

HP 3000 Series 949

Performance Brief

HP 3000 Computer Systems

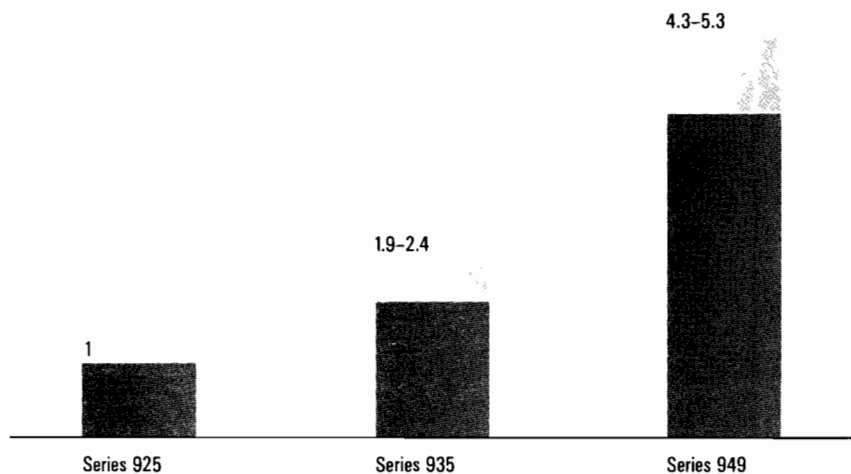
The HP 3000 Series 949 is available as a new system and as a performance upgrade for the Series 925 and Series 935. The Series 949 is optimized for OLTP environments, but also provides excellent performance for batch applications. This document discusses the performance of the Series 949 across several benchmarks and makes comparisons relative to the Series 925 and Series 935.

Performance summary

The benchmark results below demonstrate that the S949 is a good performance upgrade to the S935, providing an additional 1.8 to 2.3 times performance for on-line applications. These benchmarks are based on customer environments; the performance increase of the S949 outside of these benchmarks depends on the nature of the application and user environment.

The S925, S935, and S949 benchmarks described here were all run on MPE/XL release 2.0. Six HP 7937 disk drives were used in all of the benchmarks. Memory configurations are shown in the graphs.

Figure 1. Performance relative to Series 925



On-line performance

Banking benchmark

This benchmark uses transactions that simulate deposits to and withdrawals from bank accounts. These transactions are simpler than those used in many customer environments. This application was written in Pascal and used one HP TurboIMAGE database.

For this benchmark, the Series 925 maintains a consistent response time of 2 seconds up to 75 users, while the Series 935 maintains a 2 second response time up to 179 users. The Series 949 can support roughly 325 interactive users with response time comparable to the Series 935.

This benchmark was also run using the HP SQL relational database. The S949 has greater than twice the transaction throughput of the S935, and over four times the throughput of the S925 (figure 3).

Manufacturing benchmark

This benchmark is based on a third-party interactive application. It consists of several programs that closely reflect an actual manufacturing environment. The application uses block mode screen handling facilities (HP V/PLUS), several HP TurboIMAGE databases, Keyed Sequential Access Method (KSAM) files, and flat files.

Figure 2. TurboIMAGE banking benchmark relative throughput

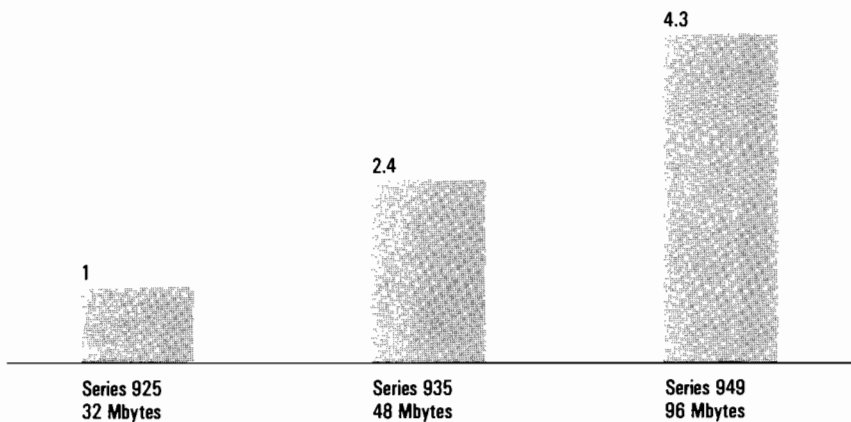
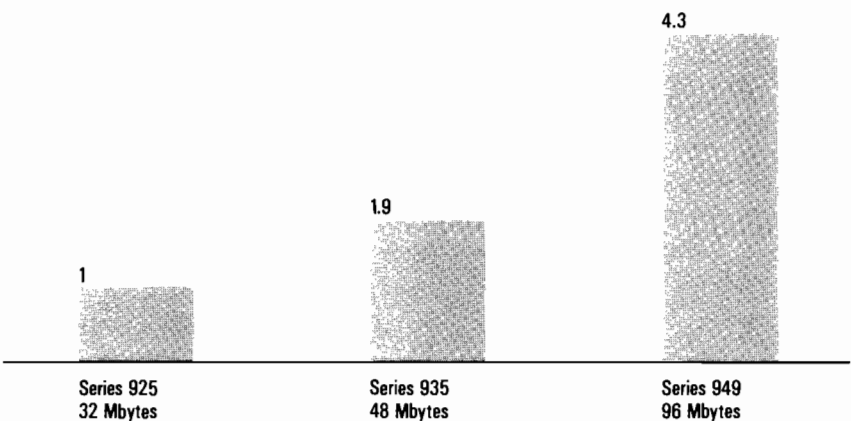


Figure 3. SQL banking benchmark relative throughput



For this benchmark, the Series 949 has 2.2 times greater throughput than the Series 935, and 5.3 times greater throughput than the Series 925. These results indicate that the S949 is an effective performance upgrade for the S935 (figure 4).

Batch performance

This batch benchmark performs multiple Materials Requirement Planning (MRP) jobs for a manufacturing environment. The application is written in COBOL II and uses HP TurboIMAGE databases and MPE flat files.

Figure 5 shows that for this benchmark the S949 is 2.2 times faster than the S935 in terms of CPU time and is 2 times faster in terms of elapsed time.

Summary

In on-line environments, the HP 3000 S949 provides about 2 times the OLTP performance of the S935 and roughly 4 to 5 times the performance of the S925. The S949 is an effective performance upgrade for the S935, especially in on-line and mixed on-line/batch applications.

Figure 4. Manufacturing benchmark relative throughput

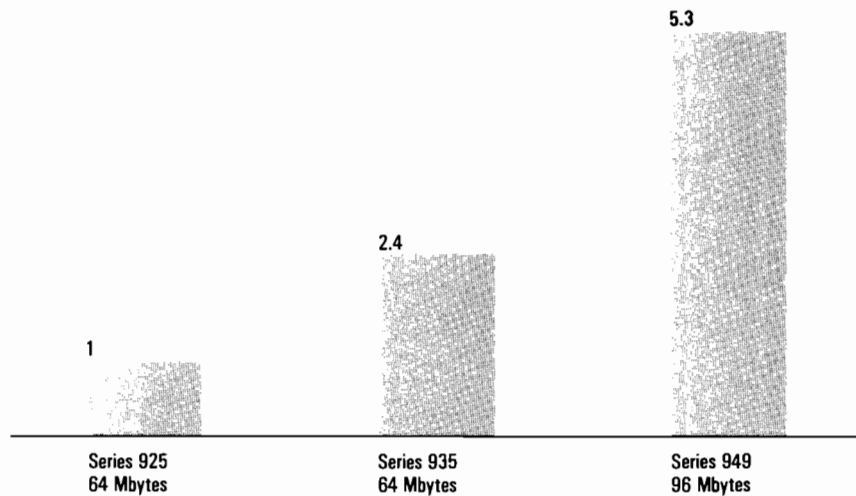
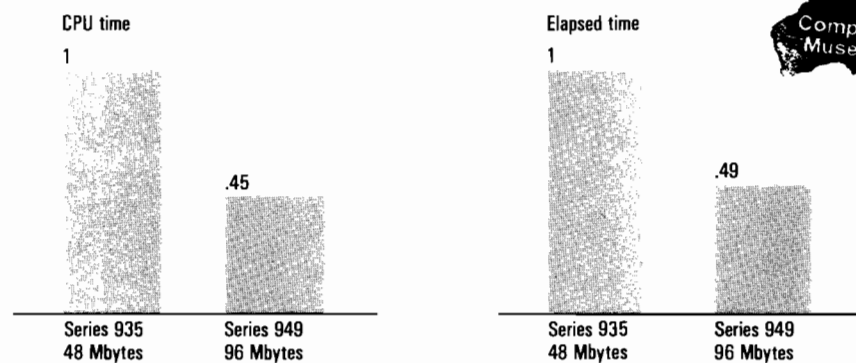


Figure 5. Batch benchmark



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