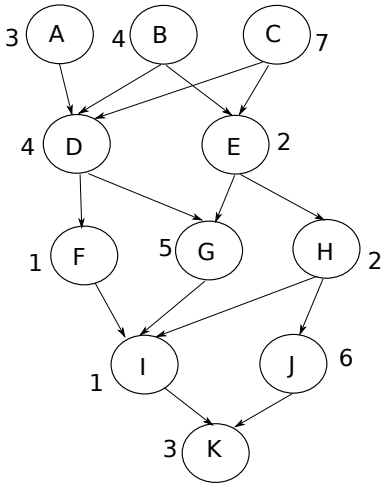
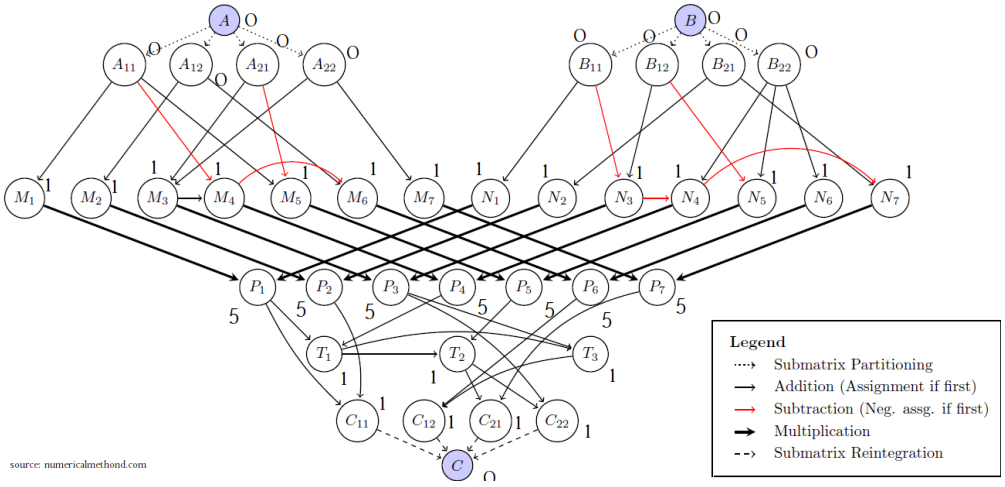
Scheduling Parallel Tasks Graphs

1 Midterm Fall 2017



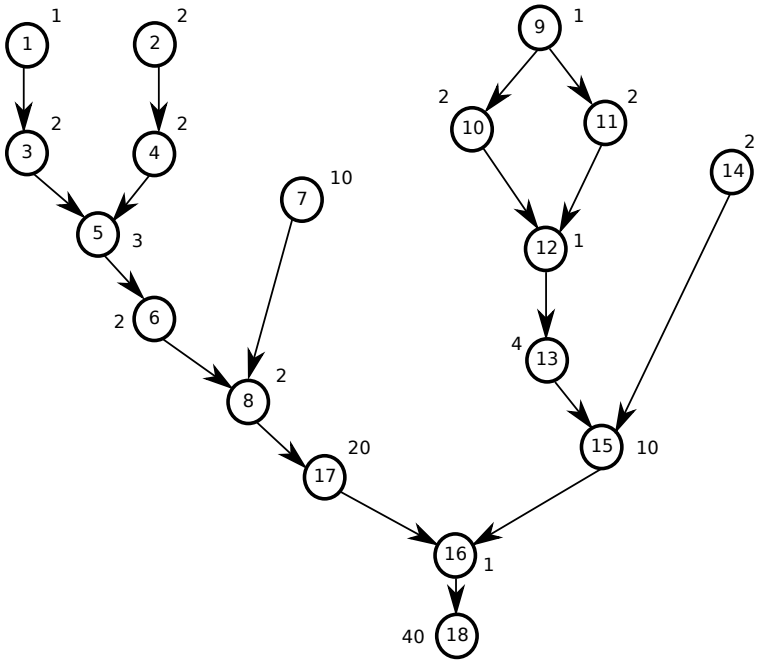
Question: Using the metrics of this parallel task graph (you computed last activity) and analysis of List Scheduling, provide a lower bound and an upper bound of the time it would take to schedule this graph on 2 processors. Provide the bounds on 3 processors.
Question: Use List Scheduling to build a schedule of this task graph on 2 processors.
Question: Use List Scheduling to build a schedule of this task graph on 3 processors.

2 Strassen



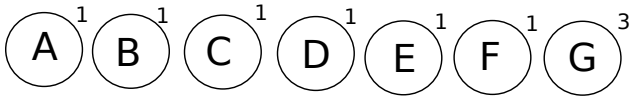
Question: Using the metrics of this parallel task graph (you computed last activity) and analysis of List Scheduling, provide a lower bound and an upper bound of the time it would take to schedule this graph on 4 processors. Provide the bounds on 6 processors.
Question: Use List Scheduling to build a schedule of this task graph on 4 processors.
Question: Use List Scheduling to build a schedule of this task graph on 6 processors.

3 LemonPie



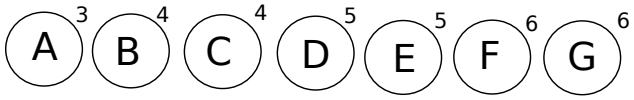
Question: Using the metrics of this parallel task graph (given in the video lecture) and analysis of List Scheduling, provide a lower bound and an upper bound of the time it would take to schedule this graph on 2 processors. Provide the bounds on 4 processors.
Question: Use List Scheduling to build a schedule of this task graph on 2 processors.
Question: Use List Scheduling to build a schedule of this task graph on 4 processors.

4 Independent Tasks 1



Question: Using the metrics of this parallel task graph (you computed last activity) and analysis of List Scheduling, provide a lower bound and an upper bound of the time it would take to schedule this graph on 3 processors. Provide the bounds on 4 processors.
Question: Use List Scheduling to build a schedule of this task graph on 3 processors.
Question: Use List Scheduling to build a schedule of this task graph on 4 processors.

5 Independent Tasks 2



Question: Using the metrics of this parallel task graph (you computed last activity) and analysis of List Scheduling, provide a lower bound and an upper bound of the time it would take to schedule this graph on 3 processors. Provide the bounds on 4 processors.
Question: Use List Scheduling to build a schedule of this task graph on 3 processors.
Question: Use List Scheduling to build a schedule of this task graph on 4 processors.