

ANALYSIS OF 2006 DFRWS FORENSIC CARVING CHALLENGE

A smart carving approach

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Table of Contents

Overview.....	3
Evidence examined.....	3
Approach.....	3
Tools used.....	4
Tools developed.....	4
Preliminary findings.....	4
1. Verify the evidence.....	4
2. Virus scan the evidence.....	4
3. Carving.....	5
Scalpel.....	5
Foremost.....	8
FTK AccessData.....	11
Revit.....	11
Revit smart/deep carving methodology.....	11
File type definitions.....	13
Block based carving.....	13
Carving features.....	14
Future of (smart) carving.....	14
Tooling.....	14
Findings Revit.....	15
Verification of carved files.....	21
Post carving analysis.....	24
ZIP file analysis.....	24
Partial file analysis.....	27
Steganography.....	32
Virus scan.....	32
Carving results.....	34
Conclusion.....	39
Appendix – Scalpel audit log.....	40
Appendix – Foremost audit log.....	98
Appendix – FTK results.....	99
Appendix – Revit file_type.conf.....	103
Appendix – Revit audit.log.....	108

Overview

The 2006 DFRWS challenge was about file carving. Most carving tools use a method to search a piece of raw (unallocated) data for specific characteristic header and footer combinations to recover files. The major side effect of this method of carving is that it generates a vast amount of false positives. These false positives need to be verified by an investigator by hand, which is very time consuming. This method of carving was useful on small sized storage mediums and simple file types, but today new methods are needed, mainly because the storage media and data that has to be examined grows rapidly. Hence, when using a lot of current carvers or file recovery scripts (EnScript), file sizes from the recovered files will be multiplied.

We were actually working on a method of automating a lot of default steps within the forensic process (libewf integration with the Sleuth Kit) and already had argued that more precise carving tooling was required. We required a carver which would significantly reduce the number of false positives and therefore less storage and time would be wasted while examining a lot of false positives. The basic idea was to create a block level analyzer that carves file format characteristics specified within a configuration file. Ergo there was no better time for the carving challenge. We developed a new carver, called 'REVIT'. Revit is derived from Revive It. It uses a technique we named 'smart carving' and 'deep carving'. Where 'deep carving' could be seen as looking deeper into a file type characteristics, and 'smart carving' using smarter techniques for carving. The first is seen as a part of the latter.

Evidence examined

The evidence used in this document is:

1. The file 'dfrws-2006-challenge.raw.gz' was downloaded from the DFRWS website and the file 'img2.raw' was extracted from the archive. The data set or raw image file, called 'img2.raw' with recoverable data structures of office, JPEG files etcetera with MD5 = bd09d612fc8b3f92662b98f9456f2ada. The 'img2.raw' was 47.7. MB (49.999.872 bytes) in size.

Approach

The forensic approach for examining the evidence consists of the following steps:

1. Verification of the obtained evidence
2. Virus scanning the evidence
3. Carve data
4. Verification of carved files
5. Post carving analysis

Tools used

1. Linux Ubuntu 6.06
2. Linux Fedora Core 5
3. Microsoft Windows XP with Cygwin
4. Clam AntiVirus (Clamav) Scanner version 0.88.2 version: 39, sigs: 58116, f-level: 8,
5. Scalpel version 1.54
6. Foremost 1.2
7. Ftk Accessdata 1.61a

Tools developed

1. Revive It (revit), smart/deep carving tool version
2. Block Analyzer (banalyze), analyzes block on mime and magic type, and MD5 hash

Preliminary findings

In this chapter a false positive is defined as:

A false positive is a file that contains some of the characteristics as the specific file type but does not relate to the file format.

1. Verify the evidence

The first step in the investigation was to verify the MD5 sum of 'img2.raw'.

Supplied MD5 sum of 'img2.raw'

```
bd09d612fc8b3f92662b98f9456f2ada
```

MD5 sum of 'img2.raw' on examination system

```
# md5sum img2.raw
```

```
bd09d612fc8b3f92662b98f9456f2ada  img2.raw
```

2. Virus scan the evidence

The second step, an important one that is often forgotten in digital forensic investigations, is scanning the evidence for the presence of viruses. The Clamav virus scanner is one of the few virus scanners which scans entire binary files for known viruses. This virus scanner was used to determine if fragments of known viruses were present in the raw file. No known viruses were found.

```
# clamscan -v img2.raw

Scanning img2.raw
img2.raw: OK
----- SCAN SUMMARY -----
Known viruses: 60856
Engine version: 0.88.2
Scanned directories: 0
Scanned files: 1
Infected files: 0
Data scanned: 76.53 MB
Time: 39.706 sec (0 m 39 s)
```

3. Carving

To get a quick overview of what the currently available carving tools would extract from the evidence file, the following carving tooling was used:

- Scalpel
- Foremost
- FTK (The Forensic Toolkit)
- Revit

An overview of the inner workings and findings of each these carver will be addressed below.

Scalpel

Scalpel is a rewrite from another popular open source carving tool called Foremost. It claims to have a better memory performance algorithm than Foremost and works primarily on Linux. Scalpel uses the basic carving method by looking for header and footer combinations. The headers and footers can be specified in a configuration file. Within the configuration file also a maximum file size can be set. Scalpel will look for a footer until the maximum file size it reached.

Scalpel's carving method, makes two sequential passes over each disk image. The first pass reads an entire disk image chunks of 10 MB in size. Every chunk is searched for file headers and a database of the locations of these headers is maintained. Once the current chunk's header indexing is complete, a search is performed for footers. Scalpel can be download from <http://www.digitalforensicsolutions.com/Scalpel/> and more background information on Scalpel can be found on http://www.dfrws.org/2005/proceedings/richard_scalpel.pdf.

To get a first impression every file type was activated within the default configuration file 'scalpel.conf'. The following file types were enabled in the 'scalpel.conf' file:

```
art, gif, jpg, tiff,png, bmp, avi, mov, mpg, fws, doc, pst, ost, dbx, idx, mbx, wpc, htm, pdf,
mail, pgpd, pgp, rpm, ra, dat, zip, java, max and pins
```

The following command was run:

```
# ./scalpel -o /forensics/dfrws-2006/scalpel_all /forensics/dfrws-2006/img2.raw
```

After a few seconds Scalpel was done and carved 4091 files from the 'img2.raw' which was 47.7 Mbyte in size. The files carved made up a total of 2.1 GByte. After reviewing the carved files, a lot of false positives were identified, these consisted primarily of RPM, PGP or MOV files. Also a few DOC, ZIP and FWS files were identified as false positives. The Scalpel (scalpel_all) audit log is supplied as an appendix.

After reviewing the files the following files were viewable without errors in viewers like GQview/Gwenview, or OpenOffice.

In the following tables the recovered files from Scalpel are listed.

No.	Filename	MD5	Start Offset Image	File Size	Remarks/Findings
1	00000001.jpg	c1d7c67b0e81f902a2c7ed56651fee2b	1980748	5.4 KB (5551 bytes)	Mars lander picture small (probable thumbnail)
2	00000002.jpg	c1d7c67b0e81f902a2c7ed56651fee2b	1995443	5.4 KB (5551 bytes)	Mars lander picture. Exact duplicate with 00000001.jpg
3	00000003.jpg	4efc6c572683878efd8f3404ddaded7b	4241920	594.4 KB (608703 bytes)	Picture (dfrws) 5 persons 1 laptop and drinks
4	00000005.jpg	b3f4ccfb61790ab745b39d3945c5fe3f	5949358	1.7 KB (1789 bytes)	Picture green molecules (cells) (probable thumbnail)
5	00000006.jpg	b070beae1606f67a342bc5f78c29c743	6257664	6.8 MB (7113968 bytes)	Picture Dfrws challenge 2006 blue
6	00000007.jpg	fe7e7ac67709f2d9c2483aa98c681b99	14134784	185.1 KB (189534 bytes)	Picture of The Porcupine (bar)
7	00000008.jpg	dff3ab375c6eb0afb716b043a78ce163	16115200	206.0 KB (210994 bytes)	Picture of Porcupine animal (half damaged)
8	00000009.jpg	68e1d7487c38a92cdb69d8da0db86dc3	16144896	177.0 KB (181298 bytes)	Picture of Mars landscape (damaged)
9	00000010.jpg	2fae8770cc013d22e9ea1c070f2f509b	18581504	174.5 KB (178659 bytes)	Picture of Red planet
10	00000011.jpg	97e5ca34212703d4b61174a802191a1f	20806656	292.5 KB (299479 bytes)	Picture of 4 men, 1 boy , 1 men with microphone (damaged)
11	00000012.jpg	ef1ed4078cfc3aa1ae68f82aad0b6c3d	21304832	1.2 MB (1237789 bytes)	Picture of the Milky way (damaged)
12	00000013.jpg	c0da37b3f1a07af790e6e9171cedc4d2	22238208	297.3 KB (304413 bytes)	Picture of 4 persons 3 laptops and Heineken
13	00000015.jpg	14f703660bdd2798cb08c79ee8597212	23330000	6.4 KB (6600 bytes)	Gray landscape moon Probable thumbnail.
14	00000016.jpg	db32b271506b2f4974791957627c61cc	24017920	23.4 MB (24538540 bytes)	Picture Dfrws challenge 2006 orange
15	00000018.jpg	11dd149a694df0f1ad47bffed35fb038	48561970	2.6 KB (2633 bytes)	Picture of Saturn. Probable thumbnail.

Table 1. Findings Scalpel - JPEG files

No.	Filename	MD5	Start Offset Image	File Size	Remarks/Findings
16	00000098.doc	41e2dc276dc868ea45763f17a0ac1cb0	16812544	725.5 KB (742912 bytes)	Fact Sheet - Permitted and

No.	Filename	MD5	Start Offset Image	File Size	Remarks/Findings
					Prohibited Items
17	00000101.doc	a189ea67ccab2c2da2f97422edbd1ce0	23533568	9.5 MB (10000000 bytes)	Statements of Financial Condition Author meta data Nancy Edwards and file dates Carved file size 9,5 mb, default in scalpel.conf. Same start file offset as 00000107.doc
18	00000104.doc	4b848e7c6c53f2b7bc9dfa067ccb66c6	16812544	9.5 MB (10000000 bytes)	Fact Sheet Permitted and Prohibited Items. Carved file size 9,5 MB, default in scalpel.conf
19	00000107.doc	a189ea67ccab2c2da2f97422edbd1ce0	23533568	9.5 MB (10000000 bytes)	Document Statements of Financial Condition. Author meta date Nancy Edwards and file dates. Carved file size 9,5 MB, default in scalpel.conf. Same start file offset as 00000101.doc.

Table 2. Findings Scalpel – Microsoft Office files

No.	Filename	MD5	Start Offset Image	File Size	Remarks/Findings
20	00000109.htm	459a13a017b1e78065f05fb62aa0166f	4691	17.6 KB (18064 bytes)	Alice in Wonderland
21	00000110.htm	18ee229edce25b1227991154c465f25a	2271312	32.9 KB (33704 bytes)	A study in Scarlet
22	00000111.htm	a3d9f869a96c4cdc473bb6f5ed4db844	2281535	22.9 KB (23481 bytes)	Stave 1 Marley's Ghost

Table 3. Findings Scalpel – HTML files

No.	Filename	MD5	Start Offset Image	File Size	Remarks/Findings
23	00004078.zip	b31658ac5900a4fd8862c8c22ef91bcb	14560768	196.5 KB (201176 bytes)	Archive containing two jpg pictures of the dfrws rodeo (4n6rodeo3-fix copy.jpg, 4n6rodeo4-fix copy.jpg)

Table 4. Findings Scalpel – ZIP files

Although Scalpel recovered a lot of files quickly. A lot of files were not viewable which made examining time consuming. By examining the files using the 'file -z' command, which means look inside archive files a lot of jpeg image data was discovered.

```
# file -z *.zip
00004080.zip: AppleDouble encoded Macintosh file (Zip archive data, at least v2.0 to extract)
00004081.zip: JPEG image data, JFIF standard 1.01 (Zip archive data, at least v2.0 to extract)
00004082.zip: AppleDouble encoded Macintosh file (Zip archive data, at least v2.0 to extract)
00004083.zip: JPEG image data, JFIF standard 1.02 (Zip archive data, at least v2.0 to extract)
00004084.zip: JPEG image data, JFIF standard 1.01 (Zip archive data, at least v2.0 to extract)
00004085.zip: JPEG image data, JFIF standard 1.01 (Zip archive data, at least v2.0 to extract)
00004086.zip: JPEG image data, JFIF standard 1.01 (Zip archive data, at least v2.0 to extract)
00004087.zip: JPEG image data, JFIF standard 1.01 (Zip archive data, at least v2.0 to extract)
00004088.zip: JPEG image data, JFIF standard 1.01 (Zip archive data, at least v2.0 to extract)
00004089.zip: JPEG image data, JFIF standard 1.01 (Zip archive data, at least v2.0 to extract)
00004090.zip: JPEG image data, JFIF standard 1.01 (Zip archive data, at least v2.0 to extract)
```

By examining these archive files within a hex viewer and by issuing the command below the following file names were recovered:

```
# xxd -l 260 <filename>.zip
```

<i>Archive File</i>	<i>Filenames</i>	<i>File Offset Image</i>	<i>Findings</i>
00004080.zip	4n6rodeo3-fix copy.jpg 4n6rodeo4-fix copy.jpg	14623442	None
00004081.zip	4n6rodeo4-fix copy.jpg	14623572	None
00004082.zip	4n6rodeo4-fix copy.jpg 4n6rodeo3-fix copy.jpg	14707357	Different order in filenames 4080.zip
00004083.zip	file1.jpg	14709248	None
00004084.zip	file2.jpg	15385752	None
00004085.zip	1993-01-a-large_web.jpg	23047680	None
00004086.zip	1995-45-a-large_web.jpg	23109869	None
00004087.zip	2000-06-a-large_web.jpg	23146999	None
00004088.zip	2000-07-a-large_web.jpg	23191845	None
00004089.zip	2002-29-a-large_web.jpg	23219088	None
00004090.zip	2005-02-e-large_web.jpg	23263287	None

Table 5. Findings embedded filename analysis ZIP files

Also a lot of other files were recovered by Scalpel, but these were not recovered correctly but gave us a good indication what to expect from this challenge. The contents of the ZIP files is discussed further in this document.

Foremost

Since Scalpel returned too much false positives another popular open source carver was used, namely Foremost. Until last year also Foremost was an old style carver like Scalpel. It worked primarily on the Linux platform and its algorithm also worked by reading 10 MB chunks of data into memory. Again every chunk is searched for file headers contained within the Foremost configuration file, called 'foremost.conf'. Whenever a matching header is found, Foremost attempts to locate the corresponding end of the file based on the footer or maximum file size specified in the foremost configuration file.

Since 2005 Nick Mikus wrote a thesis about carving techniques which can be found on the following website: http://cissr.nps.navy.mil/downloads/theses/05thesis_mikus.pdf.

In his thesis he dissects a lot of known file formats such as jpg and ole compound files. As mentioned in his thesis he added new carving functionality to Foremost based on the internal file formats of files. This can be best described as recovering files by adding the built in file formats as an extra condition before extracting/recovering files. If a file does not match its file format it is damaged or not recoverable. This reduces the recovered false positives significantly. The technique used by Mikus relates to the idea of deep carving. To note is that the idea of deep and smart carving was thought up before reading the thesis by Mikus.

To get a first impression every built in file format was activated by specifying the '-t all' parameter when executing foremost. In this mode Foremost will use the built in file support made by Mikus and will ignore the foremost configuration file. The following built in file formats are supported:

```
jpg, gif, png, bmp, avi, mpg, exe, rar, wav, riff, wmv, mov, pdf, ole, doc, zip, htm, cpp
```

The following command was issued:

```
# ./foremost -t all /forensics/dfrws-2006/img2.raw -o /forensics/dfrws-2006/foremost
```

After a few seconds Foremost was done and carved 21 files from the 'img2.raw' which was 47.7 MB in size. The files carved were in total 5.2 MB. After reviewing the carved files, no false positives were identified and every file could quickly be examined within the viewers. The Foremost audit log is supplied as an appendix. The following files were recovered.

In the following tables the recovered files from Foremost are listed.

No.	Filename	MD5	Start Offset Image	File Size	Remarks/Findings
1	3868.jpg	daf4205574abd6919b10ca8be92d17a3	1980416	280.5 KB (287186 bytes)	Mars lander picture
2	8285.jpg	4efc6c572683878efd8f3404ddaded7b	4241920	594.4 KB (608703 bytes)	Picture (dfrws) 5 persons 1 laptop and drinks
3	11619.jpg	90a4ab243ea44c0b9f704ed4303084bc	5948928	199.2 KB (204032 bytes)	Picture green molecules (cells)
4	27607.jpg	fe7e7ac67709f2d9c2483aa98c681b99	14134784	185.1 KB (189534 bytes)	Picture of The Porcupine (bar)
5	31475.jpg	dff3ab375c6eb0afb716b043a78ce163	16115200	206.0 KB (210994 bytes)	Picture of Porcupine animal (half damaged)
6	36292.jpg	2fae8770cc013d22e9ea1c070f2f509b	18581504	174.5 KB (178659 bytes)	Picture of Red planet
7	40638.jpg	97e5ca34212703d4b61174a802191a1f	20806656	292.5 KB (299479 bytes)	Picture of 4 men, 1 boy, 1 men with microphone (damaged)
8	41611.jpg	ef1ed4078cfc3aa1ae68f82aad0b6c3d	21304832	1.2 MB (1237789 bytes)	Picture of the Milky way, damaged
9	45566.jpg	586f9c563bf9428f1e231776d040d139	23329792	630.1 KB (645179 bytes)	Gray landscape moon, damaged
10	94846.jpg	ce45692e435725c44ac1f825f1f55306	48561152	391.5 KB (400898 bytes)	Picture of Saturn, damaged

Table 6. Findings Foremost – JPEG files

<i>No.</i>	<i>Filename</i>	<i>MD5</i>	<i>Start Offset Image</i>	<i>File Size</i>	<i>Remarks/Findings</i>
11	32837.doc	93870e9b6838fff989c3ccd3f58dad56	16812544	282.0 KB (288768 bytes)	Fact Sheet - Permitted and Prohibited Items
12	45964.doc	03d401e472a9d0b5bd2022c2fae03260	23533568	71.0 KB (72704 bytes)	Statements of Financial Condition Author meta data Nancy Edwards and file dates

Table 7. Findings Foremost – Microsoft Office files

<i>No.</i>	<i>Filename</i>	<i>MD5</i>	<i>Start Offset Image</i>	<i>File Size</i>	<i>Remarks/Findings</i>
13	9.htm	459a13a017b1e78065f05fb62aa0166f	4691	17.6 KB (18064 bytes)	Alice in Wonderland
14	4456.htm	a3d9f869a96c4cdc473bb6f5ed4db844	2281535	22.9 KB (23481 bytes)	Stave 1 Marley's Ghost
15	27496.htm	a010dd1efca454cd81e57c4e43443087	14078061	350.0 KB (358368 bytes)	Comedy of Errors, with a jpg in the file
16	28244.htm	9d63975e91da31f8a41856c8d50fe573	14460928	50.0 KB (51251 bytes)	Chapter cxxxiv
17	29529.htm	9736d2cf82fc7b6b4c164d7fdf7ca05e	15118957	183.3 KB (187684 bytes)	The Tempest

Table 8. Findings Foremost – HTML files

<i>No.</i>	<i>Filename</i>	<i>MD5</i>	<i>Start Offset Image</i>	<i>File Size</i>	<i>Remarks/Findings</i>
18	7982.png	13bf31f3f270e9755ba27c96a07fe615	4086865	6.3 KB (6428 bytes)	National Park Service
19	33012.png	204d04b27e673b5bb7ed63885b819b9f	16902215	69.4 KB (71020 bytes)	Transportation Security Administration
20	35391.png	1b97489741b99a34b19ba2f8f23be0d4	18120696	19.4 KB (19893 bytes)	NIST
21	35431.png	6e33b2341a38a7936f2b5243ade0ef5e	18140936	72.7 KB (74488 bytes)	NIST Centennial

Table 9. Findings Foremost – PNG files

Although no false positives were found, some carving issues were found within foremost:

- it supports ZIP files but it did not export any of them (this could be considered as a false negatives);
- it carved some fragmented files, but was not able to correlate the fragments and other file data correctly like 27496.htm;
- it also was not able to carve the OLE compound files on a 64 bit AMD Linux platform. This issue has been communicated to Mikus;
- some of the PNG files are actually embedded within the Microsoft Office files, like '33012.png';
- it did not detect the blue and orange 'DFRWS 2006 Forensic Challenge' images; this could be related that Foremost carves JPEG files more stringent.

However Foremost reduces the amount of false positives enormously and is very fast, it is not that precise. It will need to work out the issues mentioned.

FTK AccessData

Also the findings of a commercial tool called FTK were reviewed. FTK has some built in features to carve data with a similar method being used in the new Foremost. Also FTK did a better job in reducing the false positives compared to Scalpel. Only it has limited built in file types, for example the zip format is not supported. FTK is closed source and not configurable so we are not able to explain its algorithms.

It also does not provide any information about the offset the file was carved. This is why we did not include its findings within this document. The FTK results are supplied as an appendix.

Revit

Revit is a carving tool built to approach file carving using more sophisticated techniques than header and footer searching and maintain flexibility regarding file type specifications.

Revit allows to export complete, partial and embedded carved file. In Revit's terminology:

- complete carved files are files where both a start and end characteristics were found;
- partial carved files are files where a start, end or some embedded characteristics were found;
- embedded carved files are files within a file, which is possible with certain file types like JPEG and PDF.

Revit smart/deep carving methodology

Deep carving methodology is a technique to look for other characteristics in file types besides header and footer signatures. Smart carving methodology is a technique to look also at other characteristics like embedded files, probability factors, entropy, etc.

A lot of file types consist of files containing multiple sections for multiple purposes i.e. separating data and meta data.

The following is a list of techniques and issues regarding a smarter approach to file carving:

- files can contain multiple header and footer definitions, i.e. HTML;
- files can contain content characteristics that reoccur a lot like HTML;
- files can consist of sections, which can contain their section size or an offset to the next section, like JPEG, PNG, ZIP;
- files can consist of complex structures, like the OLE compound file;
- certain file types can contain embedded files, i.e. PDF, Microsoft Word;
- certain file types have the same basic structure, like Microsoft Office files, ZIP based file types;
- some file types have characteristics that statistically occur more often in the file type than in

random data, like HTML and XML contain a lot of < and > characters or randomness relating to encrypted or compressed data;

- some file types contain an embedded file size;
- some file types contain embedded CRC, or MD5 hashes;
- handling file system residual data, like ext2 indirect blocks.

The idea of smart carving is look for these file characteristics in relation to one and other. For example the JPEG file format. It has specific header signature (Start of Image 0xff 0xd8), which resides at the start of the file. A JPEG file consist of multiple sections. The header is directly followed by a section. A section always starts with a 0xff. Therefore the JPEG file type definition is defined as below.

```
file_type
{
    start_of_file          : "\xff\xd8\xff?"
```

The end of the file is marked by a specific footer signature (End of Image 0xff 0xd9).

```
end_of_file          : "\xff\xd9"
```

However the format itself can contain embedded files and also embedded JPEG images, i.e. thumbnails.

```
option                : embedded_file
option                 : embedded_instance
```

The JPEG format defines multiple sections starts.

```
section
{
    start_of_section    : "\xff\xe0" # JFIF application segment (APP0)
    start_of_section    : "\xff\xe1" # Other application segment (APPn)
    start_of_section    : "\xff\xe2" # Other application segment (APPn)
    start_of_section    : "\xff\xe3" # Other application segment (APPn)
    start_of_section    : "\xff\xe4" # Other application segment (APPn)
    start_of_section    : "\xff\xe5" # Other application segment (APPn)
    start_of_section    : "\xff\xe6" # Other application segment (APPn)
    start_of_section    : "\xff\xe7" # Other application segment (APPn)
    start_of_section    : "\xff\xe8" # Other application segment (APPn)
    start_of_section    : "\xff\xe9" # Other application segment (APPn)
    start_of_section    : "\xff\xea" # Other application segment (APPn)
    start_of_section    : "\xff\xeb" # Other application segment (APPn)
    start_of_section    : "\xff\xec" # Other application segment (APPn)
    start_of_section    : "\xff\xed" # Other application segment (APPn)
    start_of_section    : "\xff\xee" # Other application segment (APPn)
    start_of_section    : "\xff\xef" # Other application segment (APPn)
    start_of_section    : "\xff\xdb" # Quantization table marker (DQT)
    start_of_section    : "\xff\xc0" # Start of frame (SOF0)
    start_of_section    : "\xff\xc4" # Huffman table marker (DHT)
    start_of_section    : "\xff\xdd"
    start_of_section    : "\xff\xfe"
```

The section definition of the JPEG format contains a value that contains the size of the section.

```

    section_size      : 0x02 0x02 big_endian 0 0 0 excluded begin
}

```

The section Start of Scan (0xff 0xda) does not contain this size value, but is terminated by the End of Image (0xff 0xd9) signature.

```

section
{
    start_of_section      : "\xff\xda"
    end_of_section        : "\xff\xd9"
}
}

```

How Revit will carve the JPEG file. It will stop carving for the file if the criteria are not matched.

1. It will look for the header
2. It will look for the first start of section definition
3. It will look for the section size
4. If it cannot find this start it will look for the end of section definition
5. At the end of the section it will look for the definition of the next section
6. If it finds a JPEG header or header of another file type it will remain scanning the JPEG and start scanning the possible embedded file
7. If a section end was found and no new section start it will look for the footer

File type definitions

Revit uses a configuration file to define its file types, as seen in the previous paragraph. The hypothesis is that there are only a few approaches to file types:

- The section based approach; this type of file consists of different sections which contain information regarding the next section (i.e. size, offset, end of section marker), like JPEG, PNG, ZIP.
- The block based approach; this type of file consists of blocks with an index to mark the different parts within the file type, like OLE compound files.
- The text marker approach; this type of file consist of text based marker to separate it various parts, like XML, HTML, SGML.
- Non structured files; this type of file does not contain any structure and mostly little meta data, like plain text files.

However further research could point out that there are more variants.

Block based carving

Both Scalpel and Foremost approach file carving using a file characteristics centric approach. For every file type definition the entire input file is searched. This can result in additional positives

which are actually embedded files.

Revit uses a block centric approach. The block centric approach assumes that data at a specific location can only be part of one file. This does not mean that only the data of one file only can be present in a single block. Varying block sizes can produce varying results. The idea is based on the aspect that computer systems use fixed block sizes in storing data, i.e. the block size in most storage systems is 512 byte, the sector size.

Revit searches every block for every file type definition. This allows for a more flexible approach and the ability to detect embedded files. Revit is able to export embedded files which allows for an easy means to determine if data was hidden within a file.

Carving features

In short Revit provides the following carving features:

- it carves files based on header, footer, content, section and block based characteristics defined within a file type configuration file;
- varying block sizes; which can be specified using the -b command line switch;
- built in MD5 support for the audit file; which currently must be switched on (-m);
- support to export embedded files; which currently must be switched on (-e);
- support to partial embedded files; which currently must be switched on (-p).

Future of (smart) carving

The current version of Revit is intended as a proof of concept of smart carving. It already provides for good results for certain file types. But to be more reliable more file types need to be analyzed and added.

We think that further research regarding smart/deep carving allows to even tackle:

- reconstruct fragmented files, i.e. fragments of ZIP files can contain meta data which allows to reconstruct them from fragments;
- tolerate for deliberate malfunctions in file types, i.e. by concurrent scanning of multiple characteristics;
- use entropy based analysis, i.e. for randomness in compressed and encrypted files.

Tooling

The revit package comes with two tools:

- revit
- banalyze

Both are written in C it is currently dependent on the following libraries:

- libcrypto for MD5 calculations
- libmagic to support mime and magic type analysis in banalyze
- libflex for the configuration file

Findings Revit

The following revit version was used:

```
# ./revit -V
ReviveIt (revit) version: 20060710-1
```

The following command syntax can be used:

```
# ./revit.exe -h
Usage: revit [-ehopvV] [-b block_size] [-c configuration_file] [-t target_directory] image_file
  -b: specify the block size (should be >= 512, default is: 512)
  -c: specify the configuration file (default is: ./file_types.conf)
  -e: also extract embedded files
  -h: shows this usage information
  -m: calculate the MD5 hash of the extracted file
  -o: use the start offset value as the filename of the extracted file
      instead of the number of the extracted file
  -p: also extract partial files
  -q: be quiet, do not print status indicator
  -t: specify the target directory (default is: revived)
  -v: verbose output to stderr
  -V: print version
```

The file type configuration file used supports the following file types:

```
fully supported:      jpeg, png, html, zip
partially supported:  ole compound files, pdf, xml
```

The following command was issued:

```
# ./revit -emop -t /forensics/dfrws-2006/revit /forensics/dfrws-2006/img2.raw
```

The Revit audit log is supplied as an appendix.

Summary of carved files:

Type of carved files	Amount	Amount of false positives
Complete	23	0 (or 2 for some zip tools) (15385752.zip, 23047680.zip) This will be explained later in the document.
Partial	14	5 unknown ole2 compound files, support is being developed and 14709248.zip is part of a fragmented ZIP file explained later in the document
Embedded, complete	2	0
Embedded, partial	2	1
Total	41	6

In the following tables the recovered files from Revit are listed.

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
1	1995443.jpeg	c1d7c67b0e81f902a2c7ed56651fee2b	1995443 (0x1e72b3)	2000994 (0x1e8862)	5551 (0x15af)	embedded, complete Mars lander picture thumbnail
2	1980416.jpeg	daf4205574abd6919b10ca8be92d17a3	1980416 (0x1e3800)	2267602 (0x2299d2)	287186 (0x461d2)	complete Mars lander picture
3	4241920.jpeg	4efc6c57268387efd8f3404ddaded7b	4241920 (0x40ba00)	4850623 (0x4a03bf)	608703 (0x949bf)	complete Picture (dfwrs) 5 persona 1 laptop and drinks
4	5948928.jpeg	90a4ab243ea44c0b9f704ed4303084bc	5948928 (0x5ac600)	6152960 (0x5de300)	204032 (0x31d00)	complete Picture green molecules (cells)
5	6257664.jpeg	b070beae1606f67a342bc5f78c29c743	6257664 (0x5f7c00)	13371632 (0xcc08f0)	7113968 (0x6c8cf0)	complete Picture dfwrs challenge 2006 blue
6	14134784.jpeg	fe7e7ac67709f2d9c2483aa98c681b99	14134784 (0xd7ae00)	14324318 (0xda925e)	189534 (0x2e45e)	complete Picture of the Porcupine (bar)
7	16115200.jpeg	5e202aaca2c685393c0ef98e4a30e96	16115200 (0xf5e600)	16326144 (0xf91e00)	210944 (0x33800)	partial Picture of Porcupine animal (half damaged)
8	16144896.jpeg	68e1d7487c38a92cdb69d8da0db86dc3	16144896 (0xf65a00)	16326194 (0xf91e32)	181298 (0x2c432)	complete Picture of Mars landscape (damaged)
9	18581504.jpeg	2fae8770cc013d22e9ea1c070f2f509b	18581504 (0x11b8800)	18760163 (0x11e41e3)	178659 (0x2b9e3)	complete Picture of Red planet
10	20806656.jpeg	97e5ca34212703d4b61174a802191a1f	20806656 (0x13d7c00)	21106135 (0x1420dd7)	299479 (0x491d7)	complete Picture of 4 men, 1 boy, 1 man with microphone (damaged)
11	21304832.jpeg	fda69161f53c2372a9083293fcf48f32	21304832 (0x1451600)	22542336 (0x157f800)	1237504 (0x12e200)	partial Picture of the Milky way, damaged
12	22238208.jpeg	c0da37b3f1a07af790e6e91	22238208	22542621	304413 (0x4a51d)	complete

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
		71cedc4d2	(0x1535400)	(0x157f91d)		Picture of 4 persons, 3 laptops and Heineken
13	23329792.jpeg	586f9c563bf9428f1e2317 76d040d139	23329792 (0x163fc00)	23974971 (0x16dd43b)	645179 (0x9d83b)	complete Gray landscape moon
14	24017920.jpeg	db32b271506b2f49747919 57627c61cc	24017920 (0x16e7c00)	48556460 (0x2e4e9ac)	24538540 (0x1766dac)	complete Picture Dfrws challenge 2006 orange
15	48561970.jpeg	11dd149a694df0f1ad47bff ed35fb038	48561970 (0x2e4ff32)	48564603 (0x2e5097b)	2633 (0xa49)	embedded, complete Picture of Saturn, Thumbnail
16	48561152.jpeg	ce45692e435725c44ac1f8 25f1f55306	48561152 (0x2e4fc00)	48962050 (0x2eb1a02)	400898 (0x61e02)	complete Picture of Saturn

Table 10. Findings Revit – JPEG files

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
17	0.html	d76b0865869a283099c4a9 5b6c7724a1	0 (0x0)	4609 (0x1201)	4609 (0x1201)	partial Center of the Earth
18	4609.html	8d442d582b174e167a793 958f2e5ee46	4609 (0x1201)	22755 (0x58e3)	18146 (0x46e2)	complete Alice in Wonderland
19	2271232.html	799ad2d2f2f1f17657338d 98c97559c4	2271232 (0x22a800)	2281472 (0x22d000)	10240 (0x2800)	partial A study in Scarlet
20	2281472.html	f4481ed348d3d59c5dad80 afeb0341f9	2281472 (0x22d000)	2305016 (0x232bf8)	23544 (0x5bf8)	complete Stave 1 Marley's Ghost
21	2305536.html	980d51f099c0626d7816b0 7d5dae3f85	2305536 (0x232e00)	2332899 (0x2398e3)	27363 (0x6ae3)	partial Ave orders
22	14077952.html	76e51ff4adcaaa7b64da061 636e532f3	14077952 (0xd6d000)	14134784 (0xd7ae00)	56832 (0xde00)	partial Comedy of errors:
23	14324736.html	8593b9c26ec20d90660b36 9ca59a5904	14324736 (0xda9400)	14436429 (0xdc484d)	111693 (0x1b44d)	partial 2> Within right
24	14460928.html	9d63975e91da31f8a41856 c8d50fe573	14460928 (0xdca800)	14512179 (0xdd7033)	51251 (0xc833)	complete

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
						Chapter cxxxiv
25	15118848.html	158496c522d97b7389c9907cae777ac1	15118848 (0xe6b200)	15306641 (0xe98f91)	187793 (0x2dd91)	complete The Tempest:
26	15306240.html	4bdf2f9b8bba0acb1597cce1f6b9ef7	15306240 (0xe98e00)	15306641 (0xe98f91)	401 (0x191)	partial Spirits to enforce This file is actually a small part of the previous file – it can be considered an imperfection within the current version of Revit

Table 11. Findings Revit – HTML files

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
27	1050112.unknown	e4b4ba837a5ab9e780ffc521a3151897	1050112 (0x100600)	1980416 (0x1e3800)	930304 (0xe3200)	partial Possible Microsoft Excel file
28	4077568.unknown	fe483cb5afb54c990d0609c70ffe30a5	4077568 (0x3e3800)	4086865 (0x3e5c51)	9297 (0x2451)	partial Possible Microsoft Word file “National Park and Preserve Announces Upcoming Research Symposium”
29	16812544.unknown	993106a9ab1d965344b655d888185d3f	16812544 (0x1008a00)	16902215 (0x101e847)	89671 (0x15e47)	partial Probable Microsoft Word file “Fact Sheet - Permitted and Prohibited Items”
30	17555456.unknown	5c93b60181cb33fdb6fa9bd296bf608	17555456 (0x10be000)	18120696 (0x1147ff8)	565240 (0x89ff8)	partial Probable Microsoft Word file “Reports on Computer Systems Technology”
31	18942976.unknown	ada5d5f30da878922e37e01c9fd8147b	18942976 (0x1210c00)	20806656 (0x13d7c00)	1863680 (0x1c7000)	partial Probable

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
						Microsoft Word file “PREVENTING CRIME: #PRIVATE”
32	23533568.unknown	369a8f635d429981ca1dfb b3fdd8acd6	23533568 (0x1671800)	23759460 (0x16a8a64)	225892 (0x37264)	embedded, partial Probable Microsoft Word Document Readable if renamed as .doc Title: Statements of Financial Condition “Farm Credit System Insurance Corporation Statement of Financial Condition March 31, 2006 and December 31, 2005”

Table 12. Findings Revit – Microsoft Office files

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
33	4086865.png	13bf31f3f270e9755ba27c9 6a07fe615	4086865 (0x3e5c51)	4093293 (0x3e756d)	6428 (0x191c)	complete National Park Service
34	16902215.png	204d04b27e673b5bb7ed6 3885b819b9f	16902215 (0x101e847)	16973235 (0x102fdb3)	71020 (0x1156c)	complete Transport Security Administration
35	18120696.png	1b97489741b99a34b19ba 2f8f23be0d4	18120696 (0x1147ff8)	18140589 (0x114cdad)	19893 (0x4db5)	complete NIST
36	18140936.png	6e33b2341a38a7936f2b52 43ade0ef5e	18140936 (0x114cf08)	18215424 (0x115f200)	74488 (0x122f8)	complete NIST Centennial

Table 13. Findings Revit – PNG files

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
37	14560768.zip	ebabde39ba44d38888dd82	14560768 (0xde2e00)	14707918 (0xe06cce)	147150 (0x23ece)	complete

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
		606980498a				contains 4n6rodeo4-fix copy.jpg, 4n6rodeo3-fix copy.jpg, __MACOSX/
38	14709248.zip	d5e1aa8b61c5a684f8a613 e893021d02	14709248 (0xe07200)	15306240 (0xe98e00)	596992 (0x91c00)	partial A large part of file1.jpeg
39	15385752.zip	11f2ff860df7f95b723b4ed d2d78ddc5	15385752 (0xeac498)	16060897 (0xf511e1)	675145 (0xa4d49)	complete file2.jpeg and central zip directory with (file1.jpeg, file2.jpeg)
40	23047680.zip	afafc8283cd622ed465a050 008f72ed6	23047680 (0x15fae00)	23319397 (0x163d365)	271717 (0x42565)	complete contains 1993-01-a- large_web.jpg, 1995-45-a- large_web.jpg, 2000-06-a- large_web.jpg, 2000-07-a- large_web.jpg, 2002-29-a- large_web.jpg (corrupt), 2005- 02-e- large_web.jpg

Table 14. Findings Revit – ZIP files

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
41	1986357.xml	7f567c7437cf59608e9a09f ad1b2ab8e	1986357 (0x1e4f35)	1995443 (0x1e72b3)	9086 (0x237e)	embedded, partial com.apple.print specific application data

Table 15. Findings Revit – XML files

Although Revit is still in development it produces good results. Some carving issues also exist with Revit.

- The support for Microsoft Office documents (OLE compound files) within Revit is still not complete therefore it is unable to determine the complete files. It is however able to determine partial files.

- Revit cannot determine the end of a XML file yet. It is however able to determine partial files.
- Currently Revit can only carve non-linearized PDF files.

Verification of carved files

The carved files of Scalpel, Foremost and Revit were compared to verify the findings regarding the carved files.

Comparison Scalpel, Foremost and Revit findings

Scalpel MD5	Foremost MD5	Revit MD5	Match	Description
	03d401e472a9d0b5bd2022c2fae03260			Statements of Financial Condition Author meta data Nancy Edwards and file dates
11dd149a694df0f1ad47bffd35fb038		11dd149a694df0f1ad47bffd35fb038	Scalpel, Revit	Picture of Saturn. Probable thumbnail.
		11f2ff860df7f95b723b4edd2d78ddc5		complete, contains 4n6rodeo4-fix copy.jpg, 4n6rodeo3-fix copy.jpg, __MACOSX/
	13bf31f3f270e9755ba27c96a07fe615	13bf31f3f270e9755ba27c96a07fe615	Foremost, Revit	National Park Service
14f703660bdd2798cb08c79ee8597212		158496c522d97b7389c9907cae777ac1		Gray landscape moon Probable thumbnail.
18ee229edce25b1227991154c465f25a				A study in Scarlet
	1b97489741b99a34b19ba2f8f23be0d4	1b97489741b99a34b19ba2f8f23be0d4	Foremost, Revit	NIST
	204d04b27e673b5bb7ed63885b819b9f	204d04b27e673b5bb7ed63885b819b9f	Foremost, Revit	Transportation Security Administration
2fae8770cc013d22e9ea1c070f2f509b	2fae8770cc013d22e9ea1c070f2f509b	2fae8770cc013d22e9ea1c070f2f509b	Foremost, Revit	Picture of Red planet
		369a8f635d429981ca1dfbb3fdd8acd6		embedded, partial, Probable Microsoft Word Document readable if renamed as .doc Title: Statements of Financial Condition
41e2dc276dc868ea45763f17a0ac1cb0				Fact Sheet - Permitted and Prohibited Items
459a13a017b1e78065f05fb62aa0166f	459a13a017b1e78065f05fb62aa0166f		Scalpel, Foremost	Alice in Wonderland
4b848e7c6c53f2b7bc9dfa067ccb66c6				Fact Sheet Permitted and Prohibited Items. Carved file size 9,5 MB, default in scalpel.conf
		4bdfef9b8bba0acb1597cce1f6b9ef7		partial, Spirits to enforce
4efc6c572683878efd8f3404ddaded7b	4efc6c572683878efd8f3404ddaded7b	4efc6c572683878efd8f3404ddaded7b	Scalpel, Foremost, Revit	Picture (dfrws) 5 persons 1 laptop and drinks

Scalpel MD5	Foremost MD5	Revit MD5	Match	Description
	586f9c563bf9428f1e231776d040d139	586f9c563bf9428f1e231776d040d139	Foremost, Revit	Gray landscape moon, damaged
		5c93b60181cb33fdb6fa9bd296bf608		partial, Probable Microsoft Word file "Reports on Computer Systems Technology"
		5e202aaca2c685393c0eff98e4a30e96		partial, Picture of Porcupine animal (half damaged)
68e1d7487c38a92cdb69d8da0db86dc3		68e1d7487c38a92cdb69d8da0db86dc3	Scalpel, Revit	Picture of Mars landscape (damaged)
	6e33b2341a38a7936f2b5243ade0ef5e	6e33b2341a38a7936f2b5243ade0ef5e	Foremost, Revit	NIST Centennial
		76e51ff4adcaaa7b64da061636e532f3		partial, (fragmented) Comedy of errors:
		799ad2d2f2f1f17657338d98c97559c4		partial, A study in Scarlet
		7f567c7437cf59608e9a09fad1b2ab8e		embedded, partial, com.apple.print specific application data
		8593b9c26ec20d90660b369ca59a5904		partial, (fragmented) 2> Within right
		8d442d582b174e167a793958f2e5ee46		complete, Alice in Wonderland
	90a4ab243ea44c0b9f704ed4303084bc	90a4ab243ea44c0b9f704ed4303084bc	Foremost, Revit	Picture green molecules (cells)
	93870e9b6838fff989c3ccd3f58dad56			Fact Sheet - Permitted and Prohibited Items
	9736d2cf82fc7b6b4c164d7fd7ca05e			The Tempest
97e5ca34212703d4b61174a802191a1f	97e5ca34212703d4b61174a802191a1f	97e5ca34212703d4b61174a802191a1f	Scalpel, Foremost, Revit	Picture of 4 men, 1 boy , 1 men with microphone (damaged)
		980d51f099c0626d7816b07d5dae3f85		partial Ave orders
		993106a9ab1d965344b655d888185d3f		partial Probable Microsoft Word file "Fact Sheet - Permitted and Prohibited Items"
	9d63975e91da31f8a41856c8d50fe573	9d63975e91da31f8a41856c8d50fe573	Foremost, Revit	Chapter cxxxiv
	a010dd1efca454cd81e57c4e43443087			Comedy of Errors, with a jpg in the file
a189ea67ccab2c2da2f97422edbd1ce0				Statements of Financial Condition Author meta data Nancy Edwards and file dates Carved file size 9,5 mb, default in scalpel.conf. Same start file offset as 00000107.doc
a189ea67ccab2c2da2f97422edbd1ce0				Document Statements of Financial Condition. Author

Scalpel MD5	Foremost MD5	Revit MD5	Match	Description
				meta date Nancy Edwards and file dates. Carved file size 9,5 MB, default in scalpel.conf. Same start file offset as 00000101.doc.
a3d9f869a96c4cdc473bb6f5ed4db844	a3d9f869a96c4cdc473bb6f5ed4db844		Scalpel, Foremost	Stave 1 Marley's Ghost
		ada5d5f30da878922e37e01c9fd8147b		partial, Probable Microsoft Word file "PREVENTING CRIME: #PRIVATE"
		afafc8283cd622ed465a050008f72ed6		complete, contains: 1993-01-a-large_web.jpg, 1995-45-a-large_web.jpg, 2000-06-a-large_web.jpg, 2000-07-a-large_web.jpg, 2002-29-a-large_web.jpg (corrupt), 2005-02-e-large_web.jpg
b070beae1606f67a342bc5f78c29c743		b070beae1606f67a342bc5f78c29c743	Scalpel, Revit	Picture Dfrws challenge 2006 blue
b31658ac5900a4fd8862c8c22ef91bcb				Archive containing two jpg pictures of the dfrws rodeo
b3f4ccfb61790ab745b39d3945c5fe3f				Picture green molecules (cells) (probable thumbnail)
c0da37b3f1a07af790e6e9171cedc4d2		c0da37b3f1a07af790e6e9171cedc4d2	Scalpel, Revit	Picture of 4 persons 3 laptops and Heineken
c1d7c67b0e81f902a2c7ed56651fee2b		c1d7c67b0e81f902a2c7ed56651fee2b	Scalpel, Revit	Mars lander picture small (probable thumbnail)
	ce45692e435725c44ac1f825f1f55306	ce45692e435725c44ac1f825f1f55306	Foremost, Revit	Picture of Saturn, damaged
		d5e1aa8b61c5a684f8a613e893021d02		partial, A large part of file1.jpeg
		d76b0865869a283099c4a95b6c7724a1		partial, Center of the Earth
	daf4205574abd6919b10ca8be92d17a3	daf4205574abd6919b10ca8be92d17a3		Mars lander picture
db32b271506b2f4974791957627c61cc		db32b271506b2f4974791957627c61cc	Scalpel, Revit	Picture Dfrws challenge 2006 orange
dff3ab375c6eb0afb716b043a78ce163	dff3ab375c6eb0afb716b043a78ce163		Scalpel, Foremost	Picture of Porcupine animal (half damaged)
		e4b4ba837a5ab9e780ffc521a3151897		partial, Possible Microsoft Excel file
		ebabde39ba44d3888dd82606980498a		complete, file2.jpeg and central zip directory with (file1.jpeg, file2.jpeg)
ef1ed4078cfc3aa1ae68f82aad0b6c3d	ef1ed4078cfc3aa1ae68f82aad0b6c3d		Scalpel, Foremost	Picture of the Milky way, damaged
		f4481ed348d3d59c5dad80afeb0341f9		complete, Stave 1 Marley's Ghost
		fda69161f53c2372a9083293fcf48f32		partial, Picture of the Milky way, damaged

Scalpel MD5	Foremost MD5	Revit MD5	Match	Description
		fe483cb5afb54c990d0609c70ffe30a5		partial, Possible Microsoft Word file, "National Park and Preserve Announces Upcoming Research Symposium"
fe7e7ac67709f2d9c2483aa98c681b99	fe7e7ac67709f2d9c2483aa98c681b99	fe7e7ac67709f2d9c2483aa98c681b99	Scalpel, Foremost, Revit	Picture of The Porcupine (bar)

This information provides that are:

- Scalpel had 13 matches with Foremost, Revit or both
- Foremost had 16 matches with Scalpel, Revit or both
- Revit had 18 matches with Scalpel, Foremost or both

Some of the differences can be explained:

- Both Scalpel and Foremost do not see "<DOCTYPE ..." as part of an HTML, Revit does. Therefore some of the HTML files carved by Revit are different.

Issues with Scalpel:

- Scalpel finds a lot of file fragments, which must be analyzed manually.

Issues with Foremost:

- Foremost misses out on some files; false negatives. I.e. ZIP file support seems to be broken.
- Foremost carves a HTML file "27496.htm" with the data of a jpeg image embedded in it.
- Foremost seems to miss out on a partial jpeg image directly in front of another complete jpeg image. I.e. Foremost export 41611.jpg is made up of Revit exports 21304832.jpeg and 22238208.jpeg)

Issues with Revit:

- The support for Microsoft Office documents (OLE compound files) within Revit is still not complete therefore it is unable to determine the complete files. It is however able to determine partial files.

Post carving analysis

After the carving by tooling a post analysis was done to verify if additional information or files were present within the 'img2.raw' file.

ZIP file analysis

There were multiple ZIP files found within 'img2.raw'.

Revit finds 3 complete and 1 partial ZIP file. The filenames within the ZIP files were cross

referenced with those within the files found by Scalpel. After further analysis of these ZIP files a possible fragmented ZIP file was found. The filename 'file1.jpg' was present in the ZIP file's local file header and its global file header. Revits audit log provides for the offsets of the fragments and the HTML files in between the fragments.

```
File reconstructed
Type identifier:      zip
Match:               partial
Filename:            14709248.zip
Start offset:        14709248 (0xe07200)
End offset:          15306240 (0xe98e00)
Start block offset:  14709248 (0xe07200)
End block offset:    15306240 (0xe98e00)
MD5 hash:            d5e1aa8b61c5a684f8a613e893021d02

File reconstructed
Type identifier:      html
Match:               complete
Filename:            15118848.html
Start offset:        15118848 (0xe6b200)
End offset:          15306641 (0xe98f91)
Start block offset:  15118848 (0xe6b200)
End block offset:    15306240 (0xe98e00)
MD5 hash:            158496c522d97b7389c9907cae777ac1

File reconstructed
Type identifier:      html
Match:               partial
Filename:            15306240.html
Start offset:        15306240 (0xe98e00)
End offset:          15306641 (0xe98f91)
Start block offset:  15306240 (0xe98e00)
End block offset:    15306240 (0xe98e00)
MD5 hash:            4bdf2f9b8bba0acb1597cce1f6b9ef7

File reconstructed
Type identifier:      zip
Match:               complete
Filename:            15385752.zip
Start offset:        15385752 (0xeac498)
End offset:          16060897 (0xf511e1)
Start block offset:  15385600 (0xeac400)
End block offset:    16060416 (0xf51000)
MD5 hash:            11f2ff860df7f95b723b4edd2d78ddc5
```

This provides the information that the first fragment could be on offset 14709248 to 15118848 and the second on offset (15306240 + 512) to 16060897. (15306240 + 512) = 15306752 is because the next block assuming the data is block aligned.

The fragmented ZIP was reconstructed by hand, using dd and some arithmetic:

```
# dd bs=1 if=img2.raw of=fragment1-14709248.zip skip=14709248 count=$(( 15118848 - 14709248 ))
# dd bs=1 if=img2.raw of=fragment2-14709248.zip skip=15306752 count=$(( 16061409 - 15306752 ))
# cat fragment1-14709248.zip fragment2-15306240.zip > 14709248.zip
```

This produced a complete ZIP file containing both file1.jpg and file2.jpg.

So there were actually 3 complete ZIP files within 'img2.raw'.

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
1	14560768.zip	ebabde39ba44d38888dd82606980498a	14560768 (0xde2e00)	14707918 (0xe06cce)	147150 (0x23ece)	complete contains 4n6rodeo4-fix copy.jpg, 4n6rodeo3-fix copy.jpg, __MACOSX/
2	manual/14709248.zip	e1f1cc0e633ecc8de7ccfae28f02c201	14709248 (0xe07200) 15306752 (0xe99000)	15306240 (0xe98e00) 16060897 (0xf511e1)	1164257 (0x11c3e1)	complete, fragmented Contains file1.jpeg and file2.jpeg
3	23047680.zip	afafc8283cd622ed465a050008f72ed6	23047680 (0x15fae00)	23319397 (0x163d365)	271717 (0x42565)	complete contains 1993-01-a-large_web.jpg, 1995-45-a-large_web.jpg, 2000-06-a-large_web.jpg, 2000-07-a-large_web.jpg, 2002-29-a-large_web.jpg (corrupt), 2005-02-e-large_web.jpg

The ZIP file '23047680.zip' contains a corrupt image '2002-29-a-large_web.jpg'. This ZIP file does not seem to miss any data the data has probably been corrupted:

```
# unzip -t 23047680.zip 2002-29-a-large_web.jpg
Archive: 23047680.zip
warning [23047680.zip]: 1536 extra bytes at beginning or within zipfile
(attempting to process anyway)
file #1: bad zipfile offset (local header sig): 172944
(attempting to re-compensate)
testing: 2002-29-a-large_web.jpg
error: invalid compressed data to inflate
At least one error was detected in 23047680.zip.
```

Also 1536 (3 blocks of 512) additional bytes are detected by unzip, so there is a high probability that there is additional data within the ZIP file within the compressed data of 2002-29-a-large_web.jpg. A manual search for these blocks proved unsuccessful. An approach could be to determine the entropy of the data in relation to other blocks.

The following files were extracted from the ZIP files using the Linux unzip command line tool.

No.	Filename	MD5	File Size	Remarks/Findings
1	14560768/4n6rodeo3-fix copy.jpg	a39bbf1156e0bc8ede80a46a56e66291	61.7 KB (63205 bytes)	Picture of the dfrws forensic rodeo
2	14560768/4n6rodeo4-fix copy.jpg	7da4a0278b401372be8641574d294c0a	81.9 KB (83818 bytes)	Picture of the dfrws forensic rodeo
3	14560768/___MACOSX/._4n6rodeo3-fix\ copy.jpg	a324c1f4959949cc9191e5b19b61bf18	82 bytes	
4	14560768/___MACOSX/._4n6rodeo4-fix\ copy.jpg	a324c1f4959949cc9191e5b19b61bf18	82 bytes	
5	14709248/file1.jpg	5f12ceda780fb1cad7b6282d080542d9	513027 bytes	Cone nebula
6	14709248/file2.jpg	924a56907a2a5e7f8e0d50542effb46c	725993 bytes	Pistol star and nebula
7	23047680/1993-01-a-large_web.jpg	b7be0dcd06cc072041e50e0ddb5217f1	62179 bytes	Star nebula
8	23047680/1995-45-a-large_web.jpg	1029ee7be2e0f5853ddaf2dd48989345	37157 bytes	Star nebula
9	23047680/2000-06-a-large_web.jpg	90e82abb4668ff61c4b4a0fdd53cd9c7	44808 bytes	Star nebula
10	23047680/2000-07-a-large_web.jpg	c07759fab56d4932ad26b5b46c6e688d	28740 bytes	Star nebula
11	23047680/2002-29-a-large_web.jpg			(corrupt)
12	23047680/2005-02-e-large_web.jpg	87842289a512182a0febd8643f839991	55610 bytes	Star nebula

Partial file analysis

Because Revit is still unable to determine the end offset of an XML file the values needed to be corrected by hand. This provides for:

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Findings
1	1986357.xml	edfb1c38bd5581bd9c606ce9a741b662	1986357 (0x1e4f35)	1993957	7600	embedded, complete com.apple.print specific application data Embedded within 1980416.jpeg

```
# dd if=img2.raw of=1986357.xml bs=1 skip=$(( 1986357 )) count=$(( 1993957 - 1986357 ))
```

Looking at the partial files, Revit finds two HTML files with a JPEG file in between and carves both HTML files as partials (14077952.html, 14324736.html). Foremost finds this file as '27496.htm' with the JPEG data in the HTML file.

These files are exactly block aligned and if concatenated together a complete HTML file is recovered,

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
1	fragmented/14077952.html	1959aa0391664b60fd0f2e64ed7a22f4	14077952 (0xd6d000) 14324736 (0xda9400)	14134784 (0xd7ae00) 14436429 (0xdc484d)	168525 bytes	complete, fragmented Comedy of errors:

Foremost finds 2 complete Microsoft Office documents on a 32 bit Linux platform.

No.	Filename	MD5	Start Offset Image	File Size	Remarks/Findings
11	32837.doc	93870e9b6838ff989c3ccd3f58dad56	16812544	282.0 KB (288768 bytes)	Fact Sheet - Permitted and Prohibited Items
12	45964.doc	03d401e472a9d0b5bd2022c2fae03260	23533568	71.0 KB (72704 bytes)	Statements of Financial Condition Author meta data Nancy Edwards and file dates

Revit is able to find the start of the Microsoft Office documents is currently not able to determine their end. But after some manual inspection of the file '32837.doc' it seems that there is one block of random data behind it. This makes the end offset $16812544 + 288768 - 512 = 17099776$. The doc file 16812544.doc was recovered using:

```
# dd if=img2.raw of=16812544.doc bs=1 skip=$(( 16812544 )) count=$(( 17099776 - 16812544 ))
```

This extracts the file.

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
1	manual/16812544.doc	0e52e75029e99cd2e9dcd0af271cf4a2	16812544 (0x1008a00)	17099776	287232	complete Microsoft Word file "Fact Sheet - Permitted and Prohibited Items,"

After some manual inspection of the file '45964.doc' it seems that there again blocks of random data behind it, this time 2. This makes the end offset $23533568 + 72704 - 1024 = 23605248$. The doc file 23533568.doc was recovered using:

```
# dd if=img2.raw of=23533568.doc bs=1 skip=$(( 23533568 )) count=$(( 23605248 - 23533568 ))
```

This extracts the file.

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
1	manual/23533568.doc	109284cc5abddc83879a29785795fd75	23533568	23605248	71680	complete Microsoft Word file "Statements of Financial

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
						Condition Author meta data Nancy Edwards and file dates”

Revit find several partial Microsoft Office files. On further manual inspection of the file:

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
30	17555456.unknown	5c93b60181cb33fdb6fa9bd296bf608	17555456 (0x10be000)	18120696 (0x1147ff8)	565240 (0x89ff8)	partial Probable Microsoft Word file “Reports on Computer Systems Technology”

An end offset of the Microsoft Word file is found at 18553344. Manually carving this file from the image, does not produce a valid Microsoft Word file.

```
# dd if=img2.raw of=17555456.doc bs=1 skip=$(( 17555456 )) count=$(( 18553344 - 17555456 ))
```

Close inspection of the file reveals that there is a text file and some slack space that fragments this Microsoft Word file. This text file start at the relative offset 0x02600 from the start of the Microsoft Word file. The text file end at relative offset 0x0f860. The Microsoft Word file then seems to continue at relative offset 0x0fa00.

```
# dd if=img2.raw of=17565184.txt bs=1 skip=$(( 17565184 )) count=$(( 0x0f86e - 0x02600 ))  
# dd if=img2.raw of=fragment1_17555456.doc bs=1 skip=$(( 17555456 )) count=$(( 0x02600 ))  
# dd if=img2.raw of=fragment2_17555456.doc bs=1 skip=$(( 17555456 + 0x0fa00 )) count=$(( 18553344 - 17555456 - 0x0fa00 ))  
# cat fragment1_17555456.doc fragment2_17555456.doc > 17555456.doc
```

This extracts the files.

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
1	manual/17555456.doc	d7ff92b8cc1c89c46a78288b9c673152	17555456 17619456	17565184 18553344	943616	complete Microsoft Word file “Computer Security”
2	manual/17565184.txt	5a12ef9dba88a186ef18a5d349b28e37	17565184	17619054	53870	complete The Adventure of the Copper Beeches

Both the files '18120696.png' and '18140936.png' appear to be embedded within the 'manual/17555456.doc'. There are 2 other graphics within the Microsoft Word file that none of the carvers exported, probably because they are of a file type not supported by the carver.

Revit find several partial Microsoft Office files. On further manual inspection of the file:

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
31	18942976.unknown	ada5d5f30da878922e37e01c9fd8147b	18942976 (0x1210c00)	20806656 (0x13d7c00)	1863680 (0x1c7000)	partial Probable Microsoft Word file "PREVENTING CRIME: #PRIVATE"

Is fragmented by two fragments of random data within the text part of the document. A fragment at global offset 0x01262400 to 0x0126be00 and a fragment at 0x01340800 to 0x01346a00. The Microsoft Word file seems to end at global offset 0x013d7c00.

```
# dd bs=1 if=img2.raw of=fragment1_18942976.doc skip=$(( 0x01210c00 )) count=$(( 0x01262400 - 0x01210c00 ))
# dd bs=1 if=img2.raw of=fragment2_18942976.doc skip=$(( 0x0126be00 )) count=$(( 0x01340800 - 0x0126be00 ))
# dd bs=1 if=img2.raw of=fragment3_18942976.doc skip=$(( 0x01346a00 )) count=$(( 0x013d7c00 - 0x01346a00 ))
# cat fragment1_18942976.doc fragment2_18942976.doc fragment3_18942976.doc > 18942976.doc
```

This extracts the file.

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
1	manual/18942976.doc	6b0e9127c8048fb54dc4803c95a3c914	18942976 19316224 20212224	19276800 20187136 20806656	1799168	complete Microsoft Word file "Preventing Crime"

Revit find several partial Microsoft Office files. On further manual inspection of the file:

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
27	1050112.unknown	e4b4ba837a5ab9e780ffc521a3151897	1050112 (0x100600)	1980416 (0x1e3800)	930304 (0xe3200)	partial Possible Microsoft Excel file
28	4077568.unknown	fe483cb5afb54c990d0609c70ffe30a5	4077568 (0x3e3800)	4086865 (0x3e5c51)	9297 (0x2451)	partial Possible Microsoft Word file

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
						“National Park and Preserve Announces Upcoming Research Symposium”

Revit find several partial Microsoft Office files. On further manual inspection of the file:

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
27	1050112.unknown	e4b4ba837a5ab9e780ffc521a3151897	1050112 (0x100600)	1980416 (0x1e3800)	930304 (0xe3200)	partial Possible Microsoft Excel file

After a manual review the end offset of this file seems to be 0x001d7600 in stead of 0x1e3800.

```
# dd bs=1 if=img2.raw of=1050112.xls skip=$(( 0x0100600 )) count=$(( 0x01d7600 - 0x0100600 ))
```

This extracts the file.

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
1	manual/1050112.xls	2b290c338700a97e51e352480ce30299	1050112 (0x100600)	1930752 (0x01d7600)	880640	partial Possible Microsoft Excel file

However this does not provide a valid Microsoft Excel file. No fragments were found manually.

Revit find several partial Microsoft Office files. On further manual inspection of the file:

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
28	4077568.unknown	fe483cb5afb54c990d0609c70ffe30a5	4077568 (0x3e3800)	4086865 (0x3e5c51)	9297 (0x2451)	partial Possible Microsoft Word file “National Park and Preserve Announces Upcoming Research Symposium”

After a manual review the end offset of this file seems to be 0x003eb000 in stead of 0x0x3e5c51.

```
# dd bs=1 if=img2.raw of=4077568.doc skip=$(( 0x03e3800 )) count=$(( 0x03eb000 - 0x03e3800 ))
```

This extracts the file.

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
1	manual/4077568.doc	585bcd585bf3dcb3b682792cc6ff9e87	4077568 (0x3e3800)	4108288 (0x03eb000)	30720	partial Possible Microsoft Word file “National Park and Preserve Announces Upcoming Research Symposium”

However this does not provide a valid Microsoft Word file. No fragments were found manually. Looking at the text within the file there is a high probability that the PNG file '4086865.png' is embedded within 4077568.doc.

Steganography

Withing the process of analyzing recovered graphics steganography should be tested.

Steganography is a method to hide messages within other files, mostly graphic files. This can be detected with a program called stegdetect by Niels Provos. The following command was issued on the recovered JPEG files by Revit.

The following command was issued:

```
# ./stegdetect -t jopifa *jpeg
```

No steganographic content was detected by the stegdetect version 0.6.3 used within Ubuntu 6.06.

However the JPEG files blue and orange 'DFRWS 2006 Forensic Challenge' are quite large of size, nor Stegdetect, nor Steghide, nor JPEG hide and seek were able to detect any hidden content. Due to their size it is highly probable that these files somehow were manipulated. Steghide provide an error message that in one of these JPEG files the Huffman table was missing.

Virus scan

To make sure no virus is present within the reconstructed files and ZIP files another virus scan was performed.

The following command was used:

```
# clamscan -r revived-dfrws2006
revived-dfrws2006/manual/fragment2_18942976.doc: OK
revived-dfrws2006/manual/fragment1_18942976.doc: OK
revived-dfrws2006/manual/fragment2_17555456.doc: OK
revived-dfrws2006/manual/16812544.doc: OK
```



```

revived-dfrws2006/manual/17565184.txt: OK
revived-dfrws2006/manual/17555456.doc: OK
revived-dfrws2006/manual/14709248.zip: OK
revived-dfrws2006/manual/23533568.doc: OK
revived-dfrws2006/manual/fragment3_18942976.doc: OK
revived-dfrws2006/manual/fragment1_17555456.doc: OK
revived-dfrws2006/manual/fragment2-14709248.zip: OK
revived-dfrws2006/manual/fragment1-14709248.zip: OK
revived-dfrws2006/manual/18942976.doc: OK
revived-dfrws2006/fragmented/fragment2_14077952.html: OK
revived-dfrws2006/fragmented/fragment1_14077952.html: OK
revived-dfrws2006/fragmented/14077952.html: OK
revived-dfrws2006/complete/15118848.html: OK
revived-dfrws2006/complete/20806656.jpeg: OK
revived-dfrws2006/complete/22238208.jpeg: OK
revived-dfrws2006/complete/18581504.jpeg: OK
revived-dfrws2006/complete/5948928.jpeg: OK
revived-dfrws2006/complete/14460928.html: OK
revived-dfrws2006/complete/2281472.html: OK
revived-dfrws2006/complete/23047680.zip: OK
revived-dfrws2006/complete/23329792.jpeg: OK
revived-dfrws2006/complete/48561152.jpeg: OK
revived-dfrws2006/complete/4609.html: OK
revived-dfrws2006/complete/4241920.jpeg: OK
revived-dfrws2006/complete/24017920.jpeg: OK
revived-dfrws2006/complete/14560768.zip: OK
revived-dfrws2006/complete/6257664.jpeg: OK
revived-dfrws2006/complete/1980416.jpeg: OK
revived-dfrws2006/complete/16144896.jpeg: OK
revived-dfrws2006/complete/14134784.jpeg: OK
revived-dfrws2006/partial/0.html: OK
revived-dfrws2006/partial/4077568.doc: OK
revived-dfrws2006/partial/16115200.jpeg: OK
revived-dfrws2006/partial/2305536.html: OK
revived-dfrws2006/partial/21304832.jpeg: OK
revived-dfrws2006/partial/2271232.html: OK
revived-dfrws2006/partial/1050112.xls: OK
revived-dfrws2006/directories.txt: OK
revived-dfrws2006/directories.txt~: OK
revived-dfrws2006/embedded/48561152/complete/48561970.jpeg: OK
revived-dfrws2006/embedded/1980416/complete/1995443.jpeg: OK
revived-dfrws2006/embedded/1980416/complete/1986357.xml: OK
revived-dfrws2006/embedded/16812544/complete/16902215.png: OK
revived-dfrws2006/embedded/17555456/complete/18120696.png: OK
revived-dfrws2006/embedded/17555456/complete/18140936.png: OK
revived-dfrws2006/embedded/4077568/complete/4086865.png: OK
revived-dfrws2006/zip/14560768/___MACOSX/._4n6rodeo4-fix copy.jpg: OK
revived-dfrws2006/zip/14560768/___MACOSX/._4n6rodeo3-fix copy.jpg: OK
revived-dfrws2006/zip/14560768/4n6rodeo4-fix copy.jpg: OK
revived-dfrws2006/zip/14560768/4n6rodeo3-fix copy.jpg: OK
revived-dfrws2006/zip/23047680/1993-01-a-large_web.jpg: OK
revived-dfrws2006/zip/23047680/1995-45-a-large_web.jpg: OK
revived-dfrws2006/zip/23047680/2002-29-a-large_web.jpg: Empty file
revived-dfrws2006/zip/23047680/2005-02-e-large_web.jpg: OK
revived-dfrws2006/zip/23047680/2000-07-a-large_web.jpg: OK
revived-dfrws2006/zip/23047680/2000-06-a-large_web.jpg: OK
revived-dfrws2006/zip/14709248/file1.jpg: OK
revived-dfrws2006/zip/14709248/file2.jpg: OK

```

----- SCAN SUMMARY -----

```

Known viruses: 61827
Engine version: 0.88.2
Scanned directories: 21
Scanned files: 61
Infected files: 0
Data scanned: 50.91 MB
Time: 23.670 sec (0 m 23 s)

```

No known viruses were detected with the used version of Clamav.

Carving results

Looking at the results from all carving tooling the following files were found within the 'img2.raw' file.

In the following tables the recovered files are listed.

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
1	1995443.jpeg	c1d7c67b0e81f902a2c7ed56651fee2b	1995443 (0x1e72b3)	2000994 (0x1e8862)	5551 (0x15af)	embedded, complete Mars lander picture thumbnail Embedded within 1980416.jpeg
2	1980416.jpeg	daf4205574abd6919b10ca8be92d17a3	1980416 (0x1e3800)	2267602 (0x2299d2)	287186 (0x461d2)	complete Mars lander picture
3	4241920.jpeg	4efc6c572683878efd8f3404ddaded7b	4241920 (0x40ba00)	4850623 (0x4a03bf)	608703 (0x949bf)	complete Picture (dfwrs) 5 persona 1 laptop and drinks
4	5948928.jpeg	90a4ab243ea44c0b9f704ed4303084bc	5948928 (0x5ac600)	6152960 (0x5de300)	204032 (0x31d00)	complete Picture green molecules (cells)
5	6257664.jpeg	b070beae1606f67a342bc5f78c29c743	6257664 (0x5f7c00)	13371632 (0xcc08f0)	7113968 (0x6c8cf0)	complete Picture dfwrs challenge 2006 blue
6	14134784.jpeg	fe7e7ac67709f2d9c2483aa98c681b99	14134784 (0xd7ae00)	14324318 (0xda925e)	189534 (0x2e45e)	complete Picture of the Porcupine (bar)
7	16115200.jpeg	5e202aaca2c685393c0eff98e4a30e96	16115200 (0xf5e600)	16326144 (0xf91e00)	210944 (0x33800)	partial Picture of Porcupine animal (half damaged)
8	16144896.jpeg	68e1d7487c38a92cdb69d8da0db86dc3	16144896 (0xf65a00)	16326194 (0xf91e32)	181298 (0x2c432)	complete Picture of Mars landscape (damaged)
9	18581504.jpeg	2fae8770cc013d22e9ea1c070f2f509b	18581504 (0x11b8800)	18760163 (0x11e41e3)	178659 (0x2b9e3)	complete Picture of Red planet
10	20806656.jpeg	97e5ca34212703d4b61174a802191a1f	20806656 (0x13d7c00)	21106135 (0x1420dd7)	299479 (0x491d7)	complete

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
						Picture of 4 men, 1 boy, 1 man with microphone (damaged)
11	21304832.jpeg	fda69161f53c2372a9083293fcf48f32	21304832 (0x1451600)	22542336 (0x157f800)	1237504 (0x12e200)	partial Picture of the Milky way, damaged
12	22238208.jpeg	c0da37b3f1a07af790e6e9171cedc4d2	22238208 (0x1535400)	22542621 (0x157f91d)	304413 (0x4a51d)	complete Picture of 4 persons, 3 laptops and Heineken
13	23329792.jpeg	586f9c563bf9428f1e231776d040d139	23329792 (0x163fc00)	23974971 (0x16dd43b)	645179 (0x9d83b)	complete Gray landscape moon
14	24017920.jpeg	db32b271506b2f4974791957627c61cc	24017920 (0x16e7c00)	48556460 (0x2e4e9ac)	24538540 (0x1766dac)	complete Picture Dfrws challenge 2006 orange
15	48561970.jpeg	11dd149a694df0f1ad47bffed35fb038	48561970 (0x2e4ff32)	48564603 (0x2e5097b)	2633 (0xa49)	embedded, complete Picture of Saturn, Thumbnail Embedded within 48561152.jpeg
16	48561152.jpeg	ce45692e435725c44ac1f825f1f55306	48561152 (0x2e4fc00)	48962050 (0x2eb1a02)	400898 (0x61e02)	complete Picture of Saturn

Table 16. Findings – JPEG files

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
17	0.html	d76b0865869a283099c4a95b6c7724a1	0 (0x0)	4609 (0x1201)	4609 (0x1201)	partial Center of the Earth
18	4609.html	8d442d582b174e167a793958f2e5ee46	4609 (0x1201)	22755 (0x58e3)	18146 (0x46e2)	complete Alice in Wonderland
19	2271232.html	799ad2d2f2f1f17657338d98c97559c4	2271232 (0x22a800)	2281472 (0x22d000)	10240 (0x2800)	partial A study in Scarlet
20	2281472.html	f4481ed348d3d59c5dad80afeb0341f9	2281472 (0x22d000)	2305016 (0x232bf8)	23544 (0x5bf8)	complete

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
						Stave 1 Marley's Ghost
21	2305536.html	980d51f099c0626d7816b07d5dae3f85	2305536 (0x232e00)	2332899 (0x2398e3)	27363 (0x6ae3)	partial Ave orders
22	14077952.html	1959aa0391664b60fd0f2e64ed7a22f4	14077952 (0xd6d000) 14324736 (0xda9400)	14134784 (0xd7ae00) 14436429 (0xdc484d)	168525 bytes	complete, fragmented Comedy of errors:
23	14460928.html	9d63975e91da31f8a41856c8d50fe573	14460928 (0xdca800)	14512179 (0xdd7033)	51251 (0xc833)	complete Chapter cxxxiv
24	15118848.html	158496c522d97b7389c9907cae777ac1	15118848 (0xe6b200)	15306641 (0xe98f91)	187793 (0x2dd91)	complete The Tempest:

Table 17. Findings – HTML files

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
25	manual/1050112.xls	2b290c338700a97e51e352480ce30299	1050112 (0x100600)	1930752 (0x01d7600)	880640	partial Possible Microsoft Excel file
26	manual/4077568.doc	585bcd585bf3dcb3b682792cc6ff9e87	4077568 (0x3e3800)	4108288 (0x03eb000)	30720	partial Possible Microsoft Word file “National Park and Preserve Announces Upcoming Research Symposium”
27	manual/16812544.doc	0e52e75029e99cd2e9dcd0af271cf4a2	16812544 (0x1008a00)	17099776	287232	complete Microsoft Word file “Fact Sheet - Permitted and Prohibited Items,”
28	manual/17555456.doc	d7ff92b8cc1c89c46a78288b9c673152	17555456 17619456	17565184 18553344	943616	complete, fragmented Microsoft Word file “Computer Security”
29	manual/18942976.doc	6b0e9127c8048fb54dc4803c95a3c914	18942976 19316224 20212224	19276800 20187136 20806656	1799168	complete, fragmented Microsoft Word file

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
						"Preventing Crime"
30	manual/23533568.doc	109284cc5abddc83879a29785795fd75	23533568	23605248	71680	complete Microsoft Word file "Statements of Financial Condition Author meta data Nancy Edwards and file dates"

Table 18. Findings – Microsoft Office files

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
31	4086865.png	13bf31f3f270e9755ba27c96a07fe615	4086865 (0x3e5c51)	4093293 (0x3e756d)	6428 (0x191c)	complete, embedded National Park Service Embedded within manual/4077568.doc
32	16902215.png	204d04b27e673b5bb7ed63885b819b9f	16902215 (0x101e847)	16973235 (0x102fdb3)	71020 (0x1156c)	complete, embedded Transport Security Administration Embedded within manual/16812544.doc
33	18120696.png	1b97489741b99a34b19ba2f8f23be0d4	18120696 (0x1147ff8)	18140589 (0x114cdad)	19893 (0x4db5)	complete embedded NIST Embedded within manual/17555456.doc
34	18140936.png	6e33b2341a38a7936f2b5243ade0ef5e	18140936 (0x114cf08)	18215424 (0x115f200)	74488 (0x122f8)	complete embedded NIST Centennial Embedded within manual/17555456.doc

Table 19. Findings – PNG files

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
35	14560768.zip	ebabde39ba44d38888dd82606980498a	14560768 (0xde2e00)	14707918 (0xe06cce)	147150 (0x23ece)	complete contains 4n6rodeo4-fix copy.jpg, 4n6rodeo3-fix copy.jpg, __MACOSX/
36	manual/14709248.zip	e1f1cc0e633ecc8de7ccfae28f02c201	14709248 (0xe07200) 15306752 (0xe99000)	15306240 (0xe98e00) 16060897 (0xf511e1)	1164257 (0x11c3e1)	complete, fragmented Contains file1.jpeg and file2.jpeg
37	23047680.zip	afafc8283cd622ed465a050008f72ed6	23047680 (0x15fae00)	23319397 (0x163d365)	271717 (0x42565)	complete contains 1993-01-a- large_web.jpg, 1995-45-a- large_web.jpg, 2000-06-a- large_web.jpg, 2000-07-a- large_web.jpg, 2002-29-a- large_web.jpg (corrupt), 2005- 02-e- large_web.jpg

Table 20. Findings – ZIP files

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
38	1986357.xml	edfb1c38bd5581bd9c606ce9a741b662	1986357 (0x1e4f35)	1993957	7600	embedded, complete com.apple.print specific application data Embedded within 1980416.jpeg

Table 21. Findings – XML files

No.	Filename	MD5	Start Offset Image	End Offset Image	File Size	Remarks/Finding s
39	manual/17565184.txt	5a12ef9dba88a186ef18a5d349b28e37	17565184	17619054	53870	complete The Adventure of the Copper Beeches

Table 22. Findings – Plain text files

Conclusion

Preliminary findings on smart carving techniques provide good results. Although Revit is far from complete it is able to find a good amount of the files within the 'img2.raw' file. Revit has been setup for flexibility by using configurable file characteristics. Preliminary results show that Revit provides better results than both Scalpel and Foremost. Revit will be enhanced to support more file types within the near future, but requires more testing and verification of results.

Smart carving techniques can reduce the amount false positives significantly. However when file characteristics are defined to stringent the amount of false negatives will increase. A carving tool should be able to point out partial matches because of these false negatives. This would allow forensic investigators to initiate further analysis, like Revits partials and embedded files.

Alas the latest version of Foremost is an example of a carving tool which is too stringent and does not notify about partial matches, i.e. the ZIP files orange en blue ' DFWRS 2006 Forensic Challenge' images were not extracted.

Being able to carve fragmented files will improve carving tools significantly. However this is an area that would require a lot of research and remains tricky. One has to know for certain that a multiple fragments belong together.

- For the humans this mainly is no problem, because of their knowledge of language they can determine if text files belong together or not, but to automate this would require some smart techniques. Artificial intelligence and statistical analysis could be promising candidates.
- Other possibilities are to research the amount of fragmentation occurring on certain file system. Perhaps using file system residue, i.e. indirect blocks, as information to provide for linking fragments.

Appendix – Scalpel audit log

```
Scalpel version 1.54 audit file
Started at Fri Jul 7 00:02:33 2006
Command line:
./scalpel -o /forensics/dfrws-2006/scalpel_all /forensics/dfrws-2006/img2.raw

Output directory: /forensics/dfrws-2006/scalpel_all
Configuration file: /usr/local/scalpel-1.54/scalpel.conf

Opening target "/forensics/dfrws-2006/img2.raw"

The following files were carved:
File                Start          Chop          Length        Extracted From
00000005.jpg        5949358        NO            1789          img2.raw
00000004.jpg        5948928        NO            2219          img2.raw
00000003.jpg        4241920        NO            608703        img2.raw
00000002.jpg        1995443        NO            5551          img2.raw
00000001.jpg        1980748        NO            5551          img2.raw
00000000.jpg        1980416        NO            5883          img2.raw
00000025.mov        21131         YES           10000000      img2.raw
00000096.doc        1050112        NO            3027456       img2.raw
00000109.htm        4691           NO            18064         img2.raw
00000110.htm        2271312        NO            33704         img2.raw
00000111.htm        2281535        NO            23481         img2.raw
00000112.pgp        90196          YES           100000        img2.raw
00000113.pgp        182421         YES           100000        img2.raw
00000114.pgp        250480         YES           100000        img2.raw
00000115.pgp        263392         YES           100000        img2.raw
00000116.pgp        320918         YES           100000        img2.raw
00000117.pgp        512738         YES           100000        img2.raw
00000118.pgp        743774         YES           100000        img2.raw
00000119.pgp        924813         YES           100000        img2.raw
00000120.pgp        944519         YES           100000        img2.raw
00000121.pgp        1008634        YES           100000        img2.raw
00000122.pgp        1046362        YES           100000        img2.raw
00000123.pgp        1066567        YES           100000        img2.raw
00000124.pgp        1138246        YES           100000        img2.raw
00000125.pgp        1139371        YES           100000        img2.raw
00000126.pgp        1175702        YES           100000        img2.raw
00000127.pgp        1204503        YES           100000        img2.raw
00000128.pgp        1260666        YES           100000        img2.raw
00000129.pgp        1266533        YES           100000        img2.raw
00000130.pgp        1267344        YES           100000        img2.raw
00000131.pgp        1286712        YES           100000        img2.raw
00000132.pgp        1494162        YES           100000        img2.raw
00000133.pgp        1541575        YES           100000        img2.raw
00000134.pgp        1665198        YES           100000        img2.raw
00000135.pgp        1710752        YES           100000        img2.raw
00000136.pgp        1718492        YES           100000        img2.raw
00000137.pgp        1826410        YES           100000        img2.raw
00000138.pgp        1895921        YES           100000        img2.raw
00000139.pgp        1905305        YES           100000        img2.raw
00000140.pgp        1918560        YES           100000        img2.raw
00000141.pgp        1946363        YES           100000        img2.raw
00000142.pgp        2056302        YES           100000        img2.raw
00000143.pgp        2125704        YES           100000        img2.raw
00000144.pgp        2221997        YES           100000        img2.raw
00000145.pgp        2381503        YES           100000        img2.raw
00000146.pgp        2391886        YES           100000        img2.raw
00000147.pgp        2416735        YES           100000        img2.raw
00000148.pgp        2429252        YES           100000        img2.raw
00000149.pgp        2497057        YES           100000        img2.raw
00000150.pgp        2526708        YES           100000        img2.raw
00000151.pgp        2633980        YES           100000        img2.raw
00000152.pgp        2709011        YES           100000        img2.raw
00000153.pgp        2732089        YES           100000        img2.raw
00000154.pgp        2765004        YES           100000        img2.raw
00000155.pgp        2876459        YES           100000        img2.raw
```


00000156.pgp	2896148	YES	100000	img2.raw
00000157.pgp	2896199	YES	100000	img2.raw
00000158.pgp	2905633	YES	100000	img2.raw
00000159.pgp	3006149	YES	100000	img2.raw
00000160.pgp	3013388	YES	100000	img2.raw
00000161.pgp	3154161	YES	100000	img2.raw
00000162.pgp	3195598	YES	100000	img2.raw
00000163.pgp	3250046	YES	100000	img2.raw
00000164.pgp	3315912	YES	100000	img2.raw
00000165.pgp	3330055	YES	100000	img2.raw
00000166.pgp	3361610	YES	100000	img2.raw
00000167.pgp	3431281	YES	100000	img2.raw
00000168.pgp	3651879	YES	100000	img2.raw
00000169.pgp	3723563	YES	100000	img2.raw
00000170.pgp	3765896	YES	100000	img2.raw
00000171.pgp	3779670	YES	100000	img2.raw
00000172.pgp	3904136	YES	100000	img2.raw
00000173.pgp	3996953	YES	100000	img2.raw
00000174.pgp	4073912	YES	100000	img2.raw
00000175.pgp	4099522	YES	100000	img2.raw
00000176.pgp	4099662	YES	100000	img2.raw
00000177.pgp	4140128	YES	100000	img2.raw
00000178.pgp	4146313	YES	100000	img2.raw
00000179.pgp	4147089	YES	100000	img2.raw
00000180.pgp	4226819	YES	100000	img2.raw
00000181.pgp	4271123	YES	100000	img2.raw
00000182.pgp	4324787	YES	100000	img2.raw
00000183.pgp	4387032	YES	100000	img2.raw
00000184.pgp	4545598	YES	100000	img2.raw
00000185.pgp	4583185	YES	100000	img2.raw
00000186.pgp	4609012	YES	100000	img2.raw
00000187.pgp	4614783	YES	100000	img2.raw
00000188.pgp	4671878	YES	100000	img2.raw
00000189.pgp	4743259	YES	100000	img2.raw
00000190.pgp	4768248	YES	100000	img2.raw
00000191.pgp	4920026	YES	100000	img2.raw
00000192.pgp	4937977	YES	100000	img2.raw
00000193.pgp	4989287	YES	100000	img2.raw
00000194.pgp	4989944	YES	100000	img2.raw
00000195.pgp	5043568	YES	100000	img2.raw
00000196.pgp	5066936	YES	100000	img2.raw
00000197.pgp	5105045	YES	100000	img2.raw
00000198.pgp	5105702	YES	100000	img2.raw
00000199.pgp	5525491	YES	100000	img2.raw
00000200.pgp	5588138	YES	100000	img2.raw
00000201.pgp	5637707	YES	100000	img2.raw
00000202.pgp	5702697	YES	100000	img2.raw
00000203.pgp	5806208	YES	100000	img2.raw
00000204.pgp	5923381	YES	100000	img2.raw
00000205.pgp	5951753	YES	100000	img2.raw
00000206.pgp	5976911	YES	100000	img2.raw
00000207.pgp	5978151	YES	100000	img2.raw
00000208.pgp	5988712	YES	100000	img2.raw
00000209.pgp	6003517	YES	100000	img2.raw
00000210.pgp	6024968	YES	100000	img2.raw
00000211.pgp	6067891	YES	100000	img2.raw
00000212.pgp	6070426	YES	100000	img2.raw
00000213.pgp	6180008	YES	100000	img2.raw
00000214.pgp	6222321	YES	100000	img2.raw
00000215.pgp	8177314	YES	100000	img2.raw
00000216.pgp	9051476	YES	100000	img2.raw
00000217.pgp	9118708	YES	100000	img2.raw
00000218.pgp	9121374	YES	100000	img2.raw
00000219.pgp	9157287	YES	100000	img2.raw
00000220.pgp	9602421	YES	100000	img2.raw
00001347.pgp	84379	YES	100000	img2.raw
00001348.pgp	207362	YES	100000	img2.raw
00001349.pgp	313487	YES	100000	img2.raw
00001350.pgp	376510	YES	100000	img2.raw
00001351.pgp	498315	YES	100000	img2.raw
00001352.pgp	510090	YES	100000	img2.raw

00001353.pgp	727133	YES	100000	img2.raw
00001354.pgp	732760	YES	100000	img2.raw
00001355.pgp	848260	YES	100000	img2.raw
00001356.pgp	888399	YES	100000	img2.raw
00001357.pgp	905004	YES	100000	img2.raw
00001358.pgp	947265	YES	100000	img2.raw
00001359.pgp	950263	YES	100000	img2.raw
00001360.pgp	959290	YES	100000	img2.raw
00001361.pgp	1042234	YES	100000	img2.raw
00001362.pgp	1044008	YES	100000	img2.raw
00001363.pgp	1147439	YES	100000	img2.raw
00001364.pgp	1160360	YES	100000	img2.raw
00001365.pgp	1167806	YES	100000	img2.raw
00001366.pgp	1184185	YES	100000	img2.raw
00001367.pgp	1187353	YES	100000	img2.raw
00001368.pgp	1189886	YES	100000	img2.raw
00001369.pgp	1197918	YES	100000	img2.raw
00001370.pgp	1198634	YES	100000	img2.raw
00001371.pgp	1207205	YES	100000	img2.raw
00001372.pgp	1207742	YES	100000	img2.raw
00001373.pgp	1215077	YES	100000	img2.raw
00001374.pgp	1215515	YES	100000	img2.raw
00001375.pgp	1224922	YES	100000	img2.raw
00001376.pgp	1227702	YES	100000	img2.raw
00001377.pgp	1227831	YES	100000	img2.raw
00001378.pgp	1232186	YES	100000	img2.raw
00001379.pgp	1232335	YES	100000	img2.raw
00001380.pgp	1249898	YES	100000	img2.raw
00001381.pgp	1250087	YES	100000	img2.raw
00001382.pgp	1252646	YES	100000	img2.raw
00001383.pgp	1256671	YES	100000	img2.raw
00001384.pgp	1269834	YES	100000	img2.raw
00001385.pgp	1280745	YES	100000	img2.raw
00001386.pgp	1293459	YES	100000	img2.raw
00001387.pgp	1309473	YES	100000	img2.raw
00001388.pgp	1314739	YES	100000	img2.raw
00001389.pgp	1320372	YES	100000	img2.raw
00001390.pgp	1328904	YES	100000	img2.raw
00001391.pgp	1338883	YES	100000	img2.raw
00001392.pgp	1344805	YES	100000	img2.raw
00001393.pgp	1361694	YES	100000	img2.raw
00001394.pgp	1363471	YES	100000	img2.raw
00001395.pgp	1364314	YES	100000	img2.raw
00001396.pgp	1376811	YES	100000	img2.raw
00001397.pgp	1388138	YES	100000	img2.raw
00001398.pgp	1395052	YES	100000	img2.raw
00001399.pgp	1398120	YES	100000	img2.raw
00001400.pgp	1400831	YES	100000	img2.raw
00001401.pgp	1408172	YES	100000	img2.raw
00001402.pgp	1415089	YES	100000	img2.raw
00001403.pgp	1420009	YES	100000	img2.raw
00001404.pgp	1422656	YES	100000	img2.raw
00001405.pgp	1424386	YES	100000	img2.raw
00001406.pgp	1433778	YES	100000	img2.raw
00001407.pgp	1444235	YES	100000	img2.raw
00001408.pgp	1446884	YES	100000	img2.raw
00001409.pgp	1454527	YES	100000	img2.raw
00001410.pgp	1461726	YES	100000	img2.raw
00001411.pgp	1463297	YES	100000	img2.raw
00001412.pgp	1475167	YES	100000	img2.raw
00001413.pgp	1480551	YES	100000	img2.raw
00001414.pgp	1487173	YES	100000	img2.raw
00001415.pgp	1500823	YES	100000	img2.raw
00001416.pgp	1501029	YES	100000	img2.raw
00001417.pgp	1505233	YES	100000	img2.raw
00001418.pgp	1508285	YES	100000	img2.raw
00001419.pgp	1513383	YES	100000	img2.raw
00001420.pgp	1516317	YES	100000	img2.raw
00001421.pgp	1531935	YES	100000	img2.raw
00001422.pgp	1532239	YES	100000	img2.raw
00001423.pgp	1538197	YES	100000	img2.raw

00001424.pgp	1539613	YES	100000	img2.raw
00001425.pgp	1547801	YES	100000	img2.raw
00001426.pgp	1569209	YES	100000	img2.raw
00001427.pgp	1573827	YES	100000	img2.raw
00001428.pgp	1577567	YES	100000	img2.raw
00001429.pgp	1578925	YES	100000	img2.raw
00001430.pgp	1594891	YES	100000	img2.raw
00001431.pgp	1601021	YES	100000	img2.raw
00001432.pgp	1603945	YES	100000	img2.raw
00001433.pgp	1607765	YES	100000	img2.raw
00001434.pgp	1608355	YES	100000	img2.raw
00001435.pgp	1612233	YES	100000	img2.raw
00001436.pgp	1613767	YES	100000	img2.raw
00001437.pgp	1614023	YES	100000	img2.raw
00001438.pgp	1614829	YES	100000	img2.raw
00001439.pgp	1616033	YES	100000	img2.raw
00001440.pgp	1616239	YES	100000	img2.raw
00001441.pgp	1619880	YES	100000	img2.raw
00001442.pgp	1621975	YES	100000	img2.raw
00001443.pgp	1622763	YES	100000	img2.raw
00001444.pgp	1626641	YES	100000	img2.raw
00001445.pgp	1634211	YES	100000	img2.raw
00001446.pgp	1640813	YES	100000	img2.raw
00001447.pgp	1642101	YES	100000	img2.raw
00001448.pgp	1645665	YES	100000	img2.raw
00001449.pgp	1654453	YES	100000	img2.raw
00001450.pgp	1659139	YES	100000	img2.raw
00001451.pgp	1659689	YES	100000	img2.raw
00001452.pgp	1664137	YES	100000	img2.raw
00001453.pgp	1670429	YES	100000	img2.raw
00001454.pgp	1670479	YES	100000	img2.raw
00001455.pgp	1685467	YES	100000	img2.raw
00001456.pgp	1694167	YES	100000	img2.raw
00001457.pgp	1698577	YES	100000	img2.raw
00001458.pgp	1706815	YES	100000	img2.raw
00001459.pgp	1708723	YES	100000	img2.raw
00001460.pgp	1715359	YES	100000	img2.raw
00001461.pgp	1716185	YES	100000	img2.raw
00001462.pgp	1720741	YES	100000	img2.raw
00001463.pgp	1728271	YES	100000	img2.raw
00001464.pgp	1728557	YES	100000	img2.raw
00001465.pgp	1733301	YES	100000	img2.raw
00001466.pgp	1733547	YES	100000	img2.raw
00001467.pgp	1743329	YES	100000	img2.raw
00001468.pgp	1745079	YES	100000	img2.raw
00001469.pgp	1748849	YES	100000	img2.raw
00001470.pgp	1761419	YES	100000	img2.raw
00001471.pgp	1762363	YES	100000	img2.raw
00001472.pgp	1762923	YES	100000	img2.raw
00001473.pgp	1776593	YES	100000	img2.raw
00001474.pgp	1779587	YES	100000	img2.raw
00001475.pgp	1780383	YES	100000	img2.raw
00001476.pgp	1786479	YES	100000	img2.raw
00001477.pgp	1786921	YES	100000	img2.raw
00001478.pgp	1791045	YES	100000	img2.raw
00001479.pgp	1797732	YES	100000	img2.raw
00001480.pgp	1802381	YES	100000	img2.raw
00001481.pgp	1812399	YES	100000	img2.raw
00001482.pgp	1812595	YES	100000	img2.raw
00001483.pgp	1820471	YES	100000	img2.raw
00001484.pgp	1820825	YES	100000	img2.raw
00001485.pgp	1821277	YES	100000	img2.raw
00001486.pgp	1833895	YES	100000	img2.raw
00001487.pgp	1841259	YES	100000	img2.raw
00001488.pgp	1859565	YES	100000	img2.raw
00001489.pgp	1859761	YES	100000	img2.raw
00001490.pgp	1866373	YES	100000	img2.raw
00001491.pgp	1868933	YES	100000	img2.raw
00001492.pgp	1872891	YES	100000	img2.raw
00001493.pgp	1873127	YES	100000	img2.raw
00001494.pgp	1873953	YES	100000	img2.raw

00001495.pgp	1879443	YES	100000	img2.raw
00001496.pgp	1883981	YES	100000	img2.raw
00001497.pgp	1891453	YES	100000	img2.raw
00001498.pgp	1919568	YES	100000	img2.raw
00001499.pgp	2131960	YES	100000	img2.raw
00001500.pgp	2198630	YES	100000	img2.raw
00001501.pgp	2215816	YES	100000	img2.raw
00001502.pgp	2362051	YES	100000	img2.raw
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00002956.pgp	46269855	YES	100000	img2.raw
00002957.pgp	46365076	YES	100000	img2.raw
00002958.pgp	46384144	YES	100000	img2.raw
00002959.pgp	46402296	YES	100000	img2.raw
00002960.pgp	46423411	YES	100000	img2.raw

00002961.pgp	46479363	YES	100000	img2.raw
00002962.pgp	46517793	YES	100000	img2.raw
00002963.pgp	46630094	YES	100000	img2.raw
00002964.pgp	46631533	YES	100000	img2.raw
00002965.pgp	46650953	YES	100000	img2.raw
00002966.pgp	46675585	YES	100000	img2.raw
00002967.pgp	46704623	YES	100000	img2.raw
00002968.pgp	46710271	YES	100000	img2.raw
00002969.pgp	46719862	YES	100000	img2.raw
00002970.pgp	46842869	YES	100000	img2.raw
00002971.pgp	46858716	YES	100000	img2.raw
00002972.pgp	46871994	YES	100000	img2.raw
00002973.pgp	46882609	YES	100000	img2.raw
00002974.pgp	46906529	YES	100000	img2.raw
00002975.pgp	46917961	YES	100000	img2.raw
00002976.pgp	46955142	YES	100000	img2.raw
00002977.pgp	47265720	YES	100000	img2.raw
00002978.pgp	47269410	YES	100000	img2.raw
00002979.pgp	47281120	YES	100000	img2.raw
00002980.pgp	47424791	YES	100000	img2.raw
00002981.pgp	47437403	YES	100000	img2.raw
00002982.pgp	47523825	YES	100000	img2.raw
00002983.pgp	47570798	YES	100000	img2.raw
00002984.pgp	47584605	YES	100000	img2.raw
00002985.pgp	47594455	YES	100000	img2.raw
00002986.pgp	47718013	YES	100000	img2.raw
00002987.pgp	47745276	YES	100000	img2.raw
00002988.pgp	47759891	YES	100000	img2.raw
00002989.pgp	47796114	YES	100000	img2.raw
00002990.pgp	47806627	YES	100000	img2.raw
00002991.pgp	47812695	YES	100000	img2.raw
00002992.pgp	47814020	YES	100000	img2.raw
00002993.pgp	47849436	YES	100000	img2.raw
00002994.pgp	47870465	YES	100000	img2.raw
00002995.pgp	48068450	YES	100000	img2.raw
00002996.pgp	48138879	YES	100000	img2.raw
00002997.pgp	48150673	YES	100000	img2.raw
00002998.pgp	48153563	YES	100000	img2.raw
00002999.pgp	48192968	YES	100000	img2.raw
00003000.pgp	48235422	YES	100000	img2.raw
00003001.pgp	48258880	YES	100000	img2.raw
00003002.pgp	48260879	YES	100000	img2.raw
00003003.pgp	48338440	YES	100000	img2.raw
00003004.pgp	48349027	YES	100000	img2.raw
00003005.pgp	48443493	YES	100000	img2.raw
00003006.pgp	48449699	YES	100000	img2.raw
00003007.pgp	48517916	YES	100000	img2.raw
00003008.pgp	48548617	YES	100000	img2.raw
00003009.pgp	48558859	YES	100000	img2.raw
00003010.pgp	48666678	YES	100000	img2.raw
00003011.pgp	48880519	YES	100000	img2.raw
00003012.pgp	49026051	YES	100000	img2.raw
00003013.pgp	49517230	YES	100000	img2.raw
00003014.pgp	49608517	YES	100000	img2.raw
00003015.pgp	49642877	YES	100000	img2.raw
00003016.pgp	49687090	YES	100000	img2.raw
00003017.pgp	49752698	YES	100000	img2.raw
00003018.pgp	49930263	YES	69610	img2.raw
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00003796.rpm	42056271	YES	1000000	img2.raw
00003797.rpm	42075471	YES	1000000	img2.raw
00003798.rpm	42113217	YES	1000000	img2.raw
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00003801.rpm	42197578	YES	1000000	img2.raw
00003802.rpm	42233901	YES	1000000	img2.raw
00003803.rpm	42240162	YES	1000000	img2.raw
00003804.rpm	42246889	YES	1000000	img2.raw

00003805.rpm	42297378	YES	1000000	img2.raw
00003806.rpm	42297518	YES	1000000	img2.raw
00003807.rpm	42302042	YES	1000000	img2.raw
00003808.rpm	42326605	YES	1000000	img2.raw
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00003812.rpm	42398225	YES	1000000	img2.raw
00003813.rpm	42412219	YES	1000000	img2.raw
00003814.rpm	42427268	YES	1000000	img2.raw
00003815.rpm	42431659	YES	1000000	img2.raw
00003816.rpm	42461745	YES	1000000	img2.raw
00003817.rpm	42505191	YES	1000000	img2.raw
00003818.rpm	42522446	YES	1000000	img2.raw
00003819.rpm	42535397	YES	1000000	img2.raw
00003820.rpm	42570946	YES	1000000	img2.raw
00003821.rpm	42599931	YES	1000000	img2.raw
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00003823.rpm	42617849	YES	1000000	img2.raw
00003824.rpm	42618844	YES	1000000	img2.raw
00003825.rpm	42630151	YES	1000000	img2.raw
00003826.rpm	42655231	YES	1000000	img2.raw
00003827.rpm	42659594	YES	1000000	img2.raw
00003828.rpm	42666291	YES	1000000	img2.raw
00003829.rpm	42670415	YES	1000000	img2.raw
00003830.rpm	42709232	YES	1000000	img2.raw
00003831.rpm	42727638	YES	1000000	img2.raw
00003832.rpm	42756393	YES	1000000	img2.raw
00003833.rpm	42817387	YES	1000000	img2.raw
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00003835.rpm	42879729	YES	1000000	img2.raw
00003836.rpm	42902080	YES	1000000	img2.raw
00003837.rpm	42902761	YES	1000000	img2.raw
00003838.rpm	42914904	YES	1000000	img2.raw
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00003841.rpm	43022818	YES	1000000	img2.raw
00003842.rpm	43085393	YES	1000000	img2.raw
00003843.rpm	43090059	YES	1000000	img2.raw
00003844.rpm	43133584	YES	1000000	img2.raw
00003845.rpm	43151471	YES	1000000	img2.raw
00003846.rpm	43179464	YES	1000000	img2.raw
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00003852.rpm	43318013	YES	1000000	img2.raw
00003853.rpm	43323419	YES	1000000	img2.raw
00003854.rpm	43327303	YES	1000000	img2.raw
00003855.rpm	43345102	YES	1000000	img2.raw
00003856.rpm	43380721	YES	1000000	img2.raw
00003857.rpm	43381549	YES	1000000	img2.raw
00003858.rpm	43398427	YES	1000000	img2.raw
00003859.rpm	43411744	YES	1000000	img2.raw
00003860.rpm	43425303	YES	1000000	img2.raw
00003861.rpm	43442518	YES	1000000	img2.raw
00003862.rpm	43474225	YES	1000000	img2.raw
00003863.rpm	43474495	YES	1000000	img2.raw
00003864.rpm	43505020	YES	1000000	img2.raw
00003865.rpm	43522856	YES	1000000	img2.raw
00003866.rpm	43527472	YES	1000000	img2.raw
00003867.rpm	43578921	YES	1000000	img2.raw
00003868.rpm	43587986	YES	1000000	img2.raw
00003869.rpm	43599885	YES	1000000	img2.raw
00003870.rpm	43605164	YES	1000000	img2.raw
00003871.rpm	43700104	YES	1000000	img2.raw
00003872.rpm	43705795	YES	1000000	img2.raw
00003873.rpm	43718145	YES	1000000	img2.raw
00003874.rpm	43781486	YES	1000000	img2.raw
00003875.rpm	43805197	YES	1000000	img2.raw

00003876.rpm	43815062	YES	1000000	img2.raw
00003877.rpm	43819215	YES	1000000	img2.raw
00003878.rpm	43837866	YES	1000000	img2.raw
00003879.rpm	43857419	YES	1000000	img2.raw
00003880.rpm	43881011	YES	1000000	img2.raw
00003881.rpm	43887498	YES	1000000	img2.raw
00003882.rpm	43924616	YES	1000000	img2.raw
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00003890.rpm	44120609	YES	1000000	img2.raw
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00003893.rpm	44162596	YES	1000000	img2.raw
00003894.rpm	44184758	YES	1000000	img2.raw
00003895.rpm	44254592	YES	1000000	img2.raw
00003896.rpm	44260992	YES	1000000	img2.raw
00003897.rpm	44266712	YES	1000000	img2.raw
00003898.rpm	44314854	YES	1000000	img2.raw
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00003917.rpm	45025729	YES	1000000	img2.raw
00003918.rpm	45114601	YES	1000000	img2.raw
00003919.rpm	45119737	YES	1000000	img2.raw
00003920.rpm	45131979	YES	1000000	img2.raw
00003921.rpm	45154875	YES	1000000	img2.raw
00003922.rpm	45155705	YES	1000000	img2.raw
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00003930.rpm	45432840	YES	1000000	img2.raw
00003931.rpm	45449256	YES	1000000	img2.raw
00003932.rpm	45520448	YES	1000000	img2.raw
00003933.rpm	45546174	YES	1000000	img2.raw
00003934.rpm	45601519	YES	1000000	img2.raw
00003935.rpm	45639894	YES	1000000	img2.raw
00003936.rpm	45703658	YES	1000000	img2.raw
00003937.rpm	45724640	YES	1000000	img2.raw
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00003942.rpm	45968535	YES	1000000	img2.raw
00003943.rpm	45994669	YES	1000000	img2.raw
00003944.rpm	46025041	YES	1000000	img2.raw
00003945.rpm	46047584	YES	1000000	img2.raw
00003946.rpm	46107786	YES	1000000	img2.raw

00003947.rpm	46149122	YES	1000000	img2.raw
00003948.rpm	46205843	YES	1000000	img2.raw
00003949.rpm	46237516	YES	1000000	img2.raw
00003950.rpm	46297331	YES	1000000	img2.raw
00003951.rpm	46303029	YES	1000000	img2.raw
00003952.rpm	46305872	YES	1000000	img2.raw
00003953.rpm	46324017	YES	1000000	img2.raw
00003954.rpm	46332387	YES	1000000	img2.raw
00003955.rpm	46386051	YES	1000000	img2.raw
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00003963.rpm	46658602	YES	1000000	img2.raw
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00003965.rpm	46691861	YES	1000000	img2.raw
00003966.rpm	46702424	YES	1000000	img2.raw
00003967.rpm	46737332	YES	1000000	img2.raw
00003968.rpm	46794248	YES	1000000	img2.raw
00003969.rpm	46806740	YES	1000000	img2.raw
00003970.rpm	46821178	YES	1000000	img2.raw
00003971.rpm	46828862	YES	1000000	img2.raw
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00003973.rpm	46871046	YES	1000000	img2.raw
00003974.rpm	46900207	YES	1000000	img2.raw
00003975.rpm	46909529	YES	1000000	img2.raw
00003976.rpm	46969372	YES	1000000	img2.raw
00003977.rpm	46987260	YES	1000000	img2.raw
00003978.rpm	47037164	YES	1000000	img2.raw
00003979.rpm	47061375	YES	1000000	img2.raw
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00003989.rpm	47289883	YES	1000000	img2.raw
00003990.rpm	47290503	YES	1000000	img2.raw
00003991.rpm	47297353	YES	1000000	img2.raw
00003992.rpm	47352195	YES	1000000	img2.raw
00003993.rpm	47368873	YES	1000000	img2.raw
00003994.rpm	47385410	YES	1000000	img2.raw
00003995.rpm	47461816	YES	1000000	img2.raw
00003996.rpm	47467380	YES	1000000	img2.raw
00003997.rpm	47512230	YES	1000000	img2.raw
00003998.rpm	47523848	YES	1000000	img2.raw
00003999.rpm	47593327	YES	1000000	img2.raw
00004000.rpm	47612299	YES	1000000	img2.raw
00004001.rpm	47615050	YES	1000000	img2.raw
00004002.rpm	47635624	YES	1000000	img2.raw
00004003.rpm	47692140	YES	1000000	img2.raw
00004004.rpm	47728494	YES	1000000	img2.raw
00004005.rpm	47754763	YES	1000000	img2.raw
00004006.rpm	47789022	YES	1000000	img2.raw
00004007.rpm	47813917	YES	1000000	img2.raw
00004008.rpm	47825560	YES	1000000	img2.raw
00004009.rpm	47845117	YES	1000000	img2.raw
00004010.rpm	47859531	YES	1000000	img2.raw
00004011.rpm	47888814	YES	1000000	img2.raw
00004012.rpm	47889771	YES	1000000	img2.raw
00004013.rpm	47891321	YES	1000000	img2.raw
00004014.rpm	47903602	YES	1000000	img2.raw
00004015.rpm	47941908	YES	1000000	img2.raw
00004016.rpm	47949288	YES	1000000	img2.raw
00004017.rpm	47954237	YES	1000000	img2.raw

00004018.rpm	47967624	YES	1000000	img2.raw
00004019.rpm	47976313	YES	1000000	img2.raw
00004020.rpm	47977300	YES	1000000	img2.raw
00004021.rpm	47981925	YES	1000000	img2.raw
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00004026.rpm	48113109	YES	1000000	img2.raw
00004027.rpm	48154756	YES	1000000	img2.raw
00004028.rpm	48281560	YES	1000000	img2.raw
00004029.rpm	48337104	YES	1000000	img2.raw
00004030.rpm	48343162	YES	1000000	img2.raw
00004031.rpm	48356258	YES	1000000	img2.raw
00004032.rpm	48372459	YES	1000000	img2.raw
00004033.rpm	48392965	YES	1000000	img2.raw
00004034.rpm	48426651	YES	1000000	img2.raw
00004035.rpm	48465529	YES	1000000	img2.raw
00004036.rpm	48465839	YES	1000000	img2.raw
00004037.rpm	48518381	YES	1000000	img2.raw
00004038.rpm	48519757	YES	1000000	img2.raw
00004039.rpm	48527561	YES	1000000	img2.raw
00004040.rpm	48540814	YES	1000000	img2.raw
00004041.rpm	48594937	YES	1000000	img2.raw
00004042.rpm	48599699	YES	1000000	img2.raw
00004043.rpm	48599878	YES	1000000	img2.raw
00004044.rpm	48639941	YES	1000000	img2.raw
00004045.rpm	48676445	YES	1000000	img2.raw
00004046.rpm	48705807	YES	1000000	img2.raw
00004047.rpm	48718470	YES	1000000	img2.raw
00004048.rpm	48747157	YES	1000000	img2.raw
00004049.rpm	48765143	YES	1000000	img2.raw
00004050.rpm	48813039	YES	1000000	img2.raw
00004051.rpm	48835479	YES	1000000	img2.raw
00004052.rpm	48838312	YES	1000000	img2.raw
00004053.rpm	48868039	YES	1000000	img2.raw
00004054.rpm	48868085	YES	1000000	img2.raw
00004055.rpm	48870369	YES	1000000	img2.raw
00004056.rpm	48874749	YES	1000000	img2.raw
00004057.rpm	48890177	YES	1000000	img2.raw
00004058.rpm	48897180	YES	1000000	img2.raw
00004059.rpm	48913987	YES	1000000	img2.raw
00004060.rpm	48960204	YES	1000000	img2.raw
00004061.rpm	49064147	YES	935726	img2.raw
00004062.rpm	49079759	YES	920114	img2.raw
00004063.rpm	49267321	YES	732552	img2.raw
00004064.rpm	49274176	YES	725697	img2.raw
00004065.rpm	49281688	YES	718185	img2.raw
00004066.rpm	49304969	YES	694904	img2.raw
00004067.rpm	49305139	YES	694734	img2.raw
00004068.rpm	49343210	YES	656663	img2.raw
00004069.rpm	49357859	YES	642014	img2.raw
00004070.rpm	49390299	YES	609574	img2.raw
00004071.rpm	49394156	YES	605717	img2.raw
00004072.rpm	49439096	YES	560777	img2.raw
00004073.rpm	49467149	YES	532724	img2.raw
00004074.rpm	49489812	YES	510061	img2.raw
00004075.rpm	49520697	YES	479176	img2.raw
00004076.rpm	49635760	YES	364113	img2.raw
00004077.rpm	49793204	YES	206669	img2.raw

Completed at Fri Jul 7 00:03:33 2006

Appendix – Foremost audit log

Foremost version 1.2 by Jesse Kornblum, Kris Kendall, and Nick Mikus
Audit File

Foremost started at Sat Jul 8 23:22:14 2006
Invocation: ./foremost -t all /forensics/dfrws-2006/img2.raw -o /forensics/dfrws-2006/foremost
Output directory: /forensics/dfrws-2006/foremost
Configuration file: /usr/local/foremost-1.2/foremost.conf

File: /forensics/dfrws-2006/img2.raw
Start: Sat Jul 8 23:22:14 2006
Length: 47 MB (49999872 bytes)

Num	Name (bs=512)	Size	File Offset	Comment
0:	3868.jpg	280 KB	1980416	
1:	8285.jpg	594 KB	4241920	
2:	11619.jpg	199 KB	5948928	
3:	27607.jpg	185 KB	14134784	
4:	31475.jpg	206 KB	16115200	
5:	36292.jpg	174 KB	18581504	
6:	40638.jpg	292 KB	20806656	
7:	41611.jpg	1 MB	21304832	
8:	45566.jpg	630 KB	23329792	
9:	94846.jpg	391 KB	48561152	
10:	9.htm	17 KB	4691	
11:	4456.htm	22 KB	2281535	
12:	27496.htm	349 KB	14078061	
13:	28244.htm	50 KB	14460928	
14:	29529.htm	183 KB	15118957	
15:	32837.doc	282 KB	16812544	
16:	45964.doc	71 KB	23533568	
17:	7982.png	6 KB	4086865	(1408 x 1800)
18:	33012.png	69 KB	16902215	(1052 x 360)
19:	35391.png	19 KB	18120696	(879 x 499)
20:	35431.png	72 KB	18140936	(1140 x 540)

Finish: Sat Jul 8 23:22:21 2006

21 FILES EXTRACTED

jpg:= 10
htm:= 5
ole:= 2
png:= 4

Foremost finished at Sat Jul 8 23:22:21 2006

Appendix – FTK results

File Name	Full Path	Recycle Bin	Original Name	Ext	File Type	Category	Enc		
Subject	Cr Date	Mod Date	Acc Date	L-Size	P-Size	Children	Descendants		
Del	Recyc	Crv	Idx	Sector	Cluster	Alt Name	Sys	Hid	
Item #	Cmp	KFF	Badxt	Emailed	Header	MD5 Hash	SHA1 Hash	Hash Set	
Email	Date	From	To	CC	Attachment	Info			
CompObjD:\dfrws-2006-challenge.raw_1>>OLE_16812544[4]>>CompObj	Unknown	N/A	N/A	N/A	106	524288	0	OLE Stream	
Full							0	Y	
0100FEFF030A0000			N/A	N/A			37	N/A	
CompObjD:\dfrws-2006-challenge.raw_1>>OLE_23533568[4]>>CompObj	Unknown	N/A	N/A	N/A	106	131072	0	OLE Stream	
Full							0	Y	
0100FEFF030A0000			N/A	N/A			44	N/A	
DocumentSummaryInformation			D:\dfrws-2006-challenge.raw_1>>OLE_16812544[4]>>DocumentSummaryInformation					Office Document	
Summary Info	Other		N/A	N/A	N/A	1292	524288	0	0
Y	Full						40	N/A	
FEFF000005010200			N/A	N/A					
DocumentSummaryInformation			D:\dfrws-2006-challenge.raw_1>>OLE_23533568[4]>>DocumentSummaryInformation					Office Document	
Summary Info	Other		N/A	N/A	N/A	4096	131072	0	0
Y	Full						47	N/A	
FEFF000005010200			N/A	N/A					
SummaryInformation			D:\dfrws-2006-challenge.raw_1>>OLE_16812544[4]>>SummaryInformation						
OLE 2 Summary Information	Other		N/A	N/A	N/A	4096	524288	0	0
	Y							0	
	Full							39	
N/A			FEFF000005010200		N/A	N/A			
SummaryInformation			D:\dfrws-2006-challenge.raw_1>>OLE_23533568[4]>>SummaryInformation						
OLE 2 Summary Information	Other		N/A	N/A	N/A	4096	131072	0	0
	Y							0	
	Full							46	
N/A			FEFF000005010200		N/A	N/A			
1Table	D:\dfrws-2006-challenge.raw_1>>OLE_16812544[4]>>1Table							OLE Stream	
Unknown		N/A	N/A	N/A	87249	524288	0	Y	
Full							36		
14001B0012000100			N/A	N/A				N/A	
1Table	D:\dfrws-2006-challenge.raw_1>>OLE_23533568[4]>>1Table							OLE Stream	
Unknown		N/A	N/A	N/A	18134	131072	0	Y	
Full							43		
1400110012000100			N/A	N/A				N/A	
BMP_18488027[4].bmp	D:\dfrws-2006-challenge.raw_1>>BMP_18488027[4].bmp							bmp	Bitmap
File	Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:41:30	1889				
1889	0	0		Y	Y	8	Y	Name only (disregardable file type)	
			Y	Y	Y	Y	OK		
			424D610700000000	EEB0166C7A2C50B9BE82E3669CF59F80					
			C2EE5ED69EFF77D867E8FC1A9BF5A798E091BC73						
Data	D:\dfrws-2006-challenge.raw_1>>OLE_16812544[4]>>Data							OLE Stream	
Unknown		N/A	N/A	N/A	22037	524288	0	Y	
Full							35		
B300000044000000			N/A	N/A				N/A	
Data	D:\dfrws-2006-challenge.raw_1>>OLE_23533568[4]>>Data							OLE Stream	
Unknown		N/A	N/A	N/A	7975	131072	0	Y	
Full							42		
C200162401172401			N/A	N/A				N/A	
dfrws-2006-challenge.raw_1	D:\dfrws-2006-challenge.raw_1							raw	Unknown File Type
Unknown		4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:41:02	26214400				
49999872	26	26							
		4		OK					
			BD09D612FC8B3F92662B98F9456F2ADA	E85A1907C5A1101289384226714F7E53952B56AD					
dfrws-2006-challenge.raw_2	D:\dfrws-2006-challenge.raw_2							raw	Unknown File Type
Unknown		4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:41:02	23785472				
49999872	2	2							
		7		OK					
			BD09D612FC8B3F92662B98F9456F2ADA	E85A1907C5A1101289384226714F7E53952B56AD					

HTML_14078061[4].htm		D:\dfrws-2006-challenge.raw_1>>HTML_14078061[4].htm				htm	Hypertext
Document	Document	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:43:03			
56762	56762	0	0	Full			
Y	Y	Y	31	Y	OK	3C68746D6C3E0A20	
BEEEF45B55A0F8815C7858D5B9F1DD97		D57496FC125F856AAA062895A7405D183CD514F9					
HTML_14460928[4].htm		D:\dfrws-2006-challenge.raw_1>>HTML_14460928[4].htm				htm	Hypertext
Document	Document	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:43:03			
31967	31967	0	0	Full			
Y	Y	Y	32	Y	OK	3C68746D6C3E3C68	
F1E9622A7D8B0D86A30D0880A92D3FF2		BD62E91FED409A5AD1F8CD407BD1C651C801D5C4					
HTML_15118957[4].htm		D:\dfrws-2006-challenge.raw_1>>HTML_15118957[4].htm				htm	Hypertext
Document	Document	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:43:03			
187684	187684	0	0	Full			
Y	Y	Y	33	Y	OK	3C68746D6C3E0A20	
9736D2CF82FC7B6B4C164D7FDF7CA05E		94153498757FD53D3844D6F6835B90967F482EAD					
HTML_2271312[4].htm		D:\dfrws-2006-challenge.raw_1>>HTML_2271312[4].htm				htm	Hypertext
Document	Document	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:43:02			
33704	33704	0	0	Full			
Y	Y	Y	29	Y	OK	3C48544D4C3E0D0A	
18EE229EDCE25B1227991154C465F25A		12C2A533C816273E9246A0E9D8627F0E647545E4					
HTML_2281535[4].htm		D:\dfrws-2006-challenge.raw_1>>HTML_2281535[4].htm				htm	Hypertext
Document	Document	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:43:02			
23481	23481	0	0	Full			
Y	Y	Y	30	Y	OK	3C48544D4C3E0A3C	
A3D9F869A96C4CDC473BB6F5ED4DB844		D5C6C4159507A06A2C73A62672555F11E7B7F164					
HTML_4691[4].htm		D:\dfrws-2006-challenge.raw_1>>HTML_4691[4].htm				htm	Hypertext
Document	Document	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:43:02			
18064	18064	0	0	Full			
Y	Y	Y	28	Y	OK	3C68746D6C20786D	
459A13A017B1E78065F05FB62AA0166F		977A24284C67723BF234A6F5F5C137A08A9A876E					
JPEG_14134784[4].jpg		D:\dfrws-2006-challenge.raw_1>>JPEG_14134784[4].jpg				jpg	JPEG/JFIF
File	Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:42:02			
189534	0	0	Y	Full			189534
Y	Y	16	Y	OK		FFD8FFE000104A46	Y
FE7E7AC67709F2D9C2483AA98C681B99		D51C07C71CFD764A1C63420B9566A22742ABB8DC					
JPEG_16115200[4].jpg		D:\dfrws-2006-challenge.raw_1>>JPEG_16115200[4].jpg				jpg	JPEG/JFIF
File	Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:42:03			
210994	0	0	Y	Full			210994
Y	Y	17	Y	OK		FFD8FFE000104A46	Y
DFF3AB375C6EB0AFB716B043A78CE163		A38AA3C2F437134E80B22AEDA29D5622D0622888					
JPEG_16144896[4].jpg		D:\dfrws-2006-challenge.raw_1>>JPEG_16144896[4].jpg				jpg	JPEG/JFIF
File	Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:42:03			
181298	0	0	Y	Full			181298
Y	Y	18	Y	OK		FFD8FFE000104A46	Y
68E1D7487C38A92CDB69D8DA0DB86DC3		8DCF1B20D97B96586D9391AED96D47D2DF209460					
JPEG_18581504[4].jpg		D:\dfrws-2006-challenge.raw_1>>JPEG_18581504[4].jpg				jpg	JPEG/JFIF
File	Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:42:03			
178659	0	0	Y	Full			178659
Y	Y	19	Y	OK		FFD8FFE000104A46	Y
2FAE8770CC013D22E9EA1C070F2F509B		A683ADDA2942C18431E6CC719008450957697788					
JPEG_1980416[4].jpg		D:\dfrws-2006-challenge.raw_1>>JPEG_1980416[4].jpg				jpg	JPEG/Exif
file	Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:41:30			
655488	0	0	Y	Full			655488
Y	Y	9	Y	OK		FFD8FFE000104A46	Y
30EC84814ABF438829E3EABF5F09D882		55B8CA0B1CD76C458896569F927A819AFD358713					
JPEG_1980748[4].jpg		D:\dfrws-2006-challenge.raw_1>>JPEG_1980748[4].jpg				jpg	JPEG/JFIF
File	Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:41:31			
5551	0	0	Y	Full			5551
Y	Y	10	Y	OK		FFD8FFE000104A46	Primary Y
C1D7C67B0E81F902A2C7ED56651FEE2B		1A89862C52612015400E7418583693C803C0037A					

JPEG_1995443[4].jpg	D:\dfrws-2006-challenge.raw_1>>JPEG_1995443[4].jpg	jpg	JPEG/JFIF
File Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:41:31
5551 0	0	Y	Full
Y Y Y 11 Y	OK	FFD8FFE000104A46	Secondary
C1D7C67B0E81F902A2C7ED56651FEE2B	1A89862C52612015400E7418583693C803C0037A		
JPEG_20806656[4].jpg	D:\dfrws-2006-challenge.raw_1>>JPEG_20806656[4].jpg	jpg	JPEG/JFIF
File Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:42:03
497201 0	0	Y	Full
Y Y Y 20 Y	OK	FFD8FFE000104A46	Y
6C36726BAC843D44FACAEBCBC0C1566D	CAC82FD0A446F199AC7E3485D91924FD9D62ACE4		
JPEG_21304832[4].jpg	D:\dfrws-2006-challenge.raw_1>>JPEG_21304832[4].jpg	jpg	JPEG/JFIF
File Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:42:04
1237789 0	0	Y	Full
Y Y Y 21 Y	OK	FFD8FFE000104A46	Y
EF1ED4078CFC3AA1AE68F82AAD0B6C3D	BA444CB46CDD6768788671DEF8B722679C6DF76B		
JPEG_22238208[4].jpg	D:\dfrws-2006-challenge.raw_1>>JPEG_22238208[4].jpg	jpg	JPEG/JFIF
File Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:42:04
304413 0	0	Y	Full
Y Y Y 22 Y	OK	FFD8FFE000104A46	Y
CODA37B3F1A07AF790E6E9171CEDC4D2	562148FC9F9EED8105D9B03B88A69AE8CC638129		
JPEG_22346752[7].jpg	D:\dfrws-2006-challenge.raw_2>>JPEG_22346752[7].jpg	jpg	JPEG/JFIF
File Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:43:01
1180511 0	0	Y	Full
Y Y Y 26 Y	OK	FFD8FFE000104A46	Y
18C71292E8402C26354EDF20413465EF	B8AED5AD2736C24A4ABEA767ECB4097C60D6D9F8		
JPEG_22347570[7].jpg	D:\dfrws-2006-challenge.raw_2>>JPEG_22347570[7].jpg	jpg	JPEG/JFIF
File Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:43:02
2633 0	0	Y	Full
Y Y Y 27 Y	OK	FFD8FFE000104A46	Y
11DD149A694DF0F1AD47BFFED35FB038	95E5FA174A45EFB391386718DAC7CD159634DD8E		
JPEG_23329792[4].jpg	D:\dfrws-2006-challenge.raw_1>>JPEG_23329792[4].jpg	jpg	JPEG/JFIF
File Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:42:04
2884608 0	0	Y	Full
Y Y Y 23 Y	OK	FFD8FFE000104A46	Y
C78897F074444A97040BA6A4755BC503	FC92F18E5CDF98DD32F326B6DC8E230E1C780FA5		
JPEG_23330000[4].jpg	D:\dfrws-2006-challenge.raw_1>>JPEG_23330000[4].jpg	jpg	JPEG/JFIF
File Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:42:05
6600 0	0	Y	Full
Y Y Y 24 Y	OK	FFD8FFE000104A46	Y
14F703660BDD2798CB08C79EE8597212	4D5A9D8C237D73C98A828A2B5AFF6B0F13962E6D		
JPEG_24017920[4].jpg	D:\dfrws-2006-challenge.raw_1>>JPEG_24017920[4].jpg	jpg	JPEG/Exif
file Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:42:05
2196480 0	0	Y	Full
Y Y Y 25 Y	OK	FFD8FFE000104A46	Y
1E77F670FFA310647DF082F861C57030	524EC7D21E701DAF88DF093820F0489B24AE06D8		
JPEG_4241920[4].jpg	D:\dfrws-2006-challenge.raw_1>>JPEG_4241920[4].jpg	jpg	JPEG/JFIF
File Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:41:31
608703 0	0	Y	Full
Y Y Y 12 Y	OK	FFD8FFE000104A46	Y
4EFC6C572683878EFD8F3404DDADED7B	E997A28E3D6438C777E7122166C64A3A51541E12		
JPEG_5948928[4].jpg	D:\dfrws-2006-challenge.raw_1>>JPEG_5948928[4].jpg	jpg	JPEG/JFIF
File Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:41:31
7422704 0	0	Y	Full
Y Y Y 13 Y	OK	FFD8FFE000104A46	Y
CDFACE33FF240EF775AF3F4C56A975BE	CC0E83CE1D52811147ECD676A6C5639563DB20B		
JPEG_5949358[4].jpg	D:\dfrws-2006-challenge.raw_1>>JPEG_5949358[4].jpg	jpg	JPEG/JFIF
File Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:41:32
1789 0	0	Y	Full
Y Y Y 14 Y	OK	FFD8FFE000104A46	Y

B3F4CCFB61790AB745B39D3945C5FE3F				37ACC8BA24213E0277DE4DA0578C993307087320			
JPEG_6257664[4].jpg	D:\dfrws-2006-challenge.raw_1>>JPEG_6257664[4].jpg			jpg	JPEG/JFIF		
File Graphic	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006 10:41:32	7113968	7113968		
7113968 0	0	Y	Full	Y	Y		
Y Y	15 Y OK	FFD8FFE000104A46					
B070BEAE1606F67A342BC5F78C29C743		34541A233BB7B7FFCCE81E483D3ED9FE0020FFE8					
OLE_16812544[4] D:\dfrws-2006-challenge.raw_1>>OLE_16812544[4]				Microsoft			
Word XP Document	Document	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006			
10:43:03	524288 524288 6 6	Y	Full				
Y Y	Y Y 34	Y OK	DOCF11E0A1B11AE1				
2480ED8F4648DE5D948EC0ACD50DE119		F35A07EC37EB40E1DD4F566E94E088808B48C425					
OLE_23533568[4] D:\dfrws-2006-challenge.raw_1>>OLE_23533568[4]				Microsoft			
Word XP Document	Document	4-7-2006 10:40:35	9-5-2006 10:12:22	4-7-2006			
10:43:03	131072 131072 6 6	Y	Full				
Y Y	Y Y 41	Y OK	DOCF11E0A1B11AE1				
897EBDA0C2F040E380FDFCC6BFDC6DD7		88842358DDEEA43EEF684F5CEEFF8890820A0CAF4					
WordDocument D:\dfrws-2006-challenge.raw_1>>OLE_16812544[4]>>WordDocument							
Microsoft Word XP stream	Other	N/A	N/A	N/A	160179	524288	0 0
Y	Indexed in parent document						
38	N/A	ECA5C10007400904		N/A	N/A		
WordDocument D:\dfrws-2006-challenge.raw_1>>OLE_23533568[4]>>WordDocument							
Microsoft Word XP stream	Other	N/A	N/A	N/A	32805	131072	0 0
Y	Indexed in parent document						
45	N/A	ECA5C10075400904		N/A	N/A		

Appendix – Revit file_type.conf

```
# revit configuration file
#
# Version: 20060710 for the dfwrs challenge 2006
#

# Configuration layout:
#
# file_type
# {
#     Identifier must be unique
#     identifier          : <identifier>
#
#     The file extension
#     extension          : <extension>
#
#     Define a start of file signature
#     start_of_file      : [offset] <signature>
#
#     Define an end of file signature
#     end_of_file        : [offset] <signature>
#
#     Define a section within the file
#     section_type
#     {
#         Define a start of section signature
#         start_of_section : <signature>
#
#         Define an end of section signature
#         end_of_section   : <signature>
#
#         Define a size field within a section
#         section_size     : <offset> <amount_of_bytes> <little_endian/big_endian>
#         <power_base> <multiplier> <additional_corrective_amount> <section_start_in_size_included/excluded>
#         <from_section_start_begin/end>
#         a power base of zero is represented as no powerbase
#         a multiplier of zero is represented as no multiplier
#     }
#
#     Allow the file type to contain embedded instances of only itself
#     option              : embedded_instance
#
#     Allow the file type to contain embedded instances of other file types, not itself
#     option              : embedded_file
#
#     Allow for the last end of section and next start of section have some space inbetween them
#     option              : inter_section_space
#
#     Allow for the header to be reused as a part of a section
#     option              : header_reuse
# }

# -----
# Graphic type files
# -----

file_type
{
    identifier      : jpeg
    extension       : jpeg
    # Start of image (SOI) followed by a start of section
    start_of_file   : "\xff\xd8\xff?"

    # Section definitions with a size
    section_type
    {
        start_of_section : "\xff\xe0" # JFIF application segment (APP0)
        start_of_section : "\xff\xe1" # Other application segment (APPn)
```

```

        start_of_section      : "\xff\xe2" # Other application segment (APPn)
        start_of_section      : "\xff\xe3" # Other application segment (APPn)
        start_of_section      : "\xff\xe4" # Other application segment (APPn)
        start_of_section      : "\xff\xe5" # Other application segment (APPn)
        start_of_section      : "\xff\xe6" # Other application segment (APPn)
        start_of_section      : "\xff\xe7" # Other application segment (APPn)
        start_of_section      : "\xff\xe8" # Other application segment (APPn)
        start_of_section      : "\xff\xe9" # Other application segment (APPn)
        start_of_section      : "\xff\xea" # Other application segment (APPn)
        start_of_section      : "\xff\xeb" # Other application segment (APPn)
        start_of_section      : "\xff\xec" # Other application segment (APPn)
        start_of_section      : "\xff\xed" # Other application segment (APPn)
        start_of_section      : "\xff\xee" # Other application segment (APPn)
        start_of_section      : "\xff\xef" # Other application segment (APPn)
        start_of_section      : "\xff\xdb" # Quantization table marker (DQT)
        start_of_section      : "\xff\x0" # Start of frame (SOF0)
        start_of_section      : "\xff\x04" # Huffman table marker (DHT)
        start_of_section      : "\xff\xdd"
        start_of_section      : "\xff\xfe"

        section_size          : 2 2 big_endian 0 0 0 excluded begin
    }

    # The Start of scan marker (SOS) "\xff\xda" does not contain any size value
    # and must be terminated by a End of image (EOI) "\xff\xd9"
    section_type
    {
        start_of_section      : "\xff\xda"
        end_of_section        : "\xff\xd9"
    }

    content                  : "\xff\xd8\xff\xe0??JFIF"
    content                  : "\xff\xd8\xff\xe1??Exif"
    end_of_file              : "\xff\xd9"

    option                   : embedded_file
    option                   : embedded_instance
}

# http://www.w3.org/TR/PNG/
file_type
{
    identifier               : png
    extension                : png
    start_of_file            : "\x89PNG\x0d\x0a\x1a\x0a"

    section_type
    {
        start_of_section      : "IHDR"
        start_of_section      : "PLTE"
        start_of_section      : "IDAT"
        start_of_section      : "cHRM"
        start_of_section      : "gAMA"
        start_of_section      : "iCCP"
        start_of_section      : "sBIT"
        start_of_section      : "sRGB"
        start_of_section      : "bKGD"
        start_of_section      : "hIST"
        start_of_section      : "tRNS"
        start_of_section      : "pHYs"
        start_of_section      : "sPLT"
        start_of_section      : "tIME"
        start_of_section      : "iTXt"
        start_of_section      : "tEXt"
        start_of_section      : "zTXt"
        end_of_section        : "IEND"
        section_size          : -0x04 0x04 big_endian 0 0 8 excluded begin
    }
    end_of_file              : "IEND???"
}

```



```

# -----
# Microsoft Office type file
# -----

# http://www.i3a.org/pdf/wgln1017.pdf
container_type
{
    identifier      : ole_compound_file

    start_of_file   : "\xd0\xcf\x11\xe0\xa1\xb1\x1a\xe1"
    block_size      : 30 2 little_endian 2 0 0

    block_list_offset : 48 4 little_endian 1 128 4

    block_list_start : u"Root Entry"
    block_list_start : u"Data"
    block_list_start : u"1Table"
    block_list_start : u"\x01CompObj"
    block_list_start : u"\x010le"
    block_list_start : u"\x05SummaryInformation"
    block_list_start : u"\x05DocumentSummaryInformation"
    block_list_start : u"WordDocument"

    data_blocks_offset : 0x74 4 little_endian 0
    data_blocks_size   : 0x78 4 little_endian 0 0 0

    index_size        : 44 4 little_endian 0 0 0
    index_offset       : 76 4 little_endian 0 4
}

# -----
# Adobe type definition
# -----

# http://partners.adobe.com/public/developer/pdf/index_reference.html
file_type
{
    identifier      : pdf_v1_x
    extension       : pdf
    start_of_file   : "%PDF-1.?"

    section_type
    {
        start_of_section      : "obj"
        end_of_section        : "endobj"
    }
    section_type
    {
        start_of_section      : "startxref"
        end_of_section        : "%%EOF"
    }
    end_of_file      : "%%EOF"
    option           : inter_section_space
    option           : embedded_file
}

# -----
# Website type definition
# -----

file_type
{
    identifier      : html
    extension       : html
    start_of_file   : "<!DOCTYPE"
    start_of_file   : "<html"i
    content         : "<head>"i
    content         : "</head>"i
    content         : "<title>"i
    content         : "</title>"i
    content         : "<link"i

```

```

        content      : 'rel="stylesheet"'i
        content      : "<meta"i
        content      : "<script"i
        content      : "</script>"i
        content      : "<body>"i
        content      : "</body>"i
        content      : "href="i
        content      : "</a>"i
        content      : "<em>"i
        content      : "</em>"i
        content      : "<p>"i
        content      : "</p>"i
        content      : "<b>"i
        content      : "</b>"i
        content      : "<i>"i
        content      : "</i>"i
        content      : "</h1>"i
        content      : "</h2>"i
        content      : "&nbsp;"
        end_of_file   : "</html>"i
    }

file_type
{
    identifier        : xml
    extension         : xml
    start_of_file     : "<\x3fxml version=\x22"
    start_of_file     : "<!DOCTYPE"
}

# -----
# Archive files
# -----

file_type
{
    identifier        : zip
    extension         : zip
    start_of_file     : "PK\x03\x04"

    # Local file header
    section_type
    {
        start_of_section : "PK\x03\x04"
        section_size     : 18 4 little_endian 0 0 30 included begin
        section_size     : 26 2 little_endian 0 0 0 included begin
        section_size     : 28 2 little_endian 0 0 0 included begin

        end_of_section   : "PK\x07\x08"
        section_option    : exclude_end_of_section
    }
    # Data descriptor
    section_type
    {
        start_of_section : "PK\x07\x08"
        #section_size     : 12 4 little_endian 0 0 16 included begin
        section_size     : 12 0 little_endian 0 0 16 included begin
    }
    # File header
    section_type
    {
        start_of_section : "PK\x01\x02"
        section_size     : 28 2 little_endian 0 0 46 included begin
        section_size     : 30 2 little_endian 0 0 0 included begin
        section_size     : 32 2 little_endian 0 0 0 included begin
    }
    # Digital signature
    section_type
    {
        start_of_section : "PK\x05\x05"
        section_size     : 4 2 little_endian 0 0 6 included begin
    }
    # End of central directory record

```

```
section_type
{
    start_of_section      : "PK\x05\x06"
    section_size          : 20 2 little_endian 0 0 22 included begin
    section_option         : last_section
}
end_of_file      : "\x3c\xac"
option           : header_reuse
}
```

Appendix – Revit audit.log

```
ReviveIt (revit) version 20060710-1 audit log

Target directory:    ../revived
Configuration file:  file_types.conf
Block size:         512

File name:           ../dfrws-2006-challenge/img2.raw
File size:           49999872 bytes

Started:             Tue Jul 11 12:09:57 2006

File reconstructed
Type identifier:     html
Match:              partial
Filename:           0.html
Start offset:       0 (0x0)
End offset:         4609 (0x1201)
Start block offset: 0 (0x0)
End block offset:   4608 (0x1200)
MD5 hash:           d76b0865869a283099c4a95b6c7724a1

File reconstructed
Type identifier:     html
Match:              complete
Filename:           4609.html
Start offset:       4609 (0x1201)
End offset:         22755 (0x58e3)
Start block offset: 4608 (0x1200)
End block offset:   22528 (0x5800)
MD5 hash:           8d442d582b174e167a793958f2e5ee46

File reconstructed
Type identifier:     ole_compound_file
Match:              partial
Filename:           1050112.unknown
Start offset:       1050112 (0x100600)
End offset:         1980416 (0x1e3800)
Start block offset: 1050112 (0x100600)
End block offset:   1980416 (0x1e3800)
MD5 hash:           e4b4ba837a5ab9e780ffc521a3151897

File reconstructed
Type identifier:     xml
Match:              embedded, partial
Parent:             1980416
Filename:           1986357.xml
Start offset:       1986357 (0x1e4f35)
End offset:         1995443 (0x1e72b3)
Start block offset: 1986048 (0x1e4e00)
End block offset:   1995264 (0x1e7200)
MD5 hash:           7f567c7437cf59608e9a09fad1b2ab8e

File reconstructed
Type identifier:     jpeg
Match:              embedded, complete
Parent:             1980416
Filename:           1995443.jpeg
Start offset:       1995443 (0x1e72b3)
End offset:         2000994 (0x1e8862)
Start block offset: 1995264 (0x1e7200)
End block offset:   2000896 (0x1e8800)
MD5 hash:           c1d7c67b0e81f902a2c7ed56651fee2b

File reconstructed
Type identifier:     jpeg
Match:              complete
Filename:           1980416.jpeg
```

Start offset: 1980416 (0x1e3800)
End offset: 2267602 (0x2299d2)
Start block offset: 1980416 (0x1e3800)
End block offset: 2267136 (0x229800)
MD5 hash: daf4205574abd6919b10ca8be92d17a3

File reconstructed
Type identifier: html
Match: partial
Filename: 2271232.html
Start offset: 2271232 (0x22a800)
End offset: 2281472 (0x22d000)
Start block offset: 2271232 (0x22a800)
End block offset: 2281472 (0x22d000)
MD5 hash: 799ad2d2f2f1f17657338d98c97559c4

File reconstructed
Type identifier: html
Match: complete
Filename: 2281472.html
Start offset: 2281472 (0x22d000)
End offset: 2305016 (0x232bf8)
Start block offset: 2281472 (0x22d000)
End block offset: 2304512 (0x232a00)
MD5 hash: f4481ed348d3d59c5dad80afeb0341f9

File reconstructed
Type identifier: html
Match: partial
Filename: 2305536.html
Start offset: 2305536 (0x232e00)
End offset: 2332899 (0x2398e3)
Start block offset: 2305536 (0x232e00)
End block offset: 2332672 (0x239800)
MD5 hash: 980d51f099c0626d7816b07d5dae3f85

File reconstructed
Type identifier: ole_compound_file
Match: partial
Filename: 4077568.unknown
Start offset: 4077568 (0x3e3800)
End offset: 4086865 (0x3e5c51)
Start block offset: 4077568 (0x3e3800)
End block offset: 4086784 (0x3e5c00)
MD5 hash: fe483cb5afb54c990d0609c70ffe30a5

File reconstructed
Type identifier: png
Match: complete
Filename: 4086865.png
Start offset: 4086865 (0x3e5c51)
End offset: 4093293 (0x3e756d)
Start block offset: 4086784 (0x3e5c00)
End block offset: 4092928 (0x3e7400)
MD5 hash: 13bf31f3f270e9755ba27c96a07fe615

File reconstructed
Type identifier: jpeg
Match: complete
Filename: 4241920.jpeg
Start offset: 4241920 (0x40ba00)
End offset: 4850623 (0x4a03bf)
Start block offset: 4241920 (0x40ba00)
End block offset: 4850176 (0x4a0200)
MD5 hash: 4efc6c572683878efd8f3404ddaded7b

File reconstructed
Type identifier: jpeg
Match: complete
Filename: 5948928.jpeg
Start offset: 5948928 (0x5ac600)

End offset: 6152960 (0x5de300)
Start block offset: 5948928 (0x5ac600)
End block offset: 6152704 (0x5de200)
MD5 hash: 90a4ab243ea44c0b9f704ed4303084bc

File reconstructed
Type identifier: jpeg
Match: complete
Filename: 6257664.jpeg
Start offset: 6257664 (0x5f7c00)
End offset: 13371632 (0xcc08f0)
Start block offset: 6257664 (0x5f7c00)
End block offset: 13371392 (0xcc0800)
MD5 hash: b070beae1606f67a342bc5f78c29c743

File reconstructed
Type identifier: html
Match: partial
Filename: 14077952.html
Start offset: 14077952 (0xd6d000)
End offset: 14134784 (0xd7ae00)
Start block offset: 14077952 (0xd6d000)
End block offset: 14134784 (0xd7ae00)
MD5 hash: 76e51ff4adcaaa7b64da061636e532f3

File reconstructed
Type identifier: jpeg
Match: complete
Filename: 14134784.jpeg
Start offset: 14134784 (0xd7ae00)
End offset: 14324318 (0xda925e)
Start block offset: 14134784 (0xd7ae00)
End block offset: 14324224 (0xda9200)
MD5 hash: fe7e7ac67709f2d9c2483aa98c681b99

File reconstructed
Type identifier: html
Match: partial
Filename: 14324736.html
Start offset: 14324736 (0xda9400)
End offset: 14436429 (0xdc484d)
Start block offset: 14324736 (0xda9400)
End block offset: 14436352 (0xdc4800)
MD5 hash: 8593b9c26ec20d90660b369ca59a5904

File reconstructed
Type identifier: html
Match: complete
Filename: 14460928.html
Start offset: 14460928 (0xdca800)
End offset: 14512179 (0xdd7033)
Start block offset: 14460928 (0xdca800)
End block offset: 14512128 (0xdd7000)
MD5 hash: 9d63975e91da31f8a41856c8d50fe573

File reconstructed
Type identifier: zip
Match: complete
Filename: 14560768.zip
Start offset: 14560768 (0xde2e00)
End offset: 14707918 (0xe06cce)
Start block offset: 14560768 (0xde2e00)
End block offset: 14707712 (0xe06c00)
MD5 hash: ebabde39ba44d38888dd82606980498a

File reconstructed
Type identifier: zip
Match: partial
Filename: 14709248.zip
Start offset: 14709248 (0xe07200)
End offset: 15306240 (0xe98e00)

Start block offset: 14709248 (0xe07200)
End block offset: 15306240 (0xe98e00)
MD5 hash: d5e1aa8b61c5a684f8a613e893021d02

File reconstructed
Type identifier: html
Match: complete
Filename: 15118848.html
Start offset: 15118848 (0xe6b200)
End offset: 15306641 (0xe98f91)
Start block offset: 15118848 (0xe6b200)
End block offset: 15306240 (0xe98e00)
MD5 hash: 158496c522d97b7389c9907cae777ac1

File reconstructed
Type identifier: html
Match: partial
Filename: 15306240.html
Start offset: 15306240 (0xe98e00)
End offset: 15306641 (0xe98f91)
Start block offset: 15306240 (0xe98e00)
End block offset: 15306240 (0xe98e00)
MD5 hash: 4bdf2f9b8bba0acb1597cce1f6b9ef7

File reconstructed
Type identifier: zip
Match: complete
Filename: 15385752.zip
Start offset: 15385752 (0xeac498)
End offset: 16060897 (0xf511e1)
Start block offset: 15385600 (0xeac400)
End block offset: 16060416 (0xf51000)
MD5 hash: 11f2ff860df7f95b723b4edd2d78ddc5

File reconstructed
Type identifier: jpeg
Match: partial
Filename: 16115200.jpeg
Start offset: 16115200 (0xf5e600)
End offset: 16326144 (0xf91e00)
Start block offset: 16115200 (0xf5e600)
End block offset: 16326144 (0xf91e00)
MD5 hash: 5e202aaca2c685393c0eff98e4a30e96

File reconstructed
Type identifier: jpeg
Match: complete
Filename: 16144896.jpeg
Start offset: 16144896 (0xf65a00)
End offset: 16326194 (0xf91e32)
Start block offset: 16144896 (0xf65a00)
End block offset: 16326144 (0xf91e00)
MD5 hash: 68e1d7487c38a92cdb69d8da0db86dc3

File reconstructed
Type identifier: ole_compound_file
Match: partial
Filename: 16812544.unknown
Start offset: 16812544 (0x1008a00)
End offset: 16902215 (0x101e847)
Start block offset: 16812544 (0x1008a00)
End block offset: 16902144 (0x101e800)
MD5 hash: 993106a9ab1d965344b655d888185d3f

File reconstructed
Type identifier: png
Match: complete
Filename: 16902215.png
Start offset: 16902215 (0x101e847)
End offset: 16973235 (0x102fdb3)
Start block offset: 16902144 (0x101e800)

```

End block offset: 16972800 (0x102fc00)
MD5 hash: 204d04b27e673b5bb7ed63885b819b9f

File reconstructed
Type identifier: ole_compound_file
Match: partial
Filename: 17555456.unknown
Start offset: 17555456 (0x10be000)
End offset: 18120696 (0x1147ff8)
Start block offset: 17555456 (0x10be000)
End block offset: 18120192 (0x1147e00)
MD5 hash: 5c93b60181cb33fdb6fa9bd296bf608

File reconstructed
Type identifier: png
Match: complete
Filename: 18120696.png
Start offset: 18120696 (0x1147ff8)
End offset: 18140589 (0x114cdad)
Start block offset: 18120192 (0x1147e00)
End block offset: 18140160 (0x114cc00)
MD5 hash: 1b97489741b99a34b19ba2f8f23be0d4

File reconstructed
Type identifier: png
Match: complete
Filename: 18140936.png
Start offset: 18140936 (0x114cf08)
End offset: 18215424 (0x115f200)
Start block offset: 18140672 (0x114ce00)
End block offset: 18214912 (0x115f000)
MD5 hash: 6e33b2341a38a7936f2b5243ade0ef5e

File reconstructed
Type identifier: jpeg
Match: complete
Filename: 18581504.jpeg
Start offset: 18581504 (0x11b8800)
End offset: 18760163 (0x11e41e3)
Start block offset: 18581504 (0x11b8800)
End block offset: 18759680 (0x11e4000)
MD5 hash: 2fae8770cc013d22e9ea1c070f2f509b

File reconstructed
Type identifier: ole_compound_file
Match: partial
Filename: 18942976.unknown
Start offset: 18942976 (0x1210c00)
End offset: 20806656 (0x13d7c00)
Start block offset: 18942976 (0x1210c00)
End block offset: 20806656 (0x13d7c00)
MD5 hash: ada5d5f30da878922e37e01c9fd8147b

File reconstructed
Type identifier: jpeg
Match: complete
Filename: 20806656.jpeg
Start offset: 20806656 (0x13d7c00)
End offset: 21106135 (0x1420dd7)
Start block offset: 20806656 (0x13d7c00)
End block offset: 21105664 (0x1420c00)
MD5 hash: 97e5ca34212703d4b61174a802191a1f

File reconstructed
Type identifier: jpeg
Match: partial
Filename: 21304832.jpeg
Start offset: 21304832 (0x1451600)
End offset: 22542336 (0x157f800)
Start block offset: 21304832 (0x1451600)
End block offset: 22542336 (0x157f800)

```



```

MD5 hash:                fda69161f53c2372a9083293fcf48f32

File reconstructed
Type identifier:          jpeg
Match:                    complete
Filename:                 22238208.jpeg
Start offset:             22238208 (0x1535400)
End offset:               22542621 (0x157f91d)
Start block offset:       22238208 (0x1535400)
End block offset:         22542336 (0x157f800)
MD5 hash:                 c0da37b3f1a07af790e6e9171cedc4d2

File reconstructed
Type identifier:          zip
Match:                    complete
Filename:                 23047680.zip
Start offset:             23047680 (0x15fae00)
End offset:               23319397 (0x163d365)
Start block offset:       23047680 (0x15fae00)
End block offset:         23319040 (0x163d200)
MD5 hash:                 afafc8283cd622ed465a050008f72ed6

File reconstructed
Type identifier:          ole_compound_file
Match:                    embedded, partial
Parent:                   23329792
Filename:                 23533568.unknown
Start offset:             23533568 (0x1671800)
End offset:               23759460 (0x16a8a64)
Start block offset:       23533568 (0x1671800)
End block offset:         23759360 (0x16a8a00)
MD5 hash:                 369a8f635d429981ca1dfbb3fdd8acd6

File reconstructed
Type identifier:          jpeg
Match:                    complete
Filename:                 23329792.jpeg
Start offset:             23329792 (0x163fc00)
End offset:               23974971 (0x16dd43b)
Start block offset:       23329792 (0x163fc00)
End block offset:         23974912 (0x16dd400)
MD5 hash:                 586f9c563bf9428f1e231776d040d139

File reconstructed
Type identifier:          jpeg
Match:                    complete
Filename:                 24017920.jpeg
Start offset:             24017920 (0x16e7c00)
End offset:               48556460 (0x2e4e9ac)
Start block offset:       24017920 (0x16e7c00)
End block offset:         48556032 (0x2e4e800)
MD5 hash:                 db32b271506b2f4974791957627c61cc

File reconstructed
Type identifier:          jpeg
Match:                    embedded, complete
Parent:                   48561152
Filename:                 48561970.jpeg
Start offset:             48561970 (0x2e4ff32)
End offset:               48564603 (0x2e5097b)
Start block offset:       48561664 (0x2e4fe00)
End block offset:         48564224 (0x2e50800)
MD5 hash:                 11dd149a694df0f1ad47bffed35fb038

File reconstructed
Type identifier:          jpeg
Match:                    complete
Filename:                 48561152.jpeg
Start offset:             48561152 (0x2e4fc00)
End offset:               48962050 (0x2eb1a02)
Start block offset:       48561152 (0x2e4fc00)

```

End block offset:	48962048 (0x2eb1a00)
MD5 hash:	ce45692e435725c44ac1f825f1f55306
Stopped:	Tue Jul 11 12:10:28 2006