

BUGS TO FIX (25 matches)**Milestone: Unknown** (25 matches)

| Ticket | Summary | Owner | Priority | Component | Reporter |
|------------|--|-------|----------|-----------|----------|
| #27 | Response time from simulation with precedences | | critical | framework | singhoff |

Reported by **singhoff**, 5 weeks ago.

Response time from simulation are computed as if no precedences are defined ... but the GANNT is correctly drawn!

description This response time from simulation with precedence does not work when the set of tasks is distributed on SEVERAL processors !! ... which is the case of test_jitter?.xml

(may be a bug in scheduling_sequences.ads)

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| #19 | RM non preemptive and periodic tasks | | major | framework | J. Legrand and F. Singhoff |
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Reported by **J. Legrand and F. Singhoff**, 8 weeks ago.

description

- Message for processor utilization test is not clear.
- Check used response time equation.

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| #32 | max_to_index and min_to_index have the same behavior | | major | framework | singhoff |
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Reported by **singhoff**, 3 weeks ago.

description the two operators (max_to_index and minto_index) selects the tasks in the same way : the two operators must select the task in a reverse order.

see test_parametric5.xml for example (processors hpf2 and hpf3).

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| #38 | Buffer analysis | | major | binaries | R. Couillet |
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Reported by **R. Couillet**, 10 days ago.

- when consuming outside of buffer capacity, Cheddar crashes if you do a buffer analysis from simulation.

- sometimes, when setting a producer/consumer design, the first instance of the consumer task doesn't consume (which is implicitly great because buffer is not filled enough of data), then the next instance consumes all data (which is great again because this time buffer is full enough) but the next one also consumes from the buffer while this one is not filled enough... so I guess either the first or the third occurrence of this task doesn't behave well.
- something that's not exactly a bug: i didn't find out any way to read from or write to a buffer during more than 1 unit of time... is it a default behaviour of Cheddar?, can we handle that differently?

| Ticket | Summary | Owner | Priority | Component | Reporter |
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| #39 | End to end response time too much pessimistic | | major | binaries | M. Zanconi |

Reported by **M. Zanconi**, 10 days ago.

The use of 'end to end response time' option is too much pessimistic:

For instance,

T1(2,10) --> T2(2,10) --> T3(2,10), 2 is the execution time and 10 is the period. Priorities are 1, 5 and 10 respectively. The result is :

- Compute all steps (see [2], page 3, equation 4).

description Task response time

t1 => 10, Jitter= 0 t2 => 16, Jitter= 10 , missed its deadline (deadline = 10) t3 => 12, Jitter= 10 , missed its deadline (deadline = 10)

But if I try to do this 'by hand', I see that T1 is the only one in the READY queue, so, its response time should be 2. Equation 4 gives B1=0 (since there are no tasks of lower priority than T1's) and the sum should be also 0 since there are no higher priority tasks ready to execute [T2 and T3 are not runnable]. Next T2 is the only one ready to execute, so its response time is 4 with Jitter=2 (analitically speaking B2=2 and the sum is 0). Finally T3 is read at time 4 (its jitter), finishing at 6. All tasks meet their deadline.

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| #6 | Cheddar Crash in AADL import modification | | minor | framework | jerome |
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Reported by **jerome**, 4 months ago.

Bug description :

description

- 1) import an aadl file in Cheddar (e.g. *project_examples\aadl\imported\auto_arinc.aadl*).
- 2) modify the first adress space name in *Edit->Update->Update adress spaces* menu (from *auto_arinc.impl.partition1* to *partition1* for example).
- 3) try to modify a task in *Edit->Update->Update tasks* : if one select the first task, Cheddar crash.

I think *Adress space* field of the selected task does not reflect the change made in 2)... Cheddar update task dialog box can not find this old name and ... crash

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| #7 | small memory leak in simulation | | minor | framework | jerome |
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Reported by **jerome**, 4 months ago.

when a simulation is launched a memory leak occurs : for ex1.xml (ubo/exercise), there is 400k loss for each launched.

description This is not a huge loss, but it depends on the simulation time...

I think the loss come from : * the call framework (small part 80K for ex1.xml project) * the call to Do_Election->Check_Resource (between 0 and 4K but Do_Election is called in a loop depending on simulation time).

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| #11 | Several bugs related to precedences graph (2) | | minor | graphical_editor | Jerome Legrand |
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Reported by **Jerome Legrand**, 3 months ago.

| Ticket | Summary | Owner | Priority | Component | Reporter |
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| description | <p>The precedences graph component edition (add/delete) capabilities should be suppressed in order to limit bugs and make add/update dialog boxes independent from this graph.</p> <p>These bugs has been found and non resolved in ticket 10 fixes.</p> <p>Bug 1</p> <p>"new item" dialog box is modal but does not remain visible if the user click on another Cheddar window.</p> <p>Bug 2</p> <p>2 structures (an array and a list) are used to manage item in "dependences graph" dialog box. A variable represents last item added index. When an item is added, this variable is incremented (Ok) but when an item is removed, it is not decremented...</p> <p>Furthermore, the use of the 2 structures is not clear in the source code...</p> <p>Bug 3</p> <p>One can find the following string hard coded : "message", "buffer" and "task"...</p> <p>Bug 4</p> <p>When a user add an item, a new_item_object is allocated. If the item creation is canceled, this object is not freed...</p> <p>Bug 5</p> <p>When an item is created, its location on the precedences graph is on coordinate (0, 0). It should be located on mouse click coordinate.</p> <p>Bug 6</p> <p>When an item is deleted in the "add/update" dialog box, the corresponding graphical representation in the "dependences graph" is deleted as well (should be on close).</p> <p>If this operation is canceled ("cancel" button), the graphical representation does not reappear and the item has been removed from the internal array, so if one try to remove the same item, Cheddar crashed...</p> <p>Furthermore, if to many delete operation occur, Cheddar can crash.</p> <p>Bug 7</p> <p>After the "Limit creation" test, the project cannot be saved (buffer coordinate pb).</p> | | | | |
| #14 | Automata user-defined scheduler interpreter | | minor | framework | singhoff |

Reported by **singhoff**, 3 months ago.

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| description | <p>bugs reported by Tobias Stephan (eads) :</p> <ul style="list-style-type: none"> - a warning must be displayed when a section is called in a automaton synchronization statement ... and when this section does not exist ! - the automaton user defined scheduler interpreter does not work properly when several processors are defined in an architecture |
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| Ticket | Summary | Owner | Priority | Component | Reporter |
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| #17 | EDF non preemptive and periodic tasks | | minor | framework | J. Legrand and F. Singhoff |

Reported by **J. Legrand and F. Singhoff**, 8 weeks ago.

description Reference for response time is missing. (see test_periodic1.xml)

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| #18 | LLF non preemptive and periodic tasks | | minor | framework | J. Legrand and F. Singhoff |
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Reported by **J. Legrand and F. Singhoff**, 8 weeks ago.

description Check scheduling (in particular task T20 2nd activation) ... the scheduling seems to be wrong !
(see test_periodic1.xml)

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| #21 | Integrity check on XML files | -- | minor | framework | singhoff |
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Reported by **singhoff**, 5 weeks ago.

description An integrity check is missing when a XML file is loaded into the tool : we currently do not check, for a task, that its address space and its processor exist.
this check must be implemented into the task_set package (see Check_Task subprogram)

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| #28 | some exceptions from dependence windows are not caught | | minor | graphical_editor | singhoff |
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Reported by **singhoff**, 3 weeks ago.

description when somebody select a dependency which does not exists, cheddar stops with a reported (but uncaught) exception called : TASK.DEPENDENCIES.DEPENDENCY_NOT_FOUND
for example, this occurs when we try to delete a dependency by clicking twice times on the same task name (ie. circle representing a task) in the dependency window.

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| #29 | Integrity check on dependence window | | minor | graphical_editor | singhoff |
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Reported by **singhoff**, 3 weeks ago.

description An exception TASK_DEPENDENCIES.HALF_DEP_SET.EMPTY_SET is raised when, in a project, all dependences are removed and the "tools/precedencies/chetto blazewicz modifications on deadlines/compute and update tasks" is called.
A check is missing to be sure that the set is NOT empty before calling the "tools/precedencies/chetto blazewicz modifications on deadlines/compute and update tasks" service.

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| #33 | Extra type error with random variable of .sc program | | minor | framework | singhoff |
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Reported by **singhoff**, 3 weeks ago.

| Ticket | Summary | Owner | Priority | Component | Reporter |
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| description | <p>A new test was added into the .sc file interpreter. This test must not be applied in case of random variable in sc program.</p> <p>otherwise, we can not write and interpret expressions with random variable (see example of test_parametric12.xml)</p> | | | | |
| #34 | Type error with operator get_task_index | | minor | framework | singhoff |

Reported by **singhoff**, 3 weeks ago.

description a type error is raised in a sc program when the operator get_task_index is used
see example of test_event_handler1.xml

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| #35 | Missing integrity check with Partitionning RM algorithms | | minor | framework | singhoff |
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Reported by **singhoff**, 3 weeks ago.

description All the tasks must be periodic ... this assumption is checked before running partitionning RM algorithms.
... the exception must be caught and displayed
in order to avoid that cheddar stops.
see example test_partition2.xml

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| #36 | Default AADL property files | | minor | framework | SuYoung Lee (INRIA) |
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Reported by **SuYoung Lee (INRIA)**, 10 days ago.

description Cheddar requires that the set of AADL property files can be accessed before parsing an AADL model.
We should call ocarina to load default AADL property files if the user forget to give its own property sets. This should ease the use of Cheddar

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| #37 | SCC error | | minor | framework | N. Vienne (thales) |
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Reported by **N. Vienne (thales)**, 10 days ago.

description Checking the EDF-like scheduler with scc raise an error :

C:\Documents and Settings\T0081686\Bureau\Josefil>scc EDF.sc scc version 2.0, Copyright (C) 2002-2009, F. Singhoff Compiled after march the 5th, 2007 (blablabla) Parsing error : Line 5, tasks.start_time, Undeclared Identifier

Content of EDF.sc :

start_section:

dynamic_priority : array (tasks_range) of integer;

priority_section:

dynamic_priority := tasks.start_time + tasks.deadline

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| | + ((tasks.activation_number-1)*tasks.period); election_section: return min_to_index(dynamic_priority); It's not critical since Cheddar seems to work correctly with the defined scheduler, but the remaining lines are not checked. | | | | |
| #40 | AADL project import | | minor | framework | F. Singhoff |

Reported by **F. Singhoff**, 10 days ago.

Bug in AADL project import :

description

- the option "import without system name" does not work
- the project test_sub_systems.aadl crashes !

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| #41 | AADL component without implementation | | minor | framework | P. Dissaux |
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Reported by **P. Dissaux**, 10 days ago.

description

Take into account the fact that AADL components can be described without implementation (properties are then provided with component type specifications).

See aadl examples provided by Ellidiss technologies.

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| #42 | Parametric scheduler : double user defined parameters | | minor | framework | F. Singhoff |
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Reported by **F. Singhoff**, 10 days ago.

description

Fix a bug on parametric scheduler when double user's defined parameters are used during the election step. Double support is currently not correctly implemented. Need to define a set of SC/XML file to test this untested feature

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| #43 | Problem with General task partitioning | | minor | framework | Nivala |
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Reported by **Nivala**, 10 days ago.

description

When you have task set which has minimum amount of required processors (you can do this by having task set which needs at least two processors. You have just one processor, it cannot be scheduled. Then you add processors until task set can be scheduled. Dont add processors anymore, but try to run scheduling for second time. It doesnt work anymore, somehow function loses one processor from processors list and requires you to add one more processor.

If you have one processor in processor list more than function really requires to run, you can run General task function as many times as you want(it just loses one processor). If you remove Sort(Result_Tasks, Increasing_Period'access); line from Multiprocessor_services.adb file, and from start of subprogram Rm_General_Tasks, this problem shouldnt exist anymore(this line is needed to make tasks to increasing period order, as Condition-IP function requires).

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| #44 | Utilization cpu factor test for preemptive DM | | minor | framework | F. Singhoff |
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| Ticket | Summary | Owner | Priority | Component | Reporter |
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Reported by **F. Singhoff**, 10 days ago.

description The utilization cpu factor test for preemptive DM is computed as for RM. Is it right or not ?
Any Cheddar project with a DM scheduler can be used to test this bug.

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| #45 | Response time computation loop | | minor | framework | F. Singhoff |
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Reported by **F. Singhoff**, 10 days ago.

description Response time computation with non-preemptive EDF scheduler sometimes loops forever.
The ex4.xml example (UBO exercices in the docs/educational directory) shows this problem : it loops forever on EDF response time computation perhaps certainly because of the processor utilization which is equal to 1.000