# CWE Detail – CWE-833

## Description

The product contains multiple threads or executable segments that are waiting for each other to release a necessary lock, resulting in deadlock.

## Extended Description

N/A

## Threat-Mapped Scoring

Score: 0.0

Priority: Unclassified

## Observed Examples (CVEs)

**•** CVE-1999-1476: A bug in some Intel Pentium processors allow DoS (hang) via an invalid "CMPXCHG8B" instruction, causing a deadlock

**•** CVE-2009-2857: OS deadlock

**•** CVE-2009-1961: OS deadlock involving 3 separate functions

**•** CVE-2009-2699: deadlock in library

**•** CVE-2009-4272: deadlock triggered by packets that force collisions in a routing table

**•** CVE-2002-1850: read/write deadlock between web server and script

**•** CVE-2004-0174: web server deadlock involving multiple listening connections

**•** CVE-2009-1388: multiple simultaneous calls to the same function trigger deadlock.

**•** CVE-2006-5158: chain: other weakness leads to NULL pointer dereference (CWE-476) or deadlock (CWE-833).

**•** CVE-2006-4342: deadlock when an operation is performed on a resource while it is being removed.

**•** CVE-2006-2374: Deadlock in device driver triggered by using file handle of a related device.

**•** CVE-2006-2275: Deadlock when large number of small messages cannot be processed quickly enough.

**•** CVE-2005-3847: OS kernel has deadlock triggered by a signal during a core dump.

**•** CVE-2005-3106: Race condition leads to deadlock.

**•** CVE-2005-2456: Chain: array index error (CWE-129) leads to deadlock (CWE-833)

## Related Attack Patterns (CAPEC)

* CAPEC-25

## Attack TTPs

**•** T1499.004: Application or System Exploitation (Tactics: impact)

## Common Consequences

**•** Impact: DoS: Resource Consumption (CPU), DoS: Resource Consumption (Other), DoS: Crash, Exit, or Restart — Notes: Each thread of execution will "hang" and prevent tasks from completing. In some cases, CPU consumption may occur if a lock check occurs in a tight loop.