

STUDY4

為 學 習 而 生

B Build School

.NET Conf TAIWAN



STUDY4

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08
AUGUST
2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 Aug	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1 Sep	2	3

09

SEPTEMBER 2011

10
OCTOBER
2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
10 Oct	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1 Nov	2	3	4	5

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31	1 Sep	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

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為學習而生





Main Dishes

Chicken Sandwiches	10 \$
Sphagetti	10 \$
Blackpepper Burger	15 \$
Deluxe Burger	20 \$
Grilled Chicken	11 \$
Beef Stroganof	13 \$

Drinks

Espresso	8 \$
Black Coffee	10 \$
Frappe Chocolate	12 \$
Classic Ice Tea	5 \$
Thai Tea	10 \$
Green Tea Latte	12 \$

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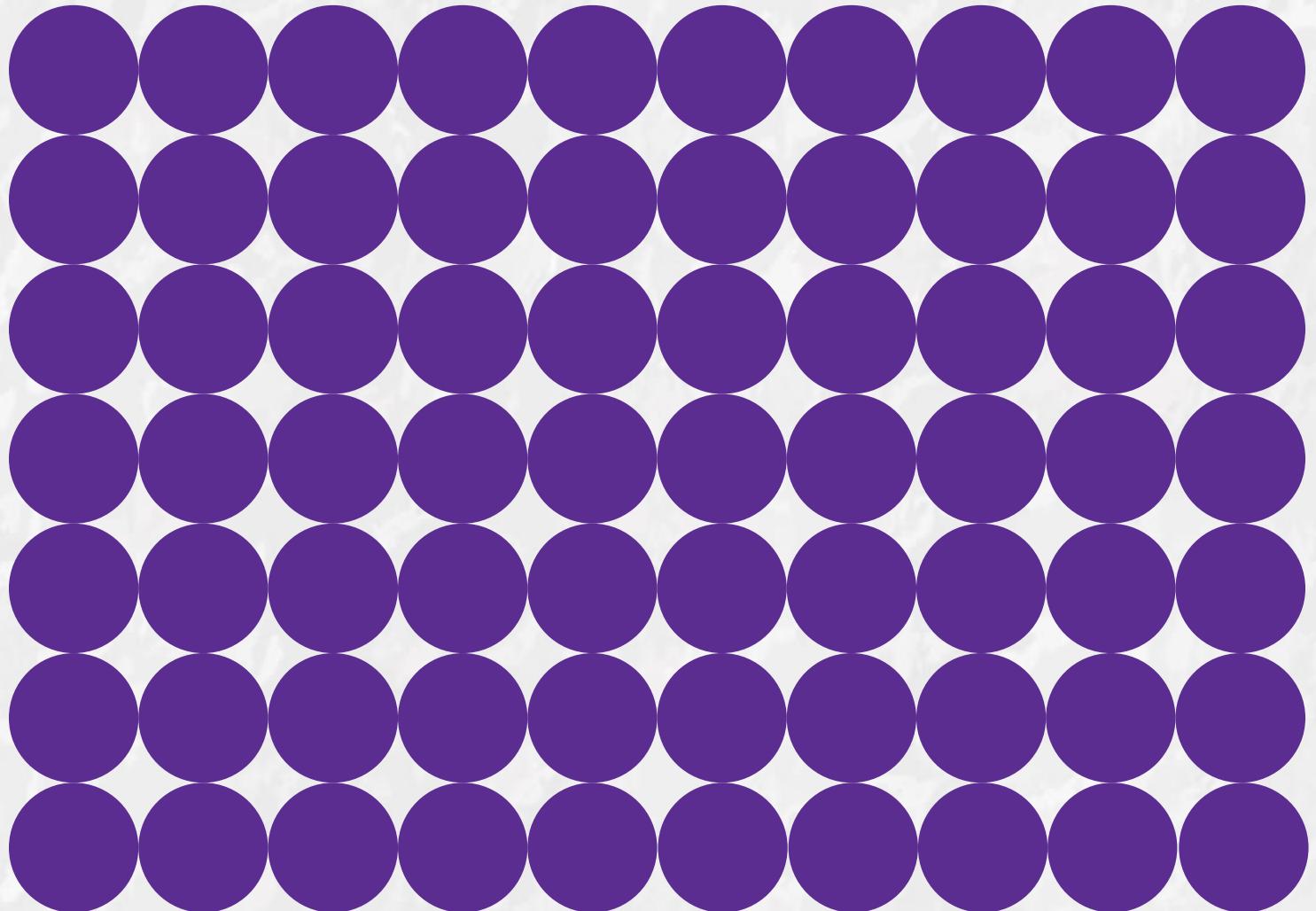
為學習而生

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A large, dense crowd of diverse people of various ages, ethnicities, and styles are standing behind the text 'NETConf'.

NETConf

STUDY4
為學習而生

 **Build School**

.NET Conf

探索.NET 新世界



STUDY4

為 學 習 而 生

您捐款，我贈書

疫情這些年我們經歷了前所未有的挑戰，偏鄉、弱勢的學童這段期間所遇到的顛簸也更加不平靜，
STUDY4 邀請您一同幫助所需要幫助的學童。

於 .NET Conf 2023 Taiwan 活動期間向大會出示成功捐款的畫面，即可索取擺放在桌上的一本書籍，讓我們一起用學習讓世界充滿希望。

- ◆ 本活動不限定捐款單位，您可以選擇平時捐助的單位進行捐款

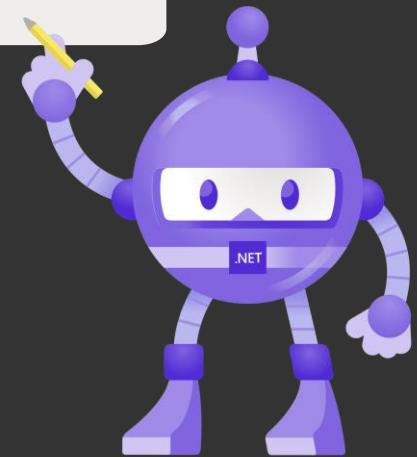




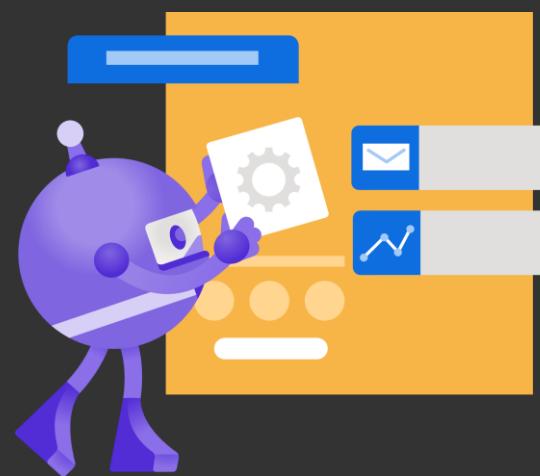
Build a community with open collaboration.



兩天議程的共筆
在這裡！



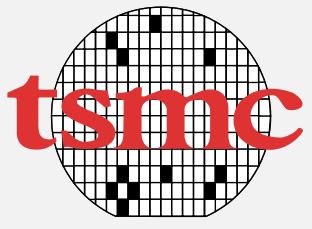
活動問卷



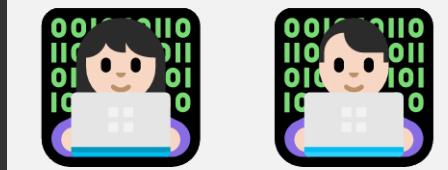
s.study4.tw/dnc2023-survey

特別感謝

.NET Conf TAIWAN



成 功



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以及各位參與活動的你們

About Performance

Most performant release yet

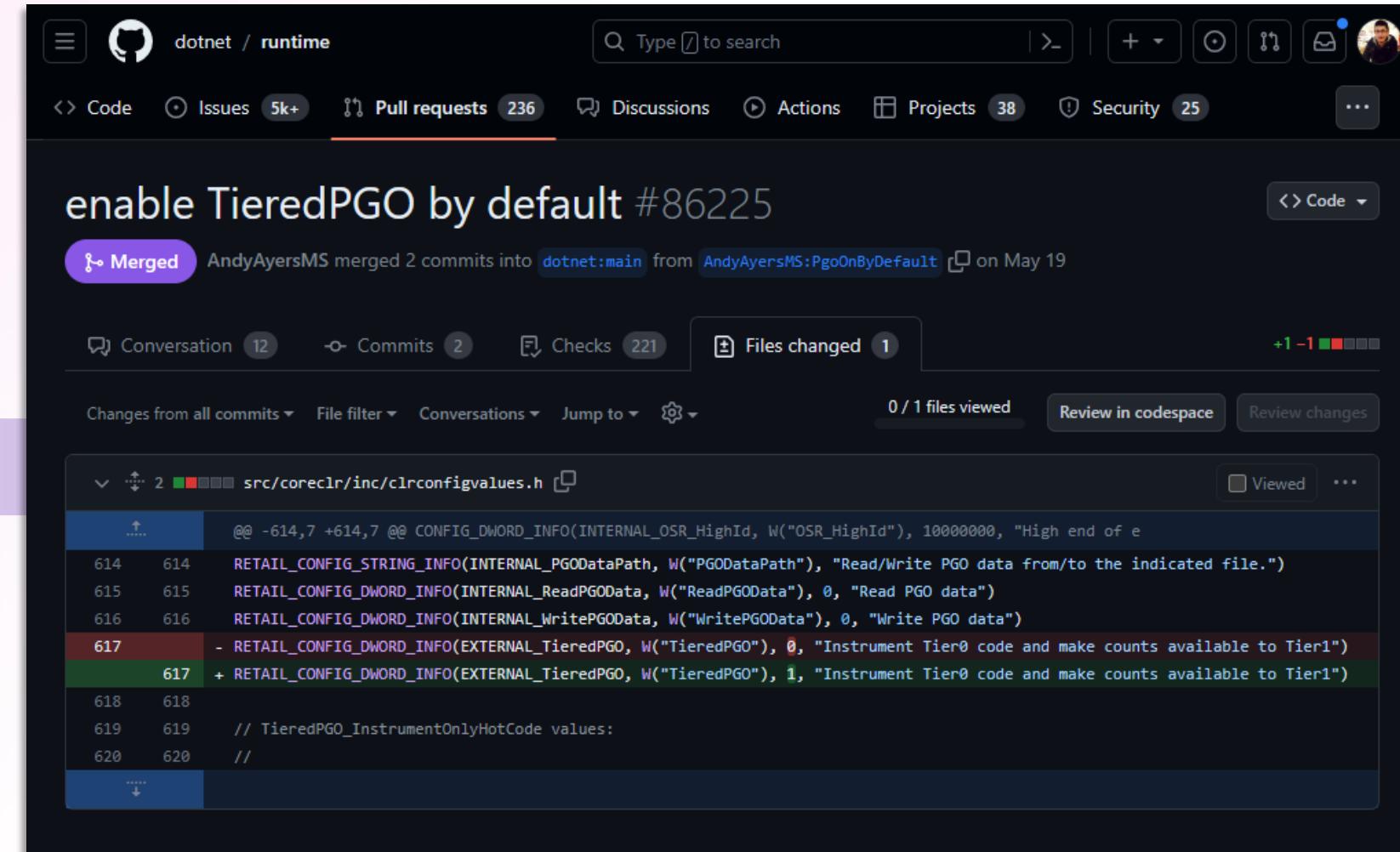
Performance-related improvements

250+

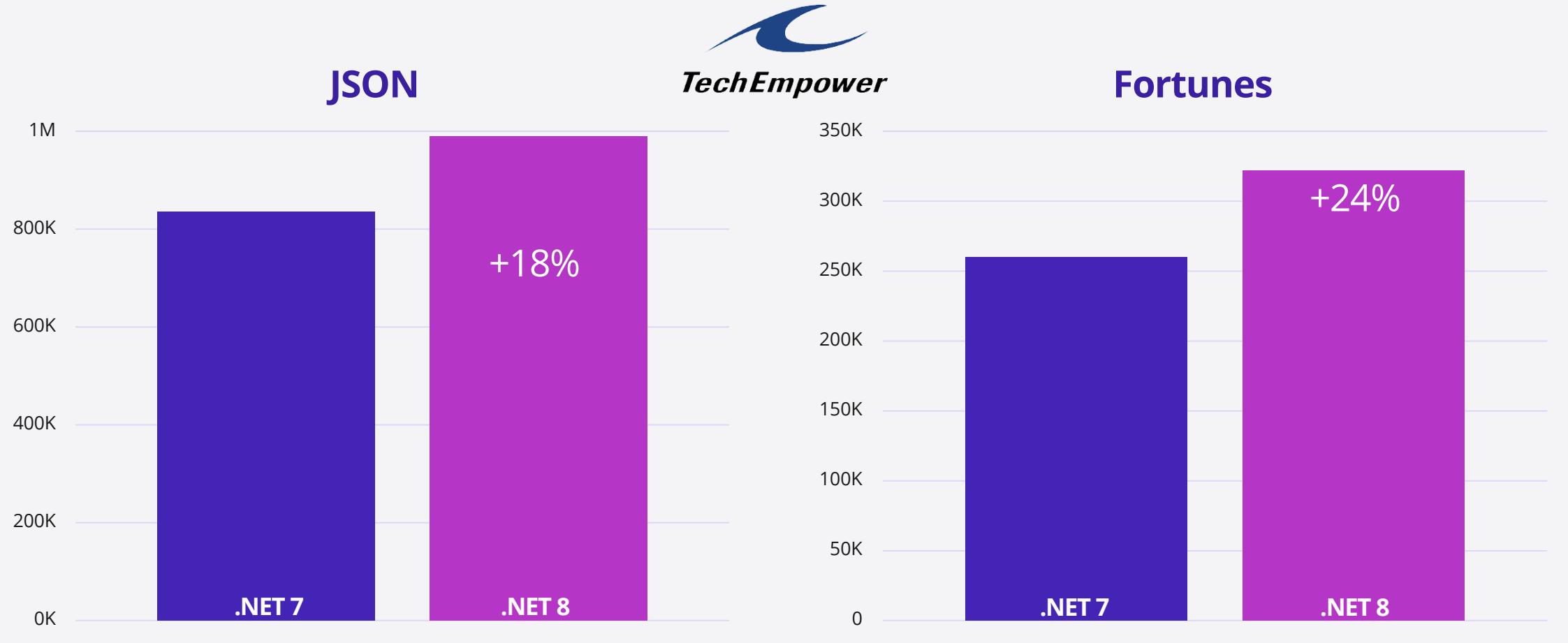
550+

.NET 5

.NET 6

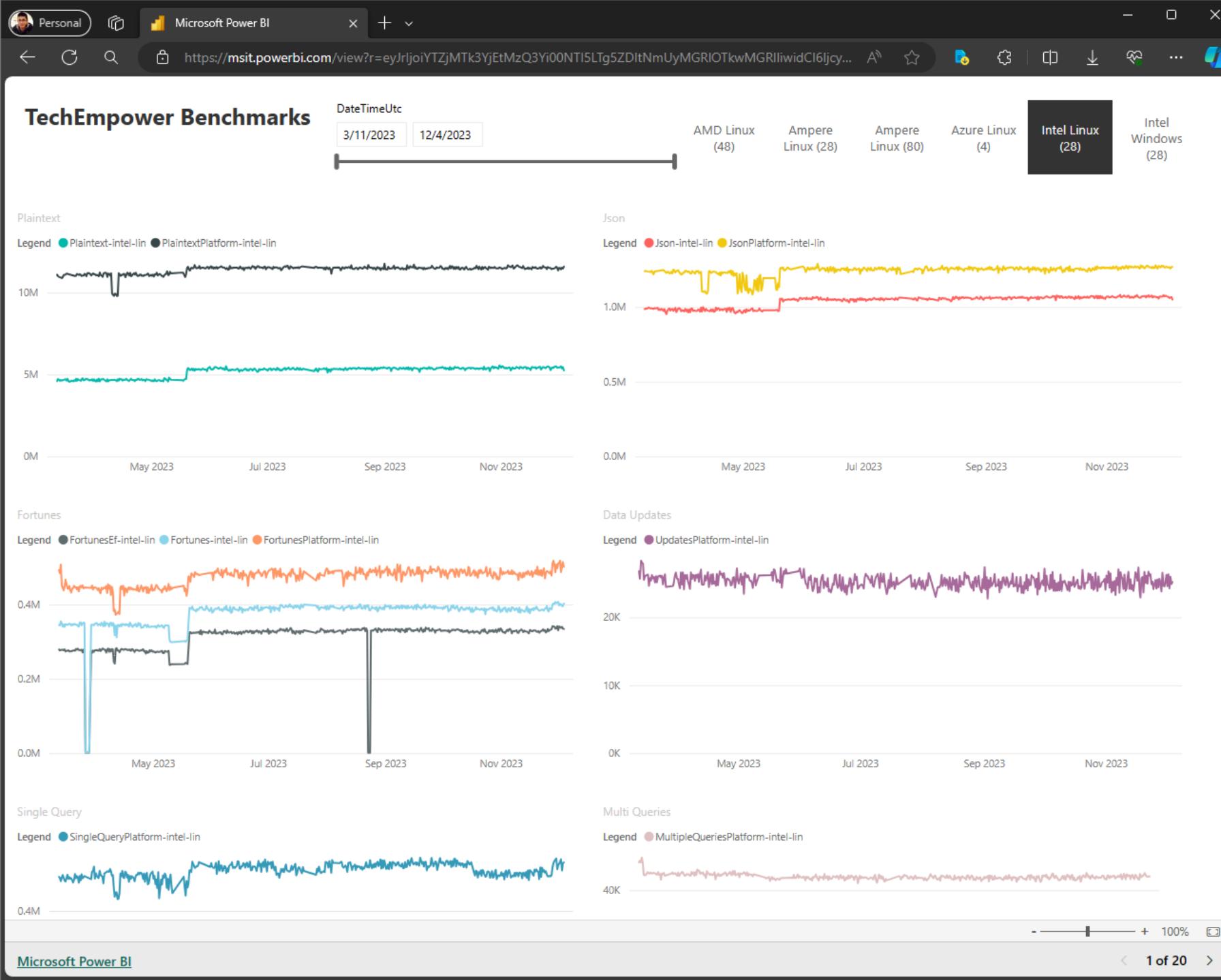


.NET 8 API Performance



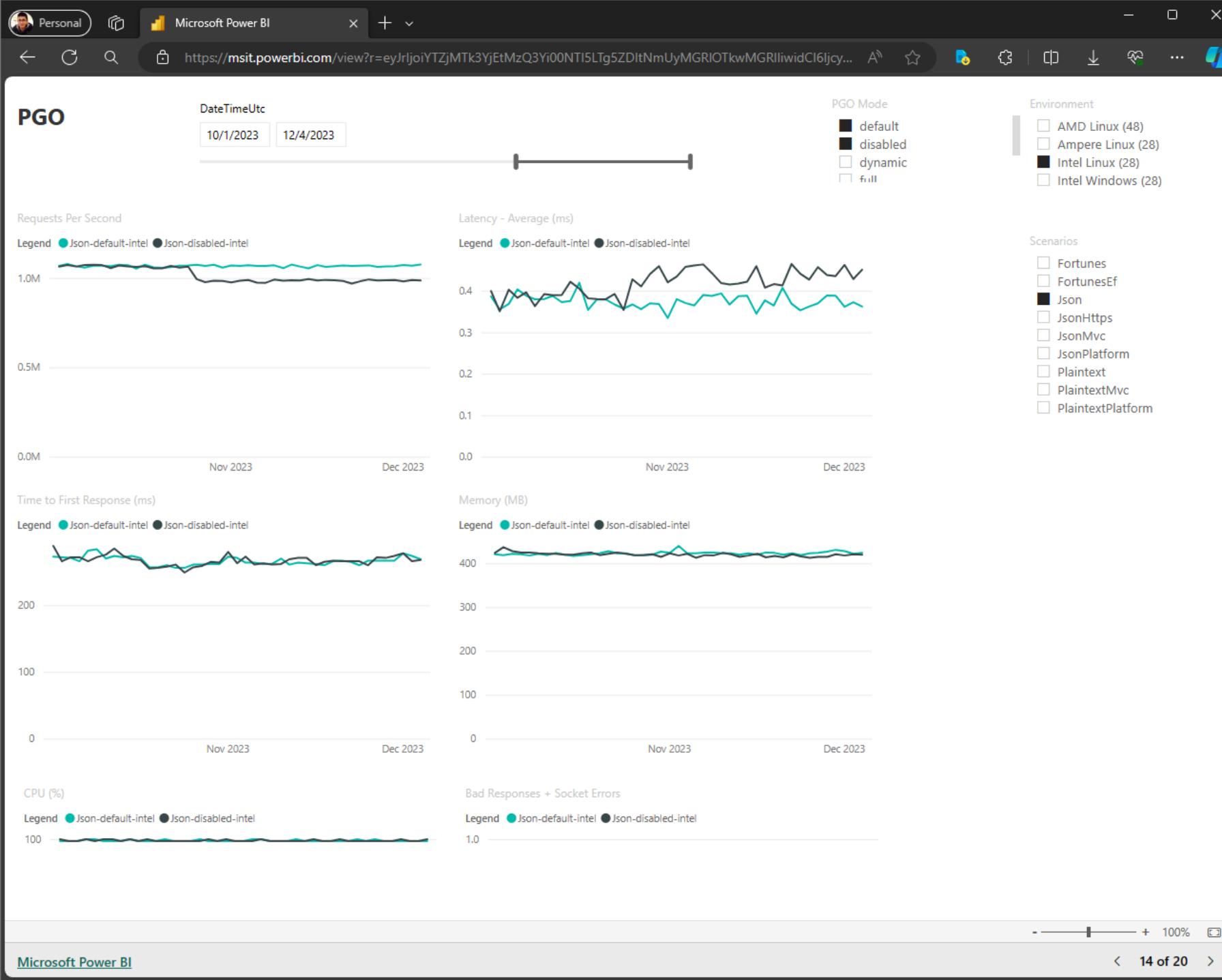
Source: aka.ms/aspnet/benchmarks

Requests per Second (higher is better)



TechEmpower
Composite Score
Benchmarks
KPIs
SignalR
MVC
CrossGen2 Trends
EF Core
gRPC
Mono
Single File
Blazor Wasm
Proxies
PGO
Builds
Containers
WebSockets
Native AOT
HttpClient
GC

aka.ms/aspnet/benchmarks



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 GC

aka.ms/aspnet/benchmarks

Containers

.NET ❤ Containers



Hardened



Smaller



More Productive

Non-Root Base Images

AOT base images

Publish with .NET SDK

USER "app"

"Composite" base images

Cross compilation

Default port - 8080

"extra" base images

Non-root by default

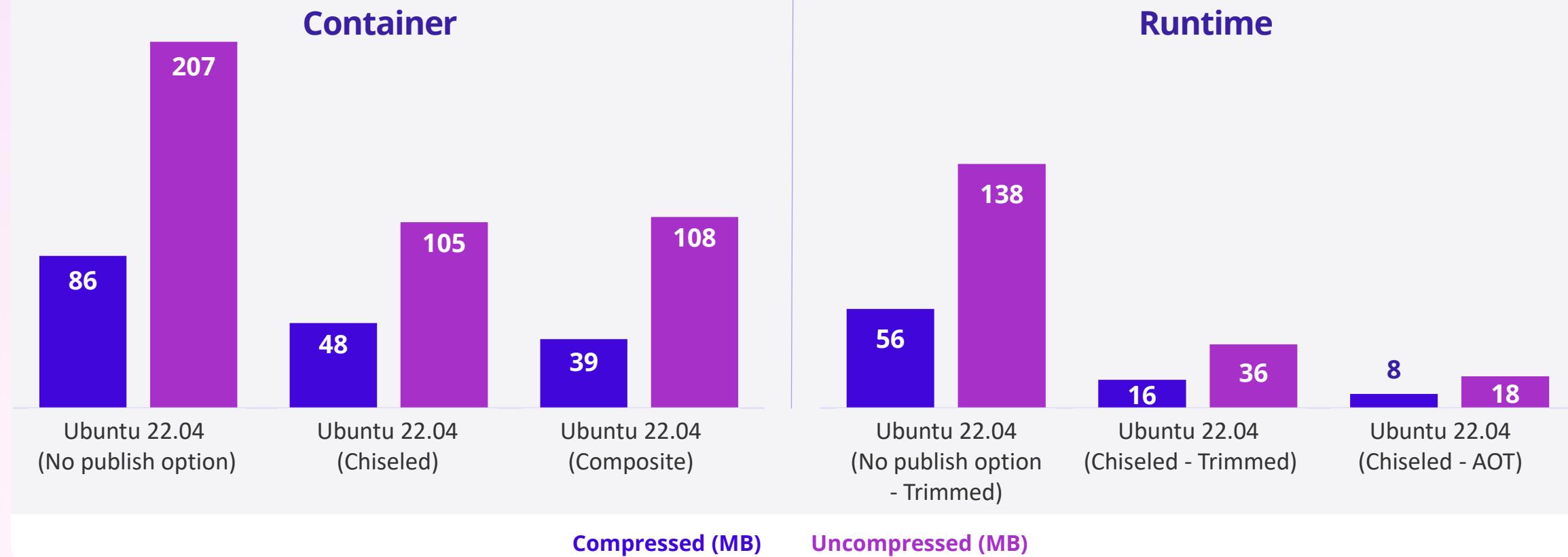
Mariner distroless

Distroless / Chiseled

Supports all Azure auth

Container Size Improvements

Optimizations



Container Size Improvements

.NET Containers (in general)



Notes:

- Sizes are compressed
- Running sum

.NET Containers (Chiseled)

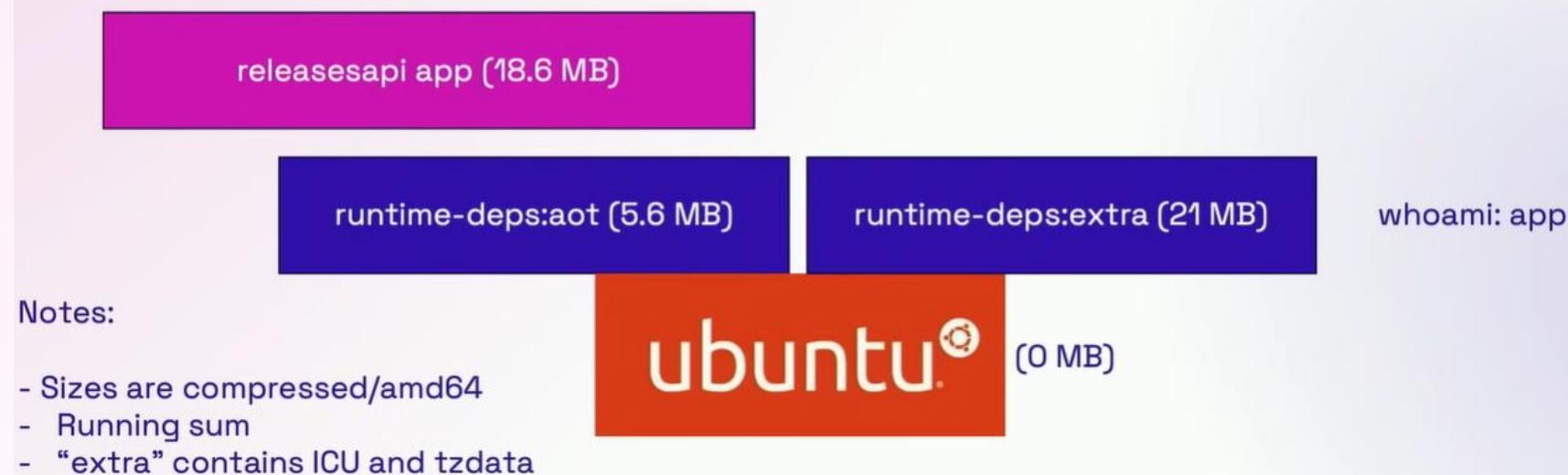


Notes:

- Sizes are compressed/amd64
- Running sum

Container Size Improvements

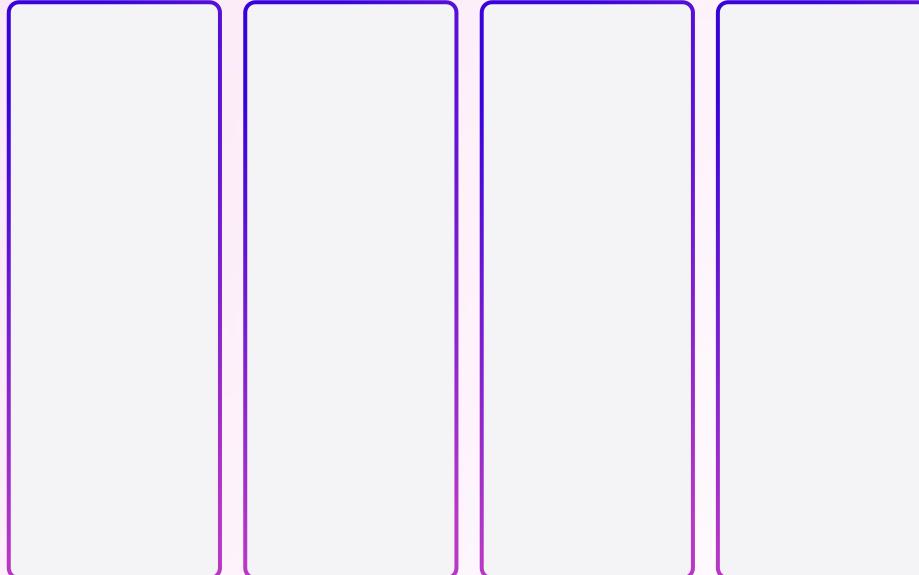
.NET Containers (Chiseled + .NET AOT)



Native AOT

Before Native AOT

95 MB **87 MB** **142ms** **809K**



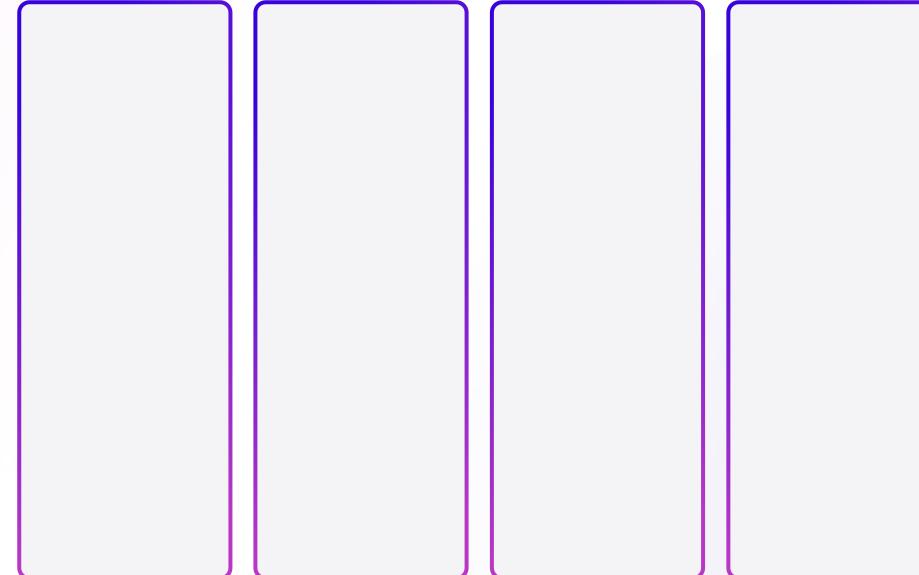
Published
Size Working
Set Startup

RPS

Linux



97 MB **83 MB** **309ms** **746K**



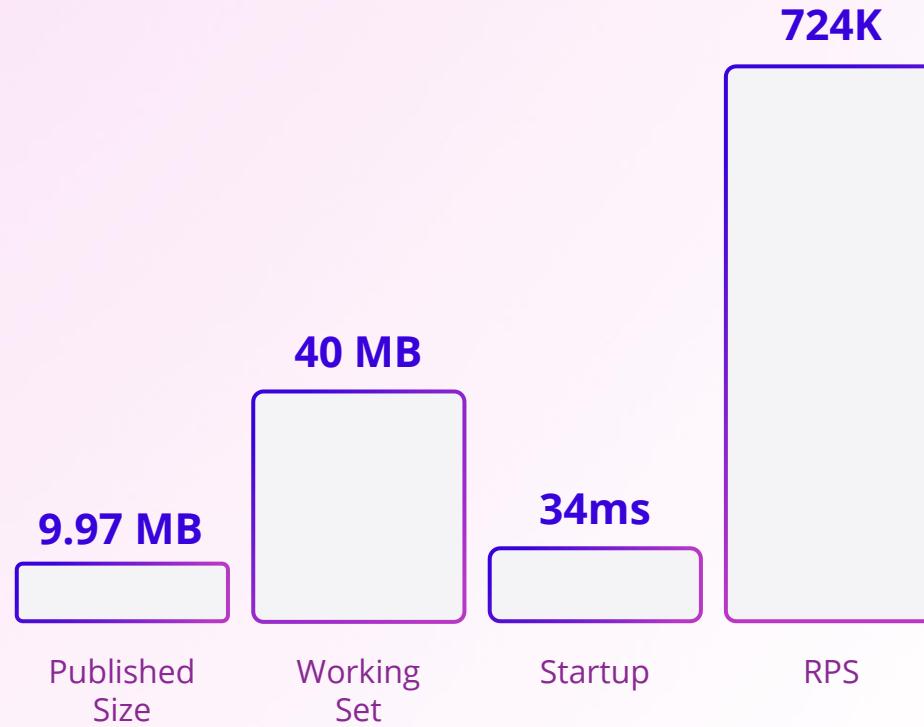
Published
Size Working
Set Startup

RPS

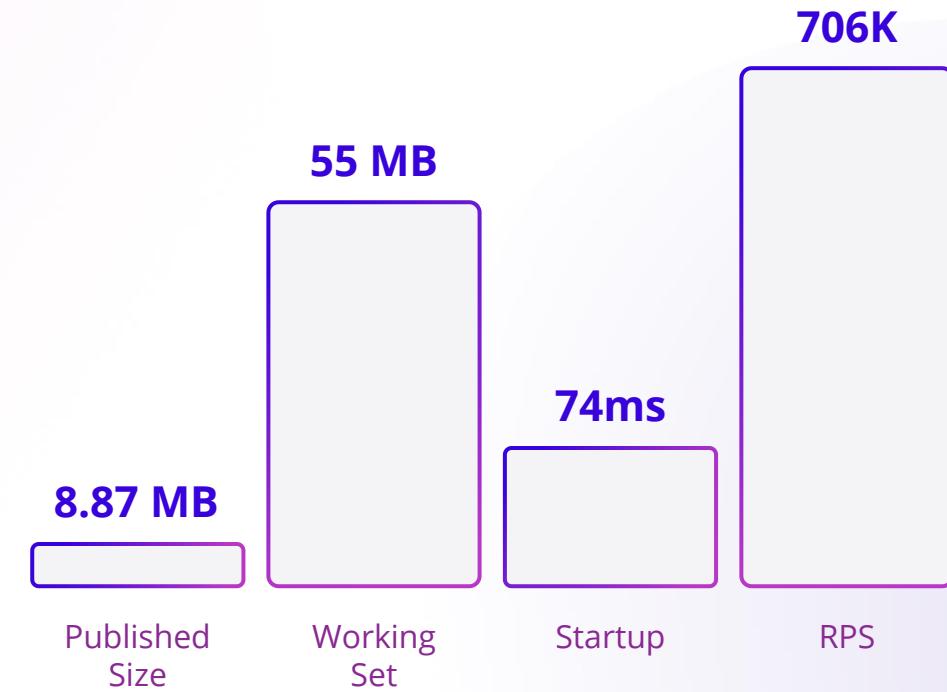
Windows



Native AOT in .NET 8



Linux



12/10 13:20 – 14:10 和碩講堂



有在關注 AOT 嗎？ You Should
Kevin Yang

ASP.NET Core

Full Stack Web Apps

Your Full Stack Web Platform with .NET



Web UI



APIs



Data



Server

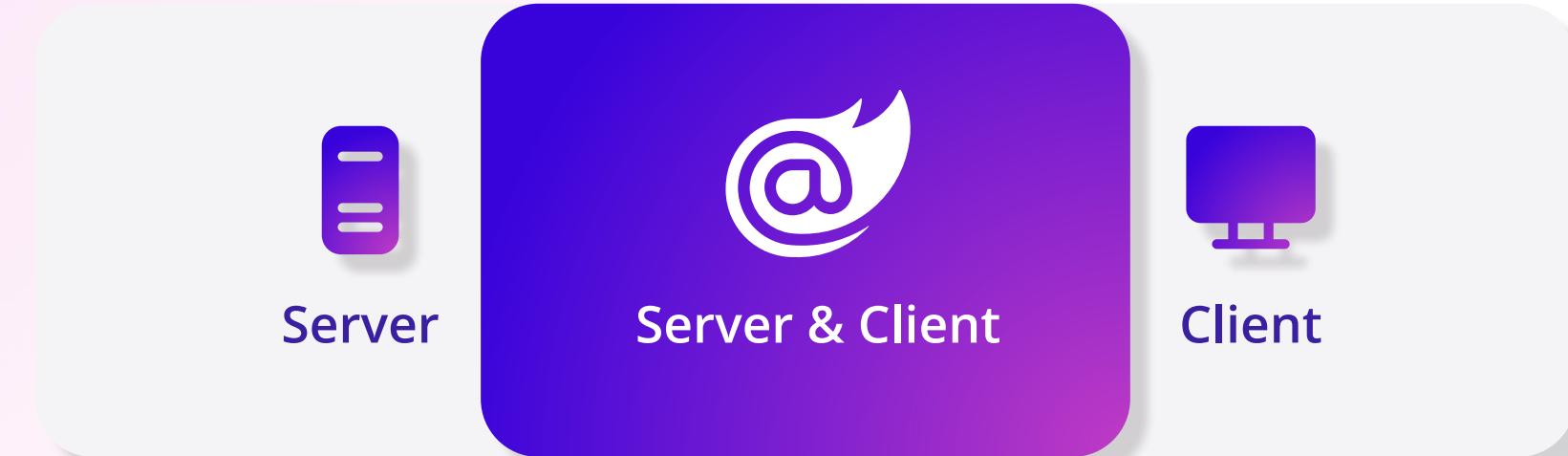


Security



Tooling

Full stack web UI with Blazor



Static server rendering

Enhanced navigation & form handling

Streaming rendering

Enable interactivity per component or page

Auto select the render mode at runtime

Blazor in .NET 8



Faster WebAssembly



New components

20% faster UI rendering

Hot Reload improvements

Web-friendly packaging

Display data with QuickGrid

Section outlets

Authentication & identity

.NET APIs



Performance



Productivity



Developer Experience

Artificial Intelligence

Leveraging Large Language Models
and Generative AI in .NET

Artificial Intelligence

Transform your .NET Applications with AI Today

.NET ❤️ AI



Out of the box
AI features



Easy to get started
with Azure Open AI
and Azure Cognitive
Search SDKs



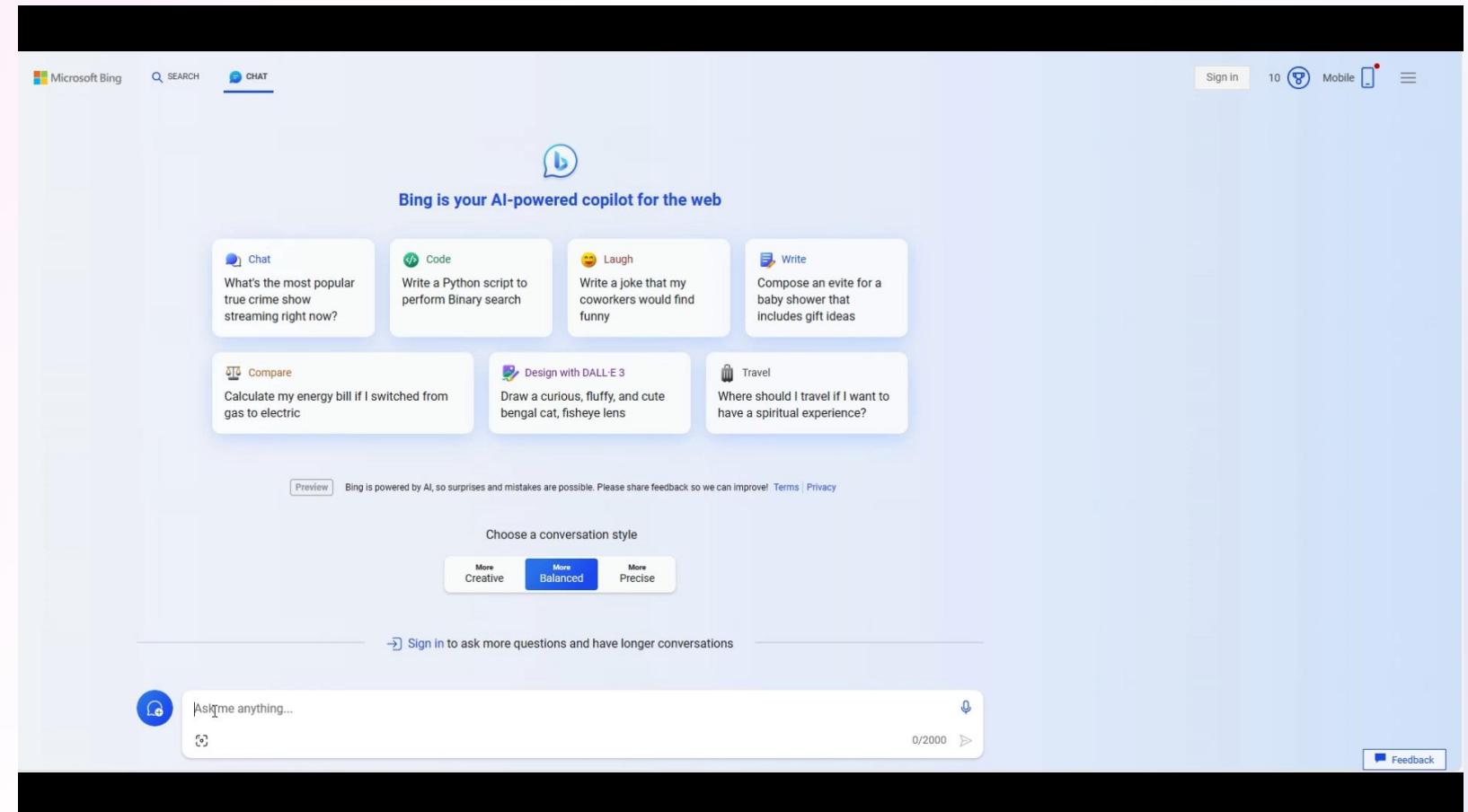
Large Language Model
integration with
Semantic Kernel



Fast growing
AI ecosystem

Microsoft AI experiences

Powered
by .NET





"C# and .NET are the **go-to language and framework** for our software development organization. Not only do they **allow us to build highly scalable applications and websites** like stackoverflow.com, but with all the excellent tooling available, they **support the entire development lifecycle** from rapid prototyping and iteration to alpha to full-fledged product offerings like our OverflowAI product."

Ben Matthews
Director Of Engineering
Stack Overflow

Intel oneDAL



“Our partnership with Microsoft showcases Intel's commitment to empower .NET developers in **incorporating AI seamlessly** into their applications.

By integrating the Intel oneAPI Data Analytics Library (oneDAL) with .NET, we're making it **straightforward for developers** to tap into accelerated AI and ML capabilities.”

Wei Li

VP, General Manager for Datacenter AI Solutions

Intel

Visual Studio Family

Released



Visual Studio 2022 v17.8 GA

Modern development
for .NET 8 using WSL2

GitHub Copilot boosts your
developer output with AI

Improved collaboration,
add reviews to pull requests

visualstudio.com/download

The screenshot displays the Visual Studio 2022 interface with several open windows:

- Git Repository - eShopOnWeb**: Shows branches like master, remotes/origin, and codespace-1.
- Local History**: A timeline of recent commits, including "Upgrade to use Specification 4.0....", "Docker working without ConfigureAppConfig...", and "Removing AuthService and fixing Dockerfile for PublicApi".
- Code Editor**: An open file showing C# code for a test method. The code includes:


```

14
15     [TestMethod]
16     public async Task ReturnsNotFoundGivenInvalidId()
17     {
18         var response = await ProgramTest.NewClient.GetAsync("api/catalog-items/0");
19         Assert.AreEqual(HttpStatusCode.NotFound, response.StatusCode);
20     }
21
22     [TestMethod]
23     public void ReturnsOkGivenValidId()
24     {
25     }
26 }
```
- Output Window**: Shows a diagnostics session report with UI thread utilization and visual throughput data.

12/10 10:10 – 11:00 社科 201

Visual Studio 2022 開發工具大補帖
Bruce Chen





aka.ms/csdevkit

aka.ms/mauidevkit

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