Open Mainframe Summit

Transparency Report
September 22–23, 2021

Open Mainframe Project has experienced record growth in contributions this year—with more than 105.31 million lines of code written and over 9,600 commits submitted by Open Mainframe Project communities so far this year.

This is 100 percent more code than last year with an increased number of active participants in the 20 project and working groups. These numbers will only increase as Open Mainframe continues to be the cornerstone of governance and innovation for modernizing the mainframe and its path to IoT, Cloud and Edge Computing.

As such, it is clear that there is an appetite for more mainframe specific content focusing on the growing open source technologies in the industry. For the second consecutive year, Open Mainframe Project hosted its flagship event virtually again on September 22-23.

The theme of this year's Open Mainframe Summit expanded beyond the mainframe to highlight influencers with strengths in the areas supporting or leveraging the technology like continuous delivery, edge computing, financial services and open source. Keynote speakers for the event included Gabriele Columbro, Executive Director of Fintech Open Source Foundation (FINOS); Jason Shepherd, Vice President of Ecosystem at ZEDEDA and Chair of the LF Edge Governing Board; Jono Bacon, a leading community and collaboration speaker and founder of Jono Bacon Consulting; Steve Winslow, Vice President of Compliance and Legal at The Linux Foundation; Tracy Ragan, CEO and Co-Founder of DeployHub and Continuous Delivery Foundation Board Member, and more.

Open Source, Open Culture	Open Source in Finance	DevOps & CD	Edge Computing	Open Source Security & Compliance
JONO BACON	**GABRIELE COLUMBRO**	**TRACY RAGAN**	**JASON SHEPHERD**	**STEVE WINSLOW**
Jono Bacon Consulting, Founder	*FINOS,* Executive Director	*DeployHub,* CEO & Co-Founder; *Continuous Delivery Foundation,* Board Member	*ZEDEDA,* VP of Ecosystem	*The Linux Foundation,* VP of Compliance & Legal

The event also highlighted projects, diversity and business topics that will offer seasoned professionals, developers, students and leaders an opportunity to share best practices and network with like-minded individuals.

Open Mainframe Summit ended with 219 registered attendees that represented 83 companies. During the conference there were 167 unique users on the platform, a 77% attendance rate, which is a slight increase when compared to last year.

The conference was made possible thanks to Platinum Sponsors Broadcom, IBM, Rocket Software and SUSE; Gold Sponsors Micro Focus and Vicom Infinity; Silver Sponsor BMC; and Academic and Community Sponsors CD Foundation and FINOS.

Content

The two-day conference featured 35 sessions, including keynotes, breakout sessions, and lightning talks that had a mix of executive and technical content.

Some of the highlights as noted by attendees:

- Integrating Tessia for Self-Provisioning of Linux Distributions on Z – Alexander Efremkin, IBM

- Feilong: The Open Source API for z/VM Automation – Mike Friesenegger, SUSE

- USS, Linux on Z or zCX: Where, oh Where to Run Open Source - Tatiana Balaburkina & Vladimir Kudryakov, Rocket Software

- DIY: Zowe Explorer Starter Kit – Jessielaine Punongbayan and Richelle Anne Craw, Broadcom

Diversity & Inclusion

With a commitment to diversity, equity and inclusion, Open Mainframe Project worked closely with the CHAOSS Diversity & Inclusion Badging Program, which encourages events to obtain D&I badges for leadership, self-reflection, and self-improvement on issues critical to building the Internet as a social good. With more than 40% female speakers, Open Mainframe Summit earned a Gold Badge for prioritizing diversity and inclusion.

Open Mainframe Summit 2021 drew attendees from 22 countries. Additionally, 24% of attendees were women and gender non-conforming.

There were also several diversity, equity and inclusion focused sessions including:

Mainframe Mavens: 5 Women to Know – Stacey Miller, SUSE and Yvette LaMar, IBM

Making Our Strong Community Stronger – moderated by Dr. Gloria Chance, Mousai Group - Jeanne Glass, VirtualZ Computing; David Jeffries, IBM; Greg Lotko, Broadcom; Andy Youniss, Rocket Software

Avoid Unconscious Bias to Become a Better Colleague – Misty Decker, Micro Focus

News

At Open Mainframe Summit, the project made several announcements including:

- COBOL Survey Results - The COBOL Working Group launched a global survey to learn COBOL market, challenges, concerns and how companies are addressing these issues.

- The results showcase that COBOL is a proven staple with hundreds of billions of lines of production code used across many industries. The COBOL Working Group gave a preview of the survey data at Open Mainframe Summit. Watch this video: The Facts about COBOL

- GenevaERS, the single-pass optimization engine for data extraction and reporting on z/OS, graduated to be an active project, which signals the maturity of it. The project solidified a governance structure, grew the community base with active participants from different companies and created the GenevaERS R&D labs for exploring the architecture with other technologies like Apache Spark. Watch this video: The Mainframe, Open Source and Renewal of Financial Systems

- A new Zowe Conformant Support Provider Program, which gives vendors the ability to showcase their Zowe support competencies. Support providers self-attest to the criteria defined by the Zowe Technical Steering Committee, which gives consumers the confidence they need to use Zowe in business-critical environments. Watch this video: Zowe V1 Conformance the Meaning Behind the Badge

- Workflow WiZard, a new Zowe incubation project, helps developers and systems programmers simplify the generation and management of z/OSMF workflows. Contributed by BMC, this tool assembles a workflow by reading a library of workflow steps and a properties file. Watch this video: Workflow wiZard: A Flexible Workflow Creation Tool for z/OSMF

- ZEBRA provides re-usable and industry compliant JSON formatted RMF/SMF data records which enable ISV SW and users to exploit them using open-source software. Contributed by Vicom Infinity, ZEBRA started as a Zowe Mentorship in 2020 but has grown significantly to become a new Zowe incubation project. Watch this video: Introducing ZEBRA – an Incubation Project for Zowe.

- **The Debian s390x Working Group** aims to oversee the maintenance of the s390x port to ensure it remains an official architecture for Debian. The group has already started collecting resources that will help build a community-driven effort to support the port. The long term goal is to secure an official maintainer who will lead the engagement and share resources and perspectives of the Debian project community.

- **The Open z/OS Enablement Working Group** seeks to lower barriers to access z/OS, the premiere operating system for IBM System Z mainframes. As mainframes evolve, the shared nature of z/OS makes gaining access difficult. Unlike highly-partitioned cloud environments with no shared resources and thus low security risks, highly secured shared resources are the power behind z/OS.

- Open Mainframe Project welcomes EPAM Systems, a global provider of digital platform engineering and development services, and IN-COM, a leader in powerful application understanding tools, to its open source ecosystem.

Analysts & Media

Last year, 17 media, analysts, and influencers registered for Open Mainframe Summit, thanks to the relationships the Linux Foundation, Broadcom and Rocket Software had.

This year, 25 analysts and media registered for the event including:

Analysts

David Norfolk, Practice Leader for Development & Government, *Bloor Research*

Brent Ellis, Senior Analyst, *Forrester Research*

David Mooter, Senior Analyst, *Forrester Research*

Stefan van der Zijden, VP Analyst, *Gartner*

Katie Norton, Senior Research Analyst, *IDC*

Jim Mercer, Research Director, *IDC*

Pedro Luis Maschio, Research Author, *ISG Information Services Group*

Rich Ptak, Partner, *Ptak Associates*

Media

Cynthia Artin, Content Creator and Manager, *Artin Arts*

Juhi Fadia, Technology Journalist, *Artin Arts*

Todd Weiss, Managing Editor, *Enterprise AI News*

Denny Yost, Editor-in-Chief, *Enterprise Systems Media*

Swapnil Bhartiya, CEO and Producer, *The Fourth Industrial Revolution*

Monika Chauhan, Content Editor, *The Fourth Industrial Revolution*

Jennifer Bhartiya, Executive, *The Fourth Industrial Revolution*

Shannon Sowby, Freelancer

Arti Loftus, Freelance Technology Journalist

Trevor Eddolls, CEO, *ITech-Ed Ltd*

Jodi Ashley, Executive Producer, *MediaOps*

Charlene O'Hanlon, Chief Content Officer, *MediaOps*

Dan Meyer, Editor-in-Chief, *SDxCentral*

Dez Blanchfield, Founder/CEO, *Sociaall Inc*

Keelia Estrada Moeller, Senior Editor, *TechChannel*

Philip Cases, CEO, *Topio Networks*

David Marshall, Journalist, *VMblog*

Conclusion

Overall, the feedback about Open Mainframe Summit has been overwhelmingly positive. From the content to the speakers to the ease of use of the platform, the attendees were happy with the 2nd annual conference.

Open Mainframe Project would like to thank Greg MacKinnon, Distinguished Engineer at Broadcom, Inc; Joe Winchester, Technical Staff Member at IBM; Kimberly Andersson, Director of Experience Design at Rocket Software; Stacey Miller, Product Marketing Manager at SUSE; and Harry Williams, Chief Technology Officer at Marist College as the 2021 Open Mainframe Summit program committee. They helped develop a strong program that balanced executive tracks with technical sessions and a wide range of diverse speakers and topics within those categories.

With all of the positive feedback received from members, the community and attendees, we are excited to announce that Open Mainframe Summit 2022 will be held on September 21-22, 2022 in Philadelphia, PA! Sign up for event notifications here.

A snapshot of event demographics and survey results are below, in addition to social and media highlights.

Attendee Demographics

Total Registration:
219
169 **(77%)** attendance rate

Attendees from **22 Countries**

68%
of attendees came from the **United States**

Other countries with a sizeable audience at the event include:

5% UK   **5%** Czech Republic   **4%** India   **2%** Brazil   **2%** Canada

83 Companies **Participated**

Total leads captured at virtual exhibit booths were 409, with an average of 51 leads per booth.

Attendee Demographics
(out of 82% respondents)

68% Men   **24%** Women   **0%** Non-Binary   7% prefer not to answer

Racial Background
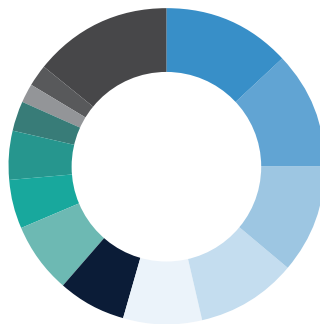(out of 12% respondents)

48% Asian   **37%** Black   **7%** Latinx   **4%** Pacific Islander
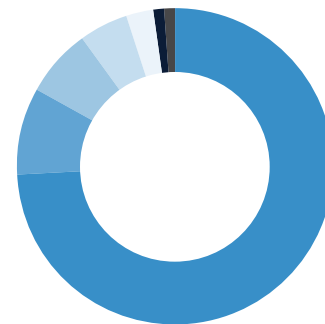
0% Indigenous Peoples
0% Self Identify
4% prefer not to answer
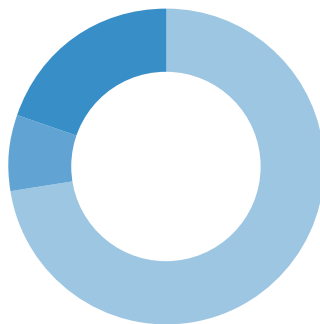
Event Demographics

Attendee Job Function

- Executive Leader **13%**
- Architect **12%**
- Application Developer (Front-end/Back-end/Mobile/Full Stack) **11%**
- Marketing **10%**
- Media/Analyst **8%**
- Manager - Technical Teams **7%**
- Student **7%**
- Manager - Other **5%**
- Product/Biz Dev **5%**
- DevOps/SRE/Sysadmin **3%**
- Professor/Academic **2%**
- Systems/Embedded Developer **2%**
- Other **14%**

Industry

- Information Technology **75%**
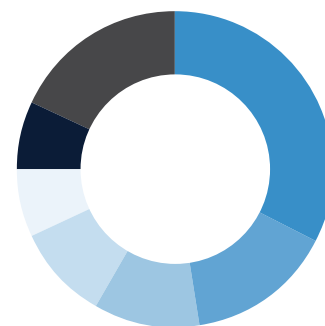- Financials **9%**
- Professional Services **7%**
- Non Profit Organization **5%**
- Automotive **3%**
- Health Care **1%**
- Telecommunications **1%**

Years of IT Experience

- 0–4 Years **20%**
- 5–9 Years **8%**
- 10+ Years **73%**

Job Level

- Individual Contributor **33%**
- Manager **15%**
- Director **11%**
- CXO/ED **10%**
- Academic **7%**
- VP/SVP/GM **7%**
- Other **18%**

Resources

Open Mainframe Project YouTube Channel

Year-Over-Year Comparisons

Registration

TYPE	2020	2021
Total	384	219
Attendee	164	115
Academic	144	5
Media	17	25
Speaker	49	68
Sponsor	10	8
Staff	10	6

Sponsorship

SPONSOR LEVEL	2020	2021
Platinum	3	4
Gold	2	2
Silver	1	1
Academic	0	2
Total Unique	6	9

Top 5 Keynotes

Keynote: Welcome & Opening Remarks
John Mertic, Director of Program Management,
Open Mainframe Project

Keynote: Our Journey to The Open, Modern Mainframe: Where Veterans and Next-Gens Meet
Hayden Lindsey, Vice President of Engineering &
Architecture, *Broadcom Inc, Mainframe Software Division*

Keynote: Open Source in Action: Ansible for z/OS
Skyla Loomis, Vice President, Z Application Platform,
IBM Systems Group

Keynote: Parts are Parts – the Joining of Mainframe, Distributed and Cloud Native Continuous Delivery
Tracy Ragan, CEO and Co-Founder / *DeployHub &
Continuous Delivery Foundation Board Member*

Keynote: Building Open Source Communities (Without The Pain)
Jono Bacon, Leading Community and Collaboration
Strategy Consultant, Author & Speaker

Top 5 Breakout Sessions

Panel Discussion: Making Our Strong Community Stronger
Dr. Gloria Chance, *Mousai Group;* Jeanne Glass,
VirtualZ Computing; David Jeffries, *IBM;* Greg Lotko,
Broadcom; Andy Youniss, *Rocket Software*

Zowe V1 Conformance: The Meaning Behind The Badge
Rose Sakach & Michael Bauer, *Broadcom*

Panel Discussion: The Convergence of Open Source and the Mainframe
Steven Dickens, *Fututurum Research;* Skyla Loomis,
IBM; Jeff Cherrington, *Rocket Software;* April Hickel,
BMC; George Decandio, *Broadcom;* John Mertic, *The
Linux Foundation*

Panel Discussion: The New Face of COBOL
Michael Bauer, *Broadcom;* Sudharsana Srinivasan &
Paul Newton, *IBM;* Hartanto Ario Widjaya; Ahmed Eid,
Al-Azhar University

Zowe Mentorship Session

Attendee Feedback

"Fantastic content. Thanks!"

"I'm so impressed with today's talks. I have a feeling today will be very educational with a lot of new things to take away and practice. Thank you!"

"IMO - If COBOL did not exist today and industry got together to design a computer language designed for business, **they would create COBOL as it is today."**

"It is a testament to its design principles that **here we are celebrating its value and viability over 60 years on."**

"Nice to see a language I learned over 40 years ago still has **so much excitement** around it!"

"Very nice presentations! Thank you for sharing your experiences/projects!"
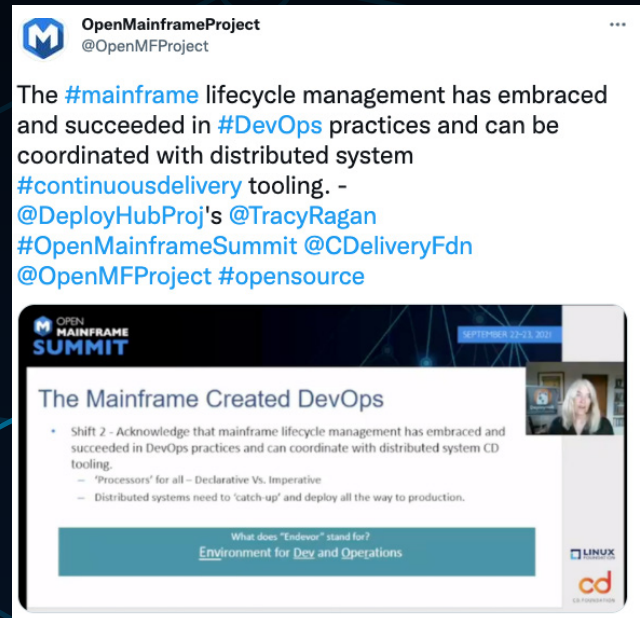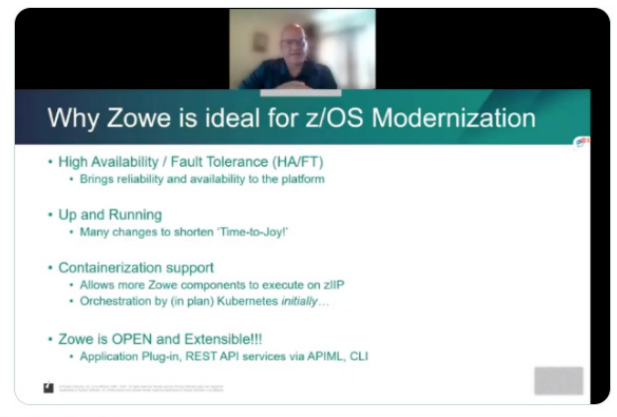
Online Reach & Traffic

Twitter Moments

Social Results for #OpenMainframeSummit:

75,600 @Openmfproject impressions

1,170 @OpenMFProject engagements
(108% increase when compared to last year)

361 @OpenMFProject retweets
(306% increase when compared to last year)

254 @OpenMFProject mentions

242 Open Mainframe Project
LinkedIn engagements

6781 Open Mainframe Project impressions
on LinkedIn

"Zowe is secure, reliable, extensible and has a strong support community" - @Rocket's @TimWillging on why @OpenMFProject's #Zowe is turning heads and unifying experiences for z/OS modernization. #OpenMainframeSummit #opensource #devops #enterprise #Zowesquads

Why Zowe is ideal for z/OS Modernization

- High Availability / Fault Tolerance (HA/FT)
  - Brings reliability and availability to the platform
- Up and Running
  - Many changes to shorten 'Time-to-Joy!'
- Containerization support
  - Allows more Zowe components to execute on zIIP
  - Orchestration by (in plan) Kubernetes *initially*...
- Zowe is OPEN and Extensible!!!
  - Application Plug-in, REST API services via APIML, CLI

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A sample of what the @OpenMFProject #COBOLWorkingGroup #mentees worked on this summer! @FogusJoshua @Sudhanshu_codes @MistyMVD @soferguy @garyevansmf @DerekBrittonUK #OpenMainframeSummit #modernization #COBOL #COBOLRocks #opensource

What's Inside

- Operating System:
  - CentOS (Linux)
  - Windows 10
- Software:
  - Micro Focus Enterprise Developer
- IDE:
  - VS Code
  - Micro Focus COBOL extension

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The #mainframe lifecycle management has embraced and succeeded in #DevOps practices and can be coordinated with distributed system #continuousdelivery tooling. - @DeployHubProj's @TracyRagan #OpenMainframeSummit @CDeliveryFdn @OpenMFProject #opensource

The Mainframe Created DevOps

- Shift 2 - Acknowledge that mainframe lifecycle management has embraced and succeeded in DevOps practices and can coordinate with distributed system CD tooling.
  - 'Processors' for all – Declarative Vs. Imperative
  - Distributed systems need to 'catch-up' and deploy all the way to production.

What does "Endevor" stand for?
Environment for Dev and Operations

"The end of our comfort zone is transformation" - @Rocket's @AndyYouniss, @BroadcomMSD's @GregLotko, @IBMs David Jeffries & VirtualZ Computing's @glaje02 discuss accelerating #diversityandinclusion w/ Dr. Gloria Chance. hubs.la/H0XW8kp0 #OpenMainframeSummit #DEI

MODERATOR

DR. GLORIA CHANCE
CEO, Mousai Group

OPEN MAINFRAME SUMMIT

Panel Discussion: Making Our Strong Community Stronger

Wednesday, September 22
10:50am - 11:20am

SPEAKERS

JEANNE GLASS
Founder & CEO
VirtualZ Computing

GREG LOTKO
SVP and GM
Broadcom

ANDY YOUNISS
President & CEO
Rocket Software

DAVE JEFFRIES
Vice President of
Development IBM
z/OS Software, IBM

Is #COBOL dead? According to @LenSantalucia and the #COBOLWorkingGroup - that's a hard no. It's alive and kicking! @Vicom_Infinity #OpenMainframeSummit @OpenMFProject #opensource #COBOLRocks

WALL ST ←22-51

Alive and kicking?

✓ runs system of record applications at top tens of thousands of organizations

✓ supports banking, insurance, transportation, government, retail, healthcare and many other sectors

✓ Comprises hundreds of billions of lines of application code worldwide

✓ Remains overwhelmingly strategic, with 92% response rate from the marketplace in 2020

✓ COBOL: the original *open* project!

So exciting to see these leaders discuss #opensource #mainframes, collaboration & the @OpenMFProject ecosystem - @StevenDickens @AprilforOps @SkylaCLoomis @jcherrington @jmertic & George DeCandio @BroadcomMSD @BMCSoftware @FuturumResearch @IBMZ @Rocket #OpenMainframeSummit

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@OpenMFProject ...

Ask questions. Be an ally. Speak up. Actively redefine normal. @MicroFocusCDMS' @MistyMVD shares how to avoid unconscious bias to become a better colleague. #OpenMainframeSummit #diversityandinclusion #DEI #Womenwhocode #WomeninTech @OpenMFProject #opensource

#4: Respect their Boundaries

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.@OpenMFProject kicks off #OpenMainframeSummit by welcoming @EPAMSYSTEMS @IncomData #Open z/OS Enablement WG, @debian WG and announcing several technical milestones for #GenevaERS #COBOL #Zowe & more. Read the press release: hubs.la/H0XVlh-0 #opensource #news #devops

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#OpenMainframeSummit starts tomorrow! Register today & gain access to all of the sessions in real-time or at your own leisure. hubs.la/H0XPShR0 @BroadcomMSD @IBM @Rocket @SUSE @MicroFocusCDMS @Vicom_Infinity @BMCSoftware @CDeliveryFdn @FINOSFoundation @OpenMFProject

"None of these things go away. They just morph and evolve together. The pendulum just keeps swinging" - @defshepherd @ZededaEdge #OpenMainframeSummit @OpenMFProject #edgecomputing #edge @LF_Edge #opensource #mainframes

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We all know icons #GraceHopper, Ada Lovelace & @DorthyV_NASA. @OpenMFProject leaders Yvette La Mar (@IBM) & @smiller_ATX (@SUSE) introduce 5 more #mainframe mavens at #OpenMainframeSummit. #Womenintech #womenwhocode #DEI #diversityandinclusion @ghc @AdaLovelaceInst #TechUpWomen

Press Coverage Highlights

Open Mainframe Summit promo
The Fourth Industrial Revolution, May 5

Open Mainframe Project Launches Call for Proposals for the 2nd Annual Open Mainframe Summit on September 22-23
DevOps.com, May 5

Open Mainframe Project Announces the Full Schedule for the 2nd Annual Open Mainframe Summit on September 22-23
Linux.com, August 12

Open Mainframe Project Announces the Full Schedule for the 2nd Annual Open Mainframe Summit on September 22-23
LXer, August 12

Open Mainframe Project Announces the Full Schedule for the 2nd Annual Open Mainframe Summit
Enterprise Systems Media, August 13

Full Schedule Announced for 2nd Annual Open Mainframe Summit
TechZone 360, August 17

Building a Browser-based Search and Impact Analysis using Zowe as a Bridge
IN-COM blog, August 25

Mainframes and Open Source
Mainframe Update, August 29

State of the Open Mainframe 2021
Linux.com, September 20

Mainframe Status Open 2021
F. Techtribune.net (French), September 20

Open Mainframe Summit
TechStrong TV, September 20

Major Announcements from Open Mainframe Summit
The Fourth Industrial Revolution, September 22

Open Mainframe Project Announces Continued Growth in Community Contributions and Adoption
Enterprise AI, September 22

Open Mainframe Project Announces Continued Growth in Community Contributions and Adoption as Mainframes Accelerate Innovation in Enterprise Hybrid Technology
VMblog, September 23

Open Mainframe Goes from Strength to Strength
Futurum Research, September 23

Open Mainframe Project Announces New Milestones and Opportunities
Database Trends & Applications, September 28

Mainframes and Open Source - an update
Mainframe Updates, October 10