



# Linux Foundation and Open Mainframe Project Overview

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# Agenda



- Open Source and The Linux Foundation
- Open Mainframe Project Background
- How to participate in the Open Mainframe Project
- Q/A



# Open Source and The Linux Foundation

# What is Open Source?



- Open source is a **development method for software** that harnesses the power of distributed peer review, transparency of process and the creativity of a global ecosystem of industry experts.
- The promise of open source is better quality, higher reliability, more flexibility, lower cost and the opportunity to drive open standards.
- Open source software is most often modular and enables open APIs that can be leveraged to swap out/in new capabilities as members of the community “scratch their own itch”.
- Does not have to be just about code – open source projects often encompass marketing and infrastructure goals as well.

# About the Linux Foundation



- The Linux Foundation is hosting the Open Mainframe Project as a Collaborative Project, providing operational, governance and other support
- The Linux Foundation supports the Linux OS and numerous collaborative projects
- > 100 staff
- 450 corporate members across all our projects
- Dozens of projects beyond Linux spanning thousands of developers
- Over 50 key developer events a year worldwide
- Largest share of voice in open source



# The Linux Foundation team includes



- Time Magazine's 17<sup>th</sup> most important person of the century, Winner of Millennium Technology prize, IEEE Computer Pioneer Award, Internet Hall of Fame inductee
- Internationally recognized legal counsel have authored hundreds of open source legal publications, formed over 140 consortium, serve on the boards of ANSI, Center for Women in Enterprise, and more
- Full time staff fluent in English, Spanish, French, German, Russian, Japanese, and Korean
- Expertise in semiconductors, embedded systems, mobile computing, enterprise software, cloud infrastructure, automotive, IoT, technical training and more
- Dev/Ops team that maintain and secure the world's largest open source project with expertise in a wide variety of scalable development environments
- Marketing and Ecosystem development team with experience from pre-IPO startups to large scale enterprises

# The Growing Linux Foundation Ecosystem



# The Linux Foundation is the leader in its field.



*“OpenDaylight arrives with some instant credibility because it’s hosted by the Linux Foundation, the not-for-profit that oversees the Linux operating system, the most successful open source project of them all.” -- Wired*



*“The mere fact that The Linux Foundation has brought together essentially all the major players in the SDN space and has gotten them to agree to work on a common, open framework is remarkable in its own right.” – Zdnet*



*“Just like the Linux kernel, Xen enjoys contributions from a variety of different companies, so a vendor-neutral organization to host development and collaboration is a big win for the project.” – Tech Crunch*



*“The Linux Foundation continues to amaze me as it never ceases to stop adding new members to its roster.” – IT Business Edge*



*“This organization [Bitcoin] was modeled on the Linux Foundation, according to Gavin Andresen, who is currently the Bitcoin Foundation’s chief scientist.” – The New Yorker*

# Scalable Open Source Collaboration has a Common Set of Requirements



## Governance and Membership

- Incorporation, Tax status, Bylaws, Member Agreements, Anti-trust, etc.
- Ongoing business development and membership recruitment

## Development Process

- Technical Decision Making
- Project Life Cycle
- Release Process

## Infrastructure

- Custom infrastructure using open source best practices
- Security and reliability

## Ecosystem Development

- Marketing
- Events
- Training

## IP Management

- Code Provenance
- Trademark management
- Legal defense and Collaboration

# Linux Foundation Collaborative Projects





The fruit of these efforts include...

**115,013,302 lines of code**

- As of August 2015, present in Linux Foundation's Collaborative Projects.
- This would require a team of 1,356 developers 30 years to recreate.
- The total economic value of this work is estimated to be more than \$5 billion.



# Open Mainframe Project Background

# Open Source and the Mainframe Today



Disconnected, independent efforts; no shared “hub” of innovation

Community events are industry specific, not vendor agnostic

Open source on the mainframe lacks a neutral home for growth

No place for students and academic institutions to engage

Enterprise level engagement with upstream projects limited



# Solving this through open source



Create an open source community to benefit Linux on z Systems



Bring together end-users, solution providers, app developers, and system administrators



Provide the neutral technical infrastructure and governance for the open source project to flourish

# Why join the Open Mainframe Project?



Make mainframe  
a first class  
Linux platform



Collaborate with peers  
in a vendor neutral  
environment



Influence the  
future direction  
of mainframe



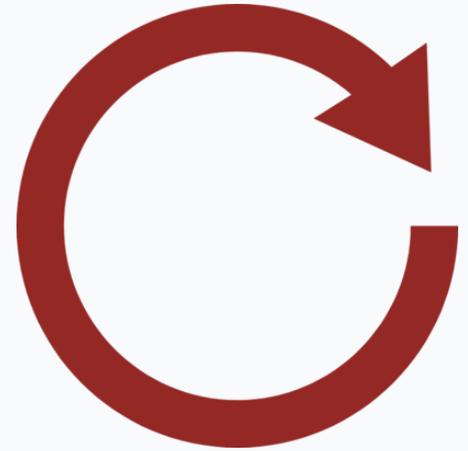
# Making Linux on Z a first class Linux platform



Identify  
areas which  
make Linux  
on Z  
adoptions  
problematic



Fix these  
problems,  
working as  
an open  
source  
community



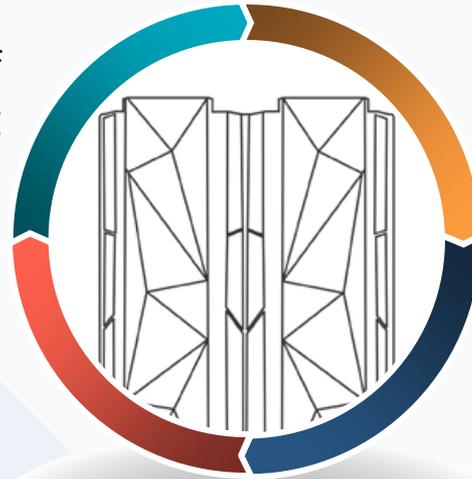
Contribute back all  
work to open  
source  
communities and  
the upstream  
projects

# Why is the Open Mainframe Project of Value



Driving future of  
mainframe computing

Academic  
engagement



Broad  
ecosystem

Neutral, open source  
collaboration

# Collaboration with the Academic Community



- The long term success of Linux on the mainframe requires a vibrant and growing talent pool. To meet the future employment requirements of the industry, training of capable talent must begin within academic institutions.
- The Open Mainframe Project will partner with the academic community in order to increase the number of academic programs and to equip students with industry-relevant skill sets.



# Participation Model for the Open Mainframe Project



Open Participation with corporate sponsorship opportunities

Technical Steering Committee to lead projects and oversee collaboration with upstream projects

Marketing Committee to help drive awareness in mainframe community

Governing Board oversees business decision making

# Technical Community Roles



**TSC:** top level decision making body, approves new projects and acts as an oversight committee for cross-project decisions, norms and expectations. The TSC elects a TSC Chair.



**CTO:** a technical “fellow” resource who will be available to help the technical community focus, plan and execute. IBM has offered an IBM Fellow to work with the Project in this capacity.



**Maintainer:** lead developer on a top level project, serves on the TSC



**Committer:** has the ability to commit code to the project’s main branch, as a group committers elect a Maintainer



**Contributor:** anyone in the community that contributes code or documentation to the project, may become committers after establishing themselves

- TSC and project meetings are open to anyone in the technical community, regardless of membership in the LF or the Open Mainframe Project
- Projects could potentially span multiple disciplines, including code development, documentation, test/build scripting, etc.

# Open Mainframe Project Highlights



30% Member  
Growth since launch  
in August 2015



**DATAKINETICS**  
DATA PERFORMANCE & OPTIMIZATION



**SINE NOMINE**  
ASSOCIATES

  
**East Carolina**  
UNIVERSITY

 **Hitachi Data Systems**

Development of TSC  
Project focus areas



**OpenJDK**

Monitoring Tools

Launch on  
Internship Program  
to drive deeper  
academic  
engagement





# How to participate in the Open Mainframe Project

# Participation Levels



Participation Level *	Annual Fee	Board Seat	TSC Seat	Marketing Committee	Notes
Platinum	Flat fee: \$100,000	Yes	Yes	Yes	Initial 2-year participant commitment
Platinum End-User	Flat fee: \$10,000	Yes	Yes	Yes	Initial 2-year participant commitment
Silver	\$2,000 – \$15,000 depending on size**	1 per 10	No	Yes	
Academic	Free	1 per 10		Yes	Restricted to academic institutions; expected to provide environment access for the community
Associate	Free	No		Yes	Non-profits, open source projects
Individual	Free	No	No	No	

\* Anyone (including individuals, students and developers in open source project communities) may participate in the technical community work without becoming a member of the LF or Open Mainframe Project

• The Open Mainframe Project is setup as a Collaborative Project under The Linux Foundation legal entity. All participants will have to be members of The Linux Foundation to participate. Please visit

<http://www.linuxfoundation.org/about/join/corporate> to learn more about Linux

## \*\* **Silver Annual Fee Scale**

- 3,000 employees = \$15K
- 1,000 < 3,000 employees = \$10K
- 500 < 1,000 employees = \$5K
- < 500 employees = \$2K



# Current Members



MARIST

L3C



University of Bedfordshire



East Carolina UNIVERSITY

DATA KINETICS  
DATA PERFORMANCE & OPTIMIZATION



SINE NOMINE ASSOCIATES



VICOM Infinity

RSM PARTNERS



IBM

bmc

Hitachi Data Systems



# How to Join the Open Mainframe Project

- Find out more the Project at [www.openmainframeproject.org](http://www.openmainframeproject.org)
- Fill in the online form for more info:  
<https://www.openmainframeproject.org/about/join>
- Alternatively contact John Mertic at the Linux Foundation:  
[jmertic@linuxfoundation.org](mailto:jmertic@linuxfoundation.org)
- Research other Linux Foundation Collaborative Projects:  
<http://collabprojects.linuxfoundation.org>



# Questions?



Thank you!