**The Challenge**
The client was forced with frequent mainframe hardware upgrade costing them exorbitant amount of money every year. They were looking for a partner who can carryout:

- An independent assessment of their mainframe applications
- Validation of increase in mainframe CPU consumption
- Recommendations on optimization strategies

**Solution Framework**
Hexaware carried out a high level study of the client’s application portfolio and proposed a detailed roadmap with an objective to:

- Reduce CPU utilization of mainframe applications
- Defer mainframe upgrade

**Short Term Solution**
Hexaware targeted a number of high CPU consuming jobs from billing application for performance tuning. The identified batch load utilized and average 58 hours of CPU time each month.

The following performance tuning techniques were employed:

- Code restructuring
- SQL query optimization
- Db2 and VSAM tuning

The entire performance tuning project was executed within a short span of 2.5 months. Post optimization the CPU time was reduced by a whooping 50%.

**Long term Solution**
A number of medium sized applications utilizing approximately 200 hours of CPU time per month were targeted.

The applications identified were fairly simple and it largely performed data transformations.

Hexaware suggested replacing these applications with more flexible and manageable applications on Windows NT/Unix platform. The applications were re-developed using informatica as it was the platform of choice for the customer.

**Technology Environment**

- **Hardware**: IBM Mainframe
- **Software**: COBOL, DB2, VSAM & Sequential Files and Visual Basic
- **Tools Used**: Strobe, FILE AID, SPUFI, Hexaware’s in-house developed tool for performance analysis and reporting and Informatica

**Value Delivered**

**Client Benefits**

- Saved 200+ mainframe processing hours per month, leading to reduced mainframe operational and licensing costs
- Saving of USD $1m+ owing to deferred mainframe upgrade
- Low Cost, Quick ROI operating model for performance optimization

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