

# **EOFS Online General Assembly 2021**

**November 30<sup>th</sup>, 2021  
15:30-17:00 CET  
at EOFS Office  
(hosted by ParTec AG)**

**Munich, Germany**

## EOFS General Assembly Nov. 30<sup>th</sup> 2021 - Agenda

<b>15:30 – 15:35</b>	<b>Welcome and Introduction</b>	<b>Frank Baetke (EOFS - for HPE)</b>
<b>15:35 – 15:45</b>	<b>Status, Accomplishments, Financial Update</b>	<b>Hugo Falter (ParTec)</b>
<b>15:45 – 15:50</b>	<b>Administrative Council (Board) Update</b>	<b>Frank Baetke et al.</b>
<b>15:50 – 16:00</b>	<b>GVB Audit - Findings, Decisions, Publication</b>	<b>Frank Baetke</b>
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<b>16:10 – 16:15</b>	<b>Quorum Status &amp; Elections</b>	<b>Marianne v. Richthofen, Frank Baetke</b>
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<b>17:00</b>	<b>Adjourn</b>	

### EOFS President:

- Frank Baetke (acting for HPE)

### EOFS Vice-President:

- Jacques-Charles Lafoucriere (CEA)

### Directors of the Administrative Council:

- Hugo R. Falter (ParTec AG)
- Peter Jones (DDN/Whamcloud)

### Members of the Administrative Council:

- Eric Monchalain (Atos)
- Jacques-Charles Lafoucriere (CEA)
- Thomas Stibor (GSI)
- Frank Baetke (acting for HPE)
- Johann Lombardi (Intel)
- Arndt Bode (LRZ)



Leibniz Supercomputing Centre  
of the Bavarian Academy of Sciences and Humanities

ThinkParQ



JOHANNES GUTENBERG  
UNIVERSITÄT MAINZ



Universität  
Zürich<sup>UZH</sup>



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- **2021 – Another on-line year / with very few exceptions**
- **Governance remains unchanged as of November 2021**
- **A key objective from the GA 2020 was use 2021 HPC-events with in-person to promote EOFS. But ISC 2021 was on-line only and European in-person presence at SC 21 was minimal.**
- **BeeGFS and LUSTRE BoF turnout at ISC 2021 and SC'21 was quite good – over 100 attendees (peak) at all sessions**
- **Also more than 100 at the DAOS User Group “DUG”**
- **But:**  
**Several members are late/behind with their EOFS annual contribution. EOFS is (again / still) in black numbers**

- **Meeting with the head of DKRZ in Hamburg (Prof. Thomas Ludwig) to discuss future LUSTRE-related activities ahead of ISC. DKRZ has one of the largest German LUSTRE installations and is willing to host related events.  
Note: **ISC 2022 will take place in Hamburg from May 29<sup>th</sup> – June 2<sup>nd</sup>****
- **EOFS update/lecture at HPC Cetraro (Italy) Conference 2021 with the opportunity to talk to several HPC executives.**
- **Microsoft has officially joined EOFS on September 2, 2021**
- **NVIDIA has officially declared to become a member of EOFS**
- **As always big kudos to Julian Kunkel for keeping the EOFS website up-to-date. But additional work is needed**

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Genossenschaftsverband Bayern, 80327 München

## Einschreiben Einwurf

Herrn  
Frank Baetke  
c/o Aufsichtsratsvorsitzender der  
European OFS SCE mit beschränkter Haftung  
Possartstr. 20  
81679 München

## Prüfung und Betreuung W&D Prüfung

Genossenschaftsverband Bayern e.V.  
Türkenstraße 22-24, 80333 München  
Briefadresse: 80327 München

Ansprechpartner: WP/StB Udo Löw

Telefon: 089 / 2868-3560  
Telefax: 089 / 2868-3555  
E-Mail: [uloew@gv-bayern.de](mailto:uloew@gv-bayern.de)  
Internet: [www.gv-bayern.de](http://www.gv-bayern.de)

DZ BANK AG  
IBAN: DE4970160000000074021  
BIC: GENODEFF701

01.04.2021 / WP L-schc

## Prüfungsbericht

Sehr geehrter Herr Baetke,

unter Bezugnahme auf § 58 GenG stellen wir den Bericht über die letzte gesetzliche Prüfung zur Verfügung. Damit ist gewährleistet, dass jedes Mitglied des Aufsichtsrats den Prüfungsbericht zur Kenntnis nehmen kann.

Wir erlauben uns, auch darauf hinzuweisen, dass Vorstand und Aufsichtsrat in einer gemeinsamen Sitzung über das Ergebnis der Prüfung zu beraten und die gefassten Beschlüsse zu protokollieren haben.

Mit freundlichen Grüßen

Genossenschaftsverband Bayern e.V.

  
i.V. Udo Löw

Anlage

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## Bescheinigung

### Bescheinigung der Steuerberatungsgesellschaft über die Erstellung

Wir haben auftragsgemäß den nachstehenden Jahresabschluss – bestehend aus Bilanz und Gewinn- und Verlustrechnung – der European OFS SCE mbH für das Geschäftsjahr vom 1. Januar 2019 bis 31. Dezember 2019 unter Beachtung der deutschen handelsrechtlichen Vorschriften und der ergänzenden Bestimmungen der Satzung erstellt.

Grundlage für die Erstellung waren die von uns geführten Bücher und die uns darüber hinaus vorgelegten Belege und Bestandsnachweise, die wir auftragsgemäß nicht geprüft haben, sowie die uns erteilten Auskünfte.

Die Buchführung sowie die Aufstellung des Inventars und des Jahresabschlusses nach den deutschen handelsrechtlichen Vorschriften und den ergänzenden Bestimmungen der Satzung liegen in der Verantwortung der gesetzlichen Vertreter der Gesellschaft.

Wir haben unseren Auftrag unter Beachtung der Verlautbarung der Bundessteuerberaterkammer zu den Grundsätzen für die Erstellung von Jahresabschlüssen durchgeführt. Dieser umfasst die Entwicklung der Bilanz und der Gewinn- und Verlustrechnung auf Grundlage der Buchführung und des Inventars sowie der Vorgaben zu den anzuwendenden Bilanzierungs- und Bewertungsmethoden.

München, 28.06.2021

ETL BAYERN TREUHAND GMBH  
Steuerberatungsgesellschaft



Albert Mitterer, StB

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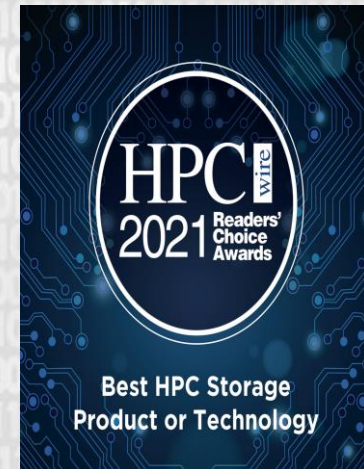
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# EOFS 2021 BeeGFS update

Frank Herold  
CEO





# BIZ

## What guides us?

- Close interaction with our community, customers and partners, get early feedback
  - BoF, BUG, Stammtisch
- Aiming for realistic and smart solutions, no over-promising
- Staying true to the BeeGFS design principles: Speed and simplicity

## Completed in '21

- Establish a core TPQ dev/devops team while cooperating with Fraunhofer on research
- Committed to public source
- Successful FY'21
  - Hardware delivery issues delaying projects

# ThinkParQ's 2021

## Areas of focus

- Keep the code base release-ready at all times, release often
- Strong DevOps team providing automation for development and releases
- Metadata Buddy Mirroring
- Support for new Linux versions that come with major distributions
- Support of the ARM architecture
- Performance improvements by improving the caching on the client side
- Networking code stability
- Support for GPU direct
- Offer solutions to simplify and (partially) automate data movement

# Product direction 1H/22

## DevOps

- New team that interacts very closely with the development team
- Overhaul of the existing CI pipeline
- Systematic testing, realistic workloads
- ThinkParQ driven benchmarks

## Data Management

- First beta versions of BeeHive out since 7.2.3
  - Quick and easy way to obtain file metadata
  - Search files based on specific attributes
  - Based on GUF1 (LANL)
- Data movement tool: BeeMove
  - Transfer data to other types of storage (S3)
  - Parallel, high performance file copy utilizing MPI
  - Based on pftool (LANL)

## Linux 5.10+ and ARM

- Removal/unavailability of the `set_fs()` API
- Significant code changes in client I/O path
- Future proofing and unifying the code base

## Other distributions

- Currently Alma and Rocky 8.4 and RHEL
- Repos will be merged in the future

## GPU direct support

- Direct data transfer from GPU to filesystem
- Includes multi-rail support for the client
- Working prototype implementation

## QoL improvements

- helperd removal, mount via `/etc/fstab`

# Industry questions

- onPrem vs. Cloud vs. Tiering
  - Value of Cloud for PFS
  - Data management
- EC vs Scratch performance



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# DAOS Update

Johann Lombardi, Senior Principal Engineer, Intel

The Intel logo is located in the bottom left corner of the slide. It consists of the word "intel" in a white, lowercase, sans-serif font, with a registered trademark symbol (®) to its upper right. The logo is positioned over a dark blue background, with a vertical blue bar and a cluster of blue squares of varying sizes to its left.

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Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration.

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Tests document performance of components on a particular test, in specific systems. Differences in hardware, software, or configuration will affect actual performance. For more complete information about performance and benchmark results, visit <http://www.intel.com/benchmarks>.

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information visit <http://www.intel.com/benchmarks>.

Intel Advanced Vector Extensions (Intel AVX) provides higher throughput to certain processor operations. Due to varying processor power characteristics, utilizing AVX instructions may cause a) some parts to operate at less than the rated frequency and b) some parts with Intel® Turbo Boost Technology 2.0 to not achieve any or maximum turbo frequencies. Performance varies depending on hardware, software, and system configuration and you can learn more at <http://www.intel.com/go/turbo>.

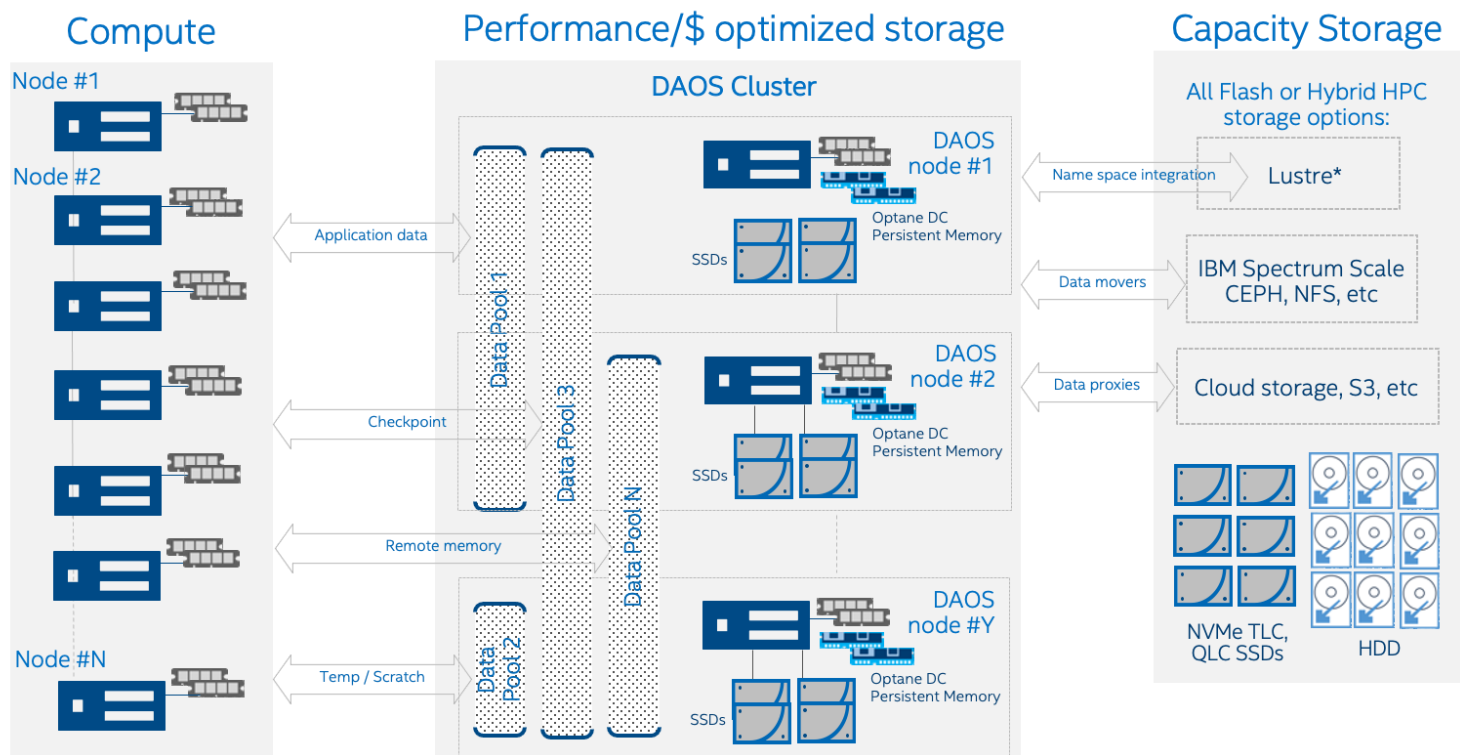
Intel's compilers may or may not optimize to the same degree for non-Intel microprocessors for optimizations that are not unique to Intel microprocessors. These optimizations include SSE2, SSE3, and SSSE3 instruction sets and other optimizations. Intel does not guarantee the availability, functionality, or effectiveness of any optimization on microprocessors not manufactured by Intel. Microprocessor-dependent optimizations in this product are intended for use with Intel microprocessors. Certain optimizations not specific to Intel microarchitecture are reserved for Intel microprocessors. Please refer to the applicable product User and Reference Guides for more information regarding the specific instruction sets covered by this notice.

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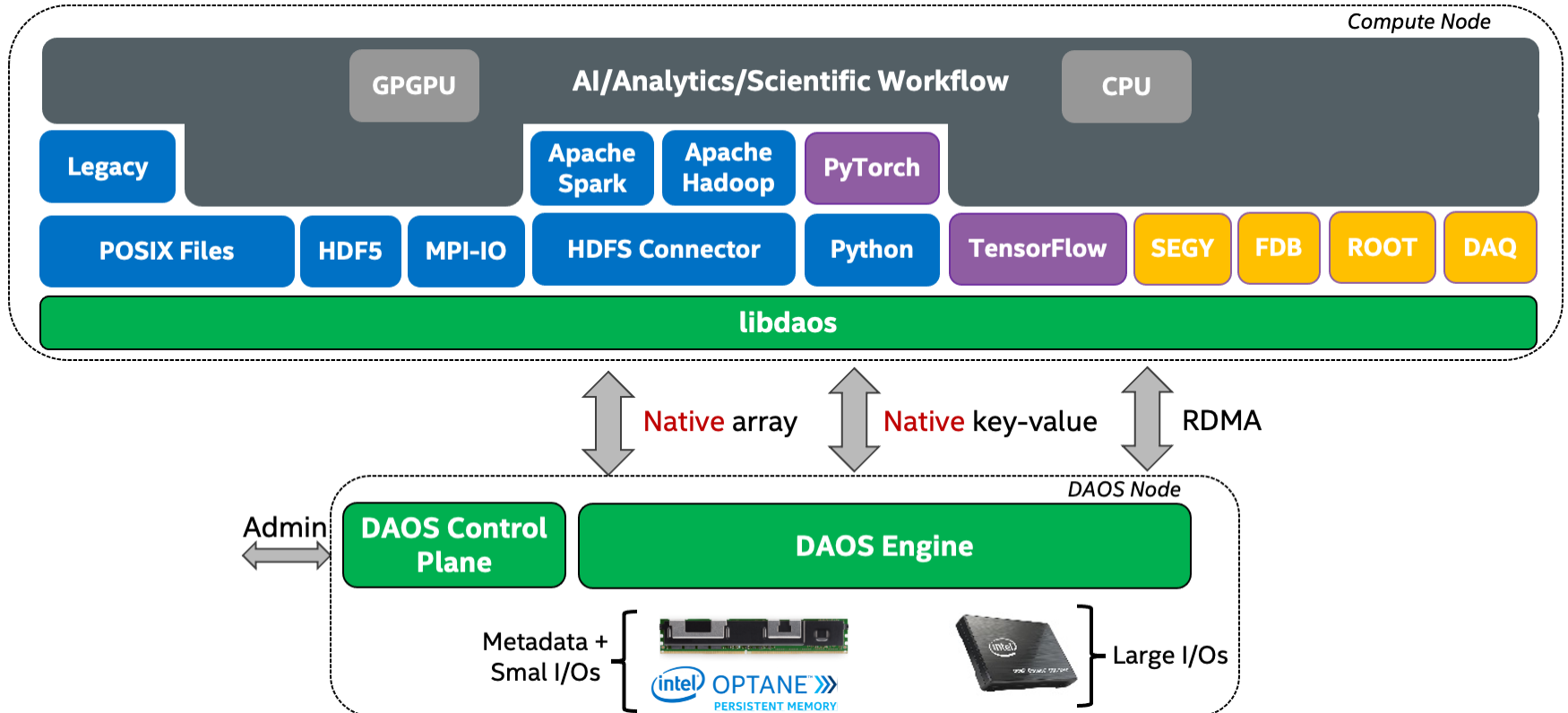
# DAOS in the Overall Cluster Architecture





# DAOS Ecosystem

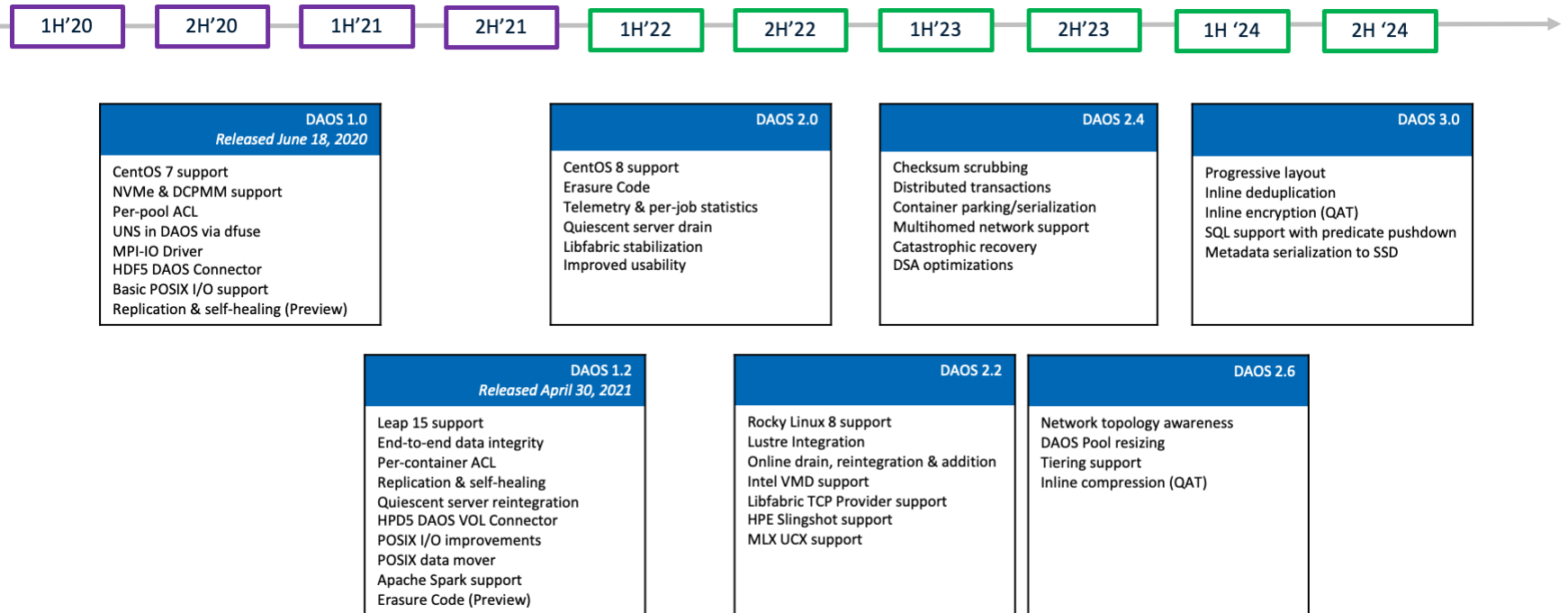
- Generic I/O middleware supported today
- Domain-specific data models under development in co-design with partners
- Enablement in progress



# DAOS Ecosystem

<p>Hardware Partners</p>	<p>Hewlett Packard Enterprise, Lenovo, intel, SUPERMICRO, Atos, inspur, QCT, NEC</p>
<p>Reseller Partners</p>	<p>COLFAX Customized Solutions, MEGWARE, RSC, E4 COMPUTER ENGINEERING, crsi, ScaleWorX</p>
<p>Software Development and 3<sup>rd</sup> party support</p>	<p>crōit, SEAGATE, Brightskies, Google Cloud, Netrix 宁畅, H3C 数字化解决方案领导者</p>
<p>End Customers</p>	<p>JINR, Argonne NATIONAL LABORATORY, Tsinghua University, UNIVERSITY OF CAMBRIDGE, lrz</p>

# DAOS Roadmap



**NOTE: All information provided in this roadmap is subject to change without notice.**

# Resources



## ■ Github

- <https://github.com/daos-stack/daos>

## ■ DAOS online documentation

- <http://daos.io>

## ■ Community mailing list & slack

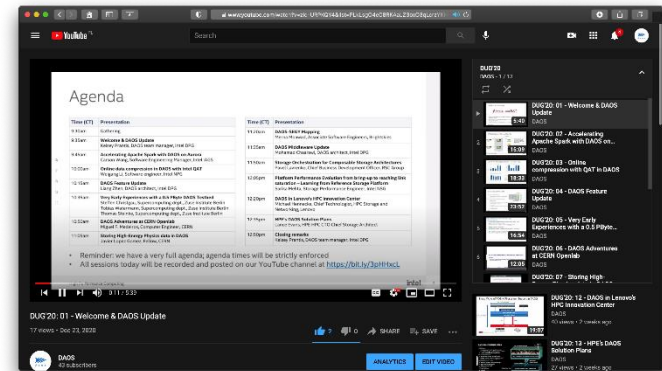
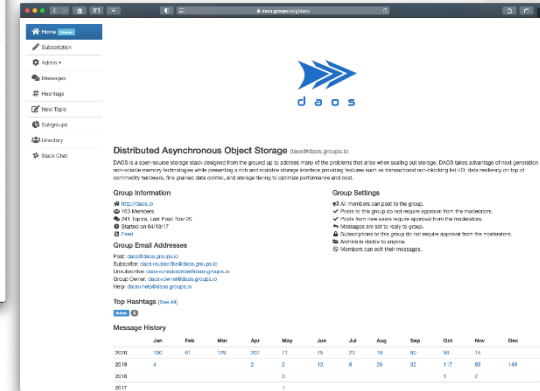
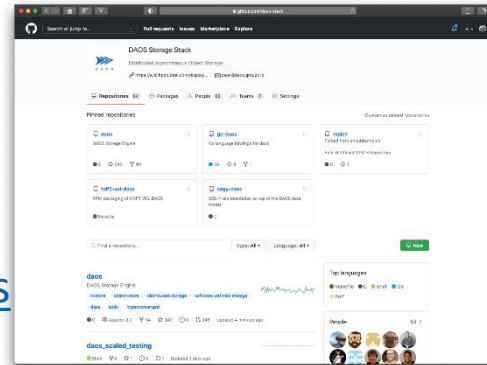
- <https://daos.groups.io>

## ■ YouTube channel

- <http://video.daos.io>

## ■ 5<sup>th</sup> DAOS User Group

- DUG21 presentations/recordings available at <http://dug.daos.io>



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16:40 – 16:50	<b>LUSTRE – Update</b>	<b>Peter Jones (DDN/Whamcloud)</b>
16:50 – 17:00	Miscellaneous and Outlook to 2022	Hugo Falter, Frank Baetke
17:00	Adjourn	

# Lustre Community Update

Peter Jones  
EOFS General Assembly  
November 30<sup>th</sup> 2021

## Lustre LTS Releases

Lustre 2.12.7 went GA in July

- [http://wiki.lustre.org/Lustre\\_2.12.7\\_Changelog](http://wiki.lustre.org/Lustre_2.12.7_Changelog)

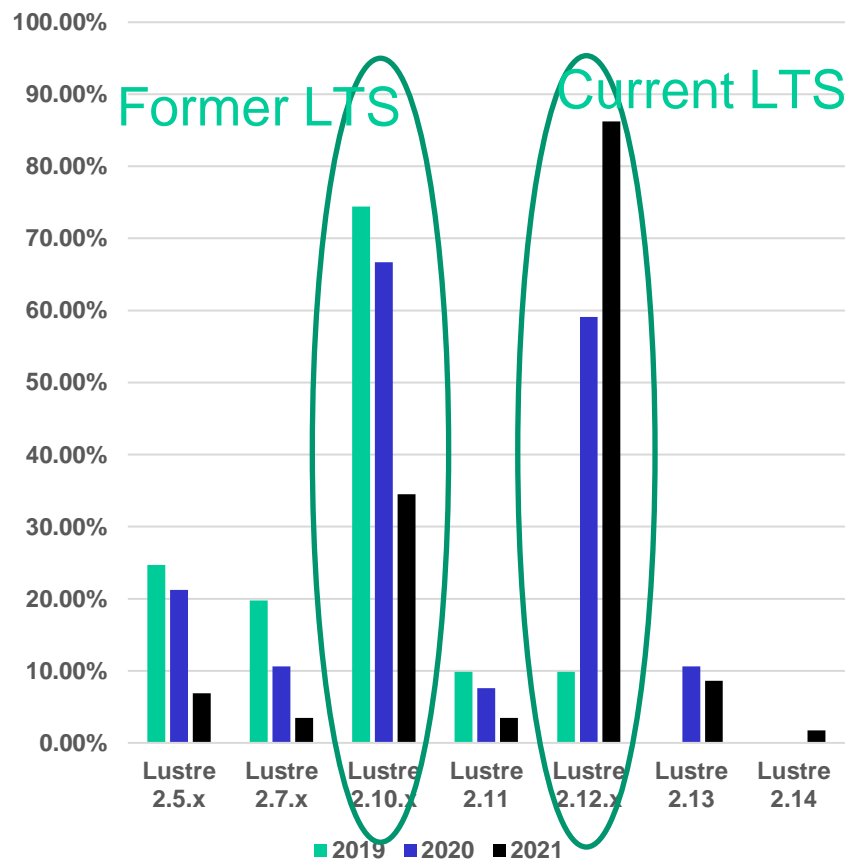
Lustre 2.12.8 coming soon

- RHEL 8.5 client support
- [http://wiki.lustre.org/Lustre\\_2.12.8\\_Changelog](http://wiki.lustre.org/Lustre_2.12.8_Changelog)

Upcoming Lustre 2.15 release will be next LTS

- Will be transition period between 2.12.x and 2.15.x

Which Lustre versions do you use in production? (select all that apply)





# Lustre Major Releases

## Lustre 2.14 went GA in Feb

- [http://wiki.lustre.org/Release\\_2.14.0](http://wiki.lustre.org/Release_2.14.0)
- Client-side Data Encryption
- OST Pool Quotas
- DNE Auto Restripping

## Lustre 2.15 coming soon

- [http://wiki.lustre.org/Release\\_2.15.0](http://wiki.lustre.org/Release_2.15.0)
- OS support
  - RHEL 8.5 servers/clients
  - RHEL 8.5/SLES15 SP3/Ubuntu 20.04 clients
- Client-side filename Encryption
- GPUDirect Storage

## Lustre Community Roadmap



\* Estimates are not commitments and are provided for informational purposes only  
 \* Fuller details of features in development are available at <http://wiki.lustre.org/Projects>

## Community Events

All 2021 events were still virtual

**LUG21** May 19<sup>th</sup> – 20<sup>th</sup>

<https://www.opensfs.org/events/lug-2021/>

**ISC21 Lustre BOF** Jul 1<sup>st</sup> <https://www.eofs.eu/events/21-isc-lustre-bof>

**LAD21** Sep 28<sup>th</sup> – 30<sup>th</sup> <https://www.eofs.eu/events/lad21>

**SC21** Lustre BOF Nov 18<sup>th</sup>

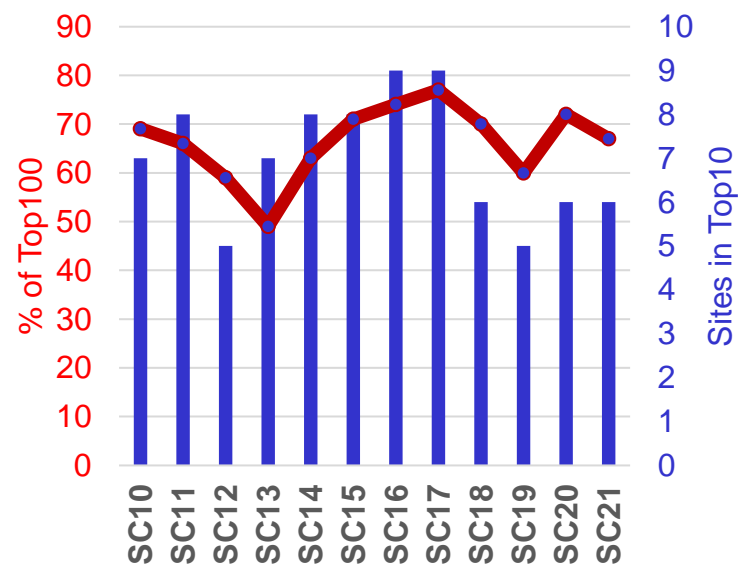
<https://sc21.supercomputing.org/presentation/?id=bof117&sess=sess364>

**China LUG** Dec 2<sup>nd</sup> - 3<sup>rd</sup> <http://lustrefs.cn/clug2021/>

**Japan LUG** Dec 10<sup>th</sup> <https://www.jlug.info>

We hope to be able to meet in person again in 2022

Historic Lustre Top 100



Data analysis of top500.org lists

## EOFS General Assembly Nov. 30<sup>th</sup> 2021 - Agenda

15:30 – 15:35	Welcome and Introduction	Frank Baetke (EOFS - for HPE)
15:35 – 15:45	Status, Accomplishments, Financial Update	Hugo Falter (ParTec)
15:45 – 15:50	Administrative Council (Board) Update	Frank Baetke et al.
15:50 – 16:00	GVB Audit - Findings, Decisions, Publication	Frank Baetke
16:00 – 16:05	EOFS Financial Statement 2019 Adoption	Hugo Falter, Frank Baetke
16:05 – 16:10	Discharge of the EOFS Directors and Board	Frank Baetke et al.
16:10 – 16:15	Quorum Status & Elections	Marianne v. Richthofen, Frank Baetke
16:15 – 16:20	Technology Section – Member Updates	Frank Baetke et al.
16:20 – 16:30	BeeGFS – Update	Frank Herold (ThinkParQ)
16:30 – 16:40	DAOS – Update	Johann Lombardi (Intel)
16:40 – 16:50	LUSTRE – Update	Peter Jones (DDN/Whamcloud)
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17:00	Adjourn	

**Thank You!**