

AF3 Phoenix - Feature #3650

[New DSE project - #3482] The WCET table of TaskArchitectures is not available for DSE-generated Task->Partition->ExecutionUnit allocations

02/25/2019 02:11 PM - Alexander Diewald

Status:	New	Start date:	02/25/2019
Priority:	Normal	Due date:	
Assignee:	Alexander Diewald	% Done:	0%
Category:		Estimated time:	1.00 hour
Target version:	Backlog		
Description			
Current status			
<p>The WCET table requires the existence of a Task->ExecutionUnit allocation table. Probably, there exists also the requirement that such a table must also reference the TaskArchitecture in question.</p> <p>For allocations of the type Task->Partition->ExecutionUnit, such a table is not present in the exported artifacts of a DSE solution supporting Partition exploration. Here the Task->ExecutionUnit allocation table is deleted such that a valid AllocationTableCollection is obtained.</p>			
Potential solutions			
<ol style="list-style-type: none">1. Export two AllocationTableCollections: One with the Task->ExecutionUnit pointing to the exported TaskArchitecture, and a second one containing the actual allocations.2. Adjust the WCET editor such that Task->Partition->ExecutionUnit allocations are supported.3. WCET definition by the TimingSpecification (?)			
NOTE: This ticket might be resolved in the scope of #3482 .			
Related issues:			
Related to Feature #3735: Partition Architecture: Introduce memory areas		Closed	05/28/2019

History

#1 - 04/03/2019 05:09 PM - Simon Barner

- Description updated

Fix typo, use enumeration for potential solutions

#2 - 05/13/2019 02:15 PM - Johannes Eder

- Target version changed from AF3 2.15 RC1 (Feature Freeze) to AF3 2.16 RC1 (Feature Freeze)

#3 - 05/24/2019 03:43 PM - Johannes Eder

- Target version changed from AF3 2.16 RC1 (Feature Freeze) to AF3 2.16 RC2 (Tested, Bug-free)

#4 - 07/26/2019 04:05 PM - Simon Barner

- Description updated

#5 - 07/26/2019 04:05 PM - Simon Barner

- Related to Feature #3735: Partition Architecture: Introduce memory areas added

#6 - 07/26/2019 04:06 PM - Simon Barner

[#3735](#) will provide some generalization of the allocation service that might also be useful here.

#7 - 09/23/2019 07:30 PM - Simon Barner

- Assignee changed from Simon Barner to Alexander Diewald

Does the issue persist? Can you provide steps-to-reproduce and/or a test model?

#8 - 09/30/2019 02:53 PM - Alexander Diewald

- File AF3-Project.af3_23 added

- Target version changed from AF3 2.16 RC2 (Tested, Bug-free) to AF3 2.17 (Feature Freeze)

The issue still persists. See the attached model: It is not possible to select an allocation collection with tasks -> partitions -> execUnits for extracting task WCETs for the "Task Architecture Partitions" model. Only Tasks -> ExU is possible.

It must be possible to specify WCETs for tasks running in partitions.

#9 - 09/30/2019 07:04 PM - Alexander Diewald

- Tracker changed from Bug to Feature

#10 - 03/25/2020 06:20 PM - Alexander Diewald

- Status changed from Feedback to New

#11 - 04/16/2020 04:57 PM - Alexander Diewald

- Target version changed from AF3 2.17 (Feature Freeze) to Backlog

Files

AF3-Project.af3_23	17.1 KB	09/30/2019	Alexander Diewald
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