

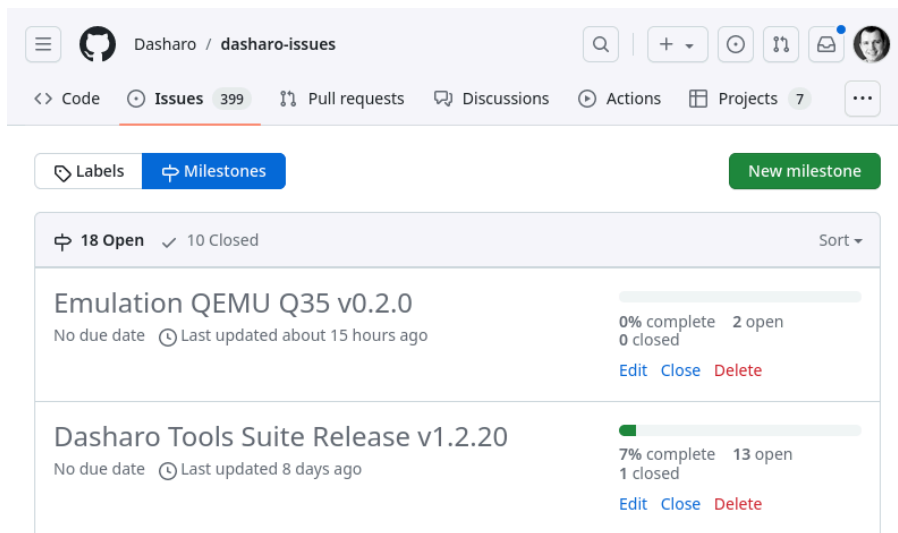
👋 Dasharo User Group #8 🎉
Dasharo Community Release Roadmaps





Please note that the roadmap for the Dasharo Community Support Program is subject to change and may not represent final release candidates or end of support dates. This roadmap is intended to provide guidance and direction for the program's development, but is not a guarantee of specific timelines or outcomes. For more information on release candidates or release dates, please contact the Dasharo Team directly.

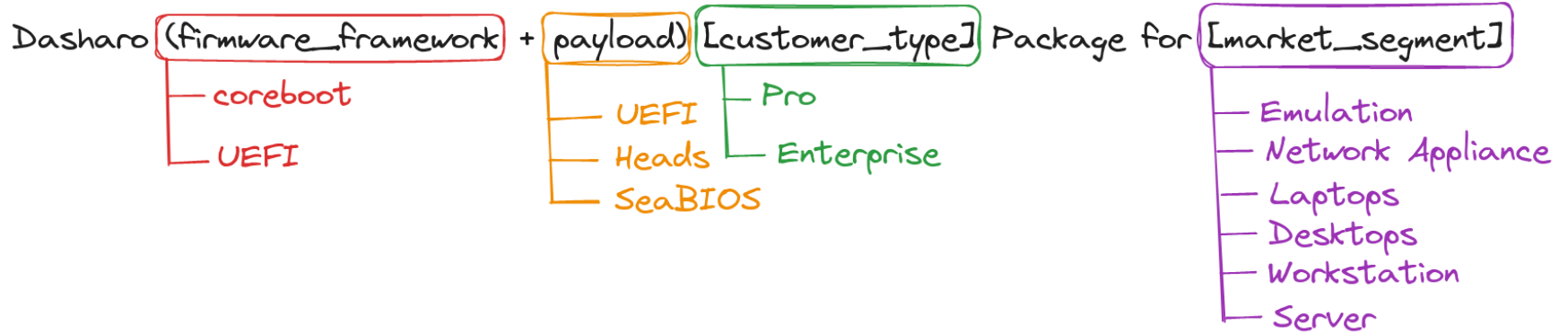
- For those watching this presentation first time we really encourage to look at past videos to get better context and understanding of the format.
 - [DUG#7](#), [DUG#6](#), [DUG#5](#), [DUG#4](#), [DUG#3](#), [DUG#2](#), [DUG#1](#)
- We introduced statistics about our planning and execution effort.
- We decided to limit development stages we put on roadmap. Overall we are care about releases.
- All releases can be tracked as milestones in Dasharo Issues repo on Github



The screenshot shows the GitHub interface for the repository 'Dasharo / dasharo-issues'. The 'Issues' tab is active, showing 399 issues. Below the navigation bar, there are tabs for 'Labels' and 'Milestones', with a 'New milestone' button. The milestones section displays two items:

Milestone	Progress	Open Issues	Closed Issues	Last Updated
Emulation QEMU Q35 v0.2.0	0% complete	2 open	0 closed	Last updated about 15 hours ago
Dasharo Tools Suite Release v1.2.20	7% complete	13 open	1 closed	Last updated 8 days ago

Note about [Dasharo Naming Convention](#) to which we fully switching starting from beginning of the 2025.



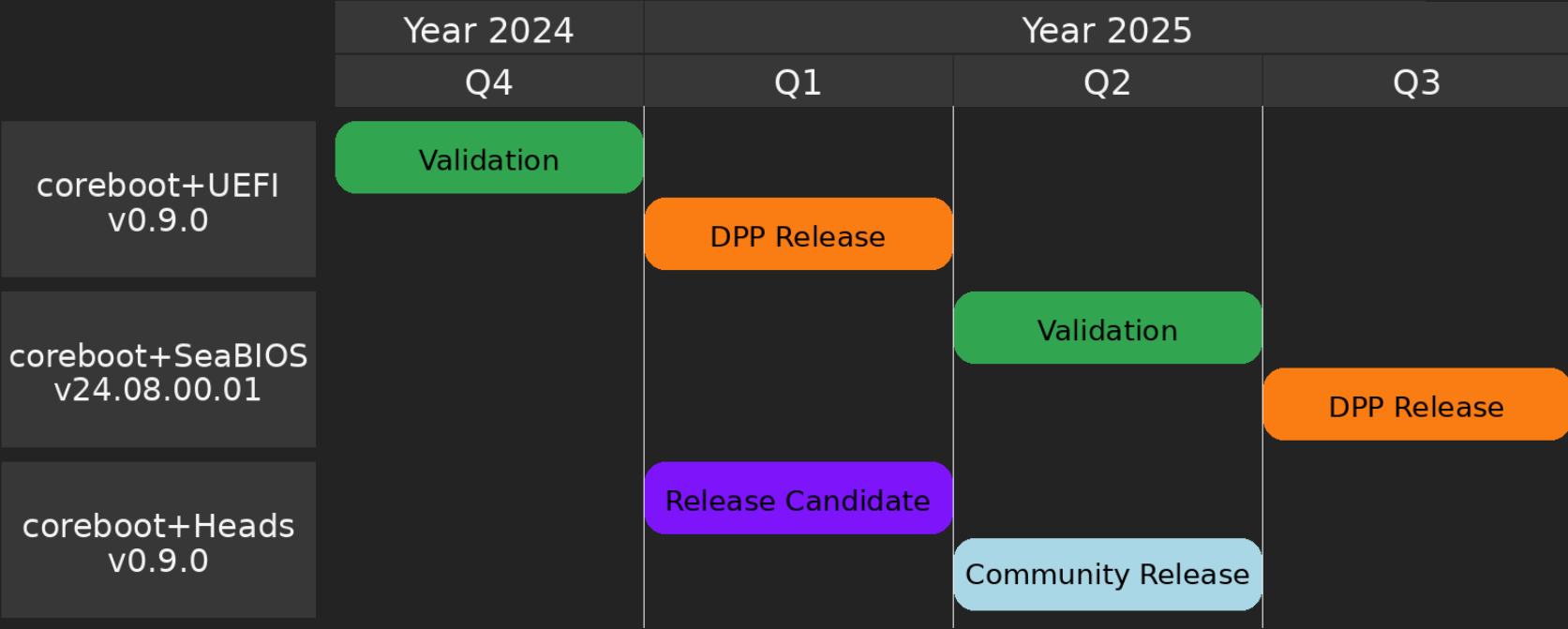
- Dasharo (coreboot+UEFI) Pro Package for Desktop
- Dasharo (coreboot+Heads) Pro Package for Laptops
- Dasharo (coreboot+SeaBIOS) Enterprise Package for Network Appliance

Notice

Until EOQ4'24 we are in transition period. More information in [#762](#).

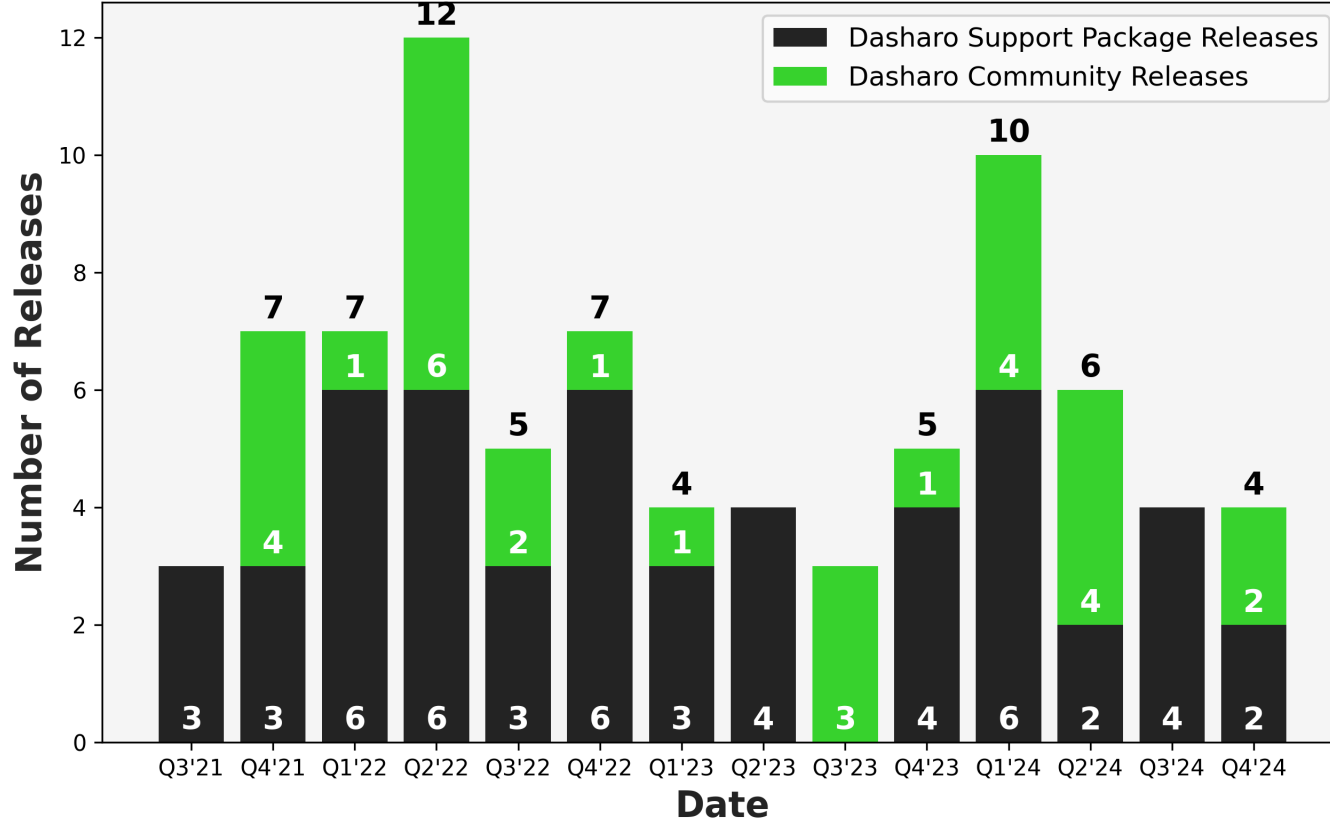
Dasharo [Segment] [Vendor] [Model] Roadmap

subject to change

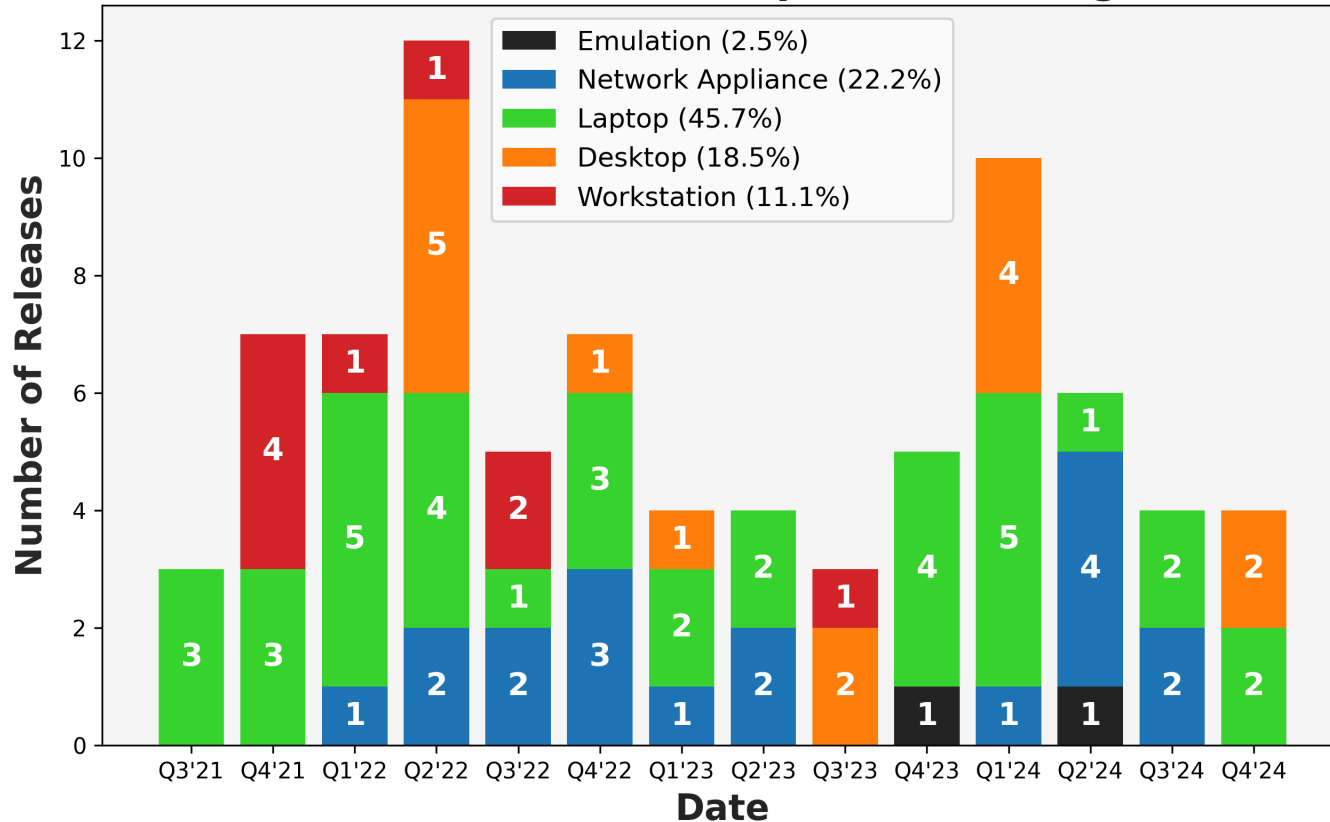


Dasharo Community Support Roadmap | December 2024 (v0.8) | CC-BY-SA-4.0

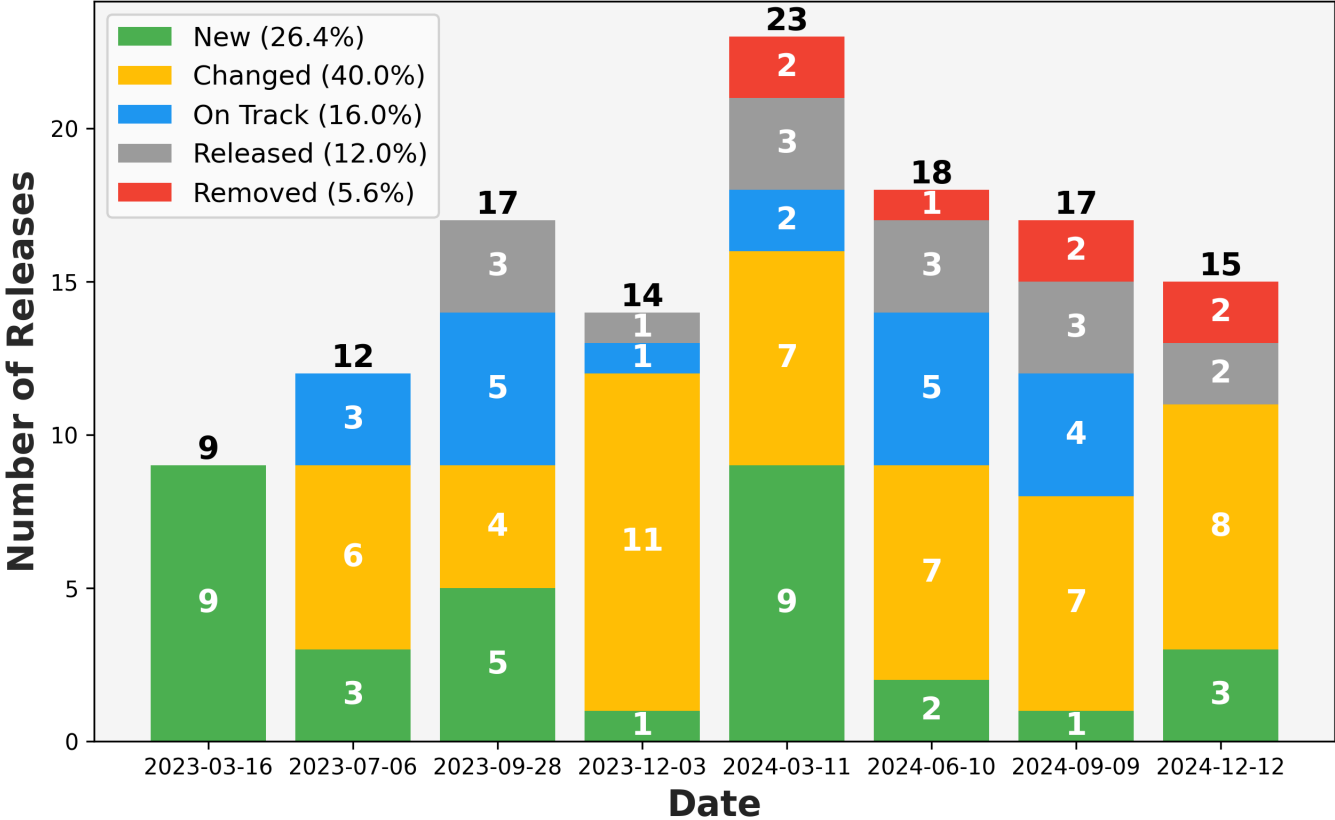
Number of Dasharo Public Releases in time



Dasharo Public Releases per market segment

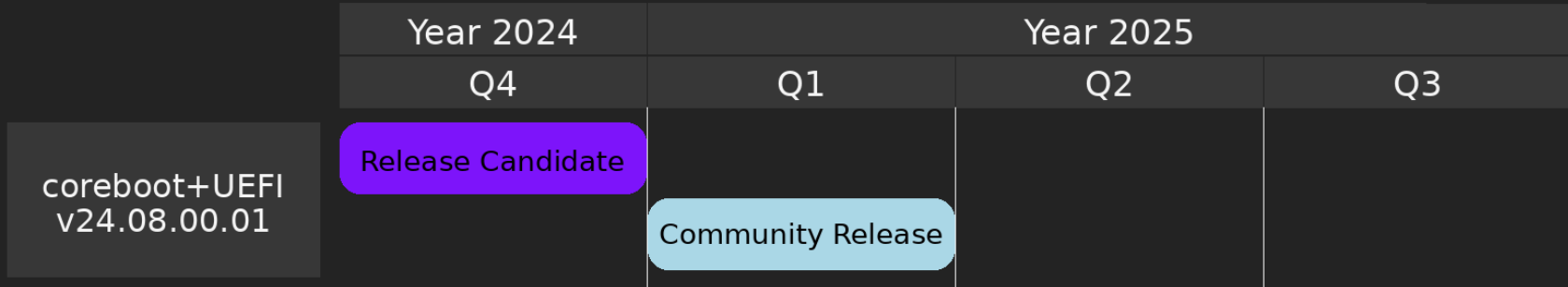


Dasharo Roadmap Status Overview



Dasharo Emulation QEMU Q35 Roadmap

subject to change



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- Based on our experience with Dasharo (coreboot+SeaBIOS) for PC Engines, we plan to release the same code for QEMU Q35.
- This will improve CI/CD and automatic validation of coreboot+SeaBIOS.
- It will also enhance OSFV validation scope to the [sortbootorder](#) payload.

Dasharo (coreboot+SeaBIOS) for QEMU Q35



v24.08.00.01-rc1

Pre-release

- Basic support for Dasharo (coreboot+SeaBIOS) with sortbootorder a la PC Engines, but for QEMU Q35
- Main goal of this release is to enable support for automated validation of Dasharo (coreboot+SeaBIOS) in [OSFV](#) through [Dasharo/open-source-firmware-validation#574](#)
- Build from following reference: <https://github.com/Dasharo/dasharo-pq/actions/runs/12019402689>

▼ Assets

4

qemu_q35_24.08.00.01.rom	8 MB	2 weeks ago
qemu_q35_24.08.00.01.rom.sha256	97 Bytes	2 weeks ago
Source code (zip)		2 weeks ago
Source code (tar.gz)		2 weeks ago



← Dasharo

make libpayload reproducible #30

Re-run all jobs

Summary

Jobs

- build_pcengines (pcengines, apu...
- build_pcengines (pcengines, apu...
- build_pcengines (pcengines, apu...
- build_pcengines (pcengines, apu...
- build_q35 (emulation_qemu, x86...

Run details

Usage

Workflow file

Triggered via push 1 hour ago

Actor	Status	Total duration	Artifacts
pietrushnic pushed → 660d167 re1_24.08.08.01	Success	17m 34s	5

build.yml

on: push

Matrix: build_pcengines

4 jobs completed

Show all jobs

Matrix: build_q35

1 job completed

Show all jobs

Artifacts

Produced during runtime

Name	Size	
dasharo-emulation_qemu-x86_q35-smm_tseg_seabios	340 KB	Download Delete
dasharo-pcengines-apu2-seabios	693 KB	Download Delete
dasharo-pcengines-apu3-seabios	693 KB	Download Delete
dasharo-pcengines-apu4-seabios	693 KB	Download Delete
dasharo-pcengines-apu6-seabios	693 KB	Download Delete

Dasharo Network Appliance PC Engines apu2/3/4/6 Roadmap

subject to change



	Year 2024	Year 2025		
	Q4	Q1	Q2	Q3
coreboot+SeaBIOS v24.08.00.01	DPP Release			
coreboot+SeaBIOS v24.11.00.01	DPP Release			
coreboot+UEFI v0.9.1		DPP Release		

Dasharo Community Support Roadmap | December 2024 (v0.8) | CC-BY-SA-4.0

- According to information on mailing list next release will happen in lat December and it will be v24.12.
- We will most likely schedule release of Dasharo based on it in Q1'25.

Dasharo Network Appliance Protectli VP4670 Roadmap

subject to change



	Year 2024	Year 2025		
	Q4	Q1	Q2	Q3
coreboot+SeaBIOS v0.9.0		DPP Release		

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- Shifted again. We are kept busy with other projects and implementation didn't left PoC phase.
- If it will be published it would be Tech Preview.
- [Milestone link](#)

Dasharo Network Appliance MinnowBoard Turbot Roadmap

subject to change



Year 2024

Q1

Q2

Q3

Q4

Dasharo
(coreboot+UEFI)
v0.9.0

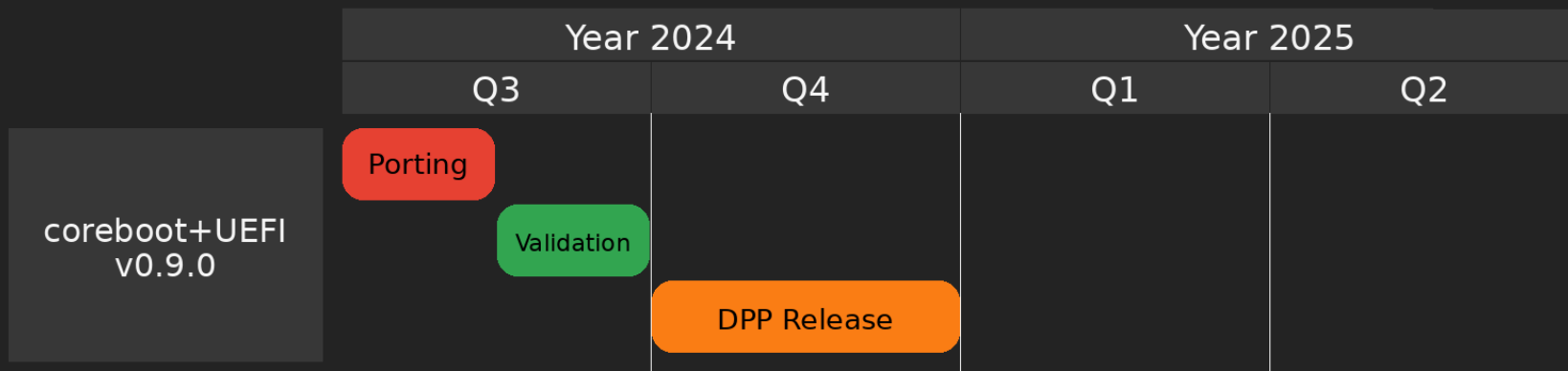
DPP
Release

Dasharo Community Support Roadmap | December 2024 (v0.8) | CC-BY-SA-4.0

- Unfortunately we canceled this effort for now.
- Main issue were random soft locks described in [issue #1000](#)
- `@miczyg` suspect issue with C6 state and C6 DRAM which ought to be reserved for it.
- Interestingly coreboot 4.11 does not have this problem, so it may mean that it is because of using MRC binary for memory initialization.
- Good news are that rebased code base sitting in our repo [here](#) and it based on recent coreboot 24.02.01.

Dasharo Network Appliance Hardkernel Odroid-H4+ Roadmap

subject to change



Dasharo Community Support Roadmap | December 2024 (v0.8) | CC-BY-SA-4.0

- Unfortunately, we still didn't released binary despite we should be quite close.
- We have code complete and platform ready for validation.
- We just didn't have resources to assign anyone to that activity because of other priorities.
- Our plan is to release validated binary by the end of 2024.
- `v0.9.0-rc3` is available [here](#).

Dasharo Laptop Novacustom Roadmap

subject to change



	Year 2024	Year 2025		
	Q4	Q1	Q2	Q3
V56TU coreboot+Heads v0.9.0	Validation DPP Release			
NV4x coreboot+Heads v0.9.2		Validation DPP Release		
NV4x coreboot+SeaBIOS v1.7.2.x		Validation DPP Release		

Dasharo Community Support Roadmap | December 2024 (v0.8) | CC-BY-SA-4.0

Dasharo Desktop Dell OptiPlex 7010/9010 Roadmap

subject to change



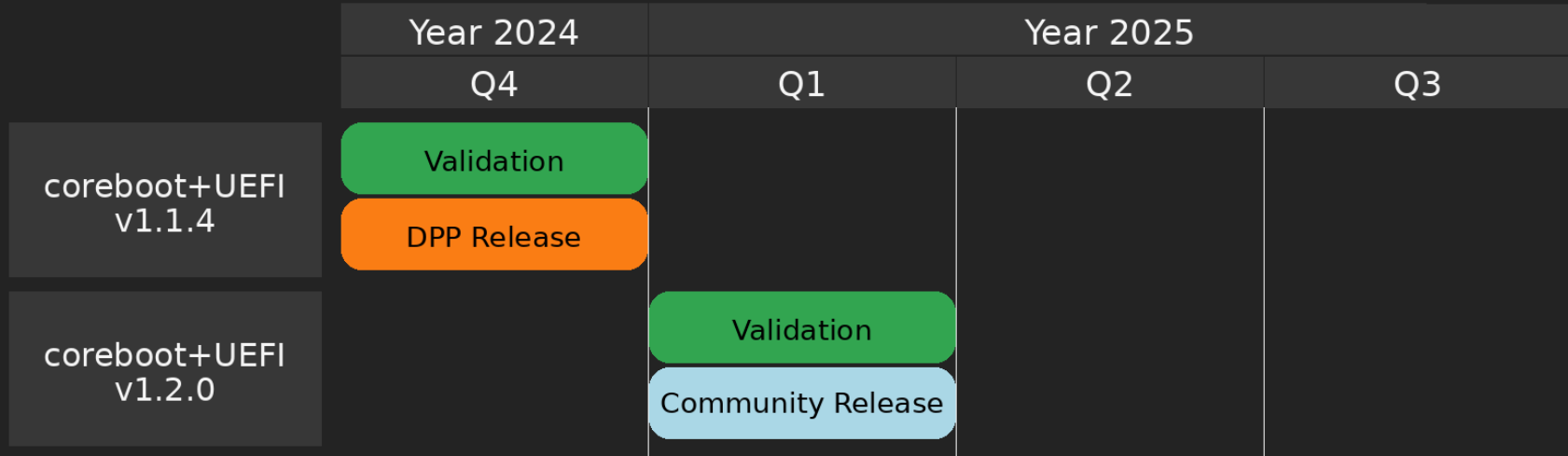
	Year 2024	Year 2025		
	Q4	Q1	Q2	Q3
coreboot+SeaBIOS v0.1.1	Validation			
	DPP Release			

Dasharo Community Support Roadmap | December 2024 (v0.8) | CC-BY-SA-4.0

- Release is very close to be published. All code related tasks are completed.
- We are now validating the platform. We face some struggles because of OSFV lack support for SeaBIOS (hence QEMU Q35 coreboot+SeaBIOS release). More about that in OSFV status presentation.
- After adding SeaBIOS support we should get more streamlined support for Dell OptiPlex and PC Engines releases.

Dasharo Desktop MSI PRO Z690-A Roadmap

subject to change



Dasharo Community Support Roadmap | December 2024 (v0.8) | CC-BY-SA-4.0

- v1.1.4 was released according to schedule. Release notes can be found [here](#).
- Since releases for MSI PRO Z690-A and Z790-P are identical we will discuss those in details on later slides.

Dasharo Desktop MSI PRO Z790-P Roadmap

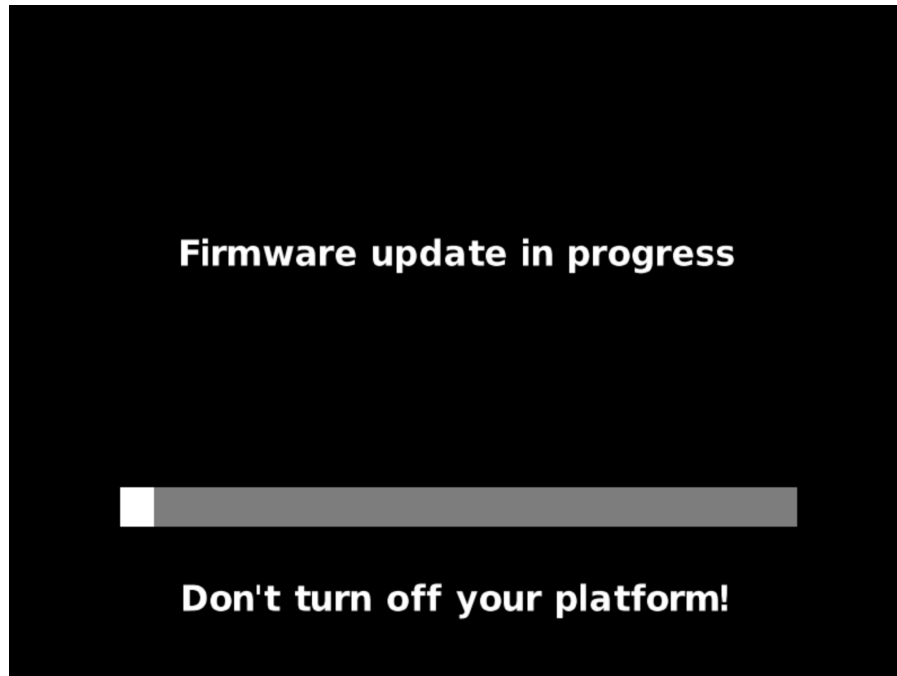
subject to change



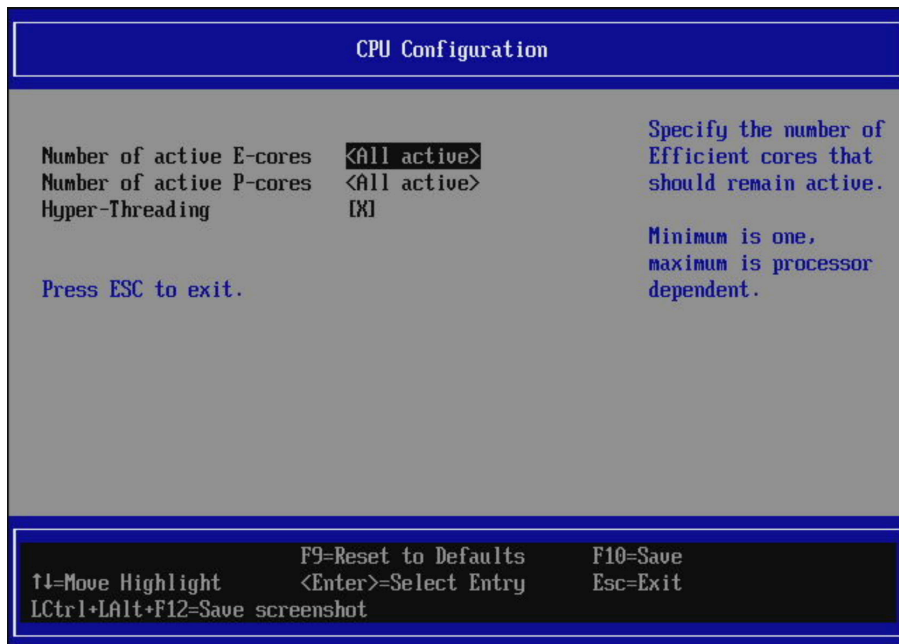
	Year 2024	Year 2025		
	Q4	Q1	Q2	Q3
coreboot+UEFI v0.9.2	DPP Release			
coreboot+UEFI v1.0.0		Validation Community Release		

Dasharo Community Support Roadmap | December 2024 (v0.8) | CC-BY-SA-4.0

- v0.9.2 was released according to schedule. Release notes can be found [here](#).



- [UEFI Update Capsules for Open Source firmware](#)
- [UEFI Capsule Update in Dasharo Universe](#)



- CPU Configuration in Dasharo Universe

- Now you can change:
 - Number of Active P-cores
 - Number of Active E-cores
 - Hyper-Threading status

CPU Configuration

Number of active E-cores <7>
Number of active P-cores < >
Hyper-Threading []

Press ESC to exit.

All active
7
6
5
4
3
2
1

Specify the number of Performance cores that should remain active.

Minimum is one, maximum is processor dependent.

↑↓=Move Highlight <Enter>=Complete Entry Esc=Exit Entry
LCtrl+LAlt+F12=Save screenshot

CPU Configuration

Number of active E-cores < >
Number of active P-cores < >
Hyper-Threading []

Press ESC to exit.

All active
11
10
9
8
7
6
5
4
3
2
1
0

Specify the number of
Efficient cores that
should remain active.

Minimum is one,
maximum is processor
dependent.

↑↓=Move Highlight <Enter>=Complete Entry Esc=Exit Entry
LCtrl+LAlt+F12=Save screenshot

- Dasharo EDKII fork updated from `edk2-stable202002` to `edk2-stable202402`.
- It is hard to enumerate all issues this update fixes.
- Roughly looking at sum of TianoCore Bugzilla tickets that updates cover over 1100 of those.
 - `7055 files changed, 1046876 insertions(+), 528841 deletions(-)`
 - Of course not all are relevant to Dasharo use of EDKII.
- Some notable fixes, which catch our eye:
 - [CVE-2022-36763](#) - [Heap Buffer Overflow in Tcg2MeasureGptTable\(\)](#)
 - [CryptoPkg: consume OpenSSL 3.0](#)
 - [When setting a new PK in setup mode, PK should not be required to be self-signed](#)
 - [Make package and platform builds reproducible across source format changes](#)
 - XHCI fixes
 - Coverity scan fixes
 - ACPI 6.4 support
- If you are interested in full story behind this update please check [issue #432](#).
- New EDKII base would be gradually introduced in all Dasharo (coreboot+UEFI) releases.

Prioritize TPM2.0 usage and support multiple TPMs in coreboot

miczyg1 commented on Jun 8, 2022 Member ...



The problem you're addressing (if any)
coreboot has a compile time option not choose one of the TPMs: TPM1.2, TPM 2.0 SPI/LPC memory mapped, TPM 2.0 CRB memory mapped. Using fTPM or dTPM dynamically is not possible.

Describe the solution you'd like
Unify TPM drivers in coreboot. TPM 2.0 is first priority then TPM 1.2 eventually. TPM 1.2 support is being neglected by modern platforms.

Where is the value to a user, and who might that user be?
User will be able to dynamically switch between dTPM/fTPM with [#112](#)
Also, this will prevent bricks when vboot is enabled and secdata is not mocked for fTPM.

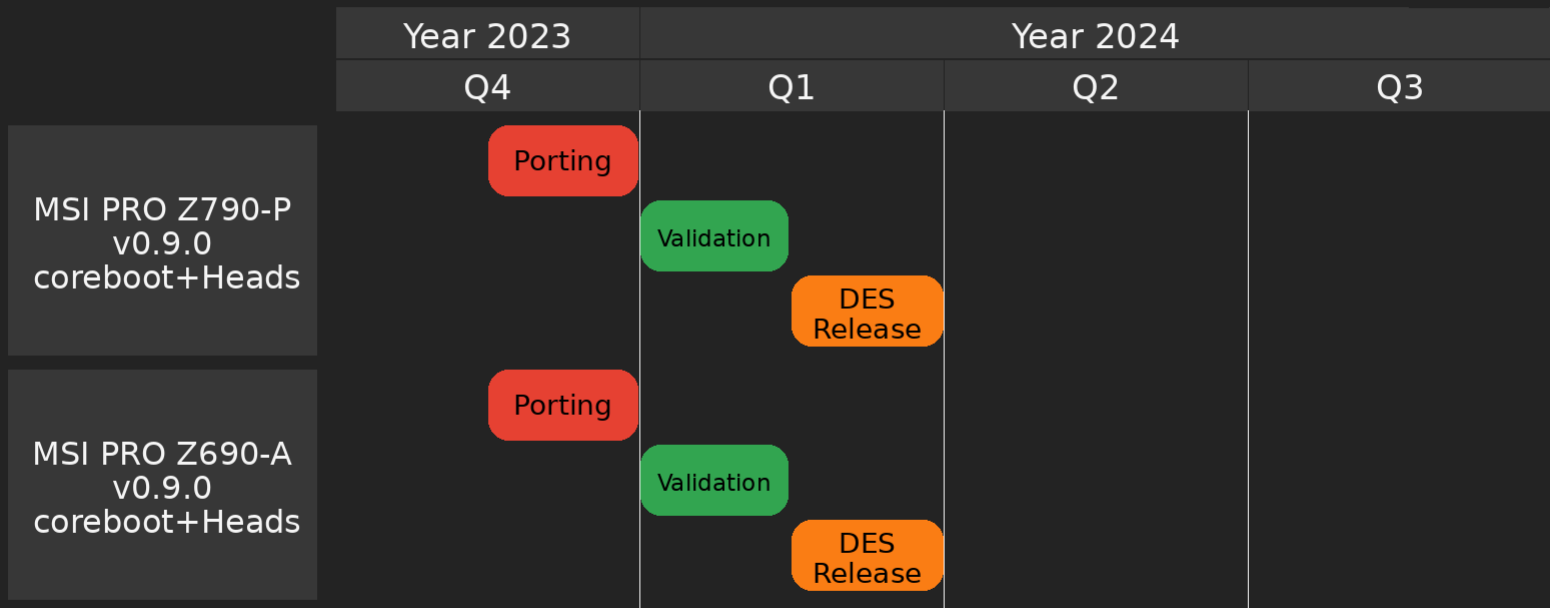
Describe alternatives you've considered
None

Additional context
None

  1

Dasharo Desktop Roadmap

subject to change



Dasharo Community Support Roadmap | September 2024 (v0.7) | CC-BY-SA-4.0

- Dasharo (coreboot+Heads) for MSI plans will be announced during next DUG, it is very likely releases will have in first half of 2025.

The image features a dark gray background with light gray, stylized circuit board traces in the corners. These traces consist of straight lines that meet at right angles, with small circular nodes at the junctions and endpoints. The traces are located in the top-left, top-right, and bottom-right corners, framing the central text.

Q&A

The background is a dark gray color. In the corners, there are decorative elements resembling circuit board traces. On the left side, there are several vertical lines that branch out horizontally and then vertically again, ending in small circular nodes. On the right side, there are several diagonal lines that branch out horizontally and then vertically again, also ending in small circular nodes. At the bottom right, there are a few more horizontal and diagonal lines with circular nodes.

CHANGELOG

Changelog DUG#8

- (NEW) QEMU Q35 v24.08.00.01 planned for Q1'25
- (REMOVED) PC Engines apu2/3/4/6 Dasharo (creboot+SeaBIOS) legacy planned for Q4'24
- (CHANGED) PC Engines apu2/3/4/6 Dasharo (coreboot+UEFI) v0.9.1 planned for Q4'24
- (CHANGED) PC Engines apu2/3/4/6 Dasharo (creboot+SeaBIOS) v24.08.00.01 planned for Q3'24
- (CHANGED) Protectli VP4670 planned for Q4'24
- (REMOVED) MinnowBoard Turbot Dasharo(coreboot+UEFI) planned for Q3'24
- (CHANGED) Hardkernel Odroid-H4 Dasharo(coreboot+UEFI) planned for Q4'24
- (NEW) V56TU Dasharo (coreboot+Heads) v0.9.0 planned for Q4'24
- (NEW) NV4x Dasharo (coreboot+Heads) v0.9.2 planned for Q1'25
- (CHANGED) NV4x Dasharo (coreboot+SeaBIOS) v1.7.2.x planned for Q1'25
- (CHANGED) Dell OptiPlex 7010/9010 v0.1.0 planned for Q3'24
- (RELEASED) MSI Z690-A v1.1.4 planned for Q4'24
- (CHANGED) MSI Z690-A v1.2.0 planned for Q4'24

Changelog DUG#8

- (RELEASED) MSI Z790-P v0.9.2 planned for Q4'24
- (CHANGED) MSI Z790-P v1.0.0 planned for Q4'24

The background is a dark gray color with decorative circuit-like lines in a lighter gray color. These lines are located in the corners of the image, forming various geometric shapes and paths. In the center, the text "Q&A" is displayed in a bright green color.

Q&A