

NEC Scalable Technology File System/Client

Release Note

06/30/2022

NEC Corporation

This is the release note of NEC Scalable Technology File System/Client.

1 Overview

This is client product of distributed parallel file system ScaTeFS. The ScaTeFS distributes data and metadata to multiple servers uniformly, so that the throughput of the entire system increases, and parallel I/O processing can be used for large files.

Product name and Product code of ScaTeFS/Client are as follows:

Product name	Product code
NEC Scalable File System/Client	UWAE00 UWHAE00(support pack)

Supporting Linux distribution, kernel version, MLNX_OFED version and ScaTeFS/Client version are as follows.

Linux distribution	kernel version	MLNX_OFED version	ScaTeFS/Client version
RHEL 8.5	4.18.0-348.23.1.el8_5.x86_64	5.6-1.0.3.3	3.1.41.1
	4.18.0-348.12.2.el8_5.x86_64	5.5-1.0.3.2	
Rocky Linux 8.5	4.18.0-348.23.1.el8_5.x86_64	5.6-1.0.3.3	
RHEL 8.4 or CentOS 8.4	4.18.0-305.25.1.el8_4.x86_64	4.9-4.0.8.0 5.5-1.0.3.2	3.1.31.0
RHEL 8.3 or CentOS 8.3	4.18.0-240.22.1.el8_3.x86_64	4.9-3.1.5.0	3.1.20.1
RHEL 7.9 or CentOS 7.9	3.10.0-1160.36.2.el7.x86_64	4.9-2.2.4.0	3.0.60.1
	3.10.0-1160.21.1.el7.x86_64		

2 Release files

The descriptions of ScaTeFS/Client packages are below.

The packages applied to RHEL and Rocky Linux/CentOS are the same.

The scalar machine represents a Linux machine except SX-Aurora TSUBASA.

The description of ScaTeFS/Client packages for RHEL/Rocky Linux 8.5 are as follows:

Package name	Description
kmod-scatefs-client-modules-mofed5.5	kernel module package (for MLNX_OFED 5.5-1.0.3.2)
kmod-scatefs-client-modules-mofed5.6	kernel module package (for MLNX_OFED 5.6-1.0.3.3)
kmod-scatefs-client-modules	kernel module package (for scalar machine)
scatefs-client-libscatefsib_ve	ScaTeFS VE direct IB library package
scatefs-client-mount-utils	mount command package
scatefs-client-rcli-utils	remote CLI package
scatefs-client-sys-utils	system commands package
scatefs-client-usr-utils	user commands package
scatefs-client-modules-mofed5.5-XXX-YYY.el8_5.src.rpm XXX: ScaTeFS/Client version YYY: ScaTeFS/Client release	kernel module source package (for MLNX_OFED 5.5-1.0.3.2)
scatefs-client-modules-mofed5.6-XXX-YYY.el8_5.src.rpm XXX: ScaTeFS/Client version YYY: ScaTeFS/Client release	kernel module source package (for MLNX_OFED 5.6-1.0.3.3)
scatefs-client-modules-XXX-YYY.el8_5.src.rpm XXX: ScaTeFS/Client version YYY: ScaTeFS/Client release	kernel module source package (for scalar machine)
scatefs-client-mount-utils-XXX-YYY.el8_5.src.rpm XXX: ScaTeFS/Client version YYY: ScaTeFS/Client release	mount command source package

The description of ScaTeFS/Client packages for RHEL/CentOS 8.4 are as follows:

Package name	Description
kmod-scatefs-client-modules-mofed4.9	kernel module package (for MLNX_OFED 4.9-4.0.8.0)
kmod-scatefs-client-modules-mofed5.5	kernel module package (for MLNX_OFED 5.5-1.0.3.2)
kmod-scatefs-client-modules	kernel module package (for scalar machine)
scatefs-client-libscatefsib_ve	ScaTeFS VE direct IB library package
scatefs-client-mount-utils	mount command package
scatefs-client-rcli-utils	remote CLI package
scatefs-client-sys-utils	system commands package
scatefs-client-usr-utils	user commands package
scatefs-client-modules-mofed4.9-XXX-YYY.el8_4.src.rpm XXX: ScaTeFS/Client version YYY: ScaTeFS/Client release	kernel module source package (for MLNX_OFED 4.9-4.0.8.0)

scatefs-client-modules-mofed5.5-XXX-YYY.el8_4.src.rpm XXX: ScaTeFS/Client version YYY: ScaTeFS/Client release	kernel module source package (for MLNX_OFED 5.5-1.0.3.2)
scatefs-client-modules-XXX-YYY.el8_4.src.rpm XXX: ScaTeFS/Client version YYY: ScaTeFS/Client release	kernel module source package (for scalar machine)
scatefs-client-mount-utils-XXX-YYY.el8_4.src.rpm XXX: ScaTeFS/Client version YYY: ScaTeFS/Client release	mount command source package

The description of ScaTeFS/Client packages for RHEL/CentOS 8.3 are as follows:

Package name	Description
kmod-scatefs-client-modules-mofed4.9	kernel module package (for MLNX_OFED 4.9-3.1.5.0)
kmod-scatefs-client-modules	kernel module package (for scalar machine)
scatefs-client-libscatefsib_ve	ScaTeFS VE direct IB library package
scatefs-client-mount-utils	mount command package
scatefs-client-rcli-utils	remote CLI package
scatefs-client-sys-utils	system commands package
scatefs-client-usr-utils	user commands package
scatefs-client-modules-mofed4.9-XXX-YYY.el8_3.src.rpm XXX: ScaTeFS/Client version YYY: ScaTeFS/Client release	kernel module source package (for MLNX_OFED 4.9-3.1.5.0)
scatefs-client-modules-XXX-YYY.el8_3.src.rpm XXX: ScaTeFS/Client version YYY: ScaTeFS/Client release	kernel module source package (for scalar machine)
scatefs-client-mount-utils-XXX-YYY.el8_3.src.rpm XXX: ScaTeFS/Client version YYY: ScaTeFS/Client release	mount command source package

The description of ScaTeFS/Client packages for RHEL/CentOS 7.9 are as follows:

Package name	Description
kmod-scatefs-client-modules-mofed4.9	kernel module package (for MLNX_OFED 4.9-2.2.4.0)
kmod-scatefs-client-modules	kernel module package (for scalar machine)
scatefs-client-libscatefsib_ve	ScaTeFS VE direct IB library package
scatefs-client-mount-utils	mount command package
scatefs-client-rcli-utils	remote CLI package
scatefs-client-sys-utils	system commands package
scatefs-client-usr-utils	user commands package
scatefs-client-modules-mofed4.9-XXX-YYY.el7.src.rpm XXX: ScaTeFS/Client version YYY: ScaTeFS/Client release	kernel module source package (for MLNX_OFED 4.9-2.2.4.0)
scatefs-client-modules-XXX-YYY.el7.src.rpm XXX: ScaTeFS/Client version YYY: ScaTeFS/Client release	kernel module source package (for scalar machine)
scatefs-client-mount-utils-XXX-YYY.el7.src.rpm	mount command source package

XXX: ScaTeFS/Client version	
YYY: ScaTeFS/Client release	

3 Installing

For installing ScaTeFS/Client on SX-Aurora TSUBASA, refer to "SX-Aurora TSUBASA Installation Guide" on the following site:

NEC SX-Aurora TSUBASA Documentation
<https://www.hpc.nec/documentation>

When installing ScaTeFS/Client on scalar machine, refer to the installation guide for scalar machine. The guide can be found in the content of ScaTeFS/Client in NEC Support Portal.

4 Manual

For setting ScaTeFS/Client, refer to "ScaTeFS Administrator's Guide" on the following site:

NEC SX-Aurora TSUBASA Documentation
<https://www.hpc.nec/documentation>

5 License

The license of following packages are Commercial.

- scatefs-client-libscatefsib_ve
- scatefs-client-reli-utils
- scatefs-client-sys-utils
- scatefs-client-usr-utils

The license of following packages are GPLv2.

- kmod-scatefs-client-modules-mofed5.6
- kmod-scatefs-client-modules-mofed5.5
- kmod-scatefs-client-modules-mofed4.9
- kmod-scatefs-client-modules
- scatefs-client-mount-utils

6 Change Log

The change logs since May 2021 are described below.

Jun 2022 Version: 3.1.41.1 for RHEL/Rocky Linux 8.5

- Support the following kernel on RHEL/Rocky Linux 8.5.
 - 4.18.0-348.23.1.el8_5.x86_64
- Support MLNX_OFED 5.6-1.0.3.3.

Apr 2022 ScaTeFS/Client for RHEL/CentOS 8.2

- The RHEL/CentOS 8.2 support have been terminated at the end of April, 2022.

Mar 2022 Version: 3.1.40.0 for RHEL 8.5

- Support the following kernel on RHEL 8.5.
 - 4.18.0-348.12.2.el8_5.x86_64

Mar 2022 Version: 3.1.31.0 for RHEL/CentOS 8.4

- Support Mellanox OFED 5.5-1.0.3.2.

Mar 2022 ScaTeFS/Client for RHEL/CentOS 7.8

- The RHEL/CentOS 7.8 support have been terminated at the end of March, 2022.

Dec 2021 Version: 3.1.30.2 for RHEL/CentOS 8.4

- Support the following kernel on RHEL/CentOS 8.4.
 - 4.18.0-305.25.1.el8_4.x86_64

Nov 2021 ScaTeFS/Client for RHEL/CentOS 8.1

- The RHEL/CentOS 8.1 support have been terminated at the end of November, 2021.

Oct 2021 Version: 3.1.20.1 for RHEL/CentOS 8.3

- Support the following kernel on RHEL/CentOS 8.3.
 - 4.18.0-240.22.1.el8_3.x86_64
- Improve performance when multiple random read IO of a small size of several K bytes are executed simultaneously.

Sep 2021 Version: 3.0.60.1 for RHEL/CentOS 7.9

- Support the following kernel on RHEL/CentOS 7.9.
 - 3.10.0-1160.36.2.el7.x86_64

Aug 2021 ScaTeFS/Client for RHEL/CentOS 7.7

- The RHEL/CentOS 7.7 support have been terminated at the end of August, 2021.

May 2021 Version: 3.0.60.1 for RHEL/CentOS 7.9

- Support the following kernel on RHEL/CentOS 7.9.
 - 3.10.0-1160.21.1.el7.x86_64