

IE 516 – Manufacturing Planning and Control

Fall 2014

Home Work # 3

Q1. Show that if an optimal schedule for problem $P \parallel C_{\max}$ results in at most 2 jobs on any machine, then the LPT-rule is optimal

Q2. Proof that problem $P \parallel \sum w_j C_j$ is NP-hard in the strong sense by reducing 3-PARTITION to it.

Q3. Problem 5.1, 5.2, 5.4, 5.5, 5.8, 5.10 and 5.13 form Pinedo Book.