**Extra Credit Assignment – possible +2pts with a bonus question worth 2 additional points.**

**To be turned in by 12/07 at 11:59:00 pm**

Use the back of this page for part E.

**Given the following information for a 1-year project, answer the following.**

**For this Project:**

**PV = $23,000**

**EV = $20,000**

**AC = $25,000**

**BAC = $120,000**

1. **What is the cost variance, schedule variance, cost performance index (CPI), and schedule performance index (SPI)? (.5)**
2. **How is the project doing? Is it ahead of schedule or behind schedule? Is it under budget or over budget? (.5)**
3. **Use the CPI to calculate the estimate at completion (EAC). Is the project performing better or worse than planned? (.5)**
4. **Use the schedule performance index (SPI) to estimate how long it will take to finish the project. (.5)**
5. **Bonus: Sketch the earned value chart based on this project. (+2, no partial credit!)**

Bonus Hint: Use the guide in the book. All of the following must be properly identified on the chart:

The X axis is labeled “Month” and the Y axis is labeled “$”. Actual Cost, Planned Value, Earned Value, BAC and EAC. Neatness counts – use the graph on the back!

Extra hint: EV is a snapshot in time. To find out where ***this*** snapshot was taken, start by plotting P!

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