

MicroTESK - Task #5673

Memory scalability for large memory ranges (address space for 48 and 64 bit addresses)

03/03/2015 11:54 AM - Andrei Tatarnikov

Status:	Closed	Start date:	03/03/2015
Priority:	Urgent	Due date:	
Assignee:	Andrei Tatarnikov	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2.2	Spent time:	0.00 hour
Detected in build:	svn	Published in build:	150619
Description			
Verify and review (if needed) the scalability of memory in the simulator for large memory ranges (address space for 48 and 64 bit addresses).			
Question:			
<ul style="list-style-type: none">o ISPRAS to review and confirm the sparseness of the implementation of memory• Does memory use of generation scale with number of locations touched or the range of (min, max)			
Answer			
In the current implementation of the simulator, memory is divided into 4KB regions which are allocated only when touched (written to).			
Check whether the current way to avoid excessive memory consumption is sufficient. This includes more intensive testing. If not, the algorithm must be reviewed.			
Basic ideas on sparse distributed memory:			
http://en.wikipedia.org/wiki/Sparse_distributed_memory			

History

#1 - 03/12/2015 08:31 AM - Alexander Kamkin

- Subject changed from [model] Memory scalability for large memory ranges (address space for 48 and 64 bit addresses) to Memory scalability for large memory ranges (address space for 48 and 64 bit addresses)

- Category set to ISA Simulator

- Target version set to 2.1

#2 - 03/19/2015 10:15 AM - Alexander Kamkin

- Category changed from ISA Simulator to 90

#3 - 03/25/2015 06:26 AM - Alexander Kamkin

- Target version changed from 2.1 to 2.2

#4 - 06/16/2015 01:12 PM - Andrei Tatarnikov

- Status changed from New to Resolved

Supported in microtesk-2.2.5-beta-150611.

Immediate values of arbitrary size will be supported in version 2.2.6 (r3871 - "Test templates: support for immediate values of arbitrary size (> 32 bit).")

#5 - 06/22/2015 10:27 AM - Andrei Tatarnikov

- Status changed from Resolved to Closed

- % Done changed from 0 to 100

