

This folder contains the files accompanying *Chapter 11* of Righting Software.

The files correspond to the iterations described in the chapter. The files demonstrate how to produce the numbers the iterations refer to. In addition there are analysis files of the various numbers produced by the iterations. You can use these files as templates for your project, and whenever possible the files are parameterized.

The iteration files are numbered and are available as pairs of Excel and Microsoft Project, each pair has the same number.

The Project file for each iteration is used to model the network, schedule the start and completion date for each activity, and to calculate the floats. The corresponding Excel file is used to calculate the duration, cost, cost elements, efficiency, and average staffing of each solution. The order of the iterations is the same as the progression in the chapter.

The iteration files are:

0. **Dependencies Only.** Page 262, just the activities and the completion dates, no resources or cost.
1. **Unlimited Resources.** Page 265, using up to four developers, two database architects and one test engineer without consuming much float.
2. **Infrastructure First.** Page 267, moving the infrastructure to the beginning of the project
3. **Infrastructure First with Limited Resources.** Page 269, curtailing the initial availability of resources with infrastructure first.
4. **No Database Architects.** Page 270, limiting the resources by removing the database architects and capping the developers at four.
5. **Further Limited Resources.** Page 270, further restricting resources to three developers plus a test engineer (this is the Normal solution).
6. **No Test Engineer.** Page 272, taking away the test engineer, required developers to compensate.
7. **Subcritical.** Page 272, venturing into the subcritical range.
8. **TopDev2 Compression.** Page 276, engaging a top developer instead of Developer 2.
9. **TopDev2+TopDev1 Compression.** Page 278, engaging an additional top developer instead of Developer 1.
10. **Parallel Infrastructure and Clients Front End.** Page 280, parallel work by moving the infrastructure and the clients design to the front end of the project.
11. **Managers Simulators.** Page 284, introducing *Manager* simulators and splitting the development of the clients.
12. **D1, D2, D3, D4 Risk Calculations.** Page 295-296, these are four Microsoft Project files (**D1, D2, D3, D4**) used to calculate the floats for the risk decompression points and a corresponding Excel file with the actual risk calculations.

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The two analysis files are both Excel files:

- **Project Time Cost.** Used to calculate and plot the throughput analysis (page 287), efficiency analysis (page 289), time cost curve (page 290), time-cost mathematical correlation models (page 291-292), and the death zone (page 293).
- **System Risk Analysis.** Used to calculate the risk for all the relevant solutions (page 293-294), to build and plot the time risk curve (page 295-296), calculate direct cost at decompression (page 297), rebuild time-cost curves (page 298-299), modeling risk (page 300), time direct cost, and risk curves (page 301 and 303).