User's Guide

DocMatch

Version 1.5

a product of



Software Analysis & Forensic Engineering Corporation

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Introduction

DocMatch

DocMatch® compares thousands of document files in multiple directories and subdirectories to determine which files are the most highly correlated. DocMatch compares any kinds of documents, comparing text content and text metadata. DocMatch can be used to significantly speed up the work of finding plagiarism, because it can direct the examiner to look closely at a small amount of text in a handful of files rather than thousands of combinations. DocMatch is also useful for determining common authorship of two different documents.

DocMatch compares every file in one directory with every file in another directory, including all subdirectories if requested. The full version of DocMatch produces a database that can then be exported to an HTML report that lists the most highly correlated pairs of files. The LT version of DocMatch directly creates the HTML report. You can click on any particular pair listed in the HTML basic report see an HTML detailed report that shows the specific text in the files that caused the high correlation.

The full version of DocMatch allows searching the Internet for all references to matching words found in a DocMatch database. This feature is used to determine whether words found in two sets of files are commonly used or not, depending on how many references can be found on the Internet.

Copyrights, Trademarks, Patents

Copyrights

The materials in this users guide are copyright 2009-2017 by Software Analysis and Forensic Engineering Corporation.

All written materials from SAFE Corporation regarding DocMatch and SourceDetective, including the material in this User's Guide and the source code for all versions of DocMatch and SourceDetective are the copyright of SAFE Corporation.

Trademarks

SAFE Corporation, the SAFE Corporation logo, the SAFE Corporation brand, DocMatch, the DocMatch logo, and all other SAFE Corporation product names referenced herein are registered trademarks or trademarks of SAFE Corporation. All other brand and product names mentioned herein are trademarks of their respective owners.

Using DocMatch

System Requirements

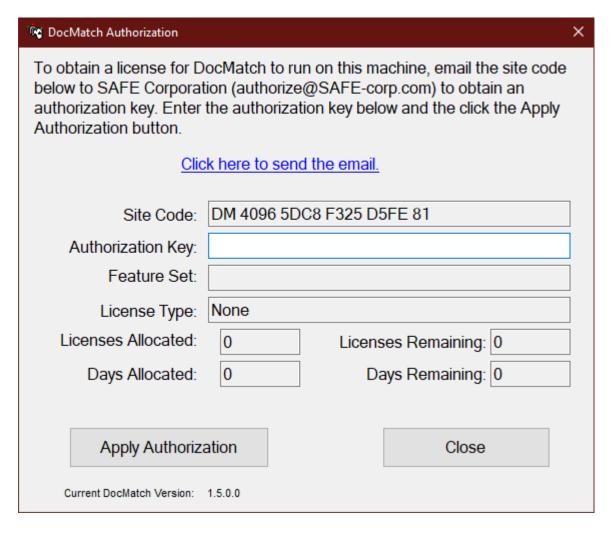
DocMatch will run on any computer using any of the following versions of the Microsoft Windows operating system

- Windows 2000
- Windows XP
- Windows Vista
- Windows 7
- Windows 8
- Windows 10

Licenses

Licenses must be purchased from SAFE Corporation. Some functions of DocMatch, such as generating HTML reports and statistics spreadsheets, do not require a license.

To request licenses, open the authorization form shown below from the Help menu. Send the site code to SAFE Corporation and the number or type of licenses requested, along with appropriate payment. SAFE Corporation will send back an Authorization Key that must be entered into the field in the form. Press the Apply Authorization button. Licenses are enabled for only one PC and cannot be transferred to another PC.



Feature Set

The feature set can be one of two types.

• **Full version.** All features are enabled. Comparing two file sets creates a database that can be filtered and from which HTML reports and spreadsheets can be generated.

• LT version. Comparing two file sets creates an HTML report. All other features are disabled.

License Type

The license can be one of three types.

- **File size based.** Used to examine a fixed amount of bytes of text. Licenses are used up as text is examined. Internet searches also use up licenses.
- **Time based.** Used to examine any amount of text for a fixed number of days. Note that there is still a limit to the number of Internet searches that can be performed. If that limit is reached, no more searching can be done for the remainder of the license term unless a new license is purchased.
- **Unlimited**. There is no limit on the number of megabytes of text that can be examined and there is no expiration date.

Licenses Allocated and Licenses Remaining

These fields indicate the number of licenses that were originally allocated and how many unused licenses remain. These fields are valid only for a megabyte based license. For other licenses, the fields are not applicable ("n/a").

Days Allocated and Days Remaining

These fields indicate the number of days that were originally allocated for the license and how many days remain on the license. These fields are valid only for a time based license. For other licenses, the fields are not applicable ("n/a").

The Menu

The DocMatch menu is described below.

File Menu

The following selections are found on the File menu.

File->Compare

This menu selection runs a comparison on the document files specified on the main screen using the parameters specified there. For the full version of DocMatch, the result is a database that can be filtered and from which HTML reports and spreadsheets can be generated. For the LT version of DocMatch, the result is an HTML report.

File->Exit

This menu selection causes the program to exit.

Tools Menu

The following selections are found on the Tools menu. The Tools menu is disabled for the LT version of DocMatch.

Tools->Report

This menu selection creates an HTML report from the DocMatch database that gives the comparison results in an easy-to-read format.

Tools->Search

This menu selection searches the Internet for words that match in both sets of documents, and puts the resulting number of hits into the DocMatch database.

This feature considers each word in the DocMatch database and searches the Internet for references to each one. The number of times a word is found in the search is then inserted into a new copy of the database, leaving the original database intact. Spreadsheets can then be generated to show the number of "hits" for each word. For more information, see the section entitled Search Spreadsheets.

Tools->Spreadsheets->Distribution

This menu selection creates a distribution spreadsheet from the DocMatch database that shows the distribution of correlations between document files.

Tools->Spreadsheets->Search

This menu selection creates a search spreadsheet from the DocMatch database that shows the number of Internet hits for each word in the database.

Tools->Spreadsheets->Summary

This menu selection creates a summary spreadsheet from the DocMatch database that shows a summary of all correlations between document files.

Help Menu

The following selections are found on the Help menu.

Help->About

This menu selection gives the version number and other information about DocMatch.

Help->Instructions

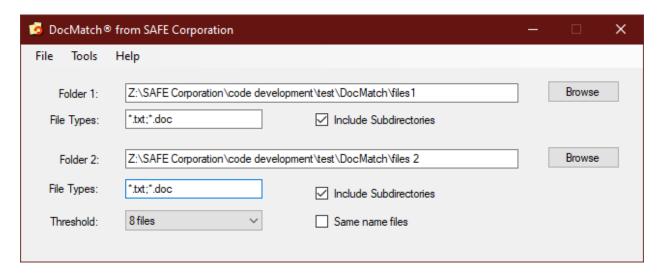
This menu selection brings up this users guide.

Help->License

This menu selection brings up the authorization form for entering licenses to enable the various tools. See the section entitled Licenses for more information.

Running DocMatch

DocMatch compares files using a set of algorithms to determine their correlation. Below is a screen shot of the DocMatch form. Following that are step-by-step instructions for running DocMatch.



Step 1

Select the first folder for comparison by clicking on the browse button or entering the path in the text field. Check the box to include files in all subdirectories.

Step 2

Enter the files types in the first folder to compare. Separate multiple file types with a semicolon. Use the * and ? wildcard characters if needed.

Step 3

Select the second folder for comparison by clicking on the browse button or entering the path in the text field. Check the box to include files in all subdirectories.

Step 4

Enter the files types in the second folder to compare. Separate multiple file types with a semicolon. Use the * and ? wildcard characters if needed.

Step 5

number of files to report to a large number you may get a very large database. By setting the number of files to report to a small number, the database will be smaller but it may not include all the similar files that you would like to see.

Step 6

Choose whether to only compare files if they have the same name. This will speed up the comparison significantly because far fewer combinations of files are compared.

Step 7

Select Compare from the File menu. The number of licenses, if any, that are required for this run of DocMatch will be shown. You will have the ability to cancel the DocMatch run at this point without using up licenses.

If you have licensed the full version, you will be then asked to name the database that will be generated. To generate readable HTML reports from the database see the section entitled Creating HTML Reports. If you have licensed the LT version, you will be asked to name the HTML report that will be generated.

DocMatch Basic Report





DocMatch Basic Report

Version: 1.0.0 | Date: 01/28/10 | Time: 11:33:11

SETTINGS | RESULTS | UNCOMPARED FILES | TOTALS

SETTINGS

Compare files in folder	Z:\DocMatch\files1 Including subdirectories
File types	*.*
To files in folder	Z:\DocMatch\files2 Including subdirectories
File types	*.doc;*.txt
Reporting file threshold	8 files

RESULTS

Z:\DocMatch\files1\generic lease1.doc Score	Compared to file
100	Z:\DocMatch\files2\generic lease.doc
76	Z:\DocMatch\files2\SAFE Patent Policy.doc
57	Z:\DocMatch\files2\SAFE PTO and Holiday Policy.doc
26	Z:\DocMatch\files2\SAFE Network.doc
16	Z:\DocMatch\files2\files\SAFE Network.doc

Z:\DocMatch\files1\SAFE Network1.doc	Compared to file
---	------------------

Score	
100	Z:\DocMatch\files2\SAFE Network.doc
79	Z:\DocMatch\files2\SAFE Patent Policy.doc
49	Z:\DocMatch\files2\SAFE PTO and Holiday Policy.doc
26	Z:\DocMatch\files2\generic lease.doc

Z:\DocMatch\files1\SAFE Patent Policy1.doc Score	Compared to file		
100	Z:\DocMatch\files2\SAFE PTO and Holiday Policy.doc		
74	Z:\DocMatch\files2\SAFE Patent Policy.doc		
57	Z:\DocMatch\files2\generic lease.doc		
49	Z:\DocMatch\files2\SAFE Network.doc		

TOTALS

Total number of bytes in files in folder 1 = 216576 Total number of bytes in files in folder 2 = 216576 Total run time = 25 Seconds



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DocMatch Detailed Report





DocMatch Detailed Report

Version: 0.1.0 | Date: 02/26/11 | Time: 16:11:48

SCORE 73

SETTINGS

Compare file 1:	Z:\ DocMatch\files1\SAFE Network1.doc
To file 2:	Z:\ DocMatch\files1\SAFE Network1.doc
Links to results:	Matching Word Sequences Matching Words Partially Matching Words Score

RESULTS

	Matching Word Sequences				
File1 Line#	File2 Line#	Number of matching words			
70	48	102			
			Content Types xml 3aZ rels rels !ky theme		
			theme themeManager xml theme theme1 xml YOo		
			toc UDb lAp pT0 jcs 3Vq TZaG y8I		
			IqbJ caS dDA AGm OMf XF64 8fi BiD		
			N!V MN9 eBo 4vfa theme theme rels themeManager		
			xml rels QAs Content Types xmlPK rels relsPK		
			!ky theme themeManager xmlPK theme theme1		
			xmlPK theme theme rels themeManager xml relsPK xml		
			version encoding UTF standalone yes clrMap xmlns http		

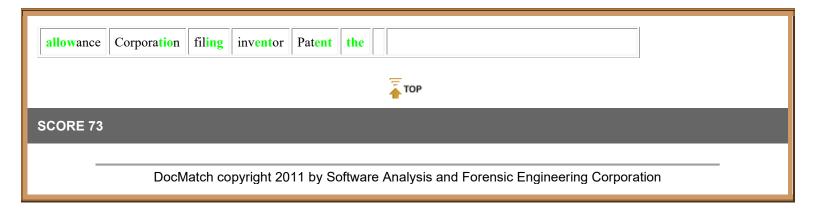
			schemas openxmlformats org drawingml 2006 main bg1 lt1
			tx1 dk1 bg2 lt2 tx2 dk2 accent1 accent1
			accent2 accent3 accent3 accent4 accent4 accent5 accent5
			accent6 accent6 hlink hlink folHlink
674	176	16	
			Root Entry Data 1Table WordDocument SummaryInformation DocumentSummaryInformation CompObj
			Microsoft Office Word 2003 Document MSWordDoc Word Document



Matching Words							
1ky	1Table	2003	2006	3aZ	3Vq	4vfa	8fi
accent1	accent2	accent3	accent4	accent5	accent6	AGm	Arial
bg1	bg2	BiD	bjbj	Bob	Calibri	Cambria	caS
Char	clrMap	CompObj	Consulting	Content	Data	dDA	Default
dk1	dk2	Document	DocumentSummaryInformation	dotm	drawingml	еВо	encoding
Entry	folHlink	Font	Heading	hlink	http	IqbJ	jes
lAp	List	lt1	lt2	main	Math	Microsoft	MN9
MSWordDoc	N!V	New	Normal	Office	OMf	openxmlformats	org
Paragraph	ph6	рТ0	QAs	rels	relsPK	Roman	Root
SAFE	schemas	standalone	SummaryInformation	Symbol	Table	theme	theme1
themeManager	Times	Title	toc	tx1	tx2	Types	TZaG
UDb	Unknown	UTF	version	Word	WordDocument	XF64	xml
xmlns	xmlPK	y8I	yes	YOo	Zeidman		

— TOP						
Partially Matching Words						
File1 Words						
allowed	CONFIDENTIAL	Consulting7	Ethernet	OHtQODtiO9t		
File2 Wor	·ds					

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SourceDetective

Running SourceDetective

SourceDetective considers each word in the DocMatch database and searches the Internet for references to each one. The number of times a word is found in the search is then inserted into a new copy of the database, leaving the original database intact. Spreadsheets can then be generated to show the number of "hits" for each word. For more information, see the section entitled Search Spreadsheets.

Choose Tools->Search from the Menu. You will be asked for the existing DocMatch database to examine and the new DocMatch database to create. The number of "hits" will be inserted into the new database.

Exporting databases

HTML reports

In the full version of DocMatch, a database can be automatically turned into HTML reports for easy reading and presentation of results. A basic report is generated that shows file pairs and their correlation scores. By clicking on the score, a detailed HTML report will come up. These detailed reports are kept in subfolders. The detailed reports give more information about how the score was determined, showing specific similarities or differences between the files. The file names are given at the top of the report and include a hyperlink that, when clicked, allows the file to be brought up in a viewer or editor. The back and next buttons on the detailed reports allow you to navigate the detailed reports without going back to the basic report.

For information see the sections entitled DocMatch Basic Report and DocMatch Detailed Report.

Distribution Spreadsheets

In the full version of DocMatch, a distribution spreadsheet can be generated that shows the distribution of correlation scores among the two sets of files compared. It is important to note that for each file in the first set of compared files, a distribution spreadsheet only considers the correlation scores for the most correlated file in the second set of files compared. So for each file in the first set of files, the spreadsheet will only consider the most correlated file in the second set, even other less correlated files are noted in the database. Also note that while each file in the first set of files is considered exactly once, some files in the second set of files may be considered multiple times or not at all.

Consider set A consisting of files A1 and A2. Consider set B consisting of files B1 and B2. Now consider the table below of similarity scores. The file with the most similarity to file A1 is file B1 and the file with the most similarity to file A2 is also file B1. So file B1 will be counted twice in the distribution spreadsheet.

Set A	Set B	Similarity Score
File A1	File B1	90
File A1	File B2	20
File A2	File B1	67
File A2	File B2	12

Choose Tools->Spreadsheets->Distribution from the Menu. You will be asked for the existing DocMatch database to examine and the new spreadsheet to create.

Example Distribution Spreadsheet

Below is an example of a spreadsheet created from a DocMatch database.

	А	В	С	D	Е	F
1	DocMatch Results Distribution					
2	Database Analysis					
3	Database	C:\SAFE Corp development\t		results\DocMato	h1.cdb	
4	Run date	12/1/2010				
5	Analysis date	12/2/2010				
6						
7	Folder 1	C:\SAFE Corporation\code development\test\DocMatch\files1				
8		including subdirectories				
9	Folder 2	C:\SAFE Corporation\code development\test\DocMatch\files2				
10						

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11						
12	File threshold	8				
13	Score threshold	1				
14						
15	Total files in folder 1	16				
16						
17	File pair comparisons					
18			Folder 1		Folder 2	
19	Correlation score	Number of files	Number of lines	Number of bytes	Number of lines	Number of bytes
20	20	1	5	252	5	230
21	28	1	291	7725	227	5010
22	75	2	8	224	8	228
23	99	1	56	1997	52	1890
24	100	11	960	27288	960	27282
25						
26	Totals	16	1320	37486	1252	34640
27	Total not fully correlated	5				
28	Percent not fully correlated	31.25				

The top line shows that the spreadsheet was created from a DocMatch database. The run date shows the date that DocMatch was run while the analysis date shows the date that the spreadsheet was created. The folders are the ones that were compared to create the database.

The score threshold shows that files needed at least a correlation score of 1 to be reported.

The total number of files in the first folder (including all subfolders if that was selected for the analysis) is shown as 16.

Rows 18 and 19 are the table header. Column A shows a correlation score while column B shows the total number of files. Columns C and D show the total number of lines and bytes in files in folder 1 that had this particular score. Columns E and F show the total number of lines and bytes in files in folder 2 that had this particular score. Note that only the highest correlation score is considered for this analysis. In other words, if file A in folder 1 is matched with a correlation score of 97 by file X in folder 2, a correlation score of 93 by file Y in folder 2, and a correlation score of 37 by file Z in folder 2, only file X in folder 2 is considered in the analysis.

Search Spreadsheets

In the full version of DocMatch, a search spreadsheet can be generated that shows the number of times a word can be found when searching the Internet using SourceDetective.

Choose Tools->Spreadsheets->Search from the Menu. You will be asked for the existing DocMatch database to examine and the new spreadsheet to create.

Example Search Spreadsheet

Below is an example of a spreadsheet created from a DocMatch database.

	А	В
1	DocMatch Intern	et Search Results
2	Database Analysis	
3	Database	C:\SAFE\code development\test\DocMatch\results\DocMatch1.cdb
4	Run date	12/1/2010
5	Analysis date	12/2/2010
6		
7	Folder 1	C:\SAFE Corporation\code development\test\DocMatch\files1
8		including subdirectories
9	Folder 2	C:\SAFE Corporation\code development\test\DocMatch\files2
10		
11		
12	Words	Search Score
13	apple	2147483647
14	banana	2147483647
15	boisterous	5
16	boys	29
17	caramel	37
18	envelope	100
19	few	155
20	jockey	398
21	mellow	1
22	melon	0
23	SAFE	0
24	Thomas,	226000000
25	restitution	57

26	Zeidman	110000
----	---------	--------

The top line shows that the spreadsheet was created from a DocMatch database. The run date shows the date that DocMatch was run while the analysis date shows the date that the spreadsheet was created. The folders are the ones that were compared to create the database.

The next line shows that this is a listing of words. The left column lists words in alphabetical order. The right column gives the number of hits on the search engine for this word.

Summary Spreadsheet

In the full version of DocMatch, a summary spreadsheet can be generated that shows the summary of correlation scores among the two sets of files compared. Choose Tools->Spreadsheets->Summary from the Menu. You will be asked for the existing DocMatch database to examine and the new spreadsheet to create.

Example DocMatch Spreadsheet

Below is an example of a spreadsheet created from a DocMatch database.

	А	В	С	D	Е	F	G	Н
1	DocMatch Results Su	mmary						
2	Database Analysis							
3	Run date	7/4/2010						
4	Analysis date	8/1/2010						
5								
6	File threshold	4						
7								
8	Total files in folder 1	22						
9	Total file pairs	83						
10								
11	Scores		(0-9)	(10-19)	(20-29)	(30-39)	(40-49)	(50-59)
12	Numbers		17	15	26	21	0	4
13	Percentage		20	18	31	25	0	5

The top line shows that the spreadsheet was created from a DocMatch database. The run date shows the date that DocMatch was run while the analysis date shows the date that the spreadsheet was created.

The threshold shows that the top four files that were correlated to the files in folder 1 were reported.

The total number of files in the first folder (including all subfolders if that was selected for the DocMatch run) is shown as 22. The total number of files pairs that are reported in the database is 83.

Row 11 is the table header. Columns C through H show intervals of correlation scores. For example column C represents correlation scores between 0 and 9 inclusively.

Row 12 shows the number of file pairs in each match score interval while row 13 shows the percentage of file pairs in each match score interval.

Advanced topics

DocMatch database format

SAFE Corporation wants third party developers to create software to analyze DocMatch database files and generate reports and statistics from them. In light of that desire, below is an example of a DocMatch database file with all sections explained by a comment. Comments are lines beginning with a # symbol.

Tag Definitions

The DocMatch database tags and their meanings are given in the table below.

Tag	Definition
#	First character in a comment
<program></program>	Program name
<version></version>	Program version
<date></date>	Date file was created
<time></time>	Time file was created
<lcomment></lcomment>	Left-justified comment to be placed in the output file
<describe></describe>	Insert program description
<ccomment></ccomment>	Right-justified comment to be placed in the output file
<filters></filters>	Beginning of filters used to create this database
	End of filters used to create this database
<folder1></folder1>	Input folder 1
<subs1></subs1>	Compare subdirectories for folder 1? T or F
<folder2></folder2>	Input folder 2
<subs2></subs2>	Compare subdirectories for folder 2? T or F
<language></language>	Programming language
<filetype></filetype>	Filetype
<samename></samename>	Compare files of same name only? T or F
<dirs></dirs>	Compare directories? T or F
<algorithm></algorithm>	Algorithm name
<filethresh></filethresh>	File number threshold to report
<scorethresh></scorethresh>	Score threshold to report
<filter></filter>	Filter name
<dir1></dir1>	Input file 1 path relative to InFolder1
<dir2></dir2>	Input file 2 path relative to InFolder2
<file1></file1>	Input file 1 name
<numwords1></numwords1>	Number of words in file 1
<size1></size1>	Number of bytes in file 1
<file2></file2>	Input file 2 name
<numwords2></numwords2>	Number of words in file 2
<size2></size2>	Number of bytes in file 2
<statementscore></statementscore>	Statement match score
<commentscore></commentscore>	Comment match score

<sequencescore></sequencescore>	Sequence match score
<identifierscore></identifierscore>	Identifier match score
<subidentifierscore></subidentifierscore>	Partial identifier match score
<score></score>	Match score
<noscore></noscore>	File was not compared no score
<differences></differences>	Beginning of line differences
	End of line differences
<statements></statements>	Beginning of statement comparison
	End of statements comparison
<comments></comments>	Beginning of comment comparison
	End of comment comparison
<lines1></lines1>	Lines in file 1
<lines2></lines2>	Lines in file 2
<line></line>	Instruction/comment line
<sequences></sequences>	Beginning of instruction sequences
<inseq></inseq>	Instruction sequence
<instr></instr>	Instruction in sequence
	End of instruction sequences
<ids></ids>	Beginning of identifiers
<id></id>	Identifiers
	End of identifiers
<pids></pids>	Beginning of partial identifiers
<pid1></pid1>	Partial identifiers in file 1
<pid2></pid2>	Partial identifiers in file 2
	End of partial identifiers
<binghits></binghits>	Number of hits on Bing search engine for preceding elements
<yahoohits></yahoohits>	Number of hits on Yahoo search engine for preceding elements
<folder1bytes></folder1bytes>	Total bytes in all files examined in folder 1
<folder1files></folder1files>	Total number of files examined in folder 1
<folder2bytes></folder2bytes>	Total bytes in all files examined in folder 2
<folder2files></folder2files>	Total number of files examined in folder 2
<extime></extime>	Time to execute program

Example DocMatch database file

```
#Each line begins with a tag, ends with a newline
#Comments begin with #, end with a newline

<Program>DocMatch
<Version>version
<Date>date
<Time>time

<CComment>Centered comment
<LComment>Left justified comment

<Folder1>input_folder
<Subs1>T
<Folder2>compare_folder
<Subs2>F
<FileType>filetypes
```

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```
<SameName>T
<FileThresh>number
#For each file in the first set of files being compared:
<Dir1>input file 1 path relative to Folder1
<Dir2>input file 2 path relative to Folder2
<File1>filename
<NumWords1>number of words
<Size1>size in bytes
<File2>filename
<NumWords2>number of words
<Size2>size in bytes
#Note: <Dir1> and <Dir2> tags may or may not be repeated if they are
unchanged from subsequent files
#Matching word sequences
<Sequences>
<InSeq>line number line number sequence length number
<Instr>Instruction 1
<Instr>Instruction 2
<Instr>Instruction 3
<Instr>Instruction n<InSeq>line number line number sequence length number
<InSeq>line number line number sequence length number
<InSeq>line number line number sequence length number
</Sequences>
<SequenceScore>sequence correlation score
# Note: If there is no sequence score there were no sequences to compare
# or sequences were not compared in this run.
#Matching words
<IDs>
<ID>identifier string identifier string identifier string identifier string
<BingHits>12 888 3 90023
<ID>identifier string
<BingHits>129
</IDs>
#Partially matching words
<PID1>partial identifier string partial identifier string
<PID1>partial identifier string partial identifier string
<PID1>partial identifier string
<PID2>partial_identifier string partial identifier string
<PID2>partial identifier string partial identifier string
<PID2>partial identifier string
</PIDs>
<IdentifierScore>identifier correlation score
# Note: If there is no identifier score there were no identifiers to compare
# or identifier matching was not selected for this run.
<Score>file pair correlation score
#For each uncompared file (a file that was never compared to anything):
<Dir1>input file 1 path relative to Folder1
<File1>filename
<NumLines1>number of lines
<Size1>size in bytes
<NoScore>
```

Advanced Topics

#Summary

<Folder1Bytes>number
<Folder1Words>number

<Folder1Files>number

<Folder2Bytes>number

<Folder2Words>number

<Folder2Files>number

<ExTime>execution time

Contacting SAFE Corporation



Software Analysis and Forensic Engineering Corporation

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