

CEE 536
RESOURCE LEVELING
PROBLEM SET 8

P.G. Ioannou
Fall 2025

November 6, 2025
Due: November 13, 2025

1. Use Wiest's algorithm to solve the Limited Resource Allocation problem for the precedence network shown below. Assume that the available number of resources on any given day is 8 units. Which activities are critical in the final schedule? Why?
2. Level the resource profile for the network shown below using the Minimum Moment Algorithm.
 - Use the link matrix to update floats (FF, TF).
 - Compute the Resource Improvement Coefficient (RIC) before and after leveling.
 - Draw the network, before and after leveling, indicating TF, FF, critical activities, and the critical path.
3. Optional: Use CPMLevel to investigate Question 2. CPMLevel is a 16-bit Windows program available at www.ioannou.org. CPMLevel can run "as is" under 32-bit Windows. CPMLevel can run under 64-bit Windows, OS/X, or Linux within DOSbox (which is free).

