normal   | use DFS_NO_RPT walking where it is possible  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 9291  | Retrascope | Task    | Closed   | Normal   | use nuXmv 1.1.1  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 10058 | Retrascope | Task    | New      | Normal   | User documentation   | Sergey Smolov | Sergey Smolov    | 1.2            |
| 9191  | Retrascope | Task    | Closed   | Normal   | use StringTemplate facilities to generate HDL testbenches  | Sergey Smolov | Sergey Smolov    | 1.0            |
| 5755  | Retrascope | Task    | Closed   | Low      | use Zamia IG visitors & walkers  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5420  | Retrascope | Task    | Closed   | Normal   | [util] метод fillNodeWithValues заменить на Transformer.substituteAllBindings                          | Sergey Smolov | Igor Melnichenko | 0.1            |
| 5578  | Retrascope | Task    | Closed   | Normal   | [verilog][parser][cfg] add support of multiple assignments   | Sergey Smolov | Mikhail Chupilko | 0.1            |
| 5398  | Retrascope | Task    | Closed   | Normal   | [verilog][parser][cfg] Преобразование констант в NodeValue   | Sergey Smolov | Mikhail Chupilko | 0.1            |
| 5549  | Retrascope | Task    | Closed   | Normal   | [vhdl][cfg][parser] add support of instantiation   | Sergey Smolov | Sergey Smolov    | 0.2            |
| 4466  | Retrascope | Task    | Closed   | Normal   | [vhdl][parser][cfg] преобразование IGSequentialWait  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 5175  | Retrascope | Task    | Closed   | Normal   | [vhdl][parser] IG array elaboration  | Sergey Smolov | Sergey Smolov    | 0.2            |
| 6049  | Retrascope | Task    | Closed   | Normal   | VHDL test printer: write documentation to project wiki   | Sergey Smolov | Igor Melnichenko | 0.1            |
| 4984  | Retrascope | Task    | Closed   | Normal   | [vhdl][translator] Группировка неблокирующих присваиваний  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 4925  | Retrascope | Task    | Closed   | Normal   | [vhdl][translator] Обработка непрерывных присваиваний  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6389  | Retrascope | Task    | Closed   | Normal   | Wiki documentation about testbench simulation  | Sergey Smolov | Sergey Smolov    | 0.1            |
| 5482  | Retrascope | Task    | Closed   | Normal   | [wiki] documentation for 0.1-alpha   | Sergey Smolov | Sergey Smolov    | 0.1            |
| 6976  | Retrascope | Task    | Closed   | Normal   | Wiki update  | Sergey Smolov | Sergey Smolov    | 0.2            |

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| 5142 | Retrascope | Task    | Closed   | Normal   | [wiki] Классификация Engine                               | Sergey Smolov | Sergey Smolov | 0.1            |
| 7081 | Retrascope | Task    | Rejected | Normal   | xor-composition-printer                                   | Sergey Smolov | Sergey Smolov | 0.2            |
| 4521 | Retrascope | Task    | New      | Low      | Входной класс для генератора тестовой последовательности  | Sergey Smolov | Sergey Smolov | 2.0            |
| 3934 | Retrascope | Task    | Closed   | Normal   | Дополнительные операции                                   | Sergey Smolov | Sergey Smolov |                |
| 3434 | Retrascope | Task    | Closed   | Normal   | Извлечение "протоопераций" из Data Flow Graph             | Sergey Smolov | Sergey Smolov |                |
| 4363 | Retrascope | Task    | New      | Low      | Критерий кластеризации входных сигналов, основанный на GA | Sergey Smolov | Sergey Smolov | 2.0            |

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