Investigating the feasibility and worth of migrating legacy systems

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Abstract

1 Introduction

2 Problem background

2.1 Differences between mainframe and modern system architectures

2.2 Factors prompting/necessitating migration

2.3 Example case studies

3 Approaches to system migration

3.1 End-system structures

3.1.1 Service-Oriented Architectures

3.1.2 Object-Oriented Platforms

3.2 Tools for code analysis

3.2.1 SoftAudit and complexity metrics

3.2.2 COBAudit

3.3 Tools for migration

3.3.1 COB2WEB

3.3.2 COBRedo

3.3.3 COBStrip

3.3.4 COBWrap

3.3.5 COBLink

3.3.6 etc

3.4 Techniques

3.4.1 Service-Oriented Migration and Reuse Technique (SMART)

3.4.2 Service-Oriented Software Reengineering Methodology (SoSR)

3.4.3 Ubiquitous Web Applications Design Framework (UWA)

3.4.4 etc

3.5 Comparison of approaches

4 Issues which must be addressed

4.1 Cost-effectiveness

4.2 Maintainability

4.3 Risk

4.4 Automation

4.5 Testing

5 Conclusion