CHAPTER 1: INTRODUCTION

Why do performance analysis? There are two basic reasons:

[1] To improve productivity: more work is accomplished in the same amount of time.

[2] To add functionality: totally new functions will be performed that offer the potential for new productivity gains or new revenue.

Productivity has two components:

[1] Comparisons of different configurations of an existing system doing an established set of functions. Here are some illustrative examples:

- A file system is stored on a disk. Where should the files physically be located to provide acceptable access times for typical usage?
- An office contains three groups. Should there be one secretary per group, or a pool of three secretaries for all the groups?

[2] Changing the configuration of an existing system doing an established set of functions to improve performance. Here are some examples to illustrate this point:

- A computer system for program development is configured with one megabyte of memory. What information is needed to determine how much memory is really needed?
- A file system for billing inquiries is stored on two disk spindles. A single controller governs access to the two spindles. What information is needed to determine if a third disk spindle is needed? What about adding another controller?
- An application program that generates management reports reads one file repeatedly. What information is needed to determine if this file should be replicated and stored on more than one disk spindle, to improve performance?
- A packet switch has four communication links. Should there be a pool of buffers for all messages on all links, or should buffers be dedicated to different types of packets (e.g., control packets versus data packets, or so many buffers per line)
- A telephone switching system is controlled by a single processor. What information is needed to determine if this processor should be replaced by a single faster processor, or two processors of the same speed, in order to handle fifty per cent more telephone calls per hour?

Here are some examples of added functionality:

- An office already owns a computer controlled word processing system. What information is needed to determine if this system can support electronic mail?
- A bank wishes to install a network of automatic teller machines. What information is needed to determine what type of computer will be needed to handle this work?
- A CATV franchise wishes to supply voice communications over TV channels not used for entertainment. What type of computer system will be needed to handle billing for this purpose?

Coupled with any performance analysis must be an economic analysis to quantify benefits and costs. All too often costs are ignored altogether, for a variety of reasons. If costs are ignored, then, *de facto*, costs are assumed negligible. However, *costs are lost benefits*. If costs are studied, then the outcome must be worse than before the study, because now costs are **not** negligible. Costs quantify the benefits of different alternatives, which is one aspect of decision making.

Remember, issues of computer performance evaluation cannot be answered absolutely. They must be addressed relative to other factors, such as economic issues, political considerations, and many more. The aspects of performance dealt with here are still only a subset of all the factors that must be

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B. W. Stuck,E. Arthurs

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