

Veritas Storage FoundationTM Cluster File System リリース ノート

HP-UX

5.0



Veritas Storage Foundation Cluster File System リリースノート

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Storage Foundation Cluster File System 5.0

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ライセンスと登録

Veritas Storage Foundation Cluster File System はライセンスが必要な製品です。ライセンスのインストールについては、『Veritas Storage Foundation Cluster File System Installation Guide』を参照してください。

テクニカルサポート

製品のサポートを受けるには、<http://support.veritas.com> ページへアクセスし「Phone Support」または「E-mail Support」をクリックします。このページから TechNote、Software Alerts、ソフトウェアのダウンロード、ハードウェア互換性リスト、VERITAS Email Notifications サービスなどにアクセスすることもできます。「Knowledge Base Search」機能を使用し、製品ドキュメントのリリースなどの製品情報へアクセスすることができます。

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Storage Foundation Cluster File System リリースノート

はじめに

Veritas Storage Foundation Cluster File System (SFCFS) と Storage Foundation Cluster File System High Availability (SFCFS HA) は、Veritas File System (VxFS) のクラスタ化機能を設定し、Storage Foundation とは別ライセンスによって提供されます。システムとアプリケーションサービスを監視し、ハードウェアまたはソフトウェアの障害時に別のシステムでサービスを再起動できるフェールオーバー機能は、SFCFS の操作には不要です。ただし、SFCFS HA をインストールして設定した後で、クラスタに追加することができます。

メモ: 今回のリリースの更新、パッチ、ソフトウェアの問題に関する最新情報について、次の Veritas テクニカルサポートの TechNote (技術情報) をお読みください。

<http://support.veritas.com/docs/281875/>

新機能

Veritas Storage Foundation Cluster File System は、次の新機能を提供します。

同時 I/O のサポート

この機能は、同時 I/O の現在のサポートをクラスタファイルシステムに拡張します。クラスタファイルシステム内のファイルに対する同時読み書きアクセスと、ローカルマウントに対する同時読み書きアクセスは同じ意味です。

delaylog のサポート

クラスタマウントで `-o delaylog` マウントオプションがサポートされます。これは、SFCFS のデフォルト状態です。

ディスクレイアウトバージョンのサポート

SFCFS ではディスクレイアウトバージョン 7 がサポートされます。

入れ子マウントのサポート

この機能により、任意の VxFS マウントポイント上で VxFS ファイルシステムをマウントすることができます。共有 VxFS マウントポイント上で非 VxFS ファイルシステムをマウントするための必要条件はありません。共有 VxFS ファイルシステム上のディレクトリを VxFS ファイルシステムのマウントポイントとして使うことができます。これにより、共有ファイルシステムの入れ子マウントが可能になります。SFCFS と VCS (Veritas Cluster Server) の管理者インターフェースは、入れ子マウントをサポートするように拡張されています。

複数のトランザクションサーバー - SFCFS に対する新しい主要なアーキテクチャ上の拡張

この機能によって、SFCFS は、クラスタの 1 つのノードでしかメタデータ操作（ファイルの作成、削除、拡張など）を処理できないというプライマリ / セカンダリアーキテクチャから、対称性を持つアーキテクチャに移行しました。このアーキテクチャでは、クラスタのすべてのノードで同時にメタデータ操作を処理できます。これにより、SFCFS で、きわめて高いメタデータ操作の負荷に対処できます。

システム必要条件

ここには、このリリースのシステム必要条件とハードウェア互換性の問題が記載されています。

HP-UX オペレーティングシステム必要条件

SFCFS の今回のリリースは、HP-UX 11i v2.0（2004 年 9 月）以降でサポートされています。

ハードウェアの互換性

SFCFS をサポートしているサーバー、ネットワークコントローラ、ディスクサブシステムについては、<http://support.veritas.com/> で入手可能なハードウェア互換性リストを参照してください。

必須のパッチ

パッチの必要条件とバージョンは、製品のリリース時期によって異なります。パッチの最新のバージョンと情報については、ご購入先にお問い合わせください。コンポーネント製品の現在のパッチのリストについては、『Veritas Storage Foundation Cluster File System Installation Guide』を参照してください。

サポートの終了と今後のサポートの問題

ここでは、次の機能について説明します。

- 5.0 でサポート対象外の機能
- 今後のリリースでサポートされなくなる可能性がある機能

バージョン 4 とバージョン 5 のディスクレイアウト

VxFS ディスクレイアウトバージョン 4 と 5 はサポートされなくなりました。バージョン 7 は、5.0 リリースのデフォルトのディスクレイアウトバージョンです。

メモ: VxFS 5.0 は、ディスクレイアウト 4 と 5 のファイルシステムの共有（クラスタ）マウントもサポートしていません。

seconly マウントオプション

seconly マウントオプションは、次のメジャーリリースでサポートされなくなる可能性があります。

I/O エラーのマウントオプション

今回のリリースと今後のリリースでは、クラスタでマウントされたファイルシステムに対して、デフォルトの `ioerror=disable` マウントオプションのみがサポートされます。その他の `ioerror` マウントオプションはサポートされません。

修正された問題

このリリースでは次のインシデントが修正されています。

Veritas File System の修正された問題

次の表に、VxFS の今回のリリースで修正された問題についての情報を示します。

インシデント	説明
472089	vxfs_ninode と vx_bc_bufhwm のチューニングパラメータが動的になりました。
477546	fsadm が実行するファイルシステムの再構成を抑制できます。
478142	fsck バイナリが、古いログバージョンのために取り込まれません。
511750	大規模なファイルシステムで fsck と mkfs を使うときに、スワップ領域とチューニングパラメータの変更が必要でした。

既知の問題

今回のリリースでは次のインシデントが報告されています。

5.0 にアップグレードする前の fsck の実行

SFCFS 5.0 にアップグレードする前に、fsck コマンドを実行して、すべてのファイルシステムがクリーンであることを確認してください。fsck (1M) のマニュアルページを参照してください。

fsck コマンドはインテントログを再生し、未処理トランザクションがあればそれらを完了してから、ファイルシステムをクリーンとしてマーク付けします。

警告: 既存のクラスタファイルシステムを 5.0 にアップグレードする前に fsck を実行する必要があります。5.0 にアップグレードした後で fsck コマンドを実行すると、古い fsck バイナリに新しいカーネルとの互換性がないことが原因でコマンドは失敗します。

アップグレードの問題の追加情報については『Veritas Storage Foundation Cluster File System Installation Guide』を参照してください。

ioctl は FCL ファイルではサポート対象外

ioctl は FCL (File Change Log) ファイルではサポートされていません。FCL ファイルの `fsapadm`、`setext`、`fiostat`、`fsmap` などのコマンドは、機能を実装するために内部 `ioctl` が使われているので、サポートされていません。

FCL を有効にした後のノードのクラッシュと参加の問題

FCL (File Change Log) がオンになってから 60 秒以内に、ノードがクラッシュまたはクラスタに参加した場合、FCL はデータを正しく記録しません。

[608169]

インストール中にソフトウェアディスクが取り出せない

インストール中に設定されて起動された製品があると、ソフトウェアディスクを取り出せなくなります。これにより、次のような状況でインストールを続行できないことがあります。

- 関連パッケージをインストールできるように言語パックディスクをロードする必要がある場合。
- インストールを完了するためにシステムの再ブートを必要としない製品をインストールした場合。

この問題は、インストールを完了するためにシステムの再ブートが必要な製品をインストールまたはアップグレードした場合は、関係ありません。

インストール時にこの問題を回避するには

- 1 `installer` スクリプトに、他のオプションとともに `-installonly` オプションを指定します。
- 2 ソフトウェアディスクを取り出します。
- 3 `-configure` オプションを指定した `installer` スクリプトを実行します。

ソフトウェアディスクを取り出せない場合

- 1 イベントソースデーモンを停止します。

```
# /usr/sbin/vxddladm stop eventsource
```
- 2 `ps` コマンドで報告されたプロセス ID を指定した `kill -9` コマンドを使って、`vxcached`、`vxrelocd`、`vxnotify` の各プロセスを強制終了します。
- 3 ソフトウェアディスクを取り出します。
- 4 VxVM デーモンプロセスを再起動します。

```
# /usr/sbin/vxddladm start eventsource
# /etc/vx/bin/vxcached
# /etc/vx/bin/vxrelocd
```

[622442]

16 ノードを超える SFCFS 設定のサポート

SFCFS 5.0 は、最大 32 ノードのクラスタファイルシステムをサポートします。シマンテック社では、製品リリース時に、SFCFS 5.0 で 16 ノードまでのクラスタファイルシステム構成をテストし、認定しています。16 ノードを超えるクラスタファイルシステムの配置の承認と推奨については、アプリケーションの作業負荷に基づいてサポートを受けられます。SFCFS サポートの問題の最新情報については、次の TechNote（技術情報）を参照してください。

<http://support.veritas.com/docs/281875/>

ソフトウェアの制限事項

ここでは、SFCFS の今回のリリースのソフトウェアの問題が記載されています。

VxFS の以前のバージョンとの互換性

VxFS 5.0 ファイルシステムソフトウェアを削除してシステムを VxFS 4.1 に戻した場合、VxFS 5.0 ソフトウェアで作成されたディスクレイアウトバージョン 7 のファイルシステムにはアクセスできなくなります。

また、ディスクレイアウトバージョン 7 のファイルシステムがブートディスク上に存在するときに VxFS 4.1 を削除すると、ホストは正しく再ブートせず、bcheckrc プロンプトが表示されたままの状態になります。ホストを正しく再ブートするには、まず fstab ファイルを編集し、ディスクレイアウトバージョン 7 のファイルシステムをコメントアウトします。

VxFS の以前のバージョンとの互換性に関する追加情報については、『Veritas Storage Foundation リリースノート』を参照してください。

ノード名とホスト名の拡張

HP-UX 11i v2（2005 年 5 月）の SPK（Software Pack）の一環として、HP はオプションで、**Node and Host Name Expansion**（NodeHostNameXpnd）の製品バンドル、リビジョン B.11.23.01 を提供しました。この製品バンドルの機能を使うと、最大 255 バイトのノード名とホスト名を作成できます。現在の制限は、ノード名については 8 バイト、ホスト名については 64 バイトです。

この製品バンドルをインストールしても、ノード名とホスト名の 255 バイト長のサポートは自動的に有効になりません。デフォルトのオペレーションシステムの設定は、ノード名については 8 バイト、ホスト名については 64 バイトのままです。システム上でサイズの大きい名前の使用を許可するには、kctune コマンドを使って、動的なカーネルチューニングパラメータの expanded_node_host_names を有効にする必要があります。

HP-UX 用の Veritas 5.0 製品では、ホスト名拡張バンドルを使ったテストは行われませんでした。よって、**Node and Host Name Expansion** はサポートされていません。

SFCFS での HP-UX ディストリビューションとカーネルバージョンの一貫性

クラスタノードは、同じ HP-UX ディストリビューションとカーネルバージョンを実行する必要があります。同じクラスタ内で 32 ビットカーネルと 64 ビットカーネルを混在させることはできません。クラスタノードは、64 ビットカーネルを実行する必要があります。VxFS では 32 ビットカーネルはサポートされていません。

SFCFS エージェントは、日本語のマウントポイントをサポートしない

SFCFS エージェント（たとえば、`cfsmntadm` や `cfsmount`）はいずれも日本語のマウントポイントで動作しません。SFCFS エージェントでは VCS を必要としますが、現在 VCS は ASCII 以外の入力をサポートしていないため、日本語オペレーティングシステムではこれらのコマンドが失敗します。

マウント状態の VxFS ファイルシステムによって再ブートできないことがある

VxFS ファイルシステムをマウントし、そのファイルシステムに I/O を行ってからマシンを再ブートしようとしても、再ブートできないことがあります。この問題を回避するには、マシンを再ブートする前に、マウントしたすべての VxFS ファイルシステムのマウントを解除します。[153253]

フェンシング

SFCFS のインストール手順で、フェンシングを有効にしたが、まだコーディネータディスクを設定する必要がある場合、**Cluster Volume Manager** はクラスタを参加させません。フェンシングを無効にする場合、または現在の設定ではフェンシングをサポートできない場合は、次の手順でフェンシングを無効にし、共有ディスクグループを参加可能にします。

- 1 各ノードで `/etc/vxfenmode` ファイルを作成します（ない場合）。
- 2 このファイルに文字列 `vxfen_mode=disabled` を追加します。

メモ: CPI インストーラスクリプトを使って、無効になったフェンシングモードでクラスタを設定すると、手順 1 と 2 は自動的に実行されます。

Cluster Volume Manager プロトコルに必要なアップグレード

ディスクグループを以前のバージョンからアップグレードする前に、CVM (Cluster Volume Manager) プロトコルをアップグレードしておく必要があります。

CVM プロトコルをアップグレードするには

- 1 既存のクラスタプロトコルバージョンを確認します。
vxctl protocolversion
- 2 クラスタプロトコルバージョンをクラスタ全体でバージョン 70 にアップグレードするには、マスターノードで次のコマンドを使います。
vxctl upgrade

インストール中の NIC 検出

SFCFS/SFCFS HA のインストール時に、有効なネットワーク相互接続カード (NIC) が検出されます。一部のオペレーティングシステムでは、制限によって NIC の検出が正しく実行されないことがあります。特に、ハートビートリンクについては、実際に利用できる数より多くの NIC が検出されることがあります。インストールを続行する前に、システムにある有効な NIC を確認してください。どの NIC が有効であるかを確認するには、次のコマンドを使います。

```
# ifconfig -a
```

キャッシュアダプタ

キャッシュアダプタは、個別のノードのファイルシステムで mount コマンドを使って設定できます。他のクラスタノードには反映されません。この問題を回避するには、必要なキャッシュアダプタを mount コマンドの代わりに vxtunefs コマンドで設定します。

Cached Quick I/O

ファイルシステムのキャッシュにデータをキャッシュする、この Quick I/O for Databases 機能はサポートされていません。

クォータ

クォータを使う場合は、ユーザーの UID と GID がクラスタ内の各ノードで同じである必要があります。

名前付きパイプのローカルスコープ

クラスタにマウントされたファイルシステムで作成された名前付きパイプは、ローカルノードに関するローカルスコープだけを持ちます。

mknod コマンドを使って、名前付きパイプ以外のデバイスを作成することはできません。

SFCFS でマウントされたディレクトリのない LD_LIBRARY_PATH

SFCFS でマウントされたディレクトリが LD_LIBRARY_PATH 環境変数に存在する場合、状況によっては（マウントの強制解除を行う場合など）、システムが停止する可能性があります。マウントされた Storage Foundation Cluster File System ディレクトリを含む LD_LIBRARY_PATH を定義しないでください。

ボリュームを削除する前に、Veritas Cluster Server のボリュームレベルのリソース監視機能をオフにする

VCS のボリュームリソースを使っている場合にボリュームを削除するには、削除の前にボリュームリソースの監視機能をオフにする必要があります。ボリュームリソースの監視機能がオフにされていない場合、VCS リソースはボリュームが存在するディスクグループのアクティブ化モードを「off」に変更することで、ディスクグループのアクティブ化モードを無効にします。監視機能をオフにしておかないと、ディスクグループのアクティブ化モードをもとの設定に戻す操作が必要になります。ディスクグループのアクティブ化モードの詳細については、vxodg (1M) のマニュアルページを参照してください。

スワップファイルがサポートされていない

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ジェクトとして通常ファイルを使うリレーショナルデータベースでパフォーマンスが向上します。

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インストールを開始する前に、次のインストールガイドとコンポーネント製品のリリースノートをお読みください。

- 『Veritas Storage Foundation Cluster File System Installation Guide』
(`sfdfs_install.pdf`)
- 『Veritas Storage Foundation Cluster File System Administrator's Guide』
(`sfdfs_admin.pdf`)
- 『Veritas Storage Foundation リリースノート』 (`sf_notes.pdf`)
- 『Veritas Cluster Server Release Notes』 (`vcs_notes.pdf`)

Veritas Storage Foundation Cluster File System のマニュアル

次の各マニュアルは、Veritas Storage Foundation Cluster File System のマニュアルセットに含まれています。

マニュアル名	ファイル名
Veritas Storage Foundation Cluster File System リリースノート (このマニュアル)	sfcfs_notes.pdf
Veritas Storage Foundation Cluster File System Installation Guide	sfcfs_install.pdf
Veritas Storage Foundation Cluster File System Administrator's Guide	sfcfs_admin.pdf

関連するマニュアル

次のマニュアルとオンラインヘルプでは、Storage Foundation Cluster File System のソフトウェアコンポーネントに関する重要な情報を提供しています。

Veritas Storage Foundation のマニュアル

マニュアル名	ファイル名
Veritas Storage Foundation and High Availability Solutions Getting Started Guide	getting_started.pdf
Veritas Storage Foundation リリースノート	sf_notes.pdf
Veritas Storage Foundation Installation Guide	sf_install.pdf
Veritas Storage Foundation for Oracle Administrator's Guide	sf_ora_admin.pdf
Veritas Array Integration Layer アレイ設定ガイド	vail_config.pdf
Veritas Storage Foundation Intelligent Storage Provisioning Administrator's Guide	sf_isp_admin.pdf
Veritas Storage Foundation Cross-Platform Data Sharing 管理者ガイド	sf_cds_admin.pdf
Veritas Enterprise Administrator ユーザーズガイド	vea6x_users.pdf
Veritas Volume Manager Administrator's Guide	vxvm_admin.pdf
Veritas Volume Manager Troubleshooting Guide	vxvm_tshoot.pdf
Veritas FlashSnap Point-In-Time Copy ソリューション管理者ガイド	flashsnap_admin.pdf
Veritas File System Administrator's Guide	vxfs_admin.pdf

Veritas Cluster Server のマニュアル

Veritas Storage Foundation Cluster File System HA で使用可能なマニュアルは、次の Veritas Cluster Server のマニュアルです。

マニュアル名	ファイル名
Veritas Cluster Server Release Notes	vcs_notes.pdf
Veritas Cluster Server Installation Guide	vcs_install.pdf
Veritas Cluster Server User's Guide	vcs_users.pdf
Veritas Cluster Server エージェント開発者ガイド	vcs_agent_dev.pdf
Veritas Cluster Server Bundled Agents Reference Guide	vcs_bundled_agents.pdf
Veritas High Availability Agent for Oracle Installation and Configuration Guide	vcs_oracle_install.pdf

Veritas Volume Replicator マニュアル

次の Veritas Volume Replicator のマニュアルが、Veritas Volume Replicator のオプションとともに利用可能です。

マニュアル名	ファイル名
Veritas Volume Replicator Release Notes	vvr_notes.pdf
Veritas Volume Replicator Installation Guide	vvr_install.pdf
Veritas Volume Replicator Administrator's Guide	vvr_admin.pdf
Veritas Volume Replicator Planning and Tuning Guide	vvr_planning.pdf
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ACE (The Adaptive Communication Environment)

TAO

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Expat XML Parsing Library

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MD5.h

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JavaTip87: Automate the Hourglass Cursor

Kyle Davis

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University of Texas

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