

Scheduling Report for instance n=1000 511.alb

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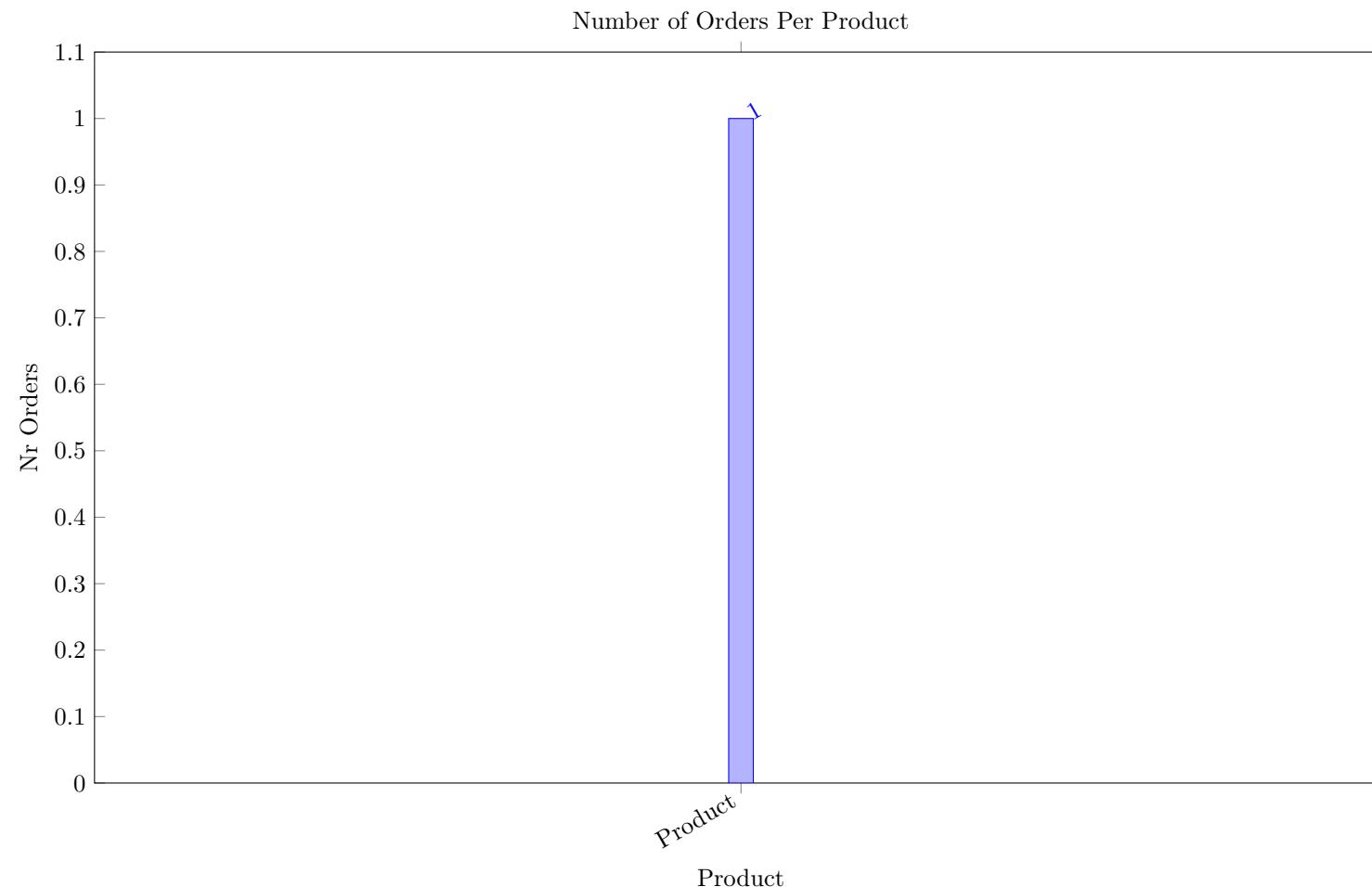
Report Generated on December 6, 2024

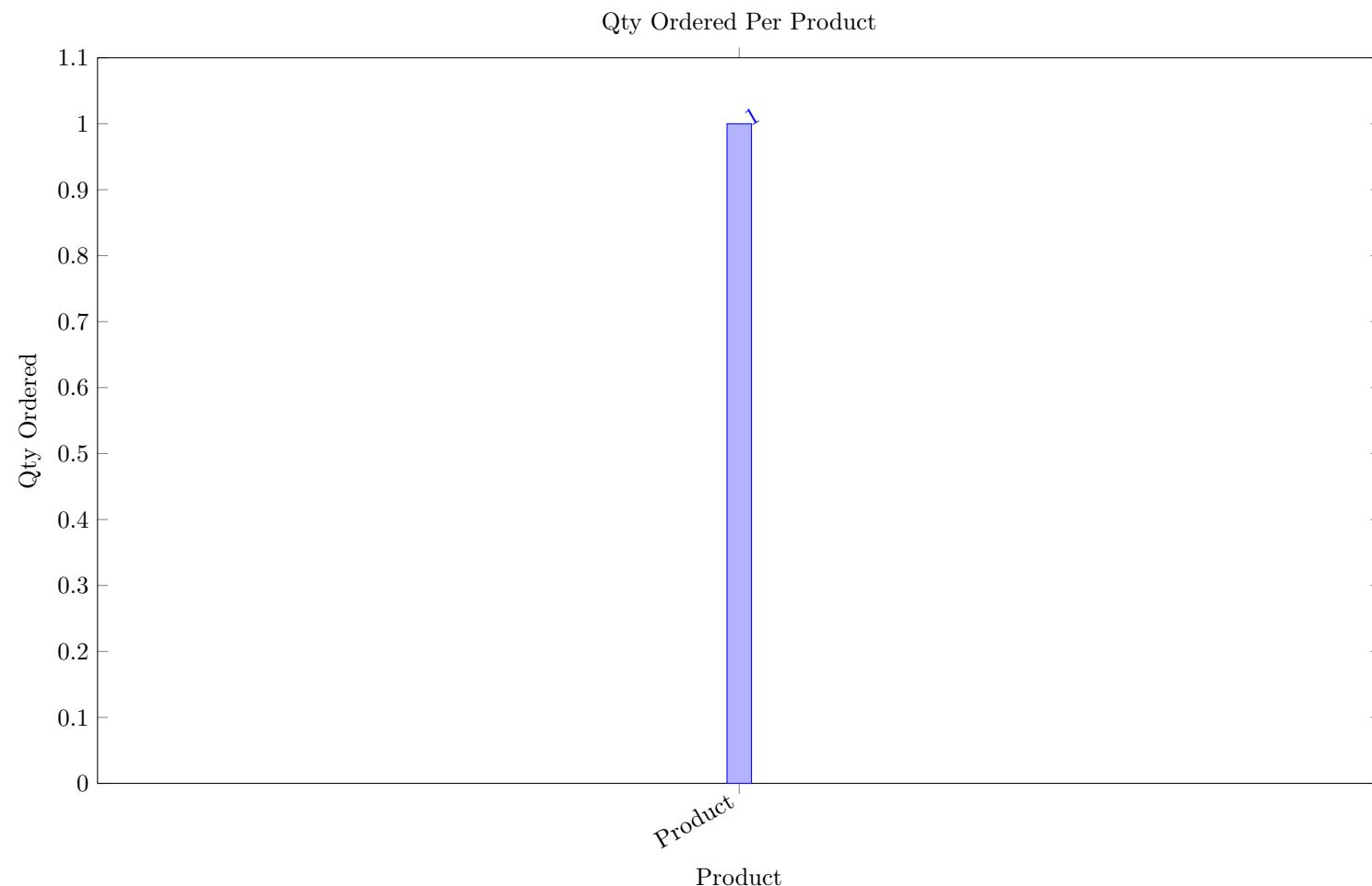
1 Introduction

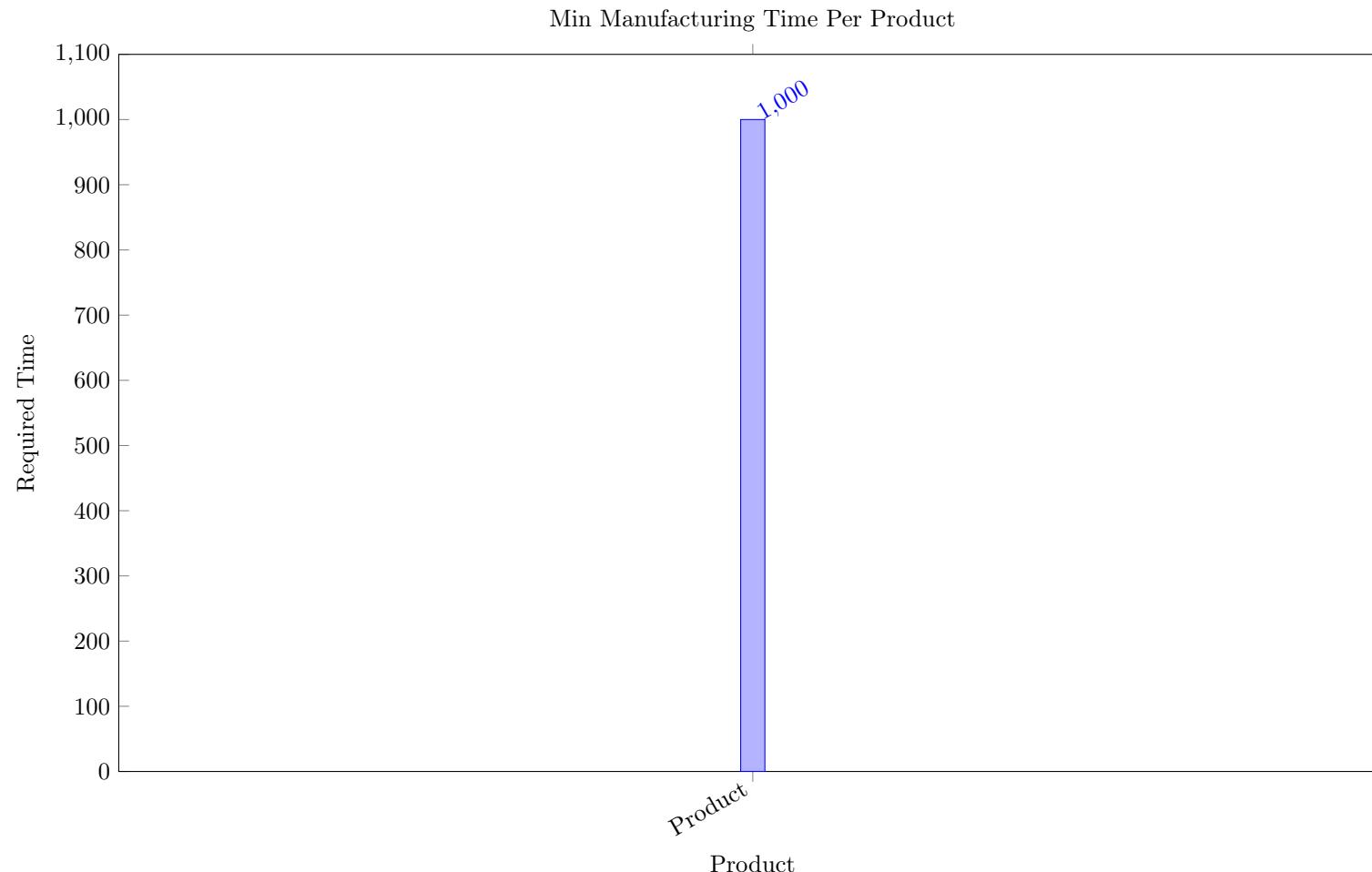
Table 1: Problem

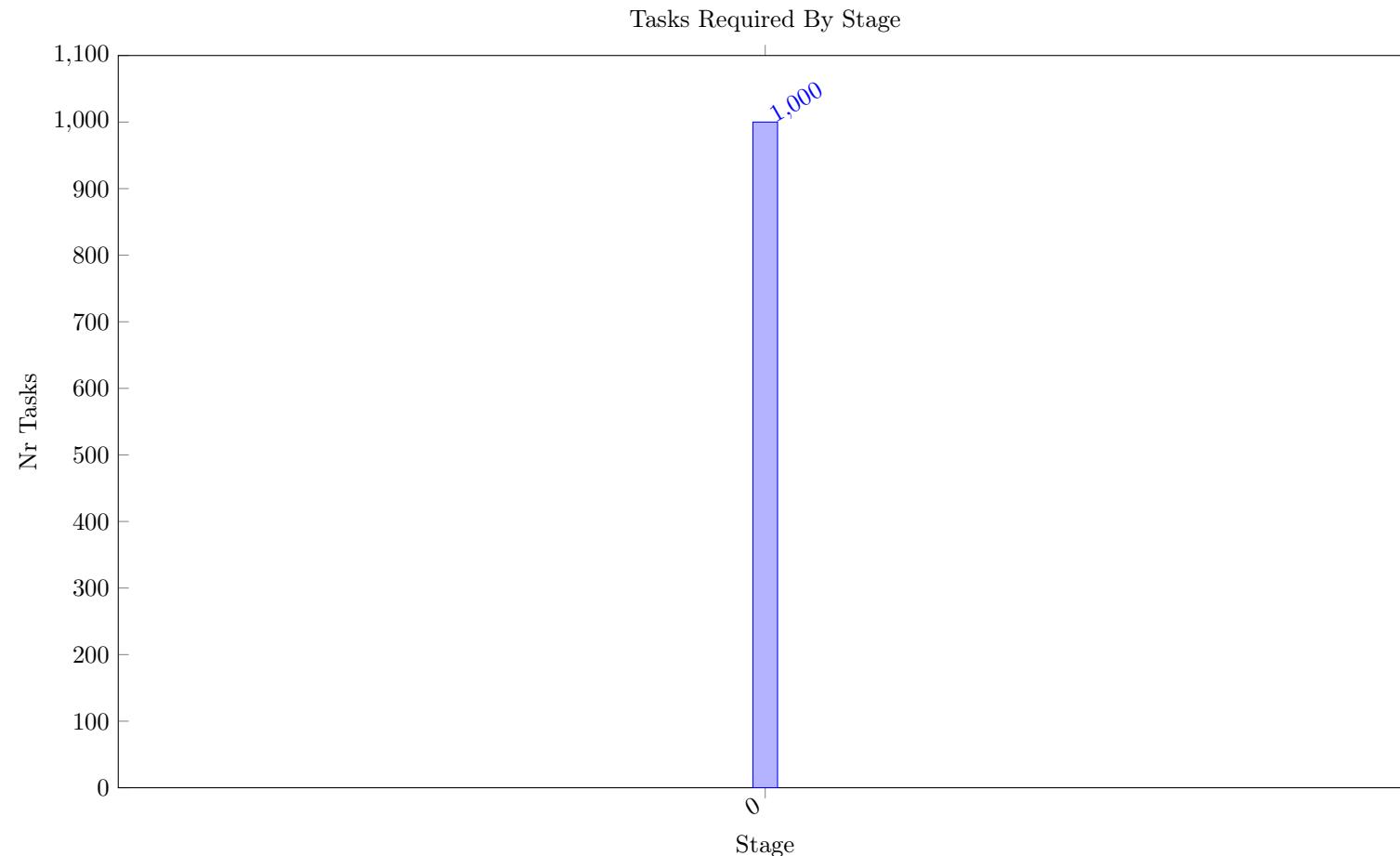
Name	Label	Timepoints as Date	Nr Products	Nr Process	Nr Disjunctive Resources	Nr Cumulative Resources	Nr Orders	Nr Jobs	Nr Tasks
Problem		false	1	1	0	1	1	1	1000

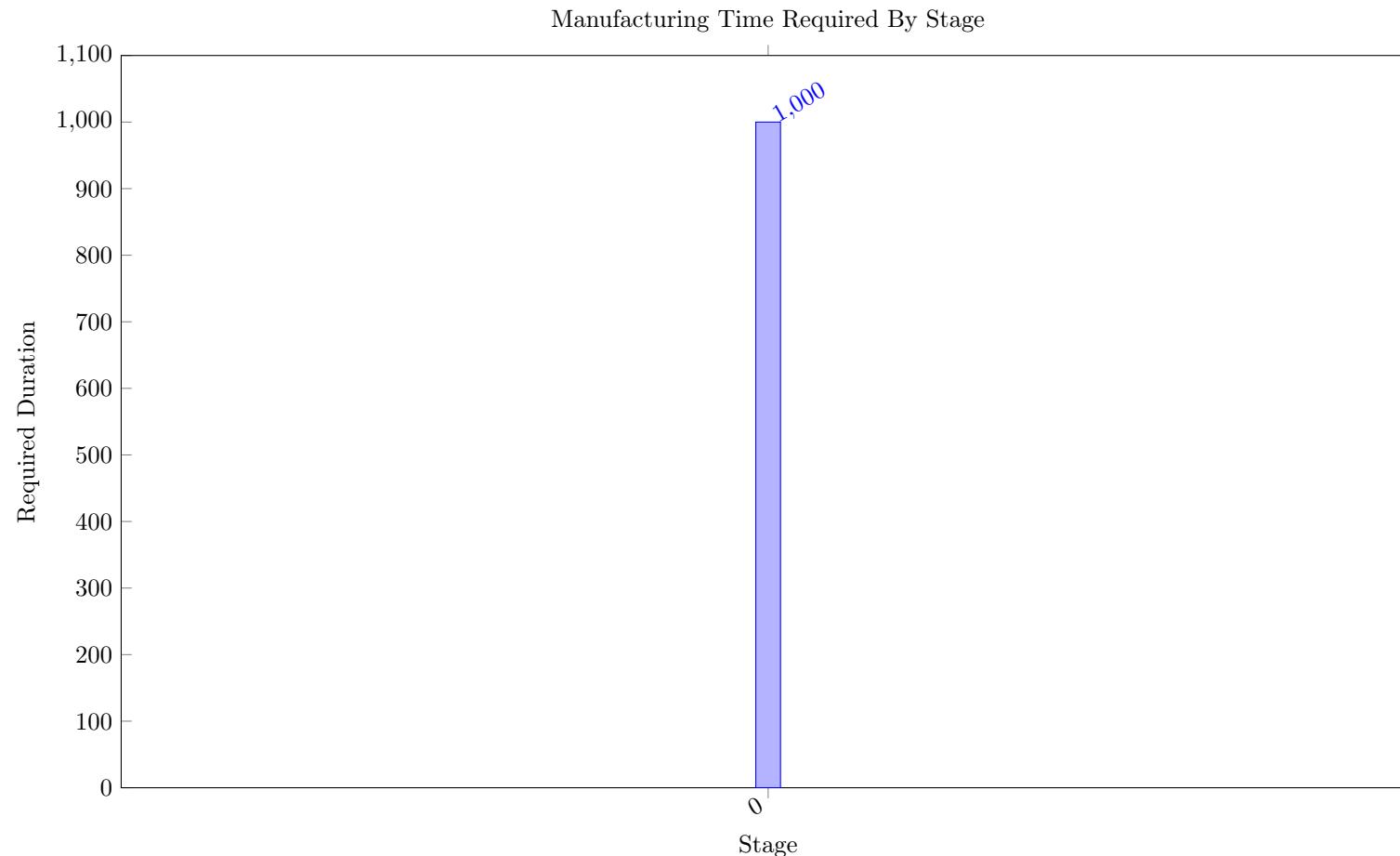
2 Orders

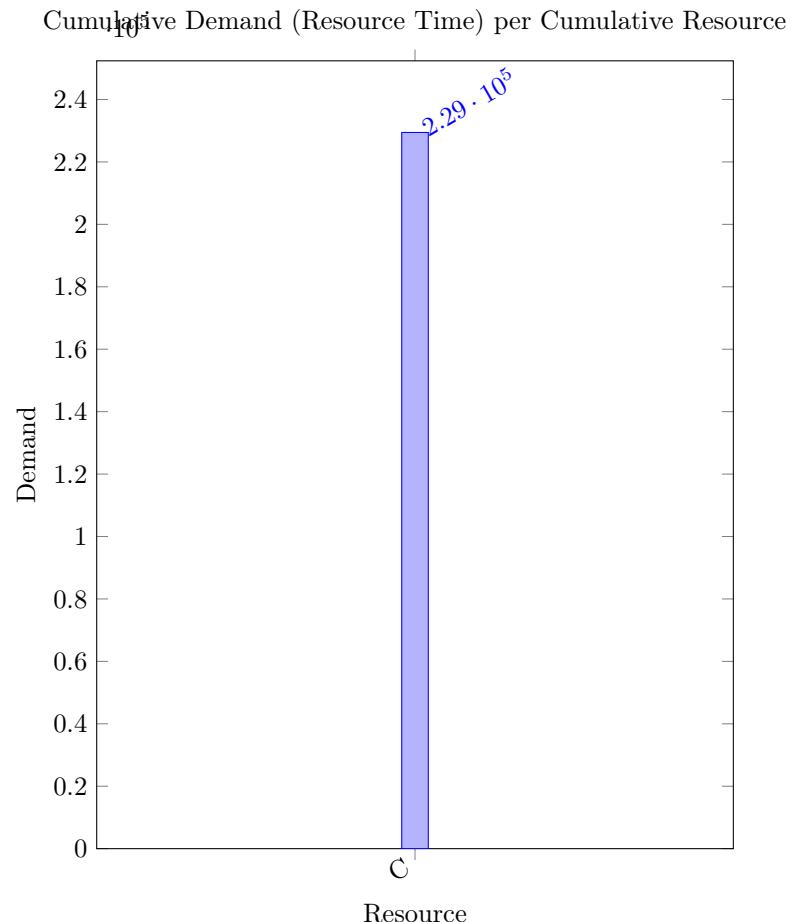












3 Solution

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)
Sol1		true	false	true	true	true	Makespan	1	1	1	1	8	30
Sol2		true	false	true	true	true	Makespan	1	1	1	1	8	30

Table 3: Solutions (Total 2)

Name	Solver Status	Objective Type	Objective Value	Gap Bound	Gap Percent	Makespan	Flowtime	Total Lateness	Max Lateness	Nr Late	Total Earliness	Max Earliness	Nr Early	Model Type	Time (s)
Sol1	Solution	Makespan	237	230.00	2.95	237	237	237	237	1	0	0	0	CPSat	30.07
Sol2	Solution	Makespan	238	224.00	5.88	238	238	238	238	1	0	0	0	CPSat	30.06

Figure 1: Cost of Intermediate Solutions

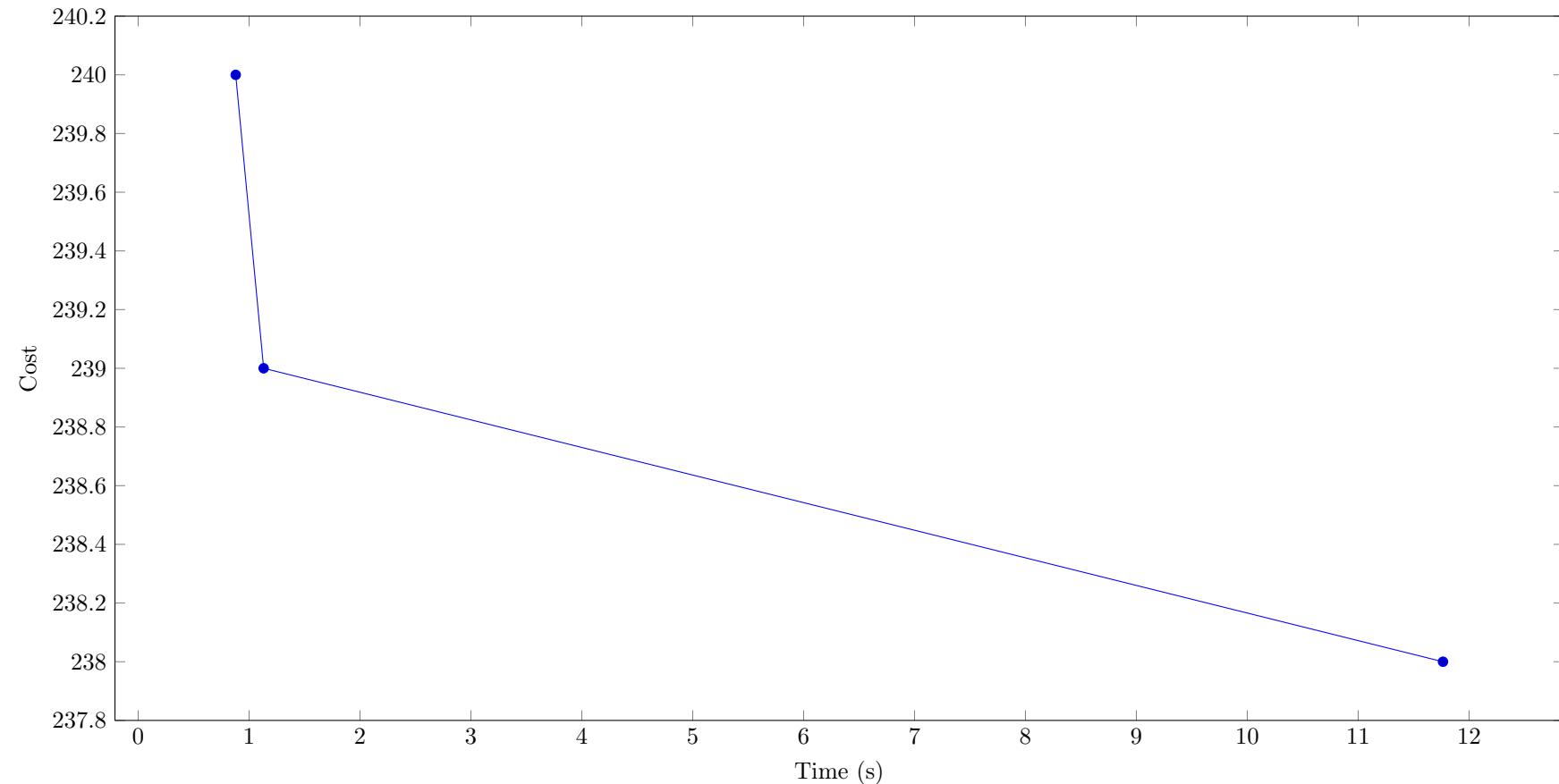


Figure 2: Job Gantt for Solution Sol2

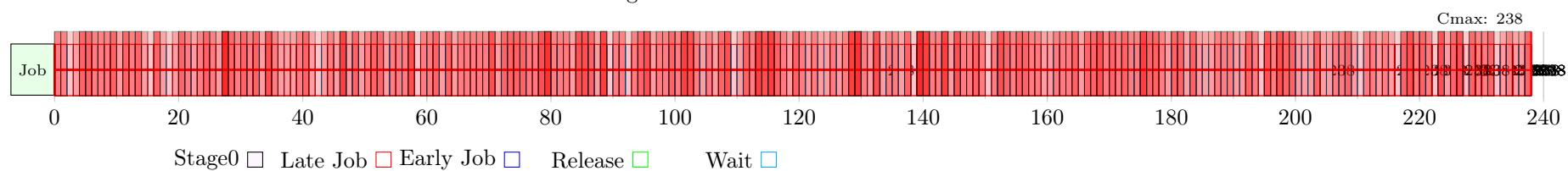
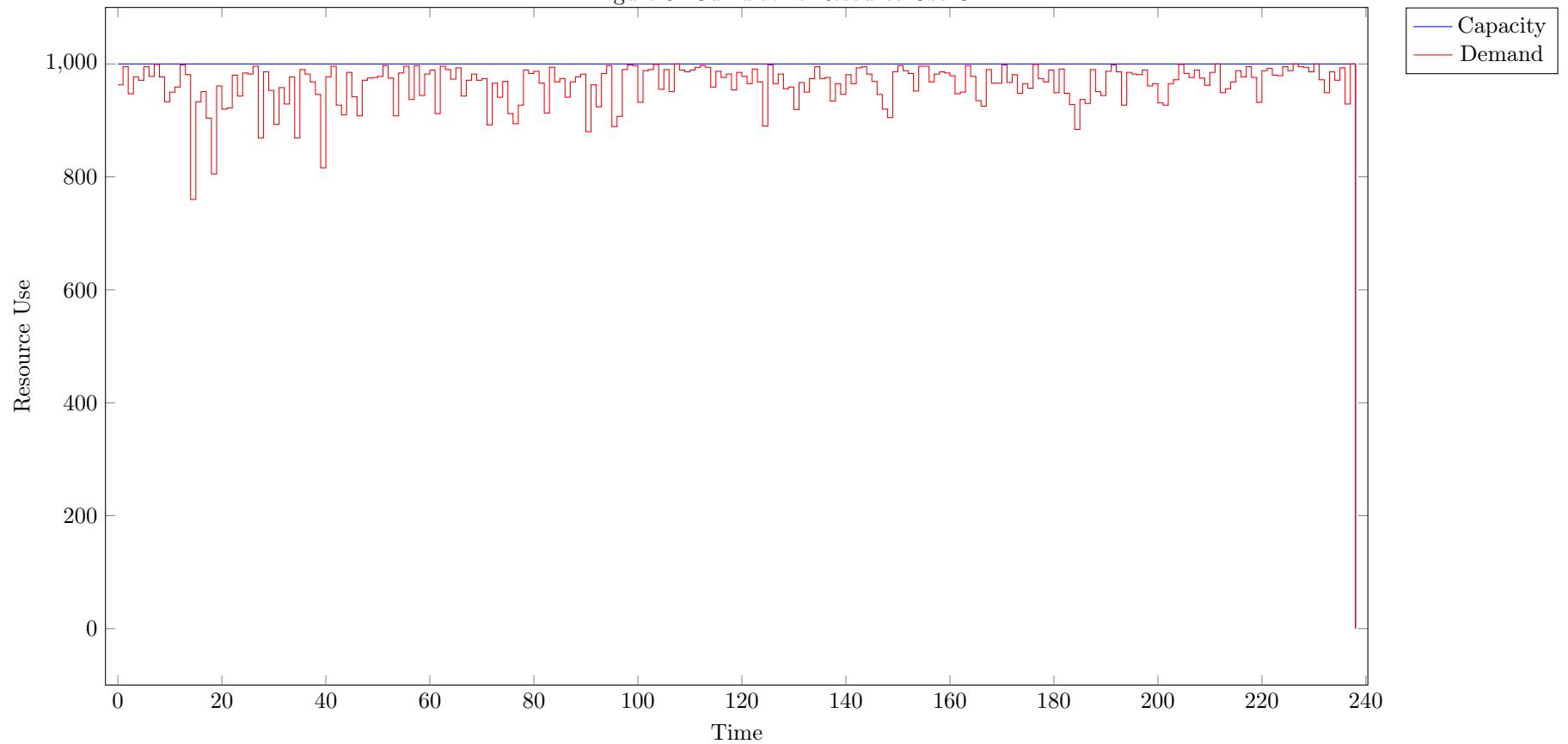


Figure 3: Cumulative Resource Use C



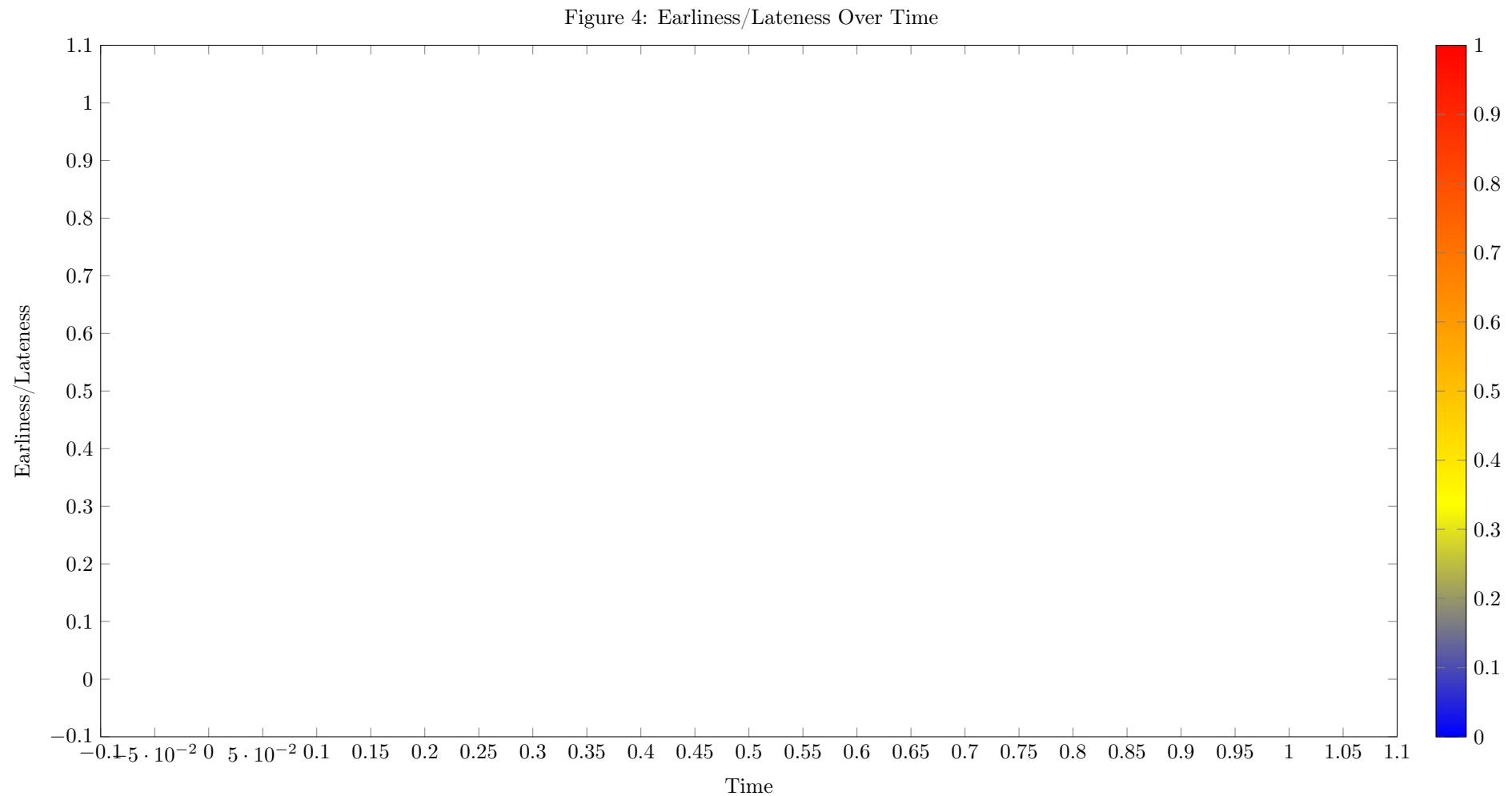


Figure 5: Placement for C

