OPEN MAINFRAME PROJECT

Open Source is the way forward for mainframe

A look at the work and impact of the Open Mainframe Project

IBM z16 image used with permission by International Business Machines Corporation 2022

Opportunity:

Accelerate mainframe innovation with open and collaborative development

But how?

IBM z16 image used with permission by International Business Machines Corporation 2022

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Linux Foundation meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws.

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Open Mainframe Project is a pre-competitive platform that enables cooperation and leveraged development.

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Example: Leveraging Zowe create efficiencies

Without Zowe
Full stack supported and developed; expensive R&D and hard to scale

With Zowe
Focus on Core Application and leverage Zowe components to better integrate with DevOps workflows

Cost to create Zowe

Total Physical Source Lines of Code (SLOC)

272,536

Development Effort Estimate

64.81 (777.68) *Person-Years (Person-Months)*

*(Basic COCOMO model, Person-Months = 2.4 * (KSLOC**1.05))*

Schedule Estimate

1.70 (20.46) *Years (Months)*

*(Basic COCOMO model, Months = 2.5 * (person-months**0.38))*

Total Estimated Cost to Develop

$8,754,452

(average salary = $56,286/year, overhead = 2.40).

generated using [David A. Wheeler's 'SLOCCount']

Frequent Contributors Get High ROI From Open Source Foundation Membership

Return on Investment (ROI)

Member or sponsor of an open source foundation

Pie chart does not equal 100% because of rounding.

Source: "Open Source Programs in the Enterprise - 2020" Survey.
Is your company a member or sponsor of an open source foundation(s)? (e.g., Linux Foundation, Apache Foundation, Eclipse Foundation, OpenJS Foundation) If yes, how valuable is the support and return on your investment you have received from these open source foundations?
Frequently contribute code upstream, n=95; Sometimes contribute code upstream, n=53; Rarely or never contribute code upstream, n=43.

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Value of leveraging development

Let's say an organization accounts for 30% of contributions (3x multiplier in value as a leading organization[1])

This means the organization invested…

- 19.2 years of developer effort
- $2.6M of R&D costs

and leveraged (3x multiplier[1])…

- **175.2 years** of developer effort
- **$23.6M** of R&D costs

BROADCOM®

9x R&D ROI

(1) *Source: https://www.mckinsey.com/industries/technology-media-and-telecommunications/our-insights/developer-velocity-how-software-excellence-fuels-business-performance#*

Example: Leveraging Feilong create efficiencies

Without Feilong
Full stack supported and developed; expensive R&D and hard to scale

With Feilong
Vendor/Customer focus on Value Added Solutions, leverage Feilong development

Cost to create Feilong

Total Physical Source Lines of Code (SLOC)

91,717

Development Effort Estimate

21.82 (261.84) *Person-Years (Person-Months)*

*(Basic COCOMO model, Person-Months = 2.4 * (KSLOC**1.05))*

Schedule Estimate

1.38 (16.59) *Years (Months)*

*(Basic COCOMO model, Months = 2.5 * (person-months**0.38))*

Total Estimated Cost to Develop

$2,947,620

(average salary = $56,286/year, overhead = 2.40).

generated using [David A. Wheeler's 'SLOCCount']

Frequent Contributors Get High ROI From Open Source Foundation Membership

Return on Investment (ROI)

Member or sponsor of an open source foundation

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Frequently contribute code upstream, n=95; Sometimes contribute code upstream, n=53; Rarely or never contribute code upstream, n=43.

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Value of leveraging development

Let's say an organization accounts for 30% of contributions (3x multiplier in value as a leading organization[1])

This means the organization invested…

- 6.55 years of developer effort
- $884,286 of R&D costs

and leveraged (3x multiplier[1])…

- **65.46 years** of developer effort
- **$8.8M** of R&D costs

7x R&D ROI

(1) *Source: https://www.mckinsey.com/industries/technology-media-and-telecommunications/our-insights/developer-velocity-how-software-excellence-fuels-business-performance*

But there are more benefits than just pure R&D

- Leadership
  - Top contributing organizations in best position to drive ecosystem direction.
  - End-users more likely to work with vendors who are primary contributors and invest in upstream projects.
- Supply chain efficiencies
  - License and security vulnerability management done in upstream project
  - Partner and developer onboarding can leverage broad community versus specific vendor resources.
- Vendor-neutral outreach and training
  - Technology enablement done at project level
  - Vendor can focus on specific value adds.

Typical ROI 5x-40x

dependent on membership, staff, and product investment

Challenge:

How can we grow and sustain open source on mainframe?

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Accelerating open innovation is more than just code

1. **Glass ceiling for project investment and adoption**
   in the absence of a fair governance and safe haven for the project's assets

2. **Managing projects assets**
   As project grows, it is unclear who should own legal and administrative tasks that are essential to the health of the project

3. **Developed for a specific product needs**
   The open source spinoff is a result of wanting to build an ecosystem and collaborate on building a platform

4. **Governance challenges**
   No formal governance, governance favors the creators of the project, project backer dominating dev and governance

5. **Fragmentation**
   Lack of integration
   Lack of cross pollination across projects

Enter Open Mainframe Project

Open Mainframe Project believes…

- ➔ that leading organizations leverage their **technology infrastructure as a competitive advantage**.
- ➔ that the mainframe design principles of **security, stability, scalability, and performance are important** to these leading organizations
- ➔ **having the mainframe interoperable** in a hybrid infrastructure enables leading organizations to realizes it's benefits.
- ➔ technical advancements that are needed by the mainframe community can be **better achieved through open source**.

Open Mainframe Project enables **sustainable open source**

Successful projects depend on members, developers, standards and infrastructure to develop products that the market will adopt.

OPEN MAINFRAME PROJECT

Vision

The mainframe is an active, integrated, and essential part of modern enterprise IT, consumable by mainstream developers and users, and driven by a vibrant open source community.

Mission

To achieve the vision of the Open Mainframe Project by…

Setting a high bar for application development on the mainframe
through documentation, API development, and a security-first approach.

Showcase the mainframe of today
to both the mainframe ecosystem as well as the broad enterprise IT community.

Enable the mainframe to be more consumable by developers
with a transparent experience in leveraging the value propositions of the mainframe.

Ensure the mainframe aligns well in the changing enterprise IT landscape
of cloud-native and DevOps.

Open Mainframe Project enables this innovation

Active Open Mainframe Projects (4)

Incubation Open Mainframe Projects (7)

CBT Tape

Sandbox Open Mainframe Projects (3)

Open Mainframe Project Working Group (3)

Learn about all Open Mainframe projects at https://www.openmainframeproject.org/projects

The Linux Foundation's goal is to create the greatest shared technology investment in history by enabling open collaboration across companies, developers and users.

We are the nonprofit organization of choice to build ecosystems that accelerate open source technology development and commercial adoption on a global scale.

THE LINUX FOUNDATION

We are behind some of the most critical projects in the world

Vertical Industry	LF NETWORKING, AUTOMOTIVE GRADE LINUX, FINOS, ASWF ACADEMY SOFTWARE FOUNDATION, LF ENERGY, AgStack A Linux Foundation Project
Security	OpenSSF, SPDX, Alpha-Omega, sigstore, OpenSSL, Falco, CONFIDENTIAL COMPUTING CONSORTIUM
AI & Data	LF AI & DATA, PyTorch, DELTA LAKE, ONNX, HOROVOD, GraphQL, mlflow, JanusGraph
Cloud	CLOUD NATIVE COMPUTING FOUNDATION, FinOps Foundation, kubernetes, envoy, TEKTON, OPEN CONTAINER INITIATIVE, OpenTelemetry, Prometheus
Networking	LF CONNECTIVITY, ONAP, eBPF, OPEN DAYLIGHT, Anuket, SONiC, DPDK, NEPHIO
Edge & IoT	LF EDGE, Zephyr, yocto PROJECT, ELISA, sel4, SOUND OPEN FIRMWARE, LinuxBoot, ACRN
Web	OpenJS Foundation, node.js, jQuery, TLA+ FOUNDATION, appium, REACTIVE FOUNDATION, DOJO, Electron
Visual Effects	O3DF, OpenEXR, OpenVDB, OCIO, OpenCue, open shading language, OpenTimelineIO
Sustainability	OS-C, Green Software Foundation, INCLUSIVE NAMING, RARE CAMP, consortium, Xen Project, Pyrrha
Digital Trust	OpenWallet FOUNDATION, HYPERLEDGER FABRIC, OPEN METAVERSE FOUNDATION, TRUST Over IP FOUNDATION, DIF, dizme
Hardware	RISC-V, Dronecode, OpenPOWER, CHIPS ALLIANCE, 3MF CONSORTIUM, OPEN 19
Standards	OVERTURE MAPS FOUNDATION, ALLIANCE FOR OPEN MEDIA, JOINT DEVELOPMENT FOUNDATION, LF ENERGY CARBON DATA SPECIFICATION CONSORTIUM, C2PA, AOUSD Alliance for OpenUSD, OPENCHAIN

Landscape of open source projects only on mainframe

Source: https://landscape.openmainframeproject.org/fullscreen

Broad open source supported on mainframe

Source: https://landscape.openmainframeproject.org/fullscreen/open-source

Open Mainframe Project enables innovation

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Enabling innovation by connecting z/OS to enterprise devops with Zowe

OPEN MAINFRAME PROJECT
Zowe

Major Problem

Modernize integration with z/OS based applications and services

Bridge the talent gap by enabling modern development stacks on z/OS

How We Innovated

2018 Open Mainframe Project added Zowe from contributions from Broadcom, IBM, Rocket Software

2019 Zowe reached 1.0, launched Zowe Conformant to enable downstream ecosystem; investments in collaboration, ecosystem development, and infrastructure

2021 Zowe formed TSC to have technologists lead project direction; launched Zowe Support Conformant Program

2022 Zowe 2.0 release

2023 Zowe grows focuses on security and training

Results

60,000+ Commits, 1000+ contributors all time

38% of mainframe customers using Zowe in production; 31% planning to in the next year (source Arcati Mainframe Yearbook 2023)

50+ Zowe Conformant offerings, 3 Zowe Conformant Support Providers

7000+ completed Zowe training offered by Interskill

New project contributions from BMC, IBA Group, Vicom Infinity, and others, has grown codebase

Enabling innovation by modernizing COBOL

Major Problem

COBOL talent is critical to our society, and the need has amplified in the COVID-19 pandemic.

Enabling the next generation to have COBOL skills done in isolation, causing repeated efforts and lower uptick.

COBOL lacking tools that align with modern development

How We Innovated

Launched COBOL Programming Course as an open source project in April 2020, teaching COBOL development using VS Code and Zowe.

Created collaboration forums and ways that COBOL talent can advertise their availability

Launched COBOL Working Group to bring together leaders in thinking about the future of COBOL

COBOL Check project launched, bringing TDD practices to COBOL

Results

"Calling all COBOL Programmers" forum has had over 1.9k individuals make themselves available since April 2020

COBOL Programming Course GitHub repo has 2.5k stars and 500+ forks, along with 22 contributors from several organizations, continuing to evolve with deeper level COBOL training content

COBOL Working Group getting broad feedback on the future direction of COBOL

COBOL Check a step forward in modern dev practices and being integrated into VS Code and COBOL Programming Course curriculum.

Enabling innovation by creating a hub for Linux on Z and z/VM community

OPEN MAINFRAME PROJECT
Software Discovery Tool

OPEN MAINFRAME PROJECT
Linux Distributions
Working Group

Major Problem

Users want to manage their mainframes with the same modern cloud technologies used across the enterprise.

z/VM integration with technologies such as OpenStack have long been a challenge.

Contribution base was IBM only, making it challenging to get wider adoption

z/VM lacked a sustainable hub for community tools and utilities

Linux distributions supporting s390x mainframe

How We Innovated

2019 Open Mainframe Project added Feilong

2020 Software Discovery Tool and Tessia added as a projects

2021 z/VM Community Tools forms as a Sandbox project, Linux Distributions Working Group formed

Results

Central repository for open source on mainframe developed, tracking across all major distributions (http://sdt.openmainframeproject.org)

Sustainable and coordinated maintainership for s390x Linux distributions, including Alma Linux, Debian, Fedora, and openSUSE amongst others.

Central hub being developed for z/VM tools and utilities for easier discoverability.

Enabling innovation with the next generation

Major Problem

Aging tenured mainframe talent, with a growing mainframe talent gap and skills decline in next generation talent.

Needing to help connect students with opportunities in mainframe, aligning the interests in open source

How We Innovated

Launched first mentorship program in 2016 with 7 mentees.

Connected within the mainframe and broad open source community to ensure mentorship work has upstream project value.

Enabled universities to also leverage the program within class work; successful with VCU and Western University (Ontario)

Results

70+ mentees completed the program, with broader classwork focus reaching 100s more.

Upstream work has included ports of Alpine Linux, contributions to HyperLedger, OpenStack, CloudFoundry, Kubernetes, and more.

Several mentees are now employed in mainframe roles with IBM, SUSE, ADP, and more.

Enabling Innovation for end-users

bankdata

Bankdata Open Mainframe Stack

Developer Enablement

OPEN MAINFRAME PROJECT COBOL Programming Course

Agile / Test Driven Development

OPEN MAINFRAME PROJECT COBOL Check

Systems Integration/Deployment

OPEN MAINFRAME PROJECT Zowe

Read the Bankdata story at https://www.openmainframeproject.org/blog/2022/12/16/open-mainframe-use-case-bankdata

Innovation enablement is more than code

Enabling innovation through diversity and inclusion

Watch the "Making our Strong Community Stronger" series on [Open Mainframe Project's Youtube Channel]

Blog DEI Diversity Diversity & Inclusion

What inclusion means to me and how to get started

Written by Maemalynn Meanor, Senior Public Relations Manager at The Linux Foundation Diversity and inclusion...

maemalynn
April 23, 2021

Blog DEI Diversity Diversity & Inclusion Equity & Inclusion

My favorite Mainframe and Six Women Building It

Written by Tina Tarquinio, Making Our Strong Community Stronger Panelist and Product Management Executive for...

Open Mainframe Project
November 12, 2021

Blog DEI Diversity Diversity & Inclusion

Women in Technology Continue to Grow in Numbers and Contribution

Written by Saghi Amirsoleymani, Vice President, WW Cross Brand, Rocket Software Rocket Software is a...

Open Mainframe Project
May 26, 2021

Read about diversity in mainframe on [Open Mainframe Project's Blog]

Enabling innovation by telling the “mainframer” story

- Monthly interview series that highlights diversity in mainframe
- Showcases why people have mainframe in their careers and their views of the technology and career field
- Read and listen at openmainframeproject.org/podcast

Listen on Apple Podcasts

LISTEN ON STITCHER

LISTEN ON Spotify

Enabling innovation by providing an “open” mainframe

Hosted by Marist College, and through the donation of hardware by Broadcom Mainframe Software, the Open Mainframe Project has a mainframe resource available to **any** open source project looking to support Linux on s390x, z/OS, or z/VM.

More details to come in 2023

Enabling community by creating new ecosystems

Zowe Conformance Program enables vendors to showcase their offerings based on Zowe, as well as their capabilities in supporting Zowe end-users.

Zowe Support Provider Conformance Program gives vendors the ability to showcase their Zowe support competencies.

Benefits

- Your offering and logo listed in the Zowe Conformant offering directory or Zowe Conformant Support Provider directory and showcased in Zowe outreach materials
- Exclusive branding marks to use in your product materials
- Participation in the Zowe Advisory Council (ZAC)
- PR announcement for new organizations providing offerings
- Post a guest blog post on your offering on the Open Mainframe Project and Zowe blog

Fees are waived for Open Mainframe Project members

More details at
https://www.openmainframeproject.org/projects/zowe/conformance

Enabling community through a focal event for open source on mainframe

Open Mainframe Summit is the annual event that brings together the open source and mainframe ecosystems, discussing projects, trends, and executive insights.

In 2023 we align with key industry events to bring this innovation to end-users, helping them leverage and engage the open innovation happening in mainframe.

OPEN MAINFRAME SUMMIT

Las Vegas - September 11th

New York - November 1st

More at openmainframesummit.org

Getting involved in Open Mainframe Project

IBM z16 image used with permission by International Business Machines Corporation 2022

Contribute to our projects - anyone can!

Contribute to an existing project:

- Submit a PR with a bugfix or new feature
- Pick existing GitHub issue as a sample project
- Integrate with a new app / contribute plugin
- Help improve project documentation
- Submit additional test cases
- Join the TSC discussion: dev mailing list, conf calls

Get involved with the TAC or Working Group:

- DevOps / CI expertise always useful
- Interest / expertise in security especially welcome
- Join the TAC discussions: mailing list, conf calls, working groups

More information at
tac.openmainframeproject.org/engagement

OPEN MAINFRAME PROJECT

Getting Involved in Projects

All of the projects hosted at the Open Mainframe Project are open and transparent, and welcome participation from anyone interested in the technology areas. Each project publishes thier governance processes within thier project repo (typically in the README.md file or in a GOVERNANCE.md file within the primary project repo or TSC repo) on roles within the community and how decision making is made.

TAC Meetings

Learn more about joining the public meetings of the Technical Advisory Council (TAC) on the Meetings page

Mailing Lists and Slack channels for hosted projects

Each project hosted at the Open Mainframe Project collaborates on open channels that are welcome for anyone in the community to participate in. See the below list of channels for each project.

All Slack channels referenced below are part of the Open Mainframe Project Slack organization

ADE	Repo: https://github.com/openmainframeproject/ade Website: http://ade.openmainframeproject.org Slack: #ade Leads: James Caffrey
COBOL	Repo: https://github.com/openmainframeproject/cobol-programming-course Website: https://www.openmainframeproject.org/projects/cobolprogrammingcourse Mailing List: https://lists.openmainframeproject.org/g/cobol-course-discussion Slack: #cobol-programming-course

Make sure you are following us on social!

Follow us on LinkedIn at
https://www.linkedin.com/company/the-open-mainframe-project

Follow us on Twitter at
https://twitter.com/OpenMFProject

And sign up for the Open Mainframe Project newsletter to keep up to date on project happenings

Member organizations

Learn more about membership at openmainframeproject.org/join

Governing Board representatives

Len Santalucia
Chair
CTO
Vicom Infinity, Inc.

Alan Clark
CTO Office
SUSE LLC

Cam Seay
Instructor
East Carolina University

Harry Williams
CTO
Marist College

Jeff Cherrington
VP, Product Management, Systems
Rocket Software, Inc.

Martin Kennedy
MD
Citi

Meredith Stowell
VP, IBM Z Ecosystem
International Business Machines Corporation

Misty Decker
Program Manager, z Systems Academic Initiative
OpenText

Peter Wassel
Director, Product Management
Broadcom Corporation

Phil Tully
LinuxONE Engineering Operations Director
Citi

Victor Giusto
Sr. Director Technical Services
Automatic Data Processing, Inc. (ADP)

Technical Advisory Council (TAC) representatives

Phil Tully
Chair
LinuxONE Engineering Operations Director
Citi

Andrea Orth
Scrum Master
State Farm Mutual Automobile Insurance Company

Giancarlo Frix
Senior Software Developer
Rocket Software

Gregory MacKinnon
Distinguished Engineer
Broadcom Corporation

Joe Bostian
Open Source and Analytics Architect
International Business Machines Corporation

Lauren Valenti
Head of Mainframe Education and Customer Engagement
Broadcom Corporation

Nikolay Gueorguiev
IBM Mainframe Consultant
SUSE LLC

Sean Grady
Senior Software Architect
Rocket Software, Inc.

Sudharsana Srinivasan
IBM Z Influencer Program Manager
International Business Machines Corporation

Learn more about the Open Mainframe Project

- Discover and participate in any of our 18 hosted projects and working groups at openmainframeproject.org/projects
- See the breadth of open source on the mainframe at l.openmainframeproject.org
- Take part in our upcoming events and webinars at openmainframeproject.org/events
- See the latest blog posts and news at openmainframeproject.org/news

Why become a member?

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Becoming an Open Mainframe Project member means your organization is...

- ➔ a leader in the open source on mainframe community
- ➔ wants to drive the technical vision of open source on mainframe
- ➔ a thought leader or aims to be a thought leader in open source on mainframe
- ➔ bringing solutions to market based on projects hosted at the Open Mainframe Project, and wanting to show your stewardship towards those communities

Leverage our industry presence to advance your thought leadership.

Through our large audience, extensive media outreach, and with key partnership with publications such as Linux.com, TFiR, TechChannel, and MediaOps, you will be positioned to be a thought leader in open source. Specific benefits include…

- Announcement of your membership via press release and social.
- Your company logo on both the Open Mainframe Project website and Linux Foundation website.
- Guest blog post(s) on the Open Mainframe Project blog on a thought-leadership topics of our choice.
- Provide a guest for the "I Am A Mainframer" podcast, hosted by Steven Dickens and Open Mainframe Project
- Post one technical article about an open source project you care about to Linux.com, which has over 1 million unique visitors per month.
- Support of your announcements with social outreach and quotes from Linux Foundation and/or Open Mainframe Project leadership as appropriate.
- Access to opportunities for contributed articles, videos, podcasts, and events

DevOps.com

LINUX.COM

TechChannel

TFiR

6000+ followers

3500+ followers

1100+ global media articles in 2022 from 4 press announcements

Exclusive opportunities for Open Mainframe Summit

Members have an exclusive opportunity to participate in our annual Open Mainframe Summit, this year in person in Las Vegas and New York. This event is the focal point for the open source and mainframe community, bringing together developers, users, and executives, from the mainframe community and beyond.

Member benefits include…

- Discounts on registration and sponsorship
- Include your news relating to open source on mainframe with our press materials to reach the 20+ reporters and analysts covering the event.
- Onsite meetings with Open Mainframe Project leadership

OPEN MAINFRAME SUMMIT

Las Vegas - September 11th

New York - November 1st

More at openmainframesummit.org

Additional Event Participation Opportunities

- One invite to our member-exclusive Linux Foundation Member Summit, which fosters collaboration, innovation, and partnerships among the leading projects and organizations working to drive digital transformation with open source technologies.
- Employees at your organization receive a 20% registration discount to eligible Linux Foundation events, such as our Open Source Summit events in North America, Europe, and Japan.
  - Open Mainframe Project hosts mini-events for members and the community at these events.
- A 5% Discount on Linux Foundation Event Sponsorship, including Open Mainframe Summit (7% discount on multi-event Sponsorships). Sponsorships offer a valuable way to reach the community of Open Source Developers, Engineers, C-level Executives, and more.

Join the Zowe Conformance Program

Zowe Conformance Program enables vendors to showcase their offerings based on Zowe, as well as their capabilities in supporting Zowe end-users.

Zowe Support Provider Conformance Program gives vendors the ability to showcase their Zowe support competencies.

Benefits

- Your offering and logo listed in the Zowe Conformant offering directory or Zowe Conformant Support Provider directory and showcased in Zowe outreach materials
- Exclusive branding marks to use in your product materials
- Participation in the Zowe Advisory Council (ZAC)
- PR announcement for new organizations providing offerings
- Post a guest blog post on your offering on the Open Mainframe Project and Zowe blog

Fees are waived for Open Mainframe Project members

More details at https://www.openmainframeproject.org/projects/zowe/conformance

Showcase your career opportunities in mainframe

- Showcase of Open Mainframe Project members who are hiring for mainframe positions
- Not a job board - links to each member's job listings

https://www.openmainframeproject.org/resources/careers

Host a mentorship

Open Mainframe Project funds mentorships for students to bring new talent into mainframe through contributions to open source. These mentees have made huge impacts on hosted projects such as Zowe, Feilong, COBOL Programming Course, and more, as well as broad open source projects such as Alpine Linux, CloudFoundry, Kubernetes, and more.

Members can provide a mentorship and be a mentor, which is funded by the Open Mainframe Project. This provides a unique opportunity to find new talent.

Contact mentorship@openmainframeproject.org if you are interested.

Measure your project impact with LFX Insights

LFX Insights (Technical Trends) is a new analytics tool that is provided to all open source projects hosted by the Linux Foundation. Its capabilities include:

- Getting the visibility you need to remove bottlenecks at any stage of your project's code pipeline. Drill down into performance metrics across every step in the development lifecycle to identify where you should be focusing your resources.
- Ensuring the health and viability of the open source projects you care about. Leverage data to help validate projects for investment, and track the activity and growth of projects your organization is already involved in.
- Showcasing your organization's leadership and subject matter expertise in the open source community. Leverage affiliations to measure the impact of your employees' contributions and capture the full picture of your team's impact

In addition to the use of the other LFX tools provided by the Linux Foundation, access to ***LFX Insights (Ecosystem Trends)*** *tool is* ***available to Open Mainframe Project Silver and Platinum members****, which provides additional visibility into tracking your project's performance beyond code with a more holistic view of your ecosystem. Identify opportunities to grow your community and increase awareness with ecosystem trend metrics including share of voice, top influencers, email list collaborators, and more.*

LFX | Insights

Maximize Your Open Source Investment with training

Training & Certification

The Linux Foundation offers training and certification direct from the source, those contributing to the world's most important open source projects.

As an Open Mainframe Project Silver or Platinum member, you are entitled to 10 vouchers for 100% any…

- **LF eLearning Class**
- **Certification Exam**
- **eLearning+Certification Exam "Bundle".**

The value is $299+ per course.

Improve your open source compliance and practices

As a Linux Foundation member, your in-house counsel has access to the leading vendor-neutral resources in open source compliance, best practices, and training, along with peer collaboration. Specific benefits include…

- Your legal counsel's ability to participate in bi-monthly legal calls
- One invite for your in-house counsel to LF Legal Summit, which helps connect your counsel to their peers at other member companies and advance your organization's open source licensing, litigation, compliance, and best practices.
- Access to a complimentary membership to the TODO Group, which is a forum for discussing best practices and approaches for establishing and managing open source program offices in organizations.
- Support from the vast expertise in the Linux Foundation in engaging with open source, and even starting your own open source project(s).

THE LINUX FOUNDATION

Welcome to The Linux Foundation!

The Linux Foundation works with companies and communities to support the development of critical, sustainable open source projects. Companies and organizations join the LF in order to enable better collaboration among businesses and technical leaders in the open source community.

The LF also serves a key role as a neutral, collaborative forum for in-house counsel to come together and discuss legal matters relating to their development and use of open source. This welcome packet is intended to introduce your legal teams to some of the LF groups and resources that are available to them.

LF Member Counsel

The Linux Foundation hosts recurring events for the in-house legal teams from LF members, including:

- bimonthly **member counsel calls**, where the LF legal team discusses current topics facing our members and projects in their interactions with open source projects and communities; and
- our annual **Legal Summit**, where our members' legal teams gather for deep dives, presentations and workshops, and honest and frank debates on critical open source legal matters.

One point of clarification is that these events are for lawyers. It is acceptable to include someone else from your organization, but you must have a lawyer present as it will make other lawyers uncomfortable to participate with unrepresented individuals from other companies.

LF Member Counsel events are open to all of our members' legal teams, and are coordinated via mailing list. Please contact us at legal@linuxfoundation.org to be added to the list.

Projects: Compliance, Licensing and Best Practices

In addition to supporting open source software projects, the LF hosts several community-driven projects focusing on collaborative approaches to managing licensing and compliance. These range from development of best practices, to specifications for inter-organizational exchanges of information, to the software tools needed to automate those exchanges.

ACT Automating Compliance Tooling	https://automatecompliance.org/ ACT (Automating Compliance Tooling) seeks to improve software tooling for detecting and complying with open source licenses. Its goal is to improve the interoperability of open source compliance tools to enable compliance workflows that can be optimized for each company's unique build and release process.
OPENCHAIN	https://www.openchainproject.org/ OpenChain defines the key requirements for an organization's open source compliance program. It establishes a conformance program where companies can self-certify to these requirements, with the goal of improving transparency and communication of compliance information across supply chains.
SPDX	https://spdx.dev/ SPDX (Software Package Data Exchange) is a specification for communicating Software Bill of Materials information in a standardized, human- and machine-readable format. It enables better communication of information, including license and copyright details, between organizations and interoperability between compliance tools. The SPDX License List at https://spdx.org/licenses/ is the predominant curated list of license texts that are likely to be encountered in modern collaboratively-developed software.
TODO	https://todogroup.org/ The TODO Group (Talk Openly, Develop Openly) is a forum where participants discuss best practices and approaches for open source strategy in their businesses. Participants include members of open source program offices and related teams, collaboratively addressing various strategic considerations in interacting with open source communities
COMMUNITY DATA LICENSE AGREEMENT	https://cdla.io/ CDLA (Community Data License Agreement) is a pair of licenses that were jointly drafted by members of the LF Member Counsel community. They define reusable license terms intended to better address unique issues that arise in open data collaboration.

But most importantly, you support innovation

Our collaborative projects and working groups are successful because of the investment of members funding these initiatives.

Data through 12/31/2022. Source:
https://insights-v2.lfx.linuxfoundation.org/open-mainframe-project/trends?selectedDateFilterType=CUSTOMDATES&startDate=Thu%20Jan%2001%202015%2000:00:00%20GMT-0500%20(Eastern%20Standard%20Time)&endDate=Sat%20Dec%2031%202022%2023:59:59%20GMT-0500%20(Eastern%20Standard%20Time)

Drive the direction of the foundation through Platinum Membership

Platinum members are the key stewards of the Open Mainframe Project, and as such hold key leadership positions in the various governance structures. Their investment is key to the sustainability of open source in mainframe.

Specific Benefits include:

- Voting seat on the Governing Board, TAC, and Marketing Committee, enabling the member to direct the strategic direction, budget, and priorities of the Open Mainframe Project.
- Host an Open Mainframe Project webinar and have a guest on the "I Am A Mainframer" podcast annually, if desired.
- Regular meetings to brief on project activities, and an annual membership check-in to review engagement opportunities and provide feedback to project leadership.
- First opportunity to participate and drive event and outreach opportunities, and the project will ensure partnership with Platinum Members in relevant events.
- Open Mainframe Project leadership will support Platinum Member events, internal open source program efforts, and be available for customer and prospect engagement.
- Additional training benefits through LF Training.

Corporate, Academic, Associate Membership Levels

Level	Annual Fee Includes LF Silver Membership	Board Seat	TAC Seat	Marketing Committee	Notes
Platinum	$120,000	Yes	Voting	Yes	Initial 2-year participant commitment
Platinum End-User	$30,000	Yes	Voting	Yes	Initial 2-year participant commitment
Silver	5,000 employees or more = $50,000 2,000 < 5,000 employees = $35,000 1,000 < 2,000 employees = $30,000 500 < 1000 employees = $25,000 100 < 500 employees = $15,000 < 100 employees = $10,000	1 per 10	Non Voting	Yes	
Academic	Free	1 per 10	Non Voting	Yes	Restricted to academic institutions
Associate	Free	No	Non Voting	Yes	Non-profits, open source projects

To join Open Mainframe Project, go to https://www.openmainframeproject.org/about/join or email at membership@openmainframeproject.com

Listed fees include Linux Foundation Silver membership. If you are already a Linux Foundation Member, reduced pricing is available.

OPEN MAINFRAME PROJECT

Thank you!

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