

# Scheduling Report

L. O'Toole and H. Simonis

Report Generated on October 8, 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	JSON Doc	true	1	1	1	1	1	1	2

## 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		true	false	true	true	true	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)
Sol1	Optimal	Makespan	163	163.00	0.00	163	163	0	0	0	1,832	1,832	1	CPO	0.09

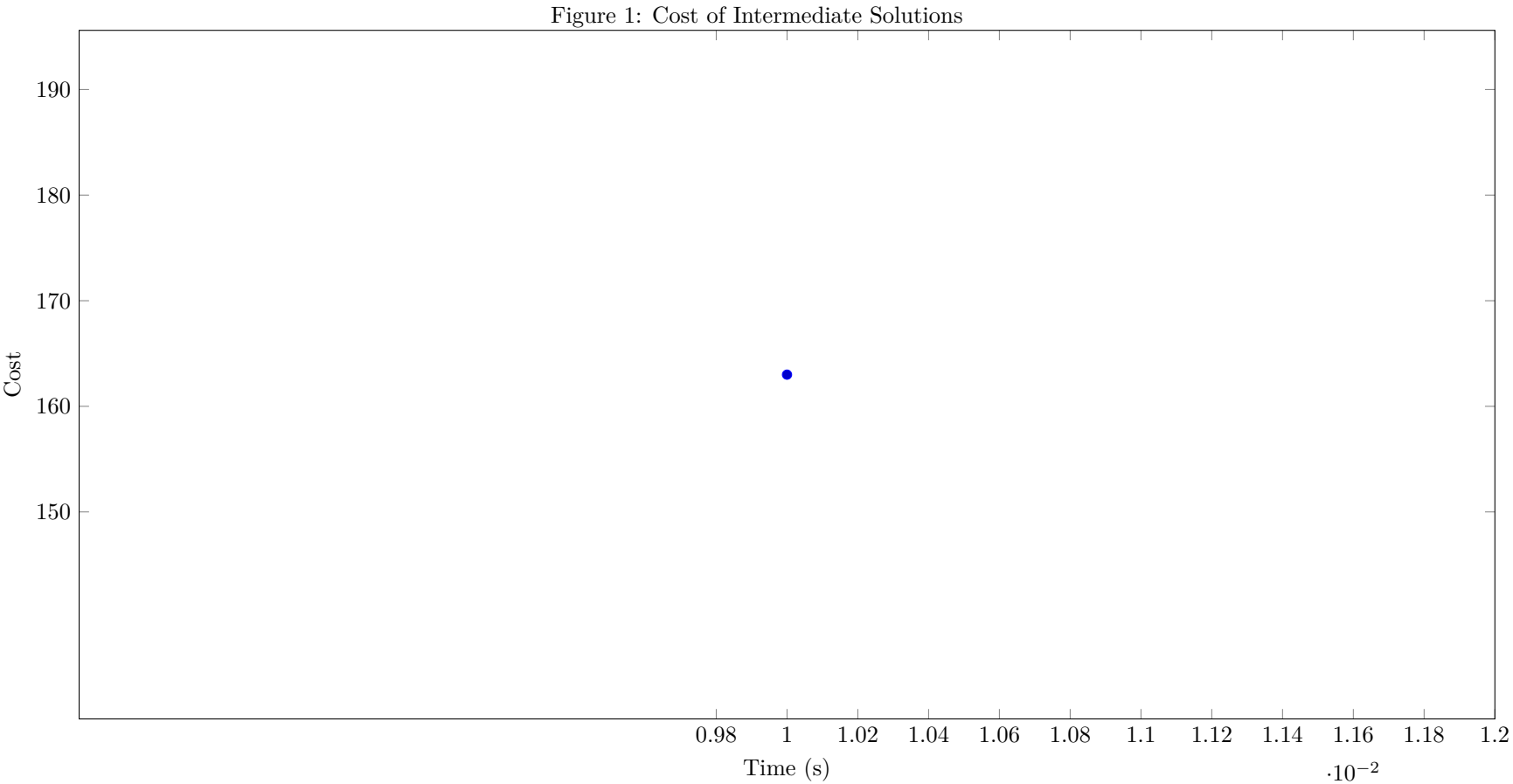


Figure 2: Machine Gantt for Solution Sol1

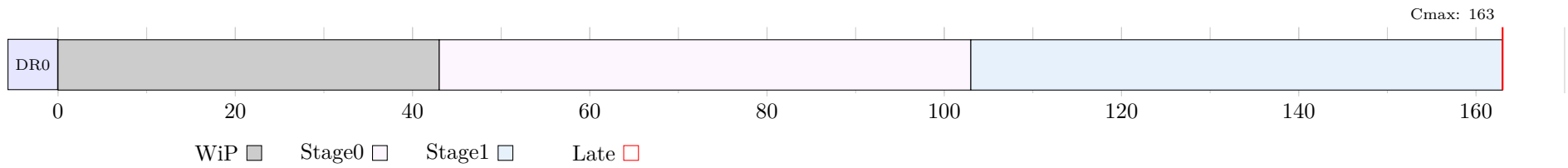


Figure 3: Job Gantt for Solution Sol1

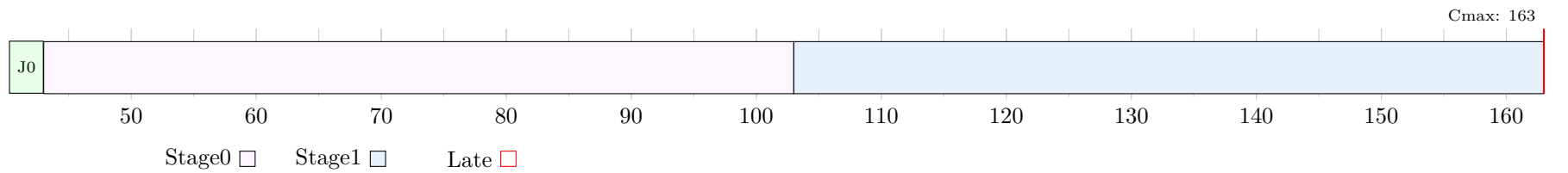
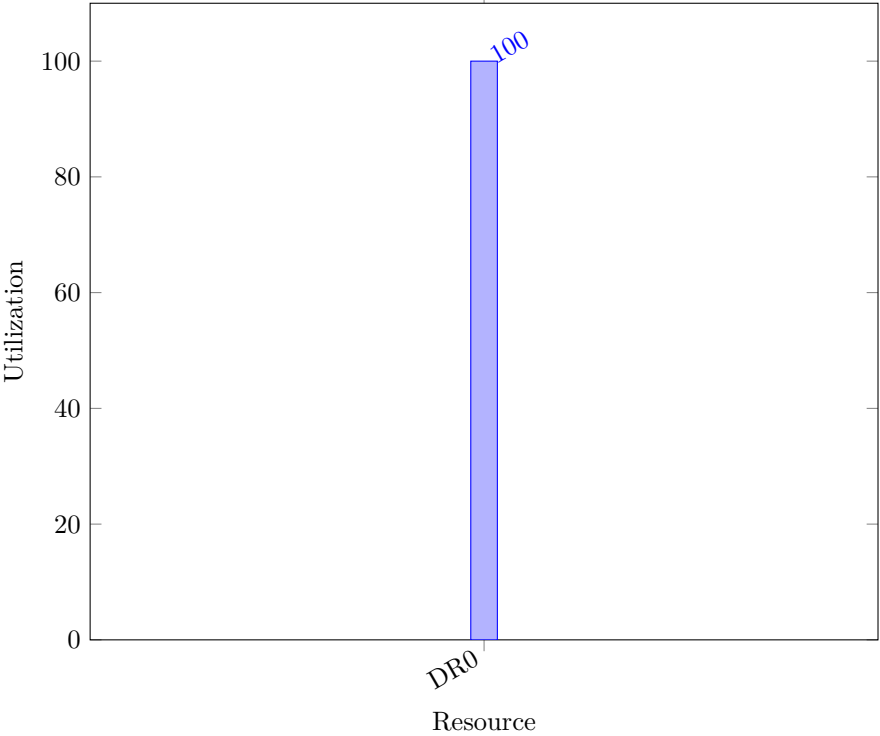


Figure 4: Resource Utilization for Solution Sol1



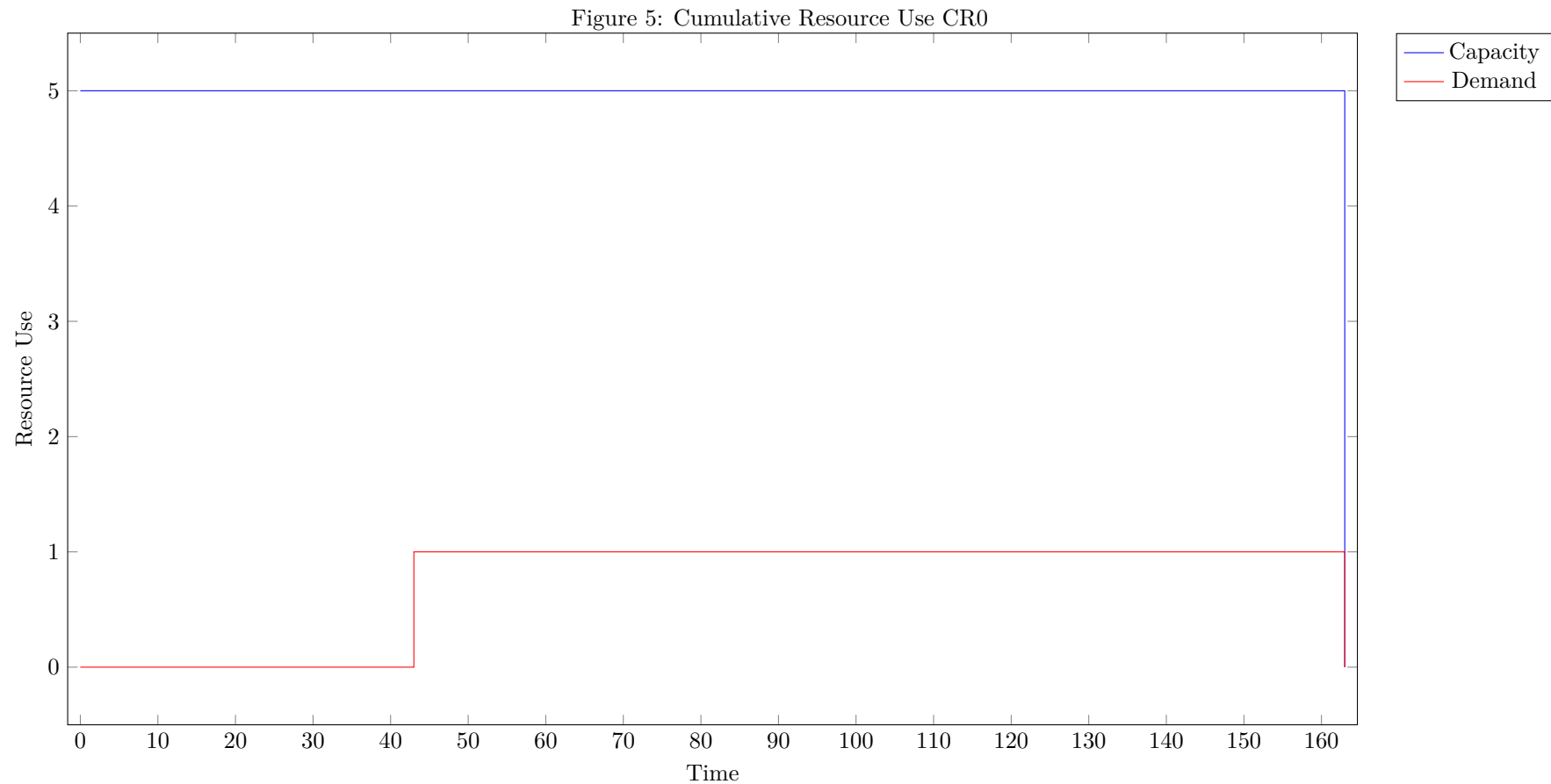


Figure 6: Earliness/Lateness Over Time

