

Scheduling Report

L. O'Toole and H. Simonis

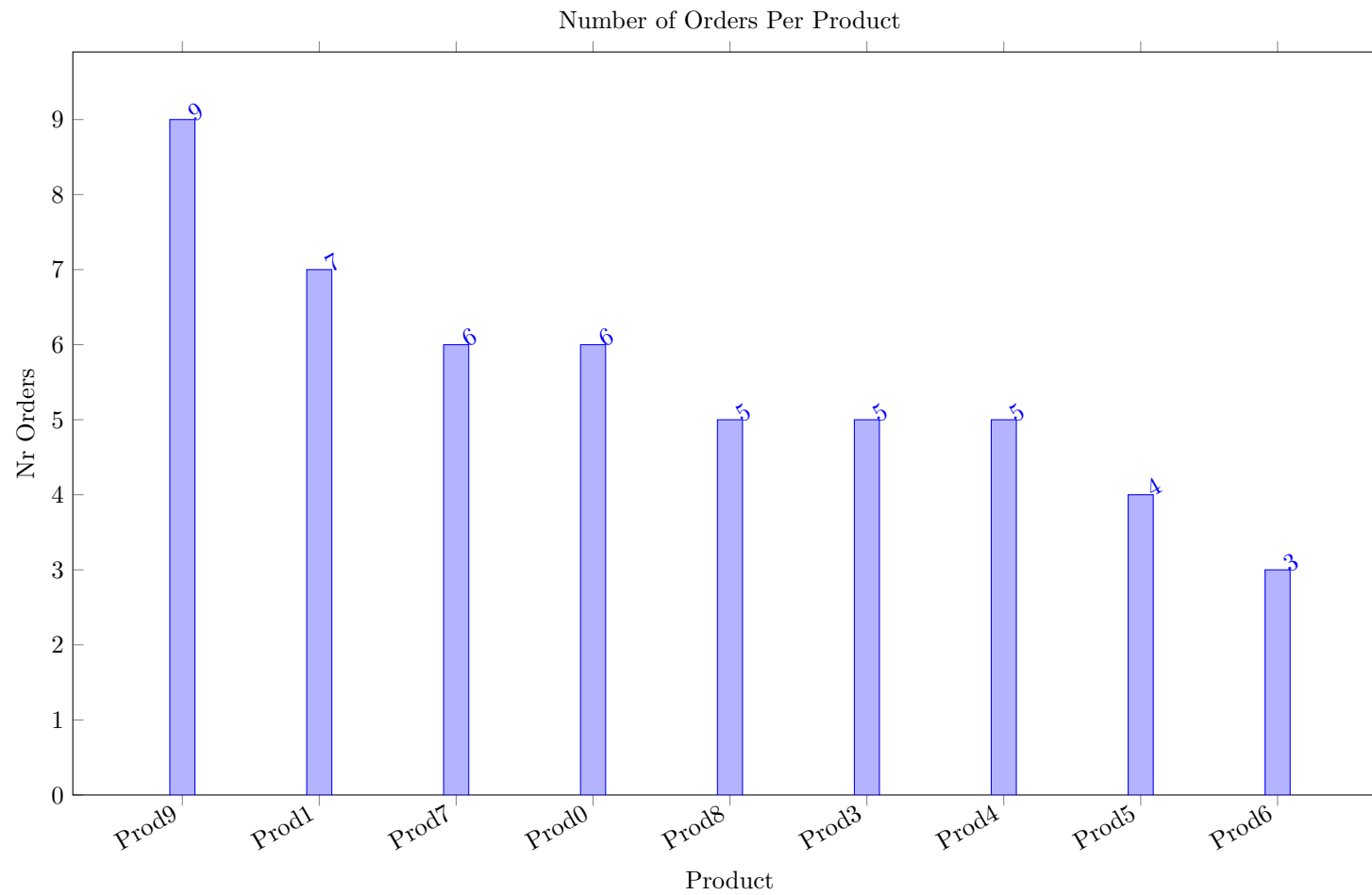
Report Generated on October 13, 2024

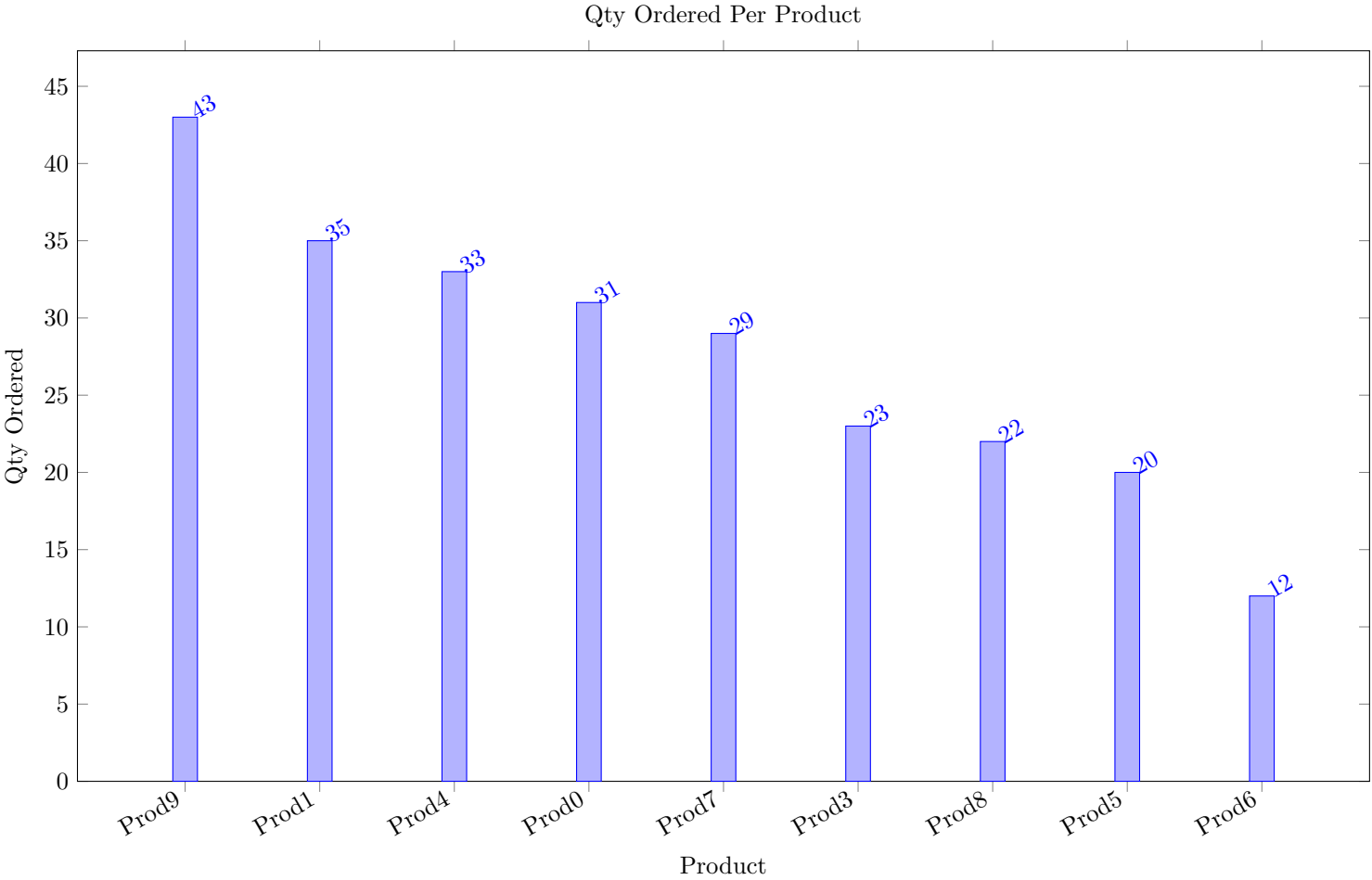
1 Introduction

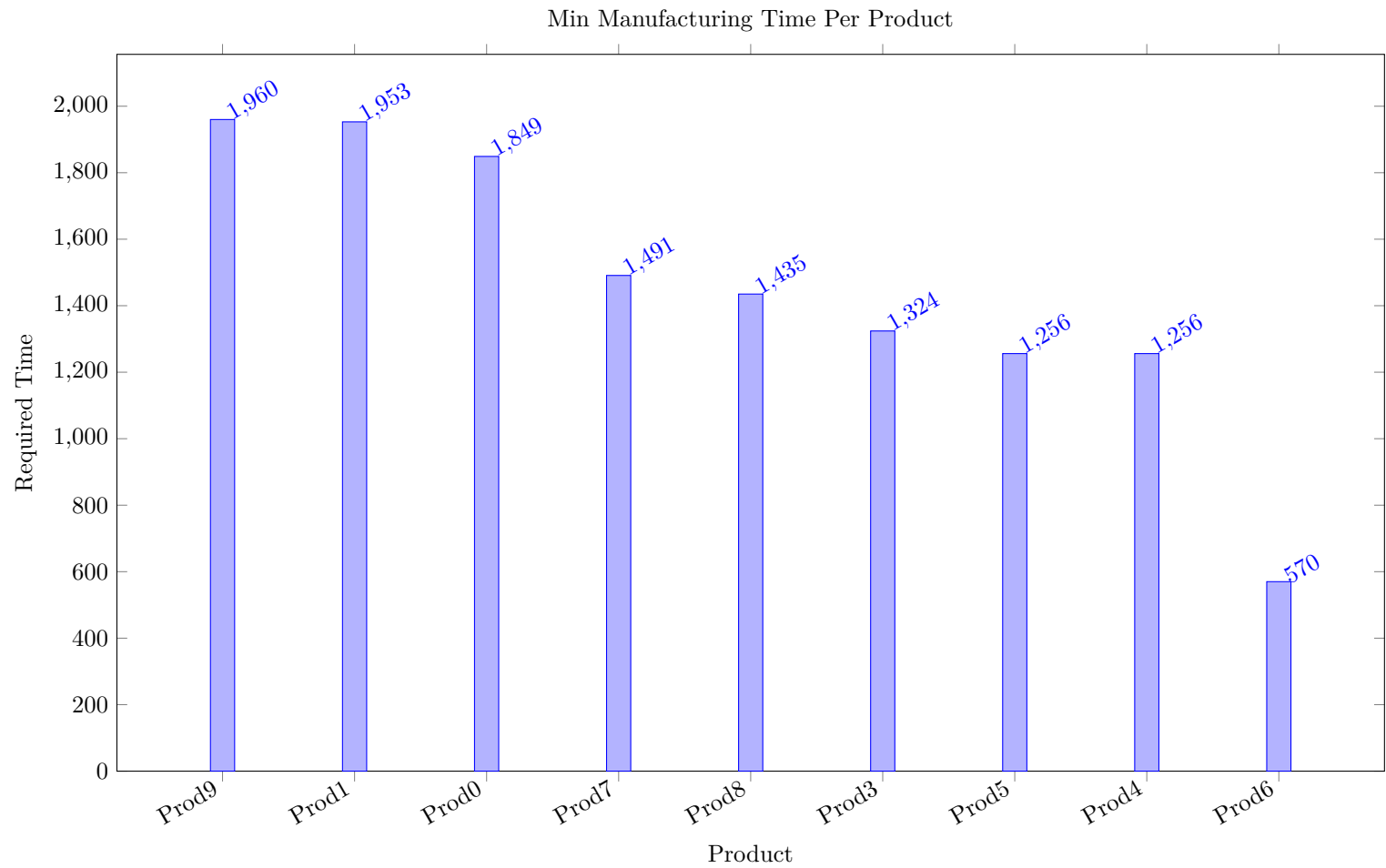
Table 1: Problem

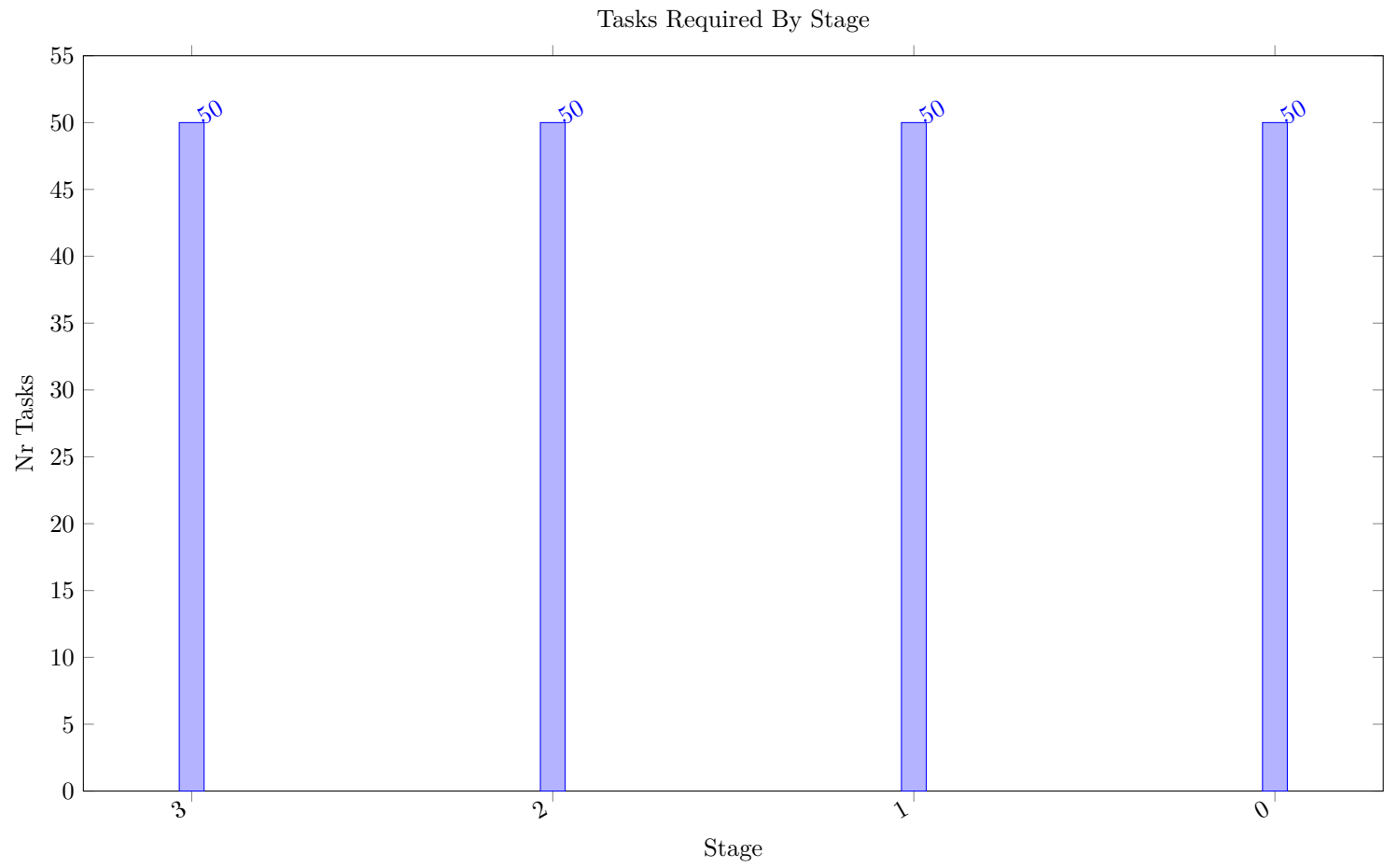
Name	Label	Timepoints as Date	Nr Products	Nr Process	Nr Disjunctive Resources	Nr Cumulative Resources	Nr Orders	Nr Jobs	Nr Tasks
Generated		true	10	10	8	1	50	50	200

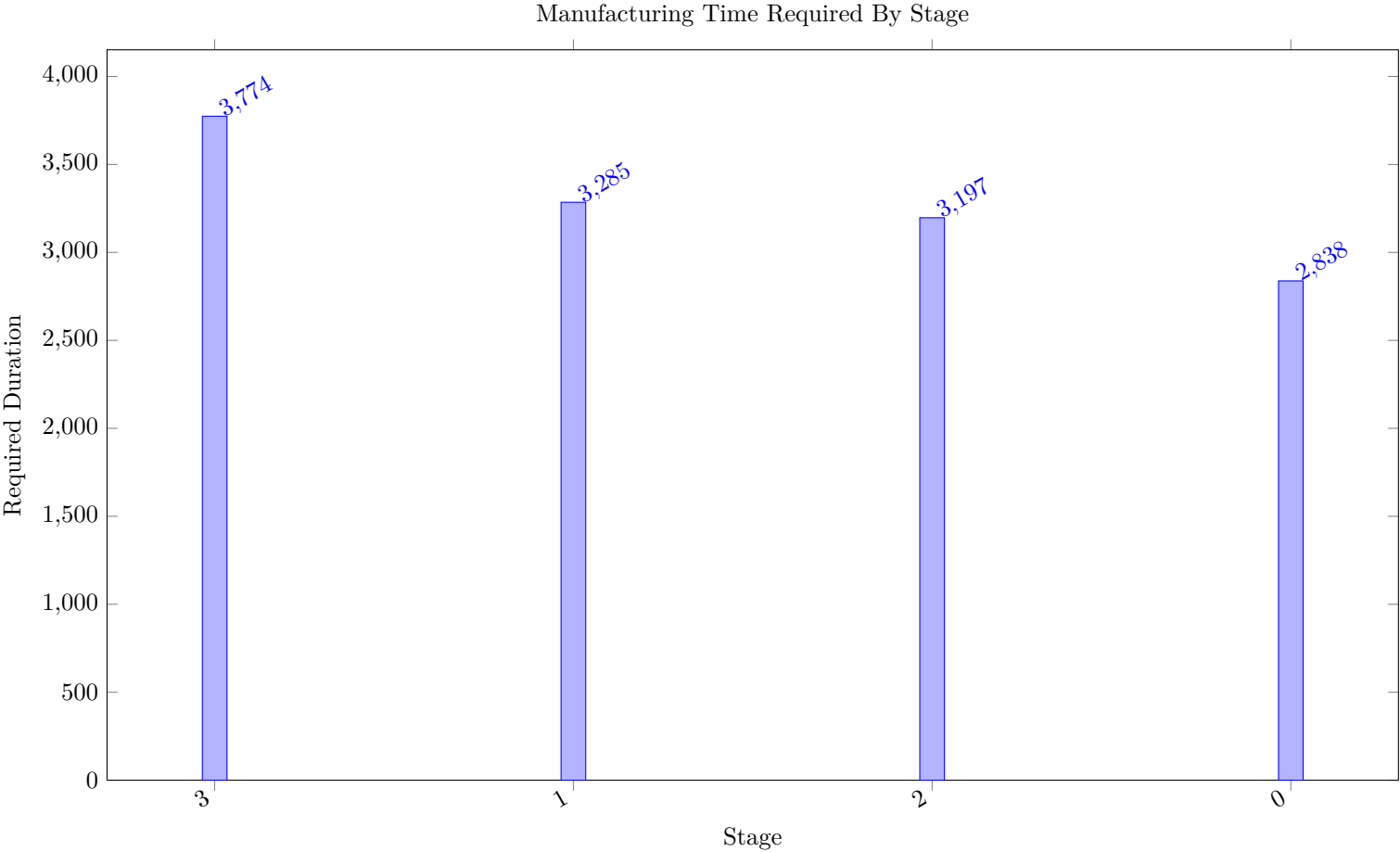
2 Orders

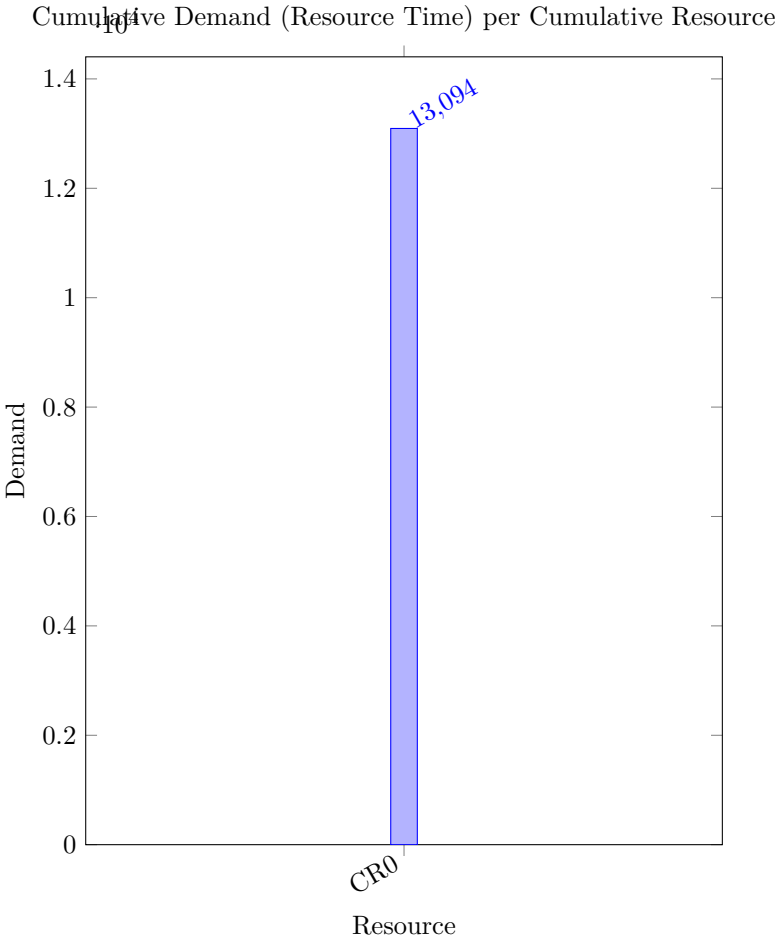


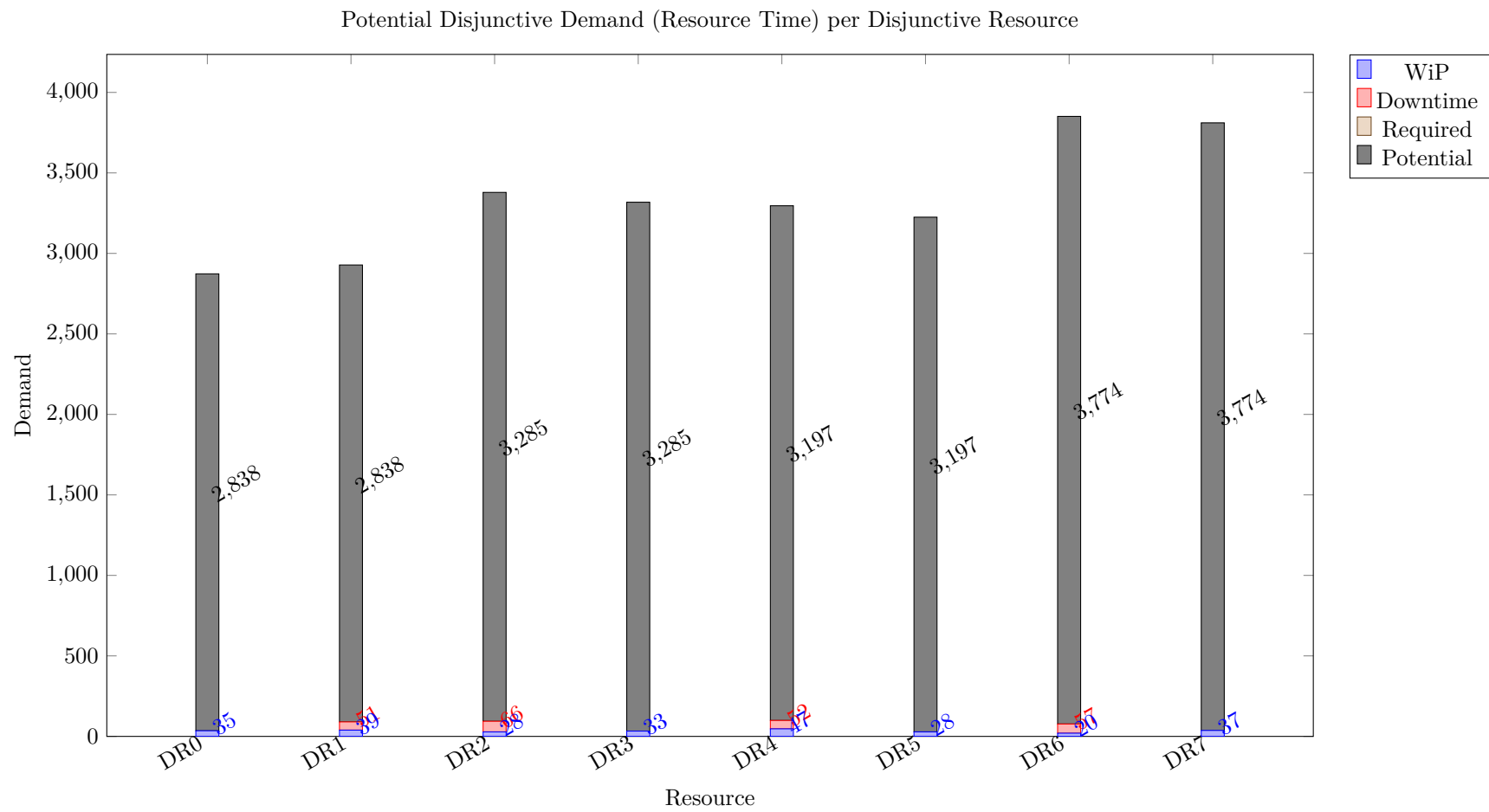












3 Solution

Table 2: Relaxation of Constraints

Name	Label	Enforce Release Date	Enforce Due Date	Enforce Cumulative	Enforce WiP	Enforce Downtime	Objective Type	Weight Makespan	Weight Flowtime	Weight Lateness	Weight Earliness	Nr Threads	Timeout (s)
Sol2		true	false	true	true	true	Makespan	1	1	1	1	2	30

Table 3: Solutions (Total 1)

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)
Sol2	Solution	Makespan	2,550	1672.00	0.34	2,550	68,972	10,461	2,104	12	96,898	5,068	38	CPO	30.07

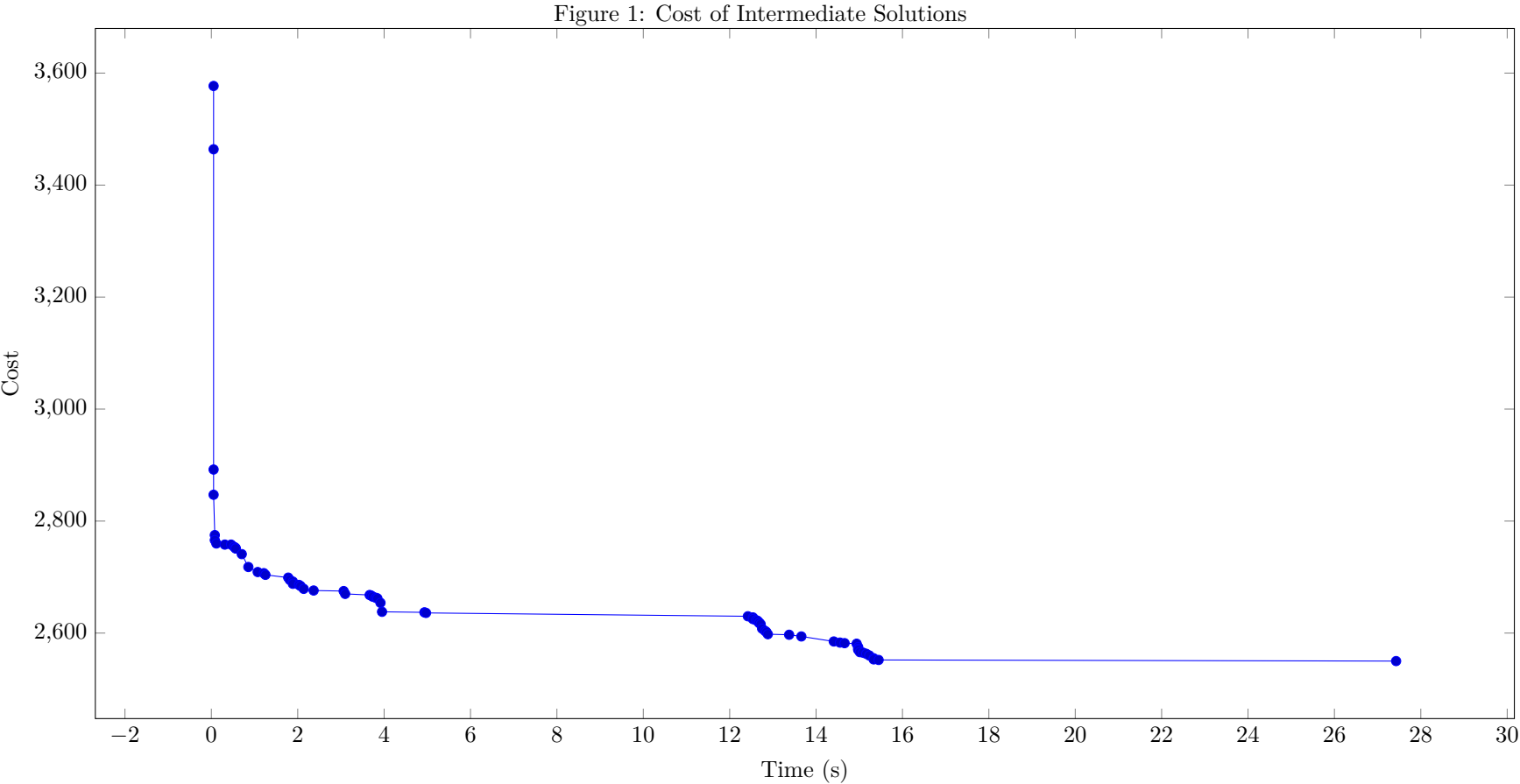


Figure 2: Machine Gantt for Solution Sol2

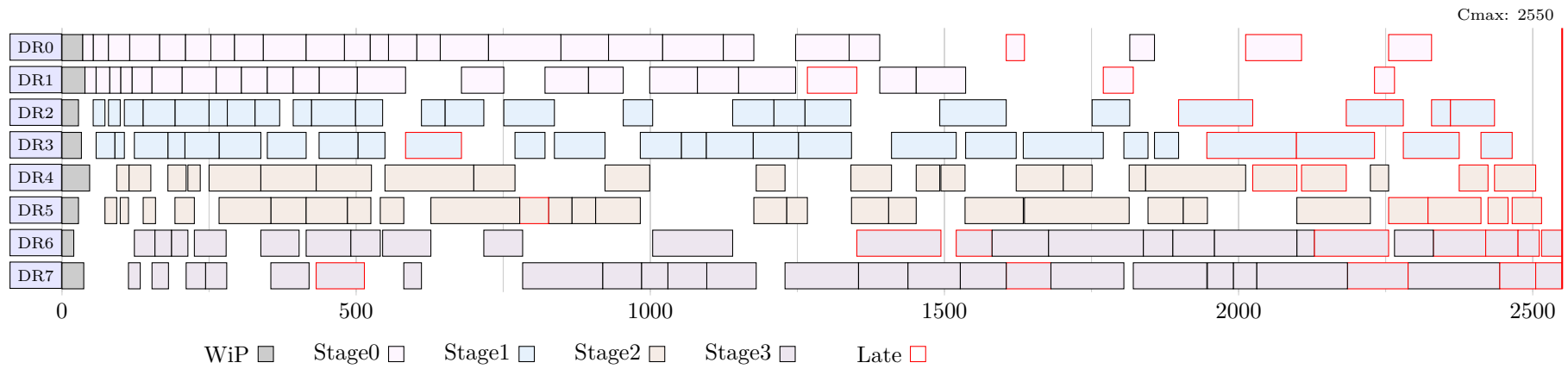


Figure 3: Job Gantt for Solution Sol2 (Part 1 of 2)

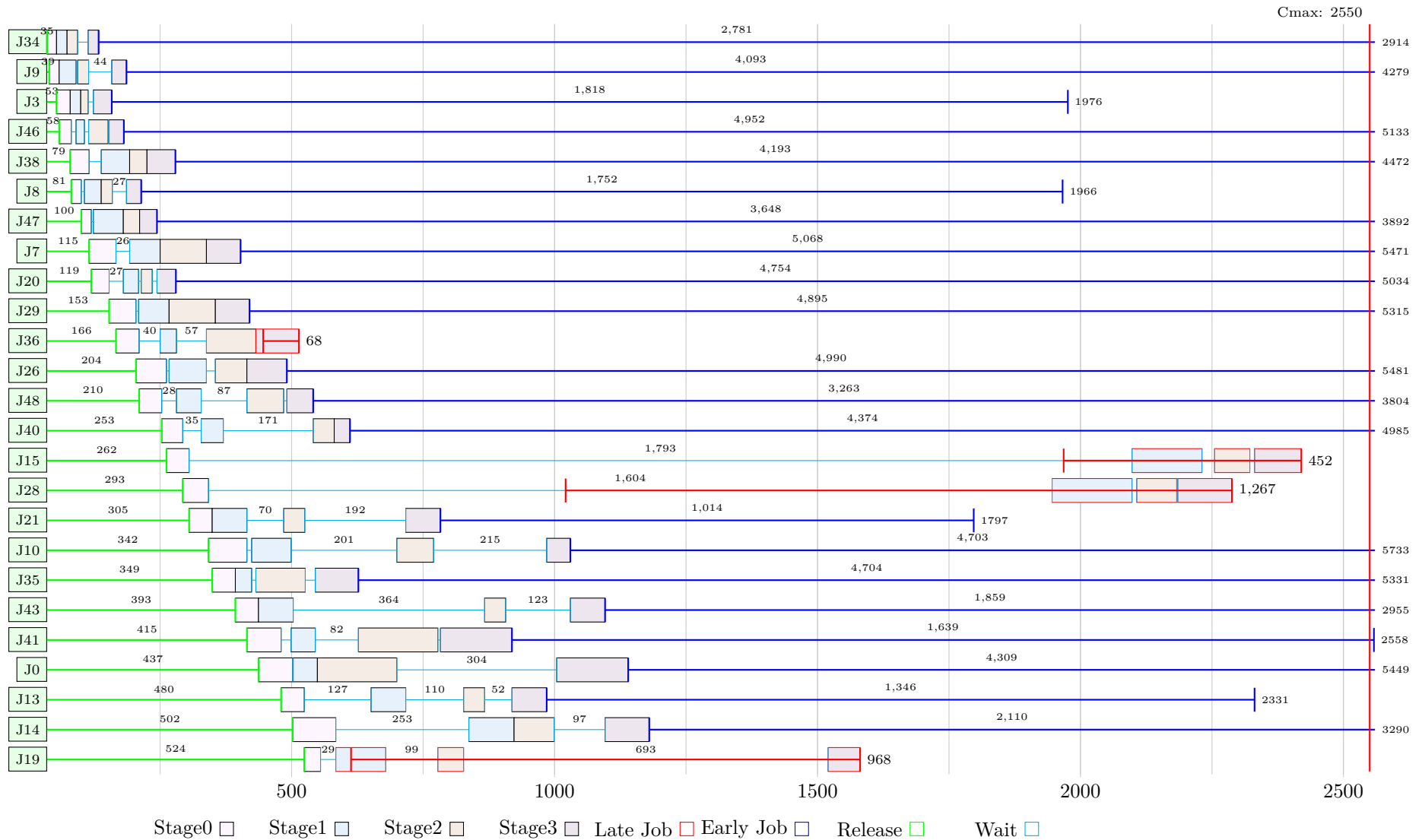


Figure 4: Job Gantt for Solution Sol2 (Part 2 of 2)

