Centralized Deadlock Defection

- 2. The Ho-Rama moonthy Algorithms There are 2 algo in this
 - A) 2 phase B) One phase
- A) Two phase Algorithm
 - every site maintains a status table that contains the status of all the processes initiated at that site.
- Status uncludes = all resources locked & all resources being waited upon.
- A designated site requests the status table from all sites, constructs a WFG from the information received, searches it for cycles.
- If no cycle, system is free from deadlocks. otherwise, designated site again requests stat tables from all the sites & again construct a WFG using only those transactions whi are common to both reports.
- If same yole detected, it is deadlocked.

It may indeed report false Limitation deadlock.

B) One phase Algorithm

- Only one status report from each site.
- Each site maintains 2 status tables

Resource Status Table

Keeps track of the keeps track of the transactions that have resources locked by or locked by or waited for by all the for by all the transactions at that at that site:

- A designated site requests both the tables from every site, constructs which using only those transactions for which the entry in the resource table matches with process table. I searcher for cycles.

If no cycle so no deadlock.

It does not detect false deadlock because it climinates the inconsistency in state info by using only the information that is common to both tables.

It is faster & requires fewer messages, more storage as have to store 2 tables.