# 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: