# CWE Detail – CWE-1077

## Description

The code performs a comparison such as an
 equality test between two float (floating point) values, but
 it uses comparison operators that do not account for the
 possibility of loss of precision.

## Extended Description

Numeric calculation using floating point values
 can generate imprecise results because of rounding errors.
 As a result, two different calculations might generate
 numbers that are mathematically equal, but have slightly
 different bit representations that do not translate to the
 same mathematically-equal values. As a result, an equality
 test or other comparison might produce unexpected
 results. This issue can prevent the product from running reliably. If the relevant code is reachable by an attacker, then this reliability problem might introduce a vulnerability.

## Threat-Mapped Scoring

Score: 0.0

Priority: Unclassified

## Common Consequences

**•** Impact: Reduce Reliability — Notes: