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Parlez-Vous IT?: Determining IT Needs for Large Statistical Problems

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ABSTRACT

As a statistician, you are often asked to solve big problems without big budgets for new hardware. How can you make the best use of the hardware at your disposal and your limited budgetary dollars for upgrades? You need to determine if your big problem will be bound by I/O, CPU, or memory so that you can wisely spend your hardware budget? What is the computer bottleneck for popular SAS/STAT® procedures such as the REG, GLM, and GLMSELECT procedures? Is your data's shape going to influence what computer resource will be most heavily used? What small changes to your hardware can make the biggest impact to the performance of your big problem? This paper will show you how to answer these questions and how to translate them into IT-speak.

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