

Recurring decimal issue in CVSS V2.0 calculator

The recurring decimal value exists
under a specific condition in CVSS V2.0 calculator.
This value affects the ENVIRONMENTAL SCORE.

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1. Recurring decimal issue

1.1 NVD

ENVIRONMENTAL SCORE : 5.9

- vector=(AV:L/AC:H/Au:N/C:N/I:N/A:P/E:P/RL:W/RC:ND/CDP:H/TD:H/CR:H/IR:L/AR:H)

ENVIRONMENTAL
SCORE : ~~5.9~~

↓
6.0

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Common Vulnerability Scoring System Version 2 Calculator

This page provides a calculator for creating CVSS vulnerability severity scores. Please read the [CVSS standards guide](#) to fully understand how to score CVSS vulnerabilities and to interpret CVSS scores.

Update Scores | Reset Scores | View Equations

CVSS Base Score	1.2
Impact Subscore	2.9
Exploitability Subscore	1.9
CVSS Temporal Score	1
CVSS Environmental Score	5.9
Modified Impact Subscore	4.3
Overall CVSS Score	5.9

Environmental Score Metrics

General Modifiers

CollateralDamagePotential: High (catastrophic loss) [v]

TargetDistribution: High (76-100%) [v]

Impact Subscore Modifiers

ConfidentialityRequirement: High [v]

IntegrityRequirement: Low [v]

AvailabilityRequirement: High [v]

Base Score Metrics

Exploitability Metrics

AccessVector: Local [v]

AccessComplexity: High [v]

Authentication: None [v]

Impact Metrics

ConfImpact: None [v]

IntegImpact: None [v]

AvailImpact: Partial [v]

Temporal Score Metrics

Exploitability: Proof of concept code [v]

RemediationLevel: Workaround [v]

ReportConfidence: Confirmed [v]

CVSS v2 Vector

This CVSS vector displays in a concise format the base and temporal metrics that make up the CVSS score.

(AV:L/AC:H/Au:N/C:N/I:N/A:P/E:P/RL:W/RC:ND/CDP:H/TD:H/CR:H/IR:L/AR:H)

1. Recurring decimal issue

1.1 Cisco

ENVIRONMENTAL SCORE : 5.9

- vector=(AV:L/AC:H/Au:N/C:N/I:N/A:P/E:P/RL:W/RC:ND/CDP:H/TD:H/CR:H/IR:L/AR:H)

Base Parameters

Once discovered, analyzed, and catalogued, there are certain aspects of a vulnerability that do not change, assuming the initial information base metric group captures the access to and impact on the target.

Access Vector: Local [?]
Access Complexity: High [?]
Authentication: None [?]
Confidentiality Impact: None [?]
Integrity Impact: None [?]
Availability Impact: Partial [?]
Base Score: 1.2

Temporal Parameters

As a vulnerability ages, certain intrinsic characteristics will change with time. In many cases, when a vulnerability is first discovered, the score is at its lowest point. As time progresses, patch information will become more available and more systems will be fixed as more exploits or proof-of-concept information reaches its high point. The CVSS temporal metrics group captures these characteristics of a vulnerability that change over time.

Exploitability: Proof-of-Concept [?]
Remediation Level: Workaround [?]
Report Confidence: Confirmed [?]
Temporal Score: 1

Environmental Parameters

Different user environments can have an immense bearing on how (or if) a vulnerability affects a given information system and its stakeholders and network environment.

Collateral Damage Potential: High [?]
Target Distribution: High [?]
Confidentiality Requirement: High [?]
Integrity Requirement: Low [?]
Availability Requirement: High [?]
Environmental Score: 5.9

**ENVIRONMENTAL
SCORE : 5.9**



6.0

1. Recurring decimal issue

1.2 CVSS score calculation

□ vector=(
 AV:L/AC:H/Au:N/C:N/I:N/A:P/
 E:P/RL:W/RC:ND/
 CDP:H/TD:H/CR:H/IR:L/AR:H
)

Base Parameters
Temporal Parameters
Environmental Parameters

Base Parameters		
Access Vector	Local	0.395
Access Complexity	High	0.35
Authentication	None	0.704
Confidentiality Impact	None	0
Integrity Impact	None	0
Availability Impact	Partial	0.275

Temporal Parameters		
Exploitability	Proof of Concept	0.9
Remediation Level	Workaround	0.95
Report Confidence	Not Defined	1

Environmental Parameters		
Collateral Damage Potential	High	0.5
Target Distribution	High	1
Confidentiality Requirement	High	1.51
Integrity Requirement	Low	0.5
Availability Requirement	High	1.51

1. Recurring decimal issue

1.2 CVSS score calculation - Javascript

impactSub = 2.86275 = $10.41 * (1 - (1 - \text{conflImpact} [0]) * (1 - \text{integImpact} [0]) * (1 - \text{avaiImpact} [0.275]))$
exploitSub = 1.94656 = $(20 * \text{accessVector} [0.395] * \text{accessComplexity} [0.35] * \text{authentication} [0.704])$
Base Score before round : 1.1716182240000001
= $((0.6 * \text{impactSub} [2.86275]) + (0.4 * \text{exploitSub} [1.94656]) - 1.5) * f [1.176]$

BASE SCORE : 1.2

Temporal Score before round : 1.026
= $\text{baseScore} [1.2] * \text{exploitability} [0.9] * \text{remediationLevel} [0.95] * \text{reportConfidence} [1]$

TEMPORAL SCORE : 1

before Math.min = 4.3227525000000001 = $10.41 * (1 - (1 - \text{conflImpact} [0] * \text{confReq} [1.51]) * (1 - \text{integImpact} [0] * \text{integReq} [0.5]) * (1 - \text{avaiImpact} [0.275] * \text{availReq} [1.51]))$
adjustedImpact = 4.3227525000000001 = $\text{Math.min}(10, 4.3227525000000001)$

Adjusted Base Score before round = 2.2017959880000006
= $((0.6 * \text{adjustedImpact} [4.3227525000000001]) + (0.4 * \text{exploitSub} [1.94656]) - 1.5) * f [1.176]$

Adjusted Base Score = 2.2

Adjusted Temporal Score before round = 1.881
= $\text{AdjustedBaseScore} [2.2] * \text{exploitability} [0.9] * \text{remediationLevel} [0.95] * \text{reportConfidence} [1]$

Adjusted Temporal Score = 1.9

Environment Score before round = **5.9499999999999999** = $(\text{AdjustedTemporalScore} [1.9] + ((10 - \text{AdjustedTemporalScore} [1.9]) * \text{collateralDamagePotential} [0.5])) * \text{targetDistribution} [1]$

ENVIRONMENTAL SCORE : 5.9

1. Recurring decimal issue

1.2 CVSS score calculation - Javascript vs Manual

□ Javascript

$$= (\text{AdjustedTemporalScore} [1.9] + ((10 - \text{AdjustedTemporalScore} [1.9]) * \text{collateralDamagePotential} [0.5])) * \text{targetDistribution} [1]$$

$$= \underline{5.949999999999999999} \quad \text{Recurring decimal}$$

$$= \text{ENVIRONMENTAL SCORE : 5.9}$$

□ Manual

$$= (\text{AdjustedTemporalScore} [1.9] + ((10 - \text{AdjustedTemporalScore} [1.9]) * \text{collateralDamagePotential} [0.5])) * \text{targetDistribution} [1]$$

$$= (1.9 + (10 - 1.9) * 0.5) * 1 = 5.95$$

$$= \text{ENVIRONMENTAL SCORE : 6.0}$$