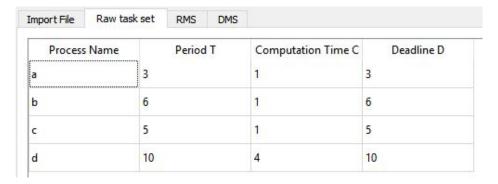
Real-Time Systems Lab $2\,$

Niklas Hollenbeck (735992), Lukas Giesler (741676)

1 Timeline output as String for RMS and DMS

RMS Timeline string	
abcd abde abc abd	
Timeline graph	
a	
b	
c	
d	
e	
5101520253035404550	556065707580859095100

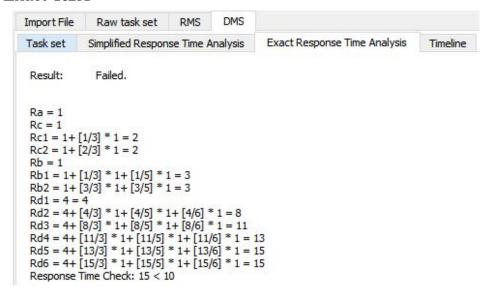
2 Response Time Analysis



2.1 Simplified RTA

Import File	Raw task set	RMS	DMS		
Task set	Simplified Response Time Analysis			Exact Response Time Analysis	Timeline
Result:	Passed.				
Rd = 4 Rb1 = 2					
Rc1 = 2 Rc2 = 3					
Ra1 = 2					
Ra2 = 3 Ra3 = 4					
Response 7	Time Check: 4 <= 1	10			

2.2 Exact RTA

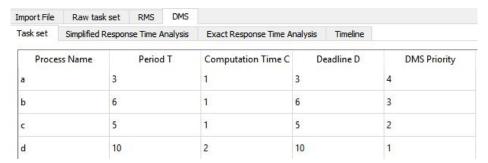


2.3 Comparing the Results

It's clear that the simplified RTA has shown a significantly different result in this example. While the simplified RTA evaluated that the analysis was passed successfully, the exact RTA evaluated that this task failed the analysis.

3 Optimal Priority Assignment using Exact RTA

3.1 Before OPA, Priority assigned by order



3.2 After OPA

