# CWE Detail – CWE-409

## Description

The product does not handle or incorrectly handles a compressed input with a very high compression ratio that produces a large output.

## Extended Description

An example of data amplification is a "decompression bomb," a small ZIP file that can produce a large amount of data when it is decompressed.

## Threat-Mapped Scoring

Score: 0.0

Priority: Unclassified

## Observed Examples (CVEs)

**•** CVE-2009-1955: XML bomb in web server module

**•** CVE-2003-1564: Parsing library allows XML bomb

## Modes of Introduction

**•** Architecture and Design: N/A

**•** Implementation: N/A

## Common Consequences

**•** Impact: DoS: Amplification, DoS: Crash, Exit, or Restart, DoS: Resource Consumption (CPU), DoS: Resource Consumption (Memory) — Notes: System resources, CPU and memory, can be quickly consumed. This can lead to poor system performance or system crash.

## Applicable Platforms

**•** None (Class: Not Language-Specific, Prevalence: Undetermined)

## Demonstrative Examples

**•** N/A