Author

CAST



**MIPS Reduction Index**

**Detailed Report**

Application Name –

Version –

CAST AIP -

|  |
| --- |
|  |
|  |

Monday, xx July 2012

My Application Name

Version Number

My CAST Version

# Table of Content

Table of Content

1. Introduction

1.1. Application Characteristics

2. Security Violation Overview

2.1. MIPS Reduction Index vulnerabilities

2.2. MIPS Reduction – focus on algorithmic costs

2.3. MIPS Reduction – focus on data access efficiency

2.4. MIPS Reduction – focus on avoiding transaction failure

3. Security Violation Details

3.1. MIPS Reduction – focus on algorithmic costs

3.2. MIPS Reduction – focus on data access efficiency

3.3. MIPS Reduction – focus on avoiding transaction failure

4. Appendix

4.1. About CAST Software Intelligence

4.2. About CAST Security

# Introduction

This assessment is an effort to determine the security health of the application and identify some of the root causes of current Security concerns, as well as any risks of future degradation. This assessment uses the CAST Application Intelligence Platform (AIP) to automatically scan the implementation of these applications to review the architecture, design, and code against OWASP standards.

CAST AIP adapts the quality rules from best-in-class industry standards (OWASP, CWE, CISQ). With its unique ability to perform dataflow and system-level analysis (From Presentation layer to Database layer), CAST provides the most accurate security findings, reducing a lot of false positives.

## Application Characteristics

This assessment is focused solely on the technical implementation of the said application (user interface to database), with no investigation of the functionality.

|  |  |
| --- | --- |
| **Name** | **Value** |
| kLoC | 504 |
| Files | 6,586 |
| Classes | 593 |
| SQL Art. | 0 |
| Tables | 119 |

*Fig 1: Application Technology characteristics Table 1: Application characteristics*

# Security Violation Overview

This section provides a summary of the most severe security vulnerability identified in the structural quality analysis and measurement by CAST AIP against the MIPS (Million Instructions Per Second) Reduction Index.

## MIPS Reduction Index vulnerabilities

List of MIPS Reduction rules that had any findings in this application.

|  |  |  |  |
| --- | --- | --- | --- |
| MIPS Reduction | Total Vulnerabilities | Added Vulnerabilities | Removed Vulnerabilities |
| MIPS Reduction – focus on algorithmic costs | 0 | 0 | 0 |
| MIPS Reduction – focus on data access efficiency | 0 | 0 | 0 |
| MIPS Reduction – focus on avoiding transaction failure | 0 | 0 | 0 |

*Table 2: MIPS Reduction Index Rules*

## MIPS Reduction – focus on algorithmic costs

List of vulnerabilities that had any findings in this application.

|  |  |  |  |
| --- | --- | --- | --- |
| CAST Rules | Total Vulnerabilities | Added Vulnerabilities | Removed Vulnerabilities |
| Rule 1 | 0 | 0 | 0 |
| Rule 2 | 0 | 0 | 0 |
| Rule 3 | 0 | 0 | 0 |
| Rule 4 | 0 | 0 | 0 |
| Rule 5 | 0 | 0 | 0 |

*Table 3: MIPS Reduction – focus on algorithmic costs*

## MIPS Reduction – focus on data access efficiency

List of vulnerabilities that had any findings in this application.

|  |  |  |  |
| --- | --- | --- | --- |
| CAST Rules | Total Vulnerabilities | Added Vulnerabilities | Removed Vulnerabilities |
| Rule 1 | 0 | 0 | 0 |
| Rule 2 | 0 | 0 | 0 |
| Rule 3 | 0 | 0 | 0 |
| Rule 4 | 0 | 0 | 0 |
| Rule 5 | 0 | 0 | 0 |

*Table 4: MIPS Reduction – focus on data access efficiency*

## MIPS Reduction – focus on avoiding transaction failure

List of vulnerabilities that had any findings in this application.

|  |  |  |  |
| --- | --- | --- | --- |
| CAST Rules | Total Vulnerabilities | Added Vulnerabilities | Removed Vulnerabilities |
| Rule 1 | 0 | 0 | 0 |
| Rule 2 | 0 | 0 | 0 |
| Rule 3 | 0 | 0 | 0 |
| Rule 4 | 0 | 0 | 0 |
| Rule 5 | 0 | 0 | 0 |

*Table 5: MIPS Reduction – focus on avoiding transaction failure*

# Security Violation Details

## MIPS Reduction – focus on algorithmic costs

|  |
| --- |
| Object name |
| Violation #1 |
| …. |

## MIPS Reduction – focus on data access efficiency

|  |
| --- |
| Object name |
| Violation #1 |
| …. |

## MIPS Reduction – focus on avoiding transaction failure

|  |
| --- |
| Object name |
| Violation #1 |
| …. |

# Appendix

## About CAST Software Intelligence

Software Intelligence creates understanding into software architecture, end to end transaction flows, data access patterns and more, helping teams work confidently and faster. Hundreds of companies rely on CAST Software Intelligence to improve end-user satisfaction and time-to-market, prevent business disruption and reduce cost, enabling them to move past today’s obstacles and to tackle the next wave of innovation.

[Click here](https://www.castsoftware.com/software-intelligence) for more information about CAST Software Intelligence.

## About CAST Security

Cyber risk and application security require a proactive and intelligence-driven approach. CAST Software Intelligence shifts insight into security strategy blind spots before development starts. With its unique ability to do dataflow and system-level analysis, CAST provides the most accurate security findings, reducing a lot of false positives. CAST Security rules are adapted from best-in-class industry standards – CISQ, CWE, and OWASP.

To find out more about CAST Security, [click here](https://www.castsoftware.com/use-cases/application-security).