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### 2023.4 IPU Out-of-Band (OOB) - Intel® Processor Advisory

Intel ID:	INTEL-SA-00950
Advisory Category:	Hardware
Impact of vulnerability:	Escalation of Privilege, Denial of Service, Information Disclosure
Severity rating:	HIGH
Original release:	11/14/2023
Last revised:	11/14/2023

## Summary:

A potential security vulnerability in some Intel® Processors may allow escalation of privilege and/or information disclosure and/or denial of service via local access. Intel is releasing firmware updates to mitigate this potential vulnerability.

## Vulnerability Details:

CVEID: CVE-2023-23583

Description: Sequence of processor instructions leads to unexpected behavior for some Intel(R) Processors may allow an authenticated user to potentially enable escalation of privilege and/or information disclosure and/or denial of service via local access.

CVSS Base Score: 8.8 High

CVSS Vector: CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:C/C:H/I:H/A:H

## Affected Products:

Products with new microcode update:

Product Collection	Vertical Segment	CPU ID	Platform ID
10th Generation Intel® Core™ Processor Family	Mobile	706E5	80
3rd Generation Intel® Xeon® Processor Scalable Family	Server	606A6	87
Intel® Xeon® D Processor	Server	606C1	10
11th Generation Intel® Core Processor Family	Desktop	A0671	02
	Embedded	806C1	80
11th Generation Intel® Core Processor Family	Mobile	806C2	C2
	Embedded	806D1	C2
	Server	A0671	02
Intel® Server Processor	Server	A0671	02
	Embedded		

The following products have already been mitigated:

Product Collection	Vertical Segment	CPU ID	Platform ID	Mitigated Microcode Version
12th Generation Intel® Core™ Processor Family	Mobile	906A4	80	0x2b
4th Generation Intel® Xeon® Processor Scalable Family	Server	806F8	87	0x2B000461
13th Generation Intel® Core™ Processor Family	Desktop	B0671	01	0x410E

For an exhaustive list of processors please visit:

<https://www.intel.com/content/www/us/en/developer/topic-technology/software-security-guidance/processors-affected-consolidated-product-cpu-model.html>

## Recommendation:

Intel recommends that users of listed Intel® Processors update to the latest versions provided by the system manufacturer that addresses these issues.

Please refer to the technical paper here

for additional information.

## Acknowledgements:

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Intel, and nearly the entire technology industry, follows a disclosure practice called Coordinated Disclosure, under which a cybersecurity vulnerability is generally publicly disclosed only after mitigations are available.

## Revision History

Revision	Date	Description
1.0	11/14/2023	Initial Release
1.1	11/14/2023	Updated recommendation technical paper link

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- The products and versions affected
- Detailed description of the vulnerability
- Information on known exploits

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- Vulnerability handling guidelines

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