|  |  |
| --- | --- |
| **AccessDeniedException** | Liên quan |
| Kiểm tra quyền hạn truy cập với filesystem | ➋**FileSystemException** |

|  |  |
| --- | --- |
| **FileSystemException** | Liên quan |
| Thrown when a file system operation fails on one or two files. This class is the general class for file system exceptions. | ➋**IOException** |

|  |  |
| --- | --- |
| **DirectoryStream** | Liên quan |
|  | ➋Closeable  ➋Iterable |

|  |  |
| --- | --- |
| **FileSystemNotFoundException** | Liên quan |
| Runtime exception thrown when a file system cannot be found | ➋**RuntimeException** |

|  |  |
| --- | --- |
| **FileSystemAlreadyExistsException** | Liên quan |
| Runtime exception thrown when an attempt is made to create a file system that already exists | ➋**RuntimeException** |

|  |  |
| --- | --- |
| **FileStore** | Liên quan |
|  | ➊**FileAttributeView[1]** |

|  |  |
| --- | --- |
| **FileSystem** | Liên quan |
| Provides an interface to a file system and is the factory for objects to access files and other objects in the file system | ➊**FileAttributeView[1]**  ➊**FileStore**  ➊**Path**  ➊**FileSystemProvider[3]**  ➊**PathMatcher**  ➊**UserPrincipalLookupService**  ➊**WatchService**  ➊**Object** |

|  |  |
| --- | --- |
| **Watchable** | Liên quan |
| An object that may be registered with a watch service so that it can be watched for changes and events | ➊WatchKey  ➊WatchService  ➊WatchEvent |

|  |  |
| --- | --- |
| **WatchEvent** | Liên quan |
|  |  |

|  |  |
| --- | --- |
| **WatchService** | Liên quan |
|  | 🄌**Closeable** |

|  |  |
| --- | --- |
| **WatchKey** | Liên quan |
|  |  |

|  |  |
| --- | --- |
| **Path** | Liên quan |
| Thao tác với đường dẫn | 🄌**FileRef**  🄌**Compable<Path>**  🄌**Iterator<Path>**  🄌**Watchable** |

|  |  |
| --- | --- |
| **AccessMode** | Liên quan |
| Định ngĩa các mode truy cập để kiểm tra khả năng thao tác với fifsys: READ, WRITE, ACCESS | ➋**FileSystemException** |

|  |  |
| --- | --- |
| **FileRef** | Liên quan |
| Tham chiếu tới file. Là một đối tượng xác định vị trí file và định nghĩa phương thức để mở cho phép đọc hay ghi. Đồng thời cho phép truy xuất các attribute của file | ➊**OutputStream**  ➊**InputStream**  ➊**FileAttributeView[1]** |

|  |  |
| --- | --- |
| **Files** | Liên quan |
| Các thao tác với file và folder | ➊**FileRef**  ➊**FileAttribute[1]**  ➊**FileTypeDetector[3]**  ➊**Path**  ➊**FileTreeWalker**  ➊**FileVisitor**  ➊**FileVisitOption**  ➊**AccessController**  ➊**PriviledgeAction** |

|  |  |
| --- | --- |
| **AtomicMoveNotSupportedException** | Liên quan |
| Checked exception thrown when a file cannot be moved as an atomic file system operation | ➋**FileSystemException** |

|  |  |
| --- | --- |
| **DirectoryNotEmptyException** | Liên quan |
| Checked Exception khi có thao tác trên một folder rỗng | ➋**FileSystemException** |

|  |  |
| --- | --- |
| **FileAlreadyExistsException** | Liên quan |
| Checked Exception khi tạo file với tên đã tồn tại | ➋**FileSystemException** |

|  |  |
| --- | --- |
| **FileVisistOption** | Liên quan |
| Defines a file tree traversal option: Follow\_link or Cycles\_Link |  |

|  |  |
| --- | --- |
| **FileTreeWalker** | Liên quan |
| Simple file tree walker that works in a similar manner to nftw(3C). | ➊**LinkOption**  ➊**FileVisitor**  ➊**Path**  ➊**FileVitsitResult**  ➊**FileVisitOption**  ➊**AncestorDirectory[…]**  ➊**Throwable**  ➊**BasicFileAttributes[1]**  ➊**AssertionError**  ➊**Attributes**  ➊**DirectoryStream**  ➊**LinkOption**  ➊**Object** |

|  |  |
| --- | --- |
| **AncesstorDirectory** | Liên quan |
| Lien quan tới xử lý thư mục cha | ➊**Object**  ➊**Path** |

|  |  |
| --- | --- |
| **FileVisistor** | Liên quan |
| A visitor of files. An implementation of this interface is provided to the [walkFileTree](eclipse-javadoc:%E2%98%82=gaevfs/src%3Ccom.newatlanta.repackaged.java.nio.file%7BFileVisitor.java%E2%98%83FileVisitor%E2%98%82Files%E2%98%82walkFileTree) utility method to visit each file in a tree. | ➊**FileVisitResult** |

|  |  |
| --- | --- |
| **FileVisistResult** | Liên quan |
| Kết quả của FileVisitor:Continue, Termiate, sKip\_Subtree, sKip\_Siblings | ➊**FileVisitResult** |

|  |  |
| --- | --- |
| **OpenOption** | Liên quan |
| An object configures how to create or open a file |  |

|  |  |
| --- | --- |
| **CopyOption** | Liên quan |
| An object configures how to copy or moves a file |  |

|  |  |
| --- | --- |
| **CloseWatchServiceException** | Liên quan |
| Unchecked exception thrown when an attempt is made to invoke an operation on a watch service that is closed. | ➋**IllegalStateException** |

|  |  |
| --- | --- |
| **CloseDirectoryStreamException** | Liên quan |
| Checked exception thrown when a file cannot be moved as an atomic file system operation | ➋**IllegalStateException** |

|  |  |
| --- | --- |
| **CloseFileStreamException** | Liên quan |
| Unchecked exception khi cố thử thao tác vào một file và filesys bị đóng | ➋**IllegalStateException** |

|  |  |
| --- | --- |
| **FileSystems** | Liên quan |
| Provides an interface to a file system and is the factory for objects to access files and other objects in the file system | ➊**GaeFileSystemProvide[?]**  ➊**FileSystem**  ➊**FileRef**  ➊**FileSystemProvider[3]**  ➊**DefautFileSystemHolder[…]**  ➊**ClassLoader** |

|  |  |
| --- | --- |
| **LinkOption** | Liên quan |
| Kết quả của FileVisitor:Continue, Terminate, sKip\_Subtree, sKip\_Siblings | ➊**FileVisitResult**  🄌**CopyOption**  🄌**OpenOption** |

|  |  |
| --- | --- |
| **StandardCopyOption** | Liên quan |
| Defines the standard copy options:Replace,copyAttribute, AtomicMove | 🄌**CopyOption** |

|  |  |
| --- | --- |
| **Paths** | Liên quan |
| This class consists exclusively of static methods(get) that return a [Path](eclipse-javadoc:%E2%98%82=gaevfs/src%3Ccom.newatlanta.repackaged.java.nio.file%7BPaths.java%E2%98%83Paths%E2%98%82Path) by converting a path string or [URI](eclipse-javadoc:%E2%98%82=gaevfs/src%3Ccom.newatlanta.repackaged.java.nio.file%7BPaths.java%E2%98%83Paths%E2%98%82URI) | ➊**FileSystem** |

|  |  |
| --- | --- |
| **StandardOpenOption** | Liên quan |
| Defines the standard open options:Read, Write, Truncante, Create, Append,… | 🄌**OpenOption** |

|  |  |
| --- | --- |
| **PathMatcher** | Liên quan |
| An interface that is implemented by objects that perform match operations on paths (kiểm tra path match với một pattern nào đó) | ➊**Path** |

|  |  |
| --- | --- |
| **LinkPermission** | Liên quan |
| Các permission liên quan tới việc tạo link: hardlink và symbolic link | ➋**BasicPermission** |

|  |  |
| --- | --- |
| **NotLinkException** | Liên quan |
| Checked exception thrown when a file system operation fails because a file is not a symbolic link. | ➋**FileSystemException** |

|  |  |
| --- | --- |
| **NoSuchFileException** | Liên quan |
| Checked exception thrown when an attempt is made to access a file that does not exist. | ➋**FileSystemException** |

|  |  |
| --- | --- |
| **NotDirectoryException** | Liên quan |
| Checked exception thrown when a file system operation, intended for a directory, fails because the file is not a directory. | ➋**FileSystemException** |

|  |  |
| --- | --- |
| **ProviderMismatchException** | Liên quan |
| Unchecked exception thrown when an attempt is made to invoke a method on an object created by one file system provider with a parameter created by a different file system provider. | ➋**IlegalArgumentException** |

|  |  |
| --- | --- |
| **ProviderNotFoundException** | Liên quan |
| Runtime exception thrown when a provider of the required type cannot be found | ➋**RuntimeException** |

|  |  |
| --- | --- |
| **ReadOnlyFileSystemException** | Liên quan |
| Unchecked exception thrown when an attempt is made to update an object associated with a [read-only](eclipse-javadoc:%E2%98%82=gaevfs/src%3Ccom.newatlanta.repackaged.java.nio.file%7BReadOnlyFileSystemException.java%E2%98%83ReadOnlyFileSystemException%E2%98%82FileSystem%E2%98%82isReadOnly%E2%98%82) FileSystem. | ➋**UnsupportedOperationException** |

|  |  |
| --- | --- |
| **SecureDirectoryStream** | Liên quan |
| A DirectoryStream that defines operations on files that are located relative to an open directory. A SecureDirectoryStream is intended for use by sophisticated or security sensitive applications requiring to traverse file trees or otherwise operate on directories in a race-free manner | 🄌**DirectoryStream** |

|  |  |
| --- | --- |
| **SimpleFileVisitor** | Liên quan |
| A simple visitor of files with default behavior to visit all files and to re-throw I/O errors.  Methods in this class may be overridden subject to their general contract. | 🄌**FileVisitor**  ➊**FileVisitResult** |