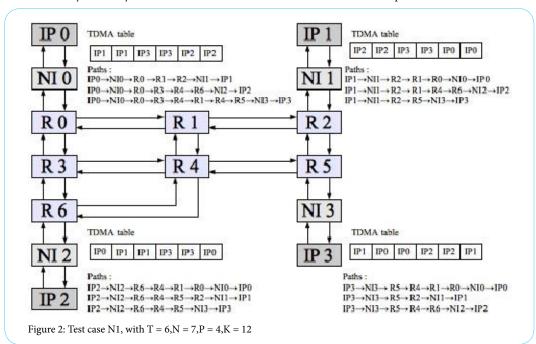
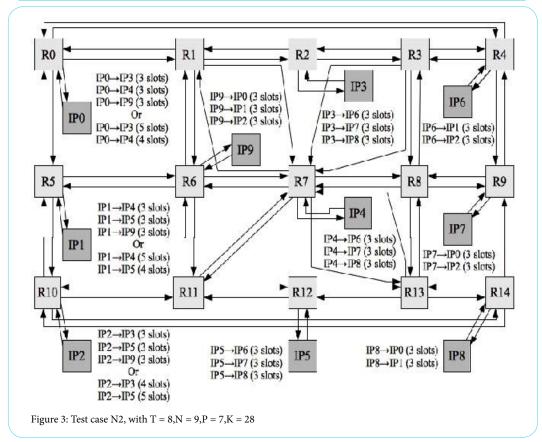
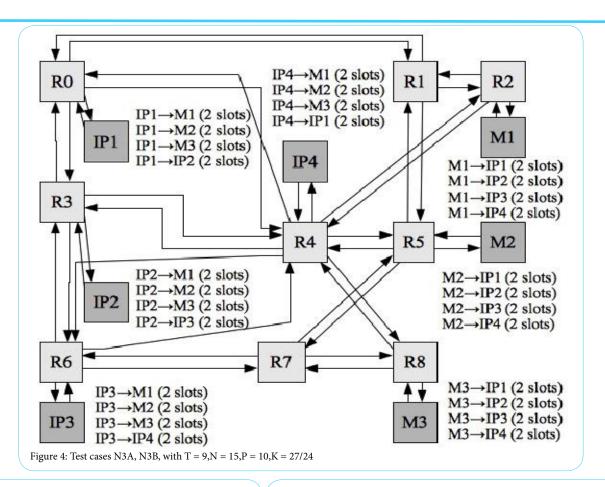
Appendix

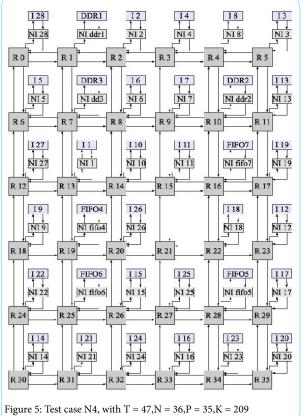
A Test cases

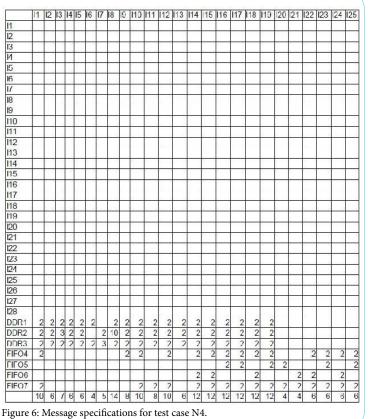
There are six test cases of increasing sizes and based on four different NoC topologies, respectively named N1, N2, N3, N4. The problems were proposed by Dafali [7] as representatives of concrete real-life applications. The instances are detailed by Figures 2-7. Four parameters characterize each instance. They are the cycle T, the number N of routers, the number P of IP components, and the number K of messages.











 $\textbf{Citation:} \ Zerbo\ B,\ Sevaux\ M,\ Rossi\ A,\ Cr'eput\ JC\ (2017)\ Optimizing\ the\ Cyclic\ K-conflict-free\ Shortest\ Path\ Problem\ in\ a\ Network-on-chip.\ Int\ J\ Comput\ Softw\ Eng\ 2:\ 115.\ doi:\ https://doi.org/10.15344/2456-4451/2017/115$

	FIFO7	FIFO6	FIFO5		DDR3			128	127	126
10	2			2	2	2	2			
(2	2	2			-
(2	2	2			
(2	2	2			
(2	2	2			
4					2		2			3
(2	2	2			
(2	2	2			
8		Rd H		2	2	2	2			
10	2			2	2	2	2			
8	2				2	2	2			
10	2			2	2	2	2			
(2	2	2	- 35		
12		2		2	2	2	2			
12		2		2	2	2	2			
12	2		2	2	2	2	2	1		
12	2		2	2	2	2	2	3 3		8
12		2		2	2	2	2			
12	2		2	2	2	2	2			
1	2		2							
4	2	2								
(2	2		2						
(2		2	2	8		- 2			
(2		2						
(2		2	2			i i			
4	2			2	0			0 0		
4	2			2						
(2	2	2			
38								2		
4								2		
4								2		
32									2	2
12										
12		3								
36									2	2
	36	12	12	32	40	38	40	6	4	4

Figure 7: Message specifications for test case N4 (end)

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