

Scheduling Report

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Report Generated on October 4, 2024

1 Introduction

Table 1: Problem

Name	Timepoints as Date	Nr Products	Nr Process	Nr Disjunctive Resources	Nr Cumulative Resources	Nr Orders	Nr Jobs	Nr Tasks
P1	true	5	5	8	1	50	50	200

2 Solution

Table 2: Relaxation of Constraints

Name	Label	Enforce Release Date	Enforce Due Date	Enforce Cumulative	Enforce WiP	Enforce Downtime	Nr Threads	Timeout (s)
Sol1	test	true	false	false	true	true	2	60
Sol2	test	true	false	false	true	true	2	60

Table 3: Solutions (Total 2)

Name	Solver Status	Objective Type	Objective Value	Bound	Gap	Makespan	Flowtime	Total Lateness	Max Lateness	Nr Late	Total Earliness	Max Earliness	Nr Early	Model Type	Time (s)
Sol1	Solution	Hybrid	243,026	114033.00	0.53	2,238	70,745	2,899	827	12	16,327	1,569	34	CPO	60.26
Sol2	Solution	OnTime	29,515	10790.00	0.63	2,862	85,227	2,779	567	9	1,725	530	18	CPO	60.07

Figure 1: Cost of Intermediate Solutions

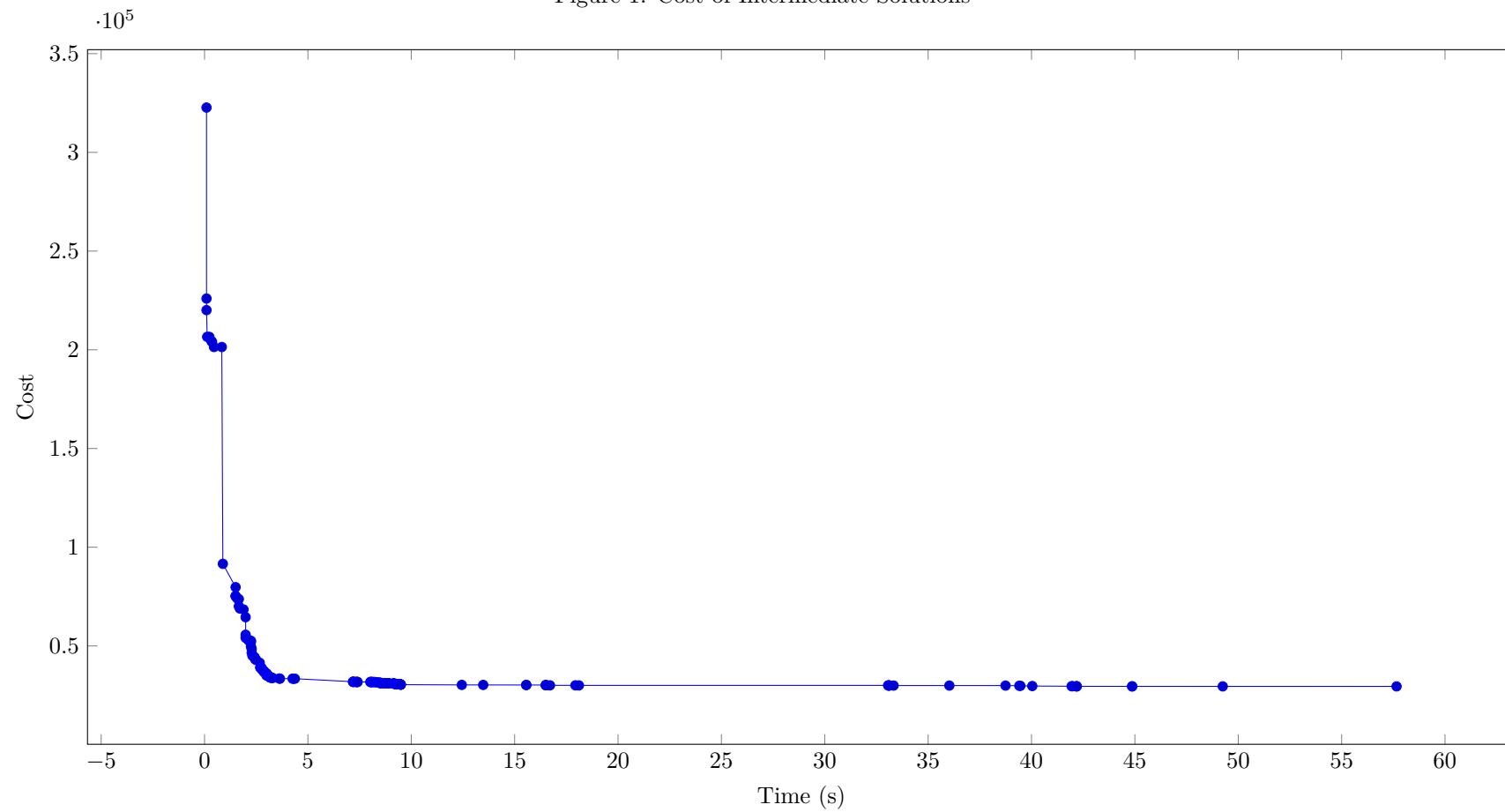


Figure 2: Machine Gantt for Solution Sol2

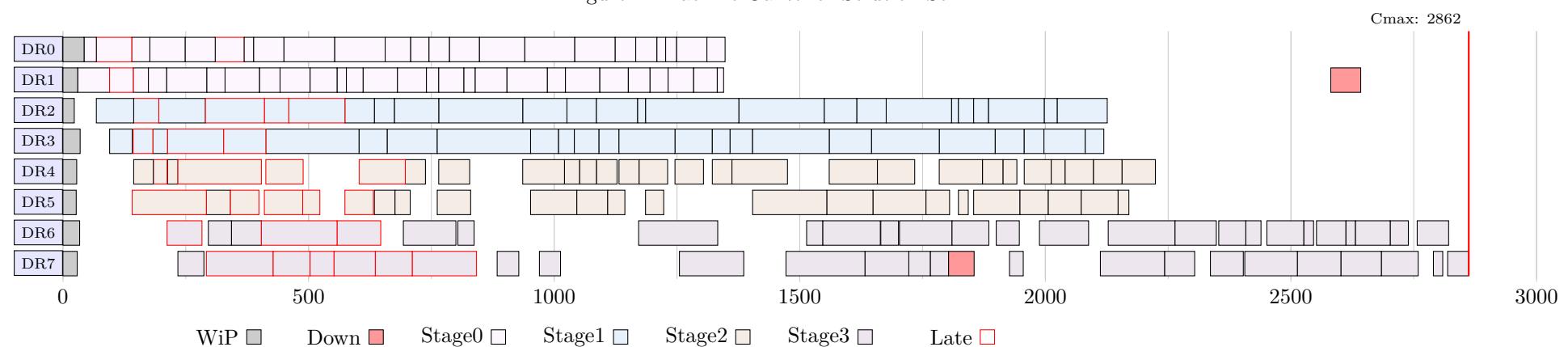


Figure 3: Job Gantt for Solution Sol2 (Part 1 of 2)

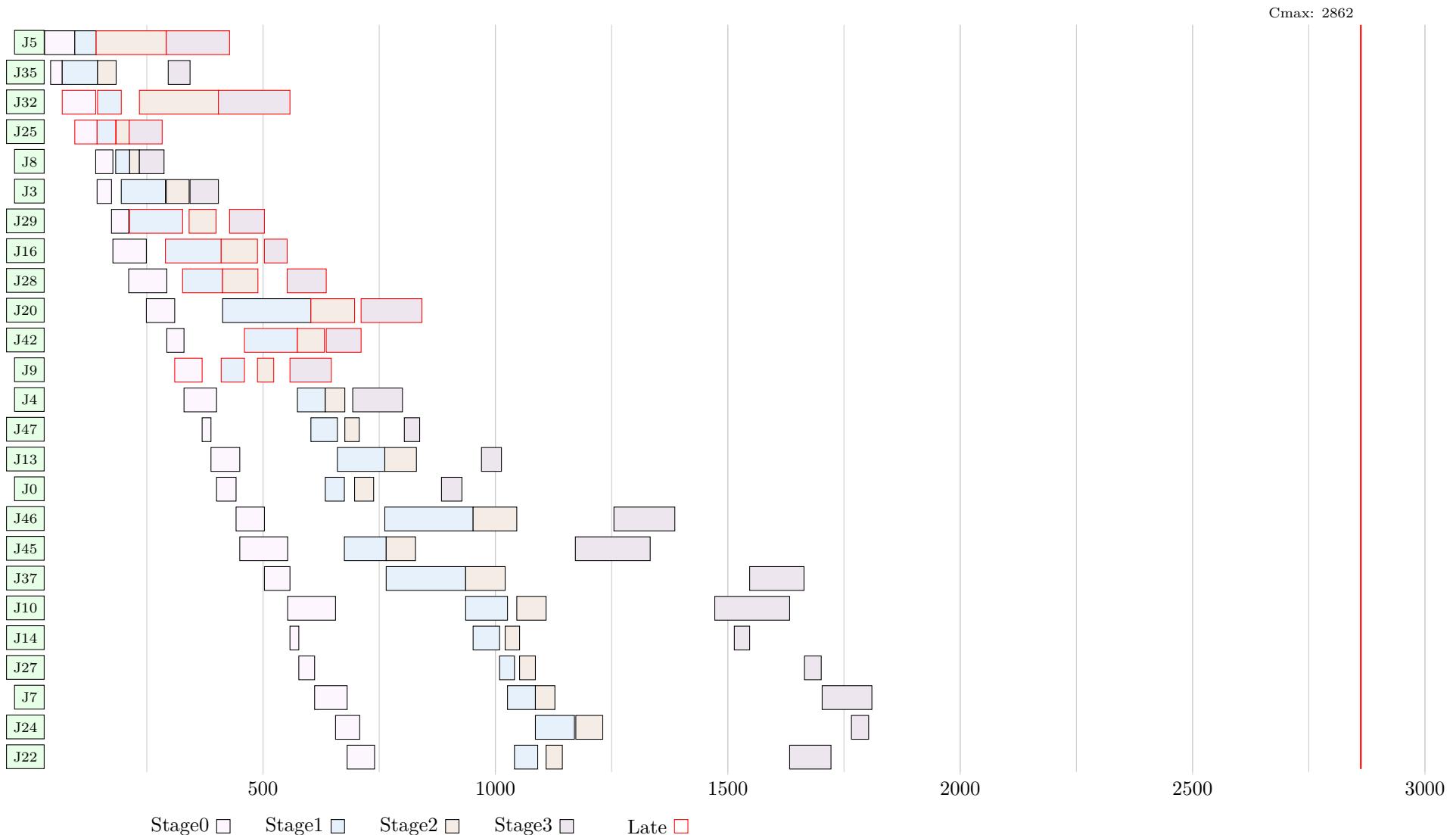
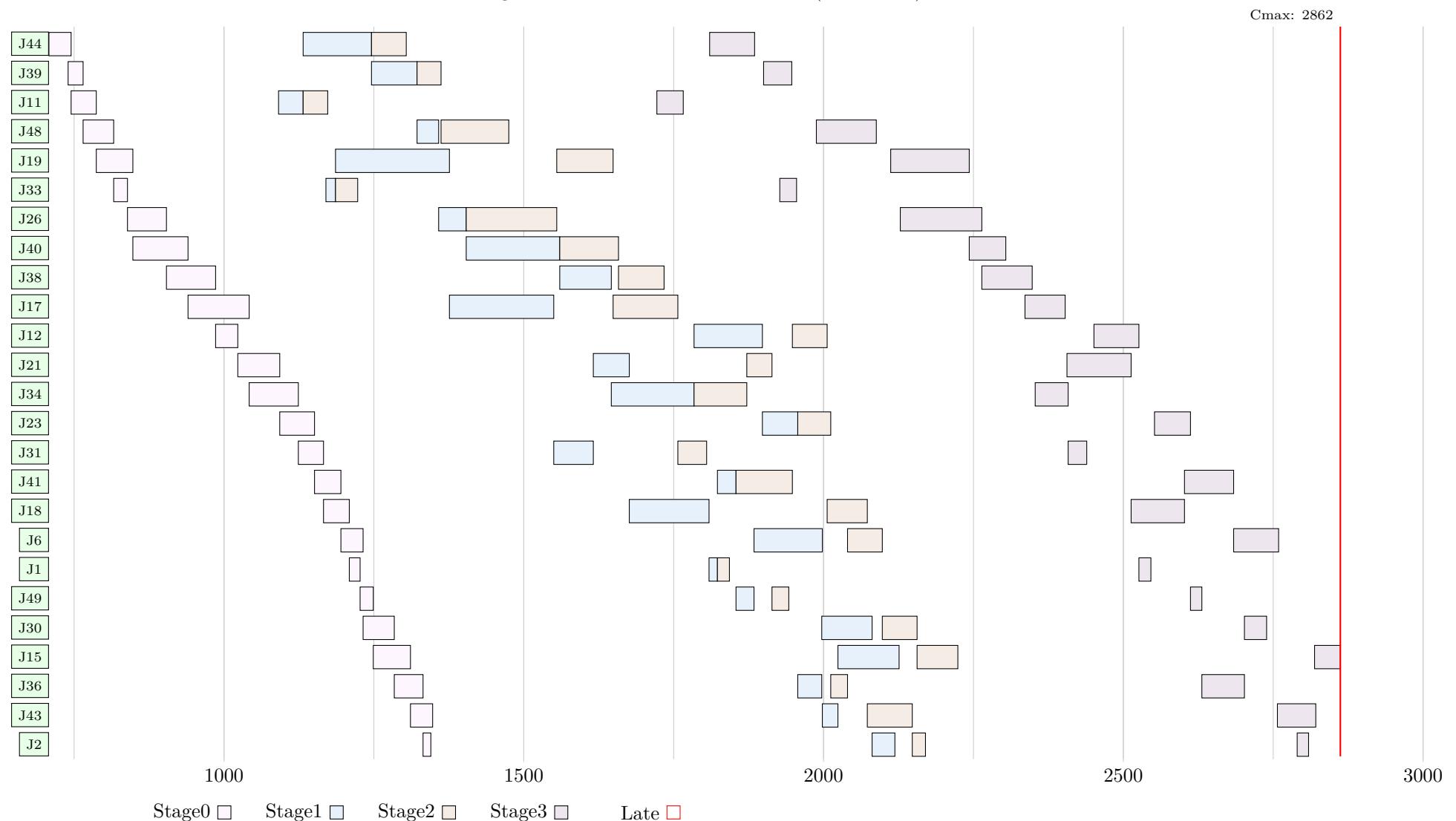


Figure 4: Job Gantt for Solution Sol2 (Part 2 of 2)



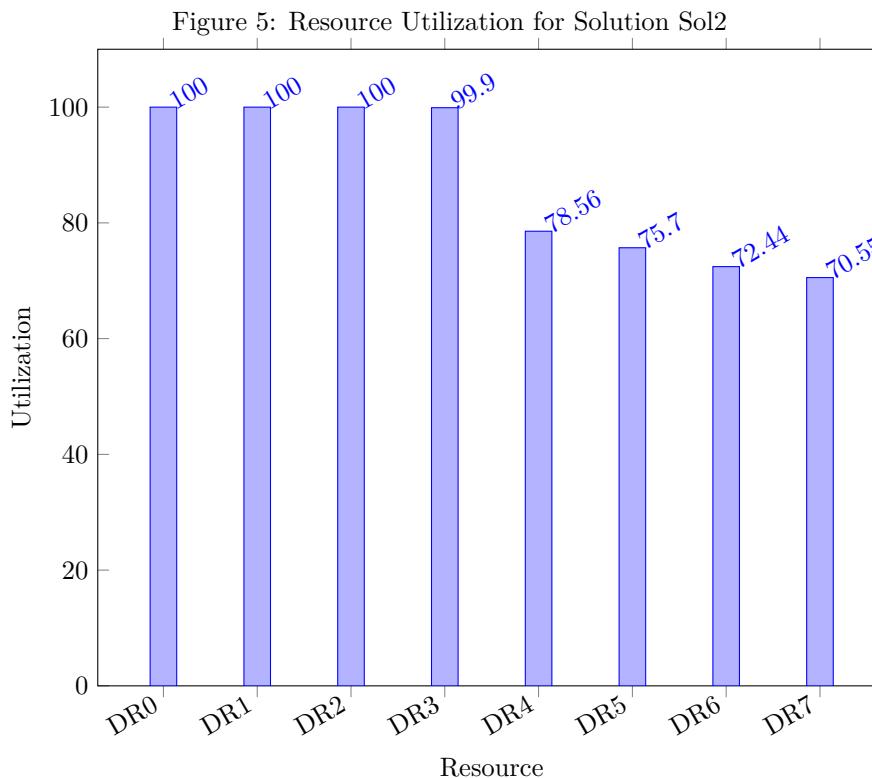


Figure 6: Cumulative Resource Use CR0

