

**“Project Management Using Earned Value”  
Case Study Solution 17.1**



**17.1**

**CASE**

**S**

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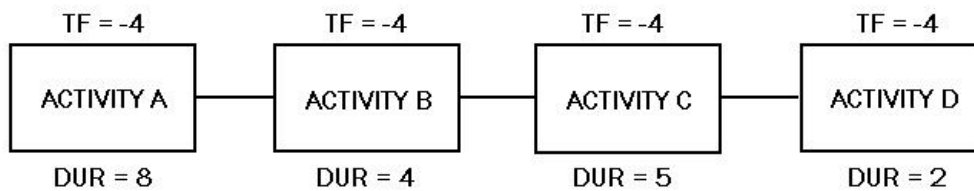
**U**

**D**

**Y**

**Resolving  
Negative Float**

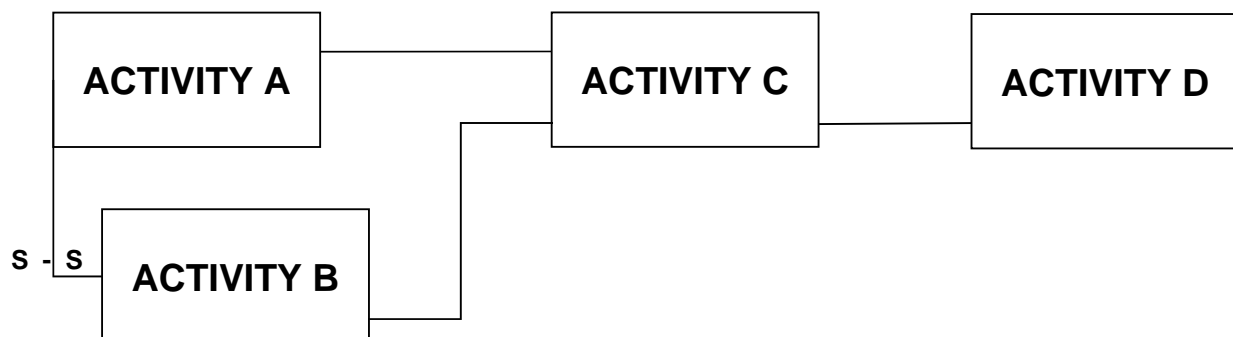
## Resolving Negative Float Solution



TOTAL DURATION = 19 WORKDAYS

All durations are in WORKDAYS (e.g. ACTIVITY A is 8 WD's long)

1. The negative float for the activity path A-B-C-D indicates that the project completion date will slip by 4 days unless something is done to resolve the current condition.
2. Possible solutions include the following:
  - (1) Add resources to one or more of the activities so that a net reduction of 4 days in duration occurs. This will add 4 days of float because of the shorter duration.
  - (2) Tie Activity D to a later point in the logic than Activity E. If it is possible for E to proceed without D, and E is at least 4 days in duration, this will also resolve the negative float condition.
  - (3) Add 4 days to the required completion date of the project! While this will generally not be an option, such an action will indeed add 4 days of available float to ALL activities in the schedule network, including this negative float path.
  - (4) Revise the logic. For example, if Activity A and B do not have to be concurrent, an opportunity exists for shortening the path duration by overlapping Activity A and B as shown below:



The same effect would result if Activity B and C could be overlapped, since this would also shorten the total activity path by 4 days. Overlapping C and D would only reduce the total duration by 2 days, leaving a -2 day float.