

```
<<interface>>
GridCoverageReader
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```
CannotCreateGridCoverageException
<<create>> CannotCreateGridCoverageException() (sequential)
<<create>> CannotCreateGridCoverageException(s: String) (sequential)
<<create>> CannotCreateGridCoverageException(s: String, cause: Throwable) (sequential)
```

```
ConcatenatedMathTransform
trans1: MathTransform
trans2: MathTransform
<<create>> ConcatenatedMathTransform(trans1: MathTransform, trans2: MathTransform) (sequential)
getSourceDimensions(): int (sequential)
getTargetDimensions(): int (sequential)
inverse(): MathTransform (sequential)
isIdentical(): boolean (sequential)
transform(pts: DirectPosition[] | DirectPosition): DirectPosition (sequential)
transform(srcPts: double[]|srcOf: int, dstPts: double[]|dstOf: int, numPts: int): void (sequential)
transform(srcPts: float[]|srcOf: int, dstPts: float[]|dstOf: int, numPts: int): void (sequential)
derivative(jarg): DirectPosition[] | Matrix (sequential)
toWKTT(): String (sequential)
```

```
GridCoverageCatalogDataSource
colorModel: ColorModel
minValue: double[]
maxValue: double[]
maxSampleDim: int
coordFrom: CoordinateReferenceSystem
crsTo: CoordinateReferenceSystem
transform: MathTransform
<<create>> GridCoverageCatalogDataSource(fileName: String) (sequential)
getDataSource(index: int): DataSource (sequential)
getEnvelope(): Envelope (sequential)
getTransformFrom: MathTransform.coordFrom: CoordinateReferenceSystem, crsTo: CoordinateReferenceSystem) - void (sequential)
setColorModel(colorModel: ColorModel): void (sequential)
getColorModel(): ColorModel (sequential)
getMinValueSampleDimension(): int: double (sequential)
getMaxValueSampleDimension(): int: double (sequential)
computeMaxValue(): void (sequential)
computeMaxSampleDimension(): void (sequential)
createXMLRepresentation(): StringBuffer (sequential)
```

```
GridCoverageCatalogDataSourceHandler
tagContent: StringBuffer
hasException: boolean
exception: Exception
ds: GridCoverageCatalogDataSource
useRelative: boolean
source: String
crsSource: CoordinateReferenceSystem
crsTarget: CoordinateReferenceSystem
<<create>> GridCoverageCatalogDataSourceHandler() (sequential)
character(sch: char[]|start: int, len: int): void (sequential)
startElement(namespace: String, localname: String, qname: String, attrs: Attributes): void (sequential)
endElement(namespace: String, localname: String, qname: String): void (sequential)
createDataSource(): void (sequential)
getException(): Exception (sequential)
getDataSource(): DataSource (sequential)
getDataSource(ds: GridCoverageCatalogDataSource): void (sequential)
```

```
GridCoverageDataSource
scale: double
scaleY: double
coverage: GridCoverage
image: RenderedImage
colorModel: ColorModel
initialized: boolean
<<create>> GridCoverageDataSource(coverage: GridCoverage, colorModel: ColorModel) (sequential)
getLegend(): int (sequential)
getWidth(): int (sequential)
close(): void (sequential)
closed(): boolean (sequential)
getEnvelope(): Envelope (sequential)
getSource(): String (sequential)
isIDataSource(): boolean (sequential)
isInitialized(): boolean (sequential)
getGridCoverage(): GridCoverage (sequential)
getColorModel(): ColorModel (sequential)
getColorImageInterpolator(): double, crs: Rectangle2D): RenderedImage (sequential)
createXMLRepresentation(): StringBuffer (sequential)
getImageInWorld: Envelope, width: int, height: int): RenderedImage (sequential)
```

```
GridCoverageDataSourceHandler
tagContent: StringBuffer
hasException: boolean
exception: Exception
ds: GridCoverageDataSource
useRelative: boolean
source: String
coverage: GridCoverage
min: double
max: double
nodes: Set
table: LookupTableAJ
handler: AbstractDataSourceHandler
<<create>> GridCoverageDataSourceHandler() (sequential)
character(sch: char[]|start: int, len: int): void (sequential)
startElement(namespace: String, localname: String, qname: String, attrs: Attributes): void (sequential)
endElement(namespace: String, localname: String, qname: String): void (sequential)
createDataSource(): void (sequential)
getException(): Exception (sequential)
getDataSource(): DataSource (sequential)
```

```
GridCoverageFileFactory
map: HashMap
url: GridCoverageFileFactory
<<create>> GridCoverageFileFactory() (sequential)
getInstances(): GridCoverageFileFactory (sequential)
registerReader(exception: String, handler: Class): void (sequential)
createReader(ext: String): GridCoverageReader (sequential)
```

```
InvalidRangeException
setSrc: Double
<<create>> InvalidRangeException(s: String) (sequential)
```

```
ProjectedGridCoverageHandler
exception: Exception
tagContent: StringBuffer
hasException: boolean
useRelative: boolean
source: String
gc: GridCoverage
ds: DataSource
crsSource: CoordinateReferenceSystem
crsTarget: CoordinateReferenceSystem
handler: AbstractDataSourceHandler
<<create>> ProjectedGridCoverageHandler() (sequential)
character(sch: char[]|start: int, len: int): void (sequential)
startElement(namespace: String, localname: String, qname: String, attrs: Attributes): void (sequential)
endElement(namespace: String, localname: String, qname: String): void (sequential)
createDataSource(): void (sequential)
getDataSource(): DataSource (sequential)
getException(): Exception (sequential)
```

GridRange2D => GridRange  
<<create>>

```
Simple2DGridMathTransform
at: AffineTransform
pSrc: Double
pDst: Double
<<create>> Simple2DGridMathTransform(at: AffineTransform) (sequential)
<<create>> Simple2DGridMathTransform(minX: double, intervalX: double, intervalY: double) (sequential)
getSourceDimensions(): int (sequential)
getTargetDimensions(): int (sequential)
inverse(): MathTransform (sequential)
transform(pts: DirectPosition[] | DirectPosition): DirectPosition (sequential)
isIdentical(): boolean (sequential)
transform(srcPts: double[]|srcOf: int, dstPts: double[]|dstOf: int, numPts: int): void (sequential)
transform(srcPts: float[]|srcOf: int, dstPts: float[]|dstOf: int, numPts: int): void (sequential)
derivative(jarg): DirectPosition[] | Matrix (sequential)
toWKTT(): String (sequential)
toImage: String(): void (sequential)
```

```
<<interface>>
GridCoverage
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<<interface>>
GridGeometry
```

```
<<interface>>
GridRange
```

```
ProjectedGridCoverage
coverage: GridCoverage
gridGeometry: GridGeometryImpl
transform: MathTransform
inverse: MathTransform
from: CoordinateReferenceSystem
to: CoordinateReferenceSystem
```

```
GridGeometryImpl
range: GridRange
gridToCoordinateSystem: MathTransform
<<create>> GridGeometryImpl(range: GridRange, gridToCoordinateSystem: MathTransform) (sequential)
getGridRange(): GridRange (sequential)
getGridToCoordinateSystem(): MathTransform (sequential)
```

```
GridRange2D
maxX: int
minX: int
maxY: int
minY: int
<<create>> GridRange2D(maxX: int, minx: int, maxY: int, miny: int) (sequential)
<<create>> GridRange2D(minX: int, minY: int, maxXExclusive: int, maxYExclusive: int) (sequential)
getDimension(): int (sequential)
getLowerDimension(): int: int (sequential)
getUpperDimension(): int: int (sequential)
```

