# CompareEngine

Class

# CompareStateList

Class

# CompareState

Class



Methods

Methods

Hash : int Line : string Path : string Size : string

Type : PathType

Fields

Methods

EndIndex { get; } : int Length { get; } : int StartIndex { get; } : int

Status { get; } : CompareStatus

Properties

\_length : int

\_startIndex : int BAD\_INDEX : int

Fields

Methods

Methods

Fields

Fields

# CompareTextLine

Class

compareStateList : CompareStateList destList : CompareText

matchList : ArrayList sourceList : CompareText

AddChanges(IList report, int curDest, int nextDest, i… CompareEngine()

DiffResult() : ArrayList GetLongestSourceMatch(CompareState curItem, in… GetSourceMatchLength(int destIndex, int sourceIn… RecursiveComparer(int destinationStart, int destina… StartDiff(CompareText source, CompareText dest) :…

compareStateArray : CompareState[]

CompareStateList(int destinationCount) GetByIndex(int index) : CompareState

CompareState()

HasValidLength(int newStart, int newEnd, int maxPossibleDestLength) : bool SetMatch(int start, int length) : void

SetNoMatch() : void SetToUnkown() : void

CompareTextLine(string line)

CompareTextLine(string line, PathType type, string path, string size) CompareTo(CompareTextLine compareTextLine) : int

**Object**

Class

# DirectoryItem

Class

Fields

lastWrite : DateTime name : string

path : string size : string type : PathType

Properties

LastWrite { get; set; } : DateTi… Name { get; set; } : string

Path { get; set; } : string Size { get; set; } : string Type { get; set; } : PathType

# FileValidator

Static Class

ValidDirectory(string dirName) : bool ValidFile(string fileName) : bool

# CompareResultSpan

Class

Fields

\_destIndex : int

\_length : int

\_sourceIndex : int

\_status : CompareResultSpanStatus BAD\_INDEX : int

Properties

DestinationIndex { get; } : int Length { get; } : int SourceIndex { get; } : int

Status { get; } : CompareResultSpanSt… Methods

AddLength(int length) : void CompareResultSpan(CompareResultS… CompareTo(object obj) : int CreateAddDestination(int destinationI… CreateDeleteSource(int sourceIndex, i… CreateNoChange(int destinationIndex… CreateReplace(int destinationIndex, in… ToString() : string



# CompareText

|  |  |
| --- | --- |
| **PathType**  Enum | |
|  | File Directory Line ListItems |

|  |  |
| --- | --- |
| **CompareStatus**  Enum | |
|  | Matched NoMatch Unknown |

Class

Fields

lines : ArrayList MaxLineLength : int

Methods

CompareText()

CompareText(IEnumerable<DirectoryItem> directoryItems) CompareText(IEnumerable<string> lineItems) CompareText(string fileName)



|  |  |
| --- | --- |
| **CompareResultS…**  Enum | |
|  | NoChange Replace DeleteSource AddDestination |

Count() : int

GetByIndex(int index) : CompareTextLine