

Masharo Openess Score Status Masharo Masharo Openess Score Status









- Short Introduction to Dasharo Openness Score (DTS)
- Exploring Dasharo Openness Score v0.1
- Upcoming Features: Dasharo Openness Score v0.2 and Beyond
- Q&A



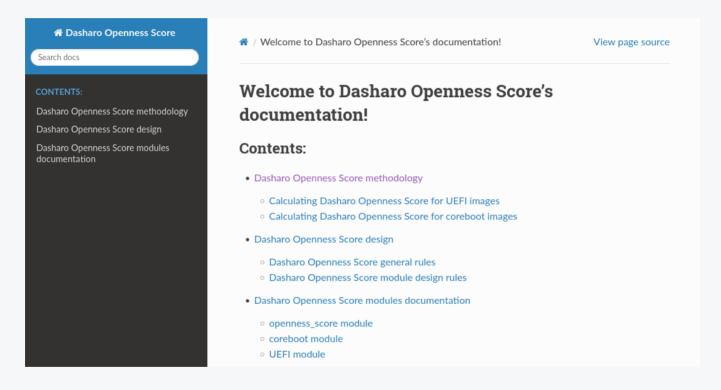
Dasharo Openess Score

- Dasharo Openness Score is a tool designed to quantify the openness of firmware images, providing insights into the ratio of open-source to closed-source components.
- Python, MIT licensed, https://github.com/Dasharo/Openness-Score
- DRY: https://bit.ly/openness-score
- Since last DUG we made some slight progress and we would like to treat this presentation as opportunity to provide more details about project status as well some knowledge about methodology.
- Unfortunately no new releases, but ...



Documentation Released

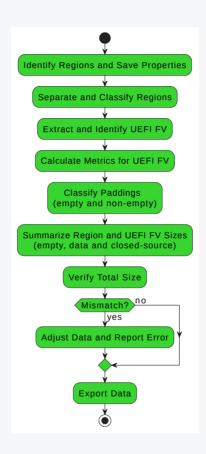
https://dasharo.github.io/Openness-Score/



Documentation is in Sphinx at this point, but we will migrate mkdocs.





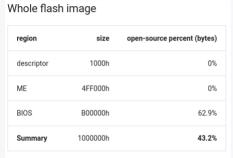


• CBFS classification is even more complex.



Integration for NovaCustom

• Back in the days we provided Dasharo Openess Score (pre-v0.1) for NV4x 11th Gen v0.5.0 (2021/11/19).





type	summarised size	Percent
open-source	1D42D1h	62.9%
closed-source	114276h	37.1%
empty (not included)	10F4ECh	

Open and closed source images are in the table below.

- Starting from upcoming:
 - NV4x, NS5x/7x ADL v1.7.0
 - NV4x, NS5x/7x TGL v1.5.0
- All Novacustom releases will contain Dasharo Openess Score v0.1

Release Newsletter integration

Dasharo Openness Score

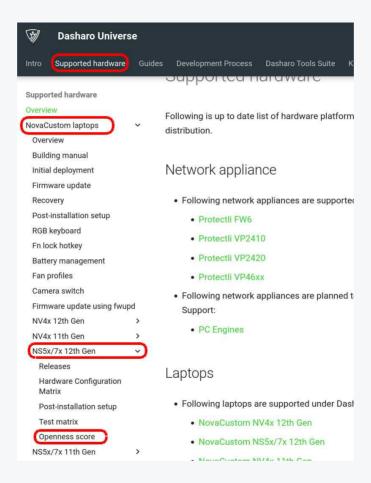
Ever questioned the openness of your open-source firmware? Eager to discern the balance between open and closed-source code? Enter the **Dasharo Openness Score**, a tool designed for the curious.

Our utility meticulously dissects firmware, quantifying the open-source to closed-source code ratio. It then presents this data in a visually digestible pie charts. For those intrigued by the mechanics, click here to access the comprehensive documentation explaining what the Dasharo Openness Score is, the rules it follows, and how reports are generated. For a quick snapshot of your firmware's openness, click here to access the full report directly.

• Above notes will be added to newsletters announcing releases, which include Dasharo Opness Score.

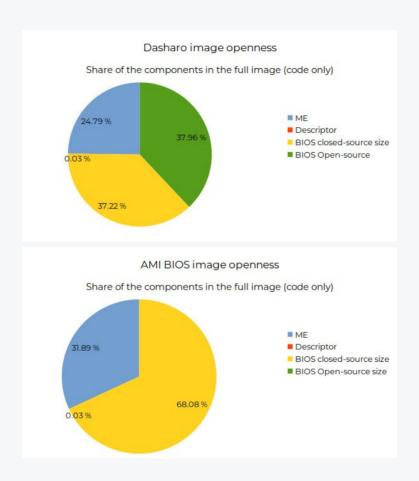


Dasharo Universe



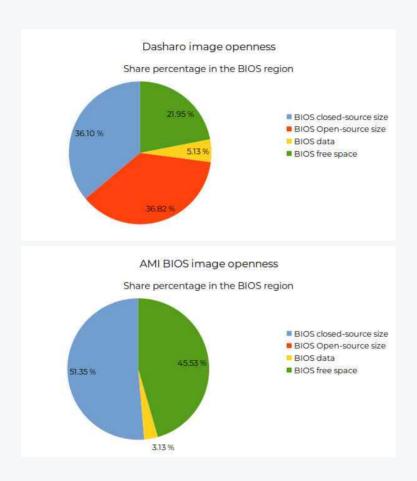


Example based on MSI PRO Z690-A





Example based on MSI PRO Z690-A





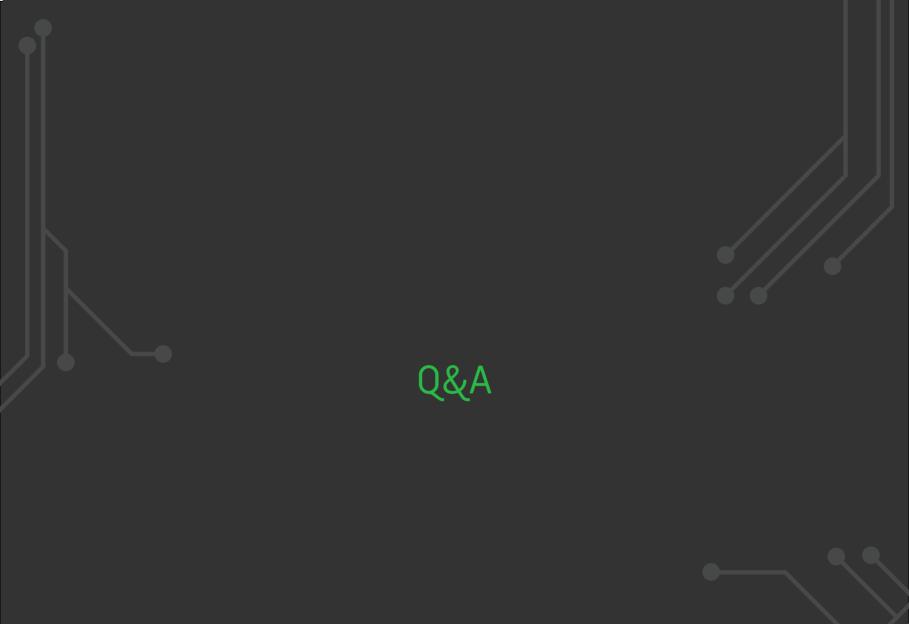
Dasharo Openess Score v0.1 integration

- ETA: Q3 2023 (v0.1 integration)
 - No code changes.
 - Integration in Dasharo Release infrastructure.
 - Increased Visibility: Openness Score updates in newsletters and Dasharo User's Guide.
 - Documentation Upgrade: Improving methodology explanation in documentation.



Dasharo Openess Score v0.2

- ETA: Q4 2023
- Planned features
 - CI/CD Integration: Including Openness Score script in CI/CD processes.
 - Improved Visualization: Enhancing visual representation for userfriendliness.
 - Binary Comparison: Comparing Dasharo binary with reference binaries.
 - Versioning & Wide Application: Implementing versioning and supporting multiple platforms.
 - Advanced Parsing: Utilizing ifdtool for improved image parsing.
- Planned bug fixes:
 - <u>GitHub issue #461</u> Check for ME presence in coreboot images with ifdtool if flashmap does not indicate it
 - GitHub issue #451 Migrate Openness Score documentation from Sphinx to mkdocs



13 / 13