

Internet Censorship Detection and Data Recovery

mgr inż. Paweł Koszut

Internet Censorship Detection and Data Recovery

- Introduction and example of censored website
- Practical problems with censorship detection
- Visualisation of website changes
- Other applications

Internet Censorship Detection and Data Recovery

Example of censored website

Internet Censorship Detection and Data Recovery

http://www.time.com/time/magazine/1998/dom/980302/special_report.clintons_29.html - Konqueror

Location Edit View Bookmarks Tools Settings Help

http://www.time.com/time/magazine/1998/dom/980302/special_report.clintons_29.html

Google Search

http://www.time.com/time/ma...

TIME

ONLINE EDITION

The page you've requested is an excerpt from a book by Brent Scowcroft and George H. W. Bush titled *A World Transformed*, which appeared in the March 2, 1998, issue of *TIME* magazine under the title "Why We Didn't Remove Saddam". **It has been removed from our site** because the publisher did not grant us rights to sell the piece online through the TIME archive.

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http://ad.doubleclick.net/click;h=v8/3628/3/0/*/l;158576925;0-0;0;17765...ncentives/offers/%3Fbannerid=448880|21271294|158142165 (In new window)

Internet Censorship Detection and Data Recovery

TIME.com | HOME | SEARCH

DAILY MAGAZINE
U.S. Edition
International
Asia Edition
Archive
COMMUNITY
SPECIAL REPORTS
SERVICES

SPECIAL REPORT/CLINTON'S CRISES MARCH 2, 1998 VOL. 151 NO. 8

Why We Didn't Remove Saddam

By **GEORGE BUSH AND BRENT SCOWCROFT**

COVER STORY:
How Not to Sell a War
History: Bush on why he chose not to remove Saddam
IRAQ: [A Visit to Baghdad](#)
THE WHITE HOUSE: [Parallel Tracks](#)
MONICA LEWINSKY: [Waiting in the Wings](#)
STARR WARS: [The Hidden Conflict](#)

The end of effective Iraqi resistance came with a rapidity which surprised us all, and we were perhaps psychologically unprepared for the sudden transition from fighting to peacemaking. True to the guidelines we had established, when we had achieved our strategic objectives (ejecting Iraqi forces from Kuwait and eroding Saddam's threat to the region) we stopped the fighting. But the necessary limitations placed on our objectives, the fog of war, and the lack of "battleship Missouri" surrender unfortunately left unresolved problems, and new ones arose.

We were disappointed that Saddam's defeat did not break his hold on power, as many of our Arab allies had predicted and we had come to expect. President Bush repeatedly declared that the fate of Saddam Hussein was up to the Iraqi people. Occasionally, he indicated that removal of Saddam would be welcome, but for very practical reasons there was never a promise to aid an uprising. While we hoped that popular revolt or coup would topple Saddam, neither the U.S. nor the countries of the region wished to see the breakup of the Iraqi state. We were concerned about the long-term balance of power at the head of the Gulf. Trying to eliminate Saddam, extending the ground war into an

Internet Censorship Detection and Data Recovery

Practical problems

Internet Censorship Detection and Data Recovery

The screenshot shows an Internet Explorer browser window with the title "Internet Explorer Multiple Code Execution Vulnerabilities - Advisories - Secunia - Konqueror". The address bar shows the URL "http://secunia.com/advisories/28036/". The page content includes a sidebar with navigation links, a main advisory section with details like "Secunia Advisory: SA28036", "Release Date: 2007-12-11", and "Last Update: 2007-12-13". It also features a "Critical" rating, "Impact: System access", and "Where: From remote". A "Description" section explains that some vulnerabilities have been reported in Internet Explorer, which can be exploited by malicious people to compromise a user's system. The page also includes a "Data Loss Prevention" section and a "Secunia Poll" asking if the user's organization has taken extra steps to remediate the vulnerability.

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[Security Professionals](#)
[Security Vendors](#)

Free Solutions For
[Open Communities](#)
[Journalists & Media](#)


Software Inspectors
[Scan Online](#)
[Personal \(PSI\)](#)
[Network \(NSI\)](#)

Secunia Advisories
[Search](#)
[Historic Advisories](#)
[Listed By Product](#)
[Listed By Vendor](#)
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[Report Vulnerability](#)
[About Advisories](#)

Virus Information
[Chronological List](#)
[Last 10 Virus Alerts](#)
[About Virus Information](#)

Internet Explorer Multiple Code Execution Vulnerabilities

Secunia Advisory: SA28036
Release Date: 2007-12-11
Last Update: 2007-12-13

Critical:  [Extremely critical](#)

Impact: System access
Where: From remote
Solution Status: Vendor Patch


Software: [Microsoft Internet Explorer 5.01](#)
[Microsoft Internet Explorer 6.x](#)
[Microsoft Internet Explorer 7.x](#)

CVE reference: [CVE-2007-3902](#) (Secunia mirror)
[CVE-2007-3903](#) (Secunia mirror)
[CVE-2007-5344](#) (Secunia mirror)
[CVE-2007-5347](#) (Secunia mirror)

Want to know the next time vulnerabilities are fixed in this product?
- [Companies can be alerted via email and SMS!](#)

Description:
Some vulnerabilities have been reported in Internet Explorer, which can be exploited by malicious people to compromise a user's system.

Data Loss Prevention
Learn more about Proofpoint's data loss prevention & email security
www.proofpoint.com

The Secunia PSI
- Technology Preview

Download BETA


Secunia Poll

Have your organisation taken any extraordinary steps to remediate the [Microsoft Windows URI](#) vulnerability?

Yes
 No
 No, we're not affected

[See Results](#)

Most Popular Advisories

-  [Microsoft Windows](#)

Internet Censorship Detection and Data Recovery

The screenshot shows an Internet Explorer browser window with the title "Internet Explorer Multiple Code Execution Vulnerabilities - Advisories - Secunia - Konqueror". The address bar shows the URL "http://secunia.com/advisories/28036/". The page content is organized into several sections:

- Solutions For:** Links to "Security Professionals" and "Security Vendors".
- Free Solutions For:** Links to "Open Communities" and "Journalists & Media".
- Software Inspectors:** Links to "Scan Online", "Personal (PSI)", and "Network (NSI)".
- Secunia Advisories:** Links for "Search", "Historic Advisories", "Listed By Product", "Listed By Vendor", "Statistics / Graphs", "Secunia Research", "Report Vulnerability", and "About Advisories".
- Virus Information:** Links for "Chronological List", "Last 10 Virus Alerts", and "About Virus Information".

The main advisory content includes:

- Internet Explorer Multiple Code Execution Vulnerabilities** (with Danish and German flags)
- Secunia Advisory:** SA28036
- Release Date:** 2007-12-11
- Last Update:** 2007-12-13
- Critical:** Indicated by a 5-color bar (all red) and the text "Extremely critical".
- Impact:** System access
- Where:** From remote
- Solution Status:** Vendor Patch
- Software:** Links to "Microsoft Internet Explorer 5.01", "Microsoft Internet Explorer 6.x", and "Microsoft Internet Explorer 7.x".
- CVE reference:** Links to "CVE-2007-3902", "CVE-2007-3903", "CVE-2007-5344", and "CVE-2007-5347", each with "(Secunia mirror)".
- Want to know the next time vulnerabilities are fixed in this product?** - [Companies can be alerted via email and SMS!](#)
- Data Loss Prevention:** Learn more about Proofpoint's data loss prevention & email security. www.proofpoint.com
- firewall security:** Firewall Log Analysis for Security, Traffic, and Bandwidth Management. www.FWAnalyzer.com/FreeTrial
- Description:** Some vulnerabilities have been reported in Internet Explorer, which can be exploited by malicious people to compromise a user's system.
1) A use-after-free error in mshtml.dll when handling "setExpression()" method calls can be

On the right side of the page, there are additional elements:

- The Secunia PSI - Technology Preview** with a "Download BETA" button.
- Secunia Poll:** "Have your organisation taken any extraordinary steps to remediate the Microsoft Windows URI vulnerability?" with radio buttons for "Yes", "No", and "No, we're not affected", and a "Vote!" button.
- Most Popular Advisories:** A list of other advisories with a 5-color bar.

Internet Censorship Detection and Data Recovery

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- Free Solutions For:** Links for Open Communities and Journalists & Media.
- Software Inspectors:** Links for Scan Online, Personal (PSI), and Network (NSI).
- Secunia Advisories:** Links for Search, Historic Advisories, Listed By Product, Listed By Vendor, Statistics / Graphs, Secunia Research, Report Vulnerability, and About Advisories.
- Virus Information:** Links for Chronological List, Last 10 Virus Alerts, and About Virus Information.

The main content area displays the following details for the advisory:

- Secunia Advisory:** SA28036
- Release Date:** 2007-12-11
- Last Update:** 2007-12-13
- Critical:** Represented by a 4-color bar (green, yellow, orange, red) and labeled "Extremely critical".
- Impact:** System access
- Where:** From remote
- Solution Status:** Vendor Patch
- Software:** Microsoft Internet Explorer 5.01, Microsoft Internet Explorer 6.x, Microsoft Internet Explorer 7.x
- CVE reference:** CVE-2007-3902 (Secunia mirror), CVE-2007-3903 (Secunia mirror), CVE-2007-5344 (Secunia mirror), CVE-2007-5347 (Secunia mirror)

A red circle highlights a link in the Virus Information section: [Data Loss Prevention](#). Below this link is a text block: "Learn more about Proofpoint's data loss prevention & email security www.proofpoint.com".

The page also features a poll titled "Secunia Poll" with the question: "Have your organisation taken any extraordinary steps to remediate the Microsoft Windows URI vulnerability?". The poll options are: Yes, No, and No, we're not affected. A "Vote!" button is present.

The description section states: "Some vulnerabilities have been reported in Internet Explorer, which can be exploited by malicious people to compromise a user's system." It lists a specific vulnerability: "1) A use-after-free error in mshtml.dll when handling 'setExpression()' method calls can be".

Internet Censorship Detection and Data Recovery

Internet Explorer Multiple Code Execution Vulnerabilities - Advisories - Secunia - Konqueror

Location Edit View Bookmarks Tools Settings Help

http://secunia.com/advisories/28036/

Internet Explorer Multiple ...

Solutions For

- [Security Professionals](#)
- [Security Vendors](#)

Free Solutions For

- [Open Communities](#)
- [Journalists & Media](#)

Software Inspectors

- [Scan Online](#)
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Secunia Advisories

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- [Report Vulnerability](#)
- [About Advisories](#)

Virus Information

- [Chronological List](#)
- [Last 10 Virus Alerts](#)
- [About Virus Information](#)

Internet Explorer Multiple Code Execution Vulnerabilities

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[CVE-2007-5347](#) (Secunia mirror)

Want to know the next time vulnerabilities are fixed in this product?
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Data Loss Prevention
Learn more about Proofpoint's data loss prevention & email security
[www.proofpoint.com](#)

firewall security
Firewall Log Analysis for Security, Traffic, and Bandwidth Management
[www.FWAnalyzer.com/FreeTrial](#)

Description:
Some vulnerabilities have been reported in Internet Explorer, which can be exploited by malicious people to compromise a user's system.

1) A use-after-free error in mshtml.dll when handling "setExpression()" method calls can be

The Secunia PSI - Technology Preview

Download BETA

Secunia Poll

Have your organisation taken any extraordinary steps to remediate the [Microsoft Windows URI](#) vulnerability?

Yes
 No
 No, we're not affected

[See Results](#)

Most Popular Advisories

1.

Internet Censorship Detection and Data Recovery

ETag

Internet Censorship Detection and Data Recovery

FileETag Directive

Description:	File attributes used to create the ETag HTTP response header
Syntax:	FileETag <i>component</i> ...
Default:	FileETag INode MTime Size
Context:	server config, virtual host, directory, .htaccess
Override:	FileInfo
Status:	Core
Module:	core

The **FileETag** directive configures the file attributes that are used to create the ETag (entity tag) response header field when the document is based on a file. (The ETag value is used in cache management to save network bandwidth.) In Apache 1.3.22 and earlier, the ETag value was *always* formed from the file's inode, size, and last-modified time (mtime). The **FileETag** directive allows you to choose which of these -- if any -- should be used. The recognized keywords are:

INode

The file's i-node number will be included in the calculation

MTime

The date and time the file was last modified will be included

Size

The number of bytes in the file will be included

All

All available fields will be used. This is equivalent to:

```
FileETag INode MTime Size
```

None

If a document is file-based, no ETag field will be included in the response

Internet Censorship Detection and Data Recovery

China's President Hu concludes inspection tour in Anhui_English_Xinhua - Konqueror

Location Edit View Bookmarks Tools Settings Help

http://news.xinhuanet.com/english/2008-01/14/content_7422102.htm

China's President Hu conclu...

www.news.cn
新华网
NEWS
www.chinaview.cn

China View

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Monday, Jan.14, 2008

WINDOW OF CHINA

Search

China's President Hu concludes inspection tour in Anhui

www.chinaview.cn 2008-01-14 23:14:27

Print



Chinese President Hu Jintao (L) inspects the Anhui Heli Co., Ltd. in east China's Anhui Province, Jan. 13, 2008. Hu made an inspection tour to

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- China, Malawi establish diplomatic ties

Internet Censorship Detection and Data Recovery

The screenshot shows a web browser window displaying a news article from Xinhua. The browser's address bar shows the URL: http://news.xinhuanet.com/english/2008-01/14/content_7422102.htm. The page title is "China's President Hu concludes inspection tour in Anhui_English_Xinhua". A "Document Information" dialog box is open, showing the following details:

General

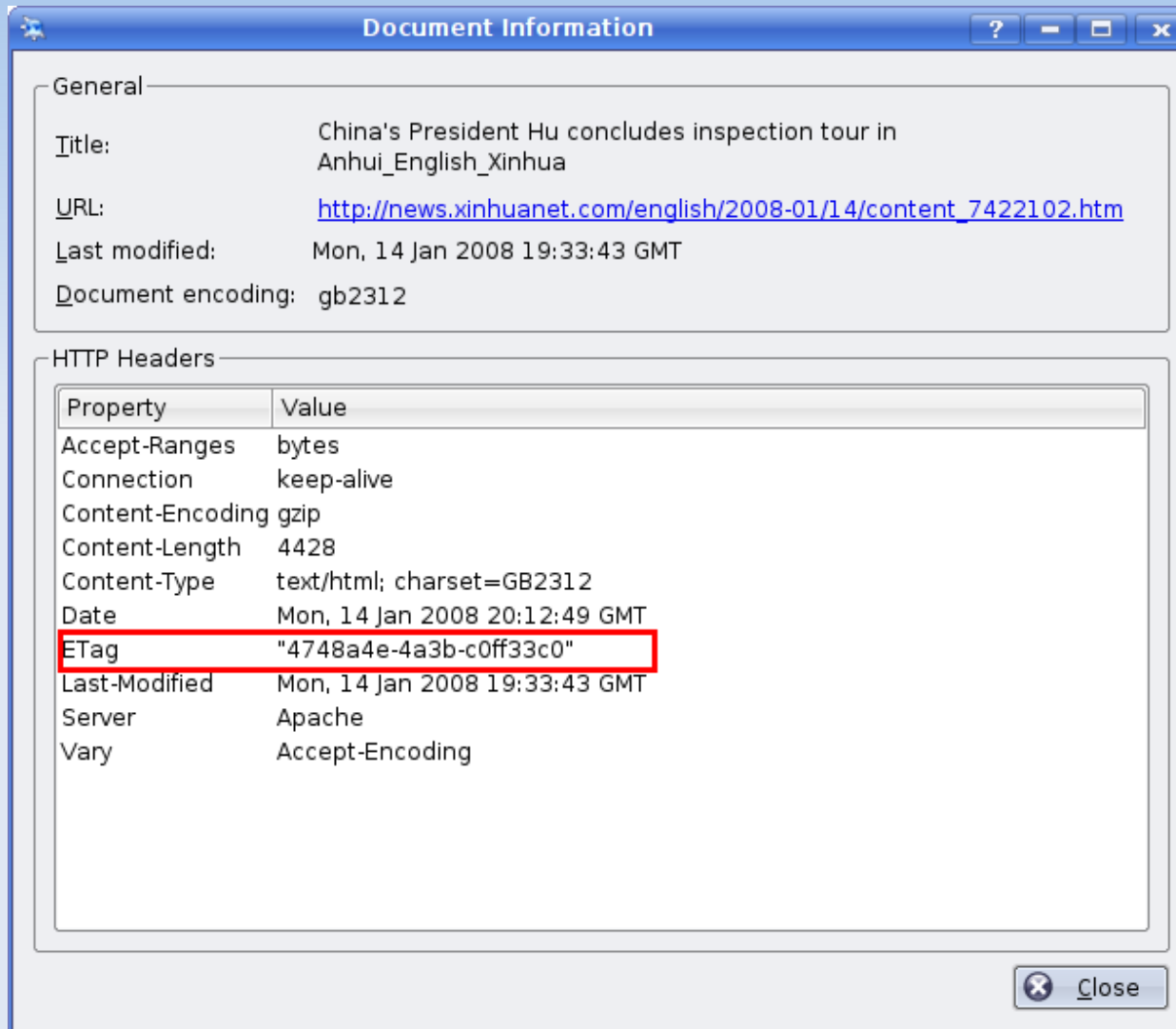
- Title: China's President Hu concludes inspection tour in Anhui_English_Xinhua
- URL: http://news.xinhuanet.com/english/2008-01/14/content_7422102.htm
- Last modified: Mon, 14 Jan 2008 19:33:43 GMT
- Document encoding: gb2312

HTTP Headers

Property	Value
Accept-Ranges	bytes
Connection	keep-alive
Content-Encoding	gzip
Content-Length	4428
Content-Type	text/html; charset=GB2312
Date	Mon, 14 Jan 2008 20:12:49 GMT
ETag	"4748a4e-4a3b-c0ff33c0"
Last-Modified	Mon, 14 Jan 2008 19:33:43 GMT
Server	Apache
Vary	Accept-Encoding

The background page shows the Xinhua logo and the headline "China's President Hu concludes inspection tour in Anhui". A photo of President Hu Jintao is visible at the bottom of the page.

Internet Censorship Detection and Data Recovery



The screenshot shows a 'Document Information' dialog box with two main sections: 'General' and 'HTTP Headers'.

General

- Title:** China's President Hu concludes inspection tour in Anhui_English_Xinhua
- URL:** http://news.xinhuanet.com/english/2008-01/14/content_7422102.htm
- Last modified:** Mon, 14 Jan 2008 19:33:43 GMT
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HTTP Headers

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ETag	"4748a4e-4a3b-c0ff33c0"
Last-Modified	Mon, 14 Jan 2008 19:33:43 GMT
Server	Apache
Vary	Accept-Encoding

A red rectangle highlights the ETag header value: "4748a4e-4a3b-c0ff33c0".

Close

Internet Censorship Detection and Data Recovery




ETagFix V1.00

ETagFix alters the IIS etag that is generated for each page so that it does not change each time your server is restarted.

Etags are a method of informing web browsers and crawlers when a web page has changed. Using etags, your web browser or crawler will determine when a cached page may be used and when the page must be downloaded to present the current information.

Sounds simple and useful, right? Well, yes and no. True, it's important for browsers to download a page when it really has changed. However, it's not necessary to take the time and bandwidth required to download a page when the etag has been updated due to restarting the web server, but the page information hasn't changed.

ETagFix stabilizes the etag that Internet Information Services (IIS) generates so that it doesn't change each time the web server is restarted.



ETagFix V1.00

QuickStart | License

General

With ETagFix you can alter the etag response header so that your web pages on your IIS server do not need to be rechecked by your visitors each time you restart your server. This helps you reduce the amount of bandwidth that is required to server up your web pages because it informs web crawlers that they do not need to crawl your web site just because IIS has restarted.

For debugging purposes etag alteration can be turned on and off although in general this is not necessary. If etag alteration is turned off ETagFix will still load in IIS but will not alter the etags that IIS produces.


Enable ETagFix

Internet Information Services (IIS) Setup

Easily configure Internet Information Services (IIS) to use ETagFix. Requires IIS to be restarted before changes take effect.

Add to Webserver
Remove from Webserver

About | Help | Reset | Load | Save | Save As... | Exit



Internet Censorship Detection and Data Recovery

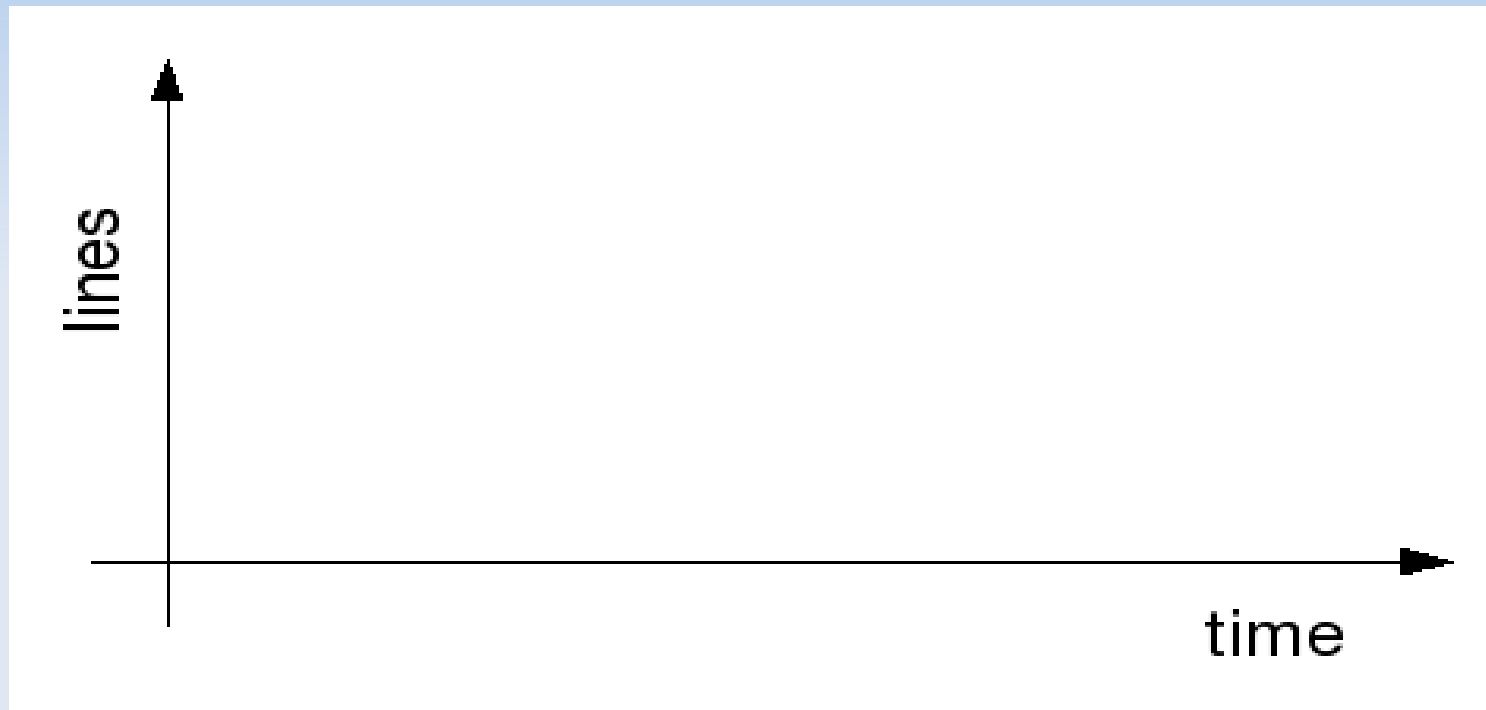
Possible solution

Internet Censorship Detection and Data Recovery

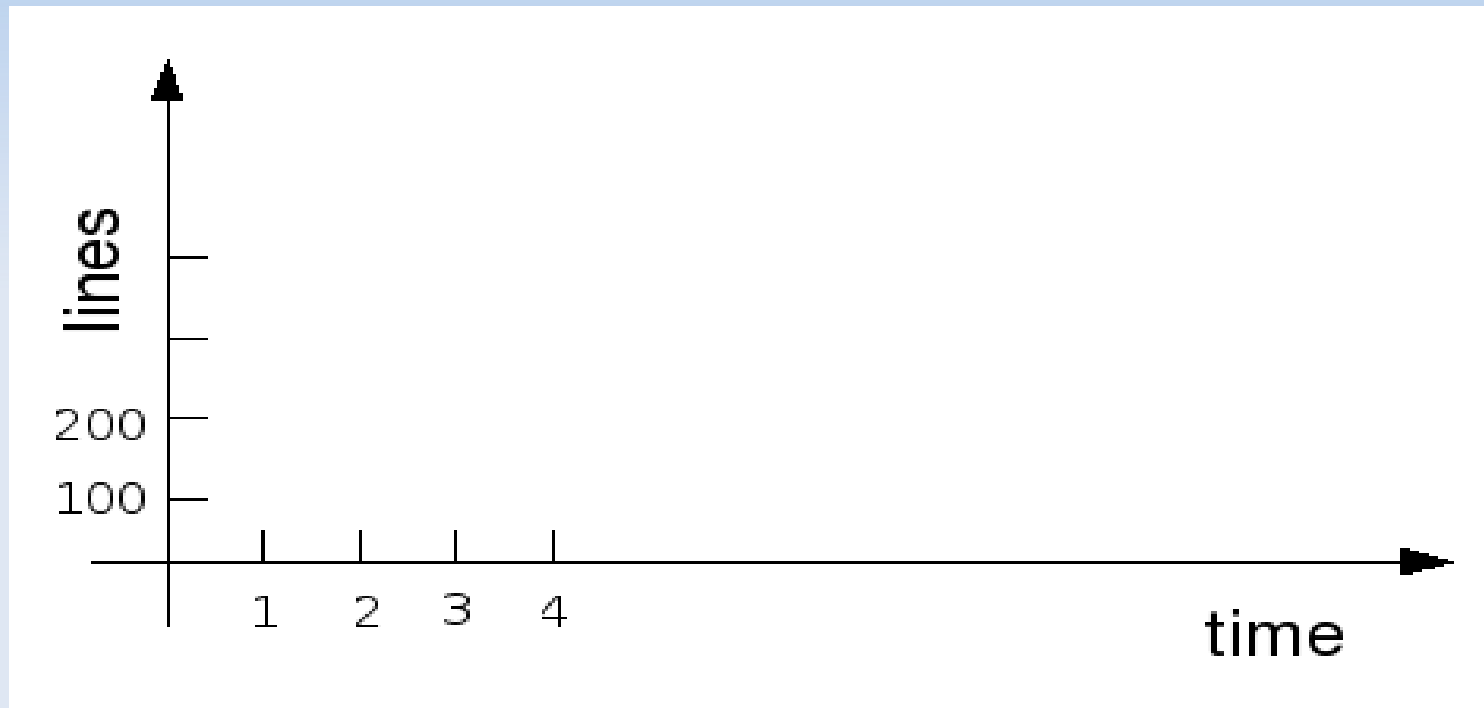
Working diff...

```
xfdifff> Different block: -36,7 +36,7
xfdifff> Showing difference number 1
xfdifff> Different block: -55,7 +55,7
xfdifff> Different block: -138,7 +138,7
xfdifff> Different block: -148,22 +148,22
xfdifff> Different block: -367,17 +367,17
xfdifff> Different block: -466,7 +466,7
xfdifff> *** Total of 7 different sections found
```

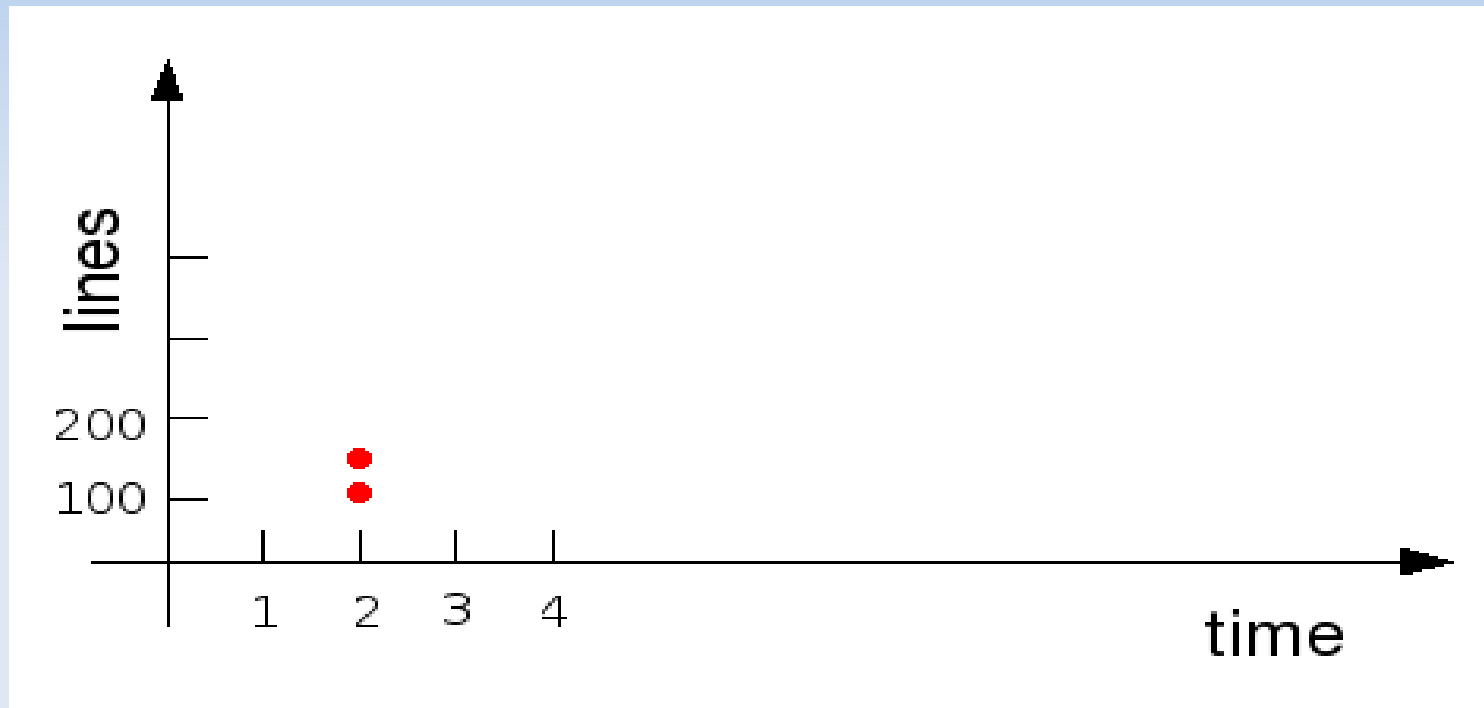
Internet Censorship Detection and Data Recovery



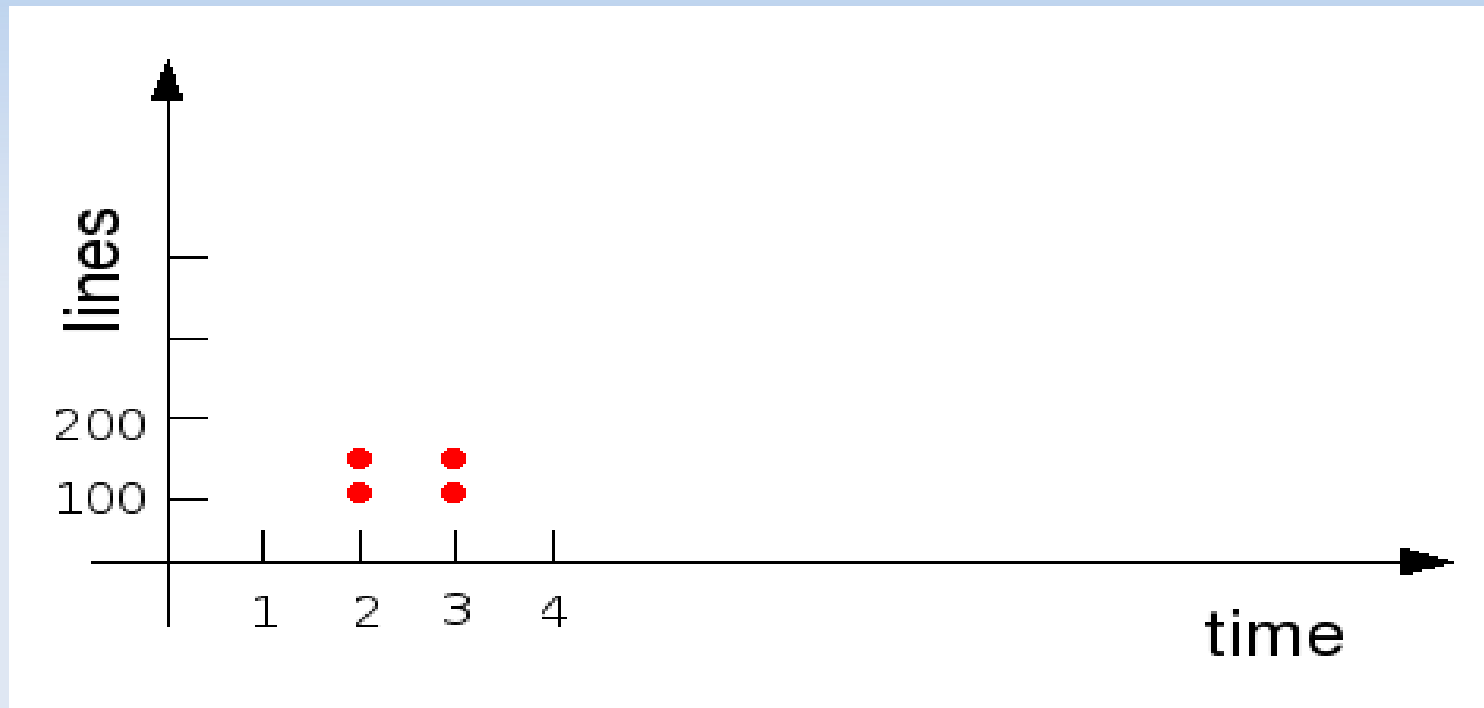
Internet Censorship Detection and Data Recovery



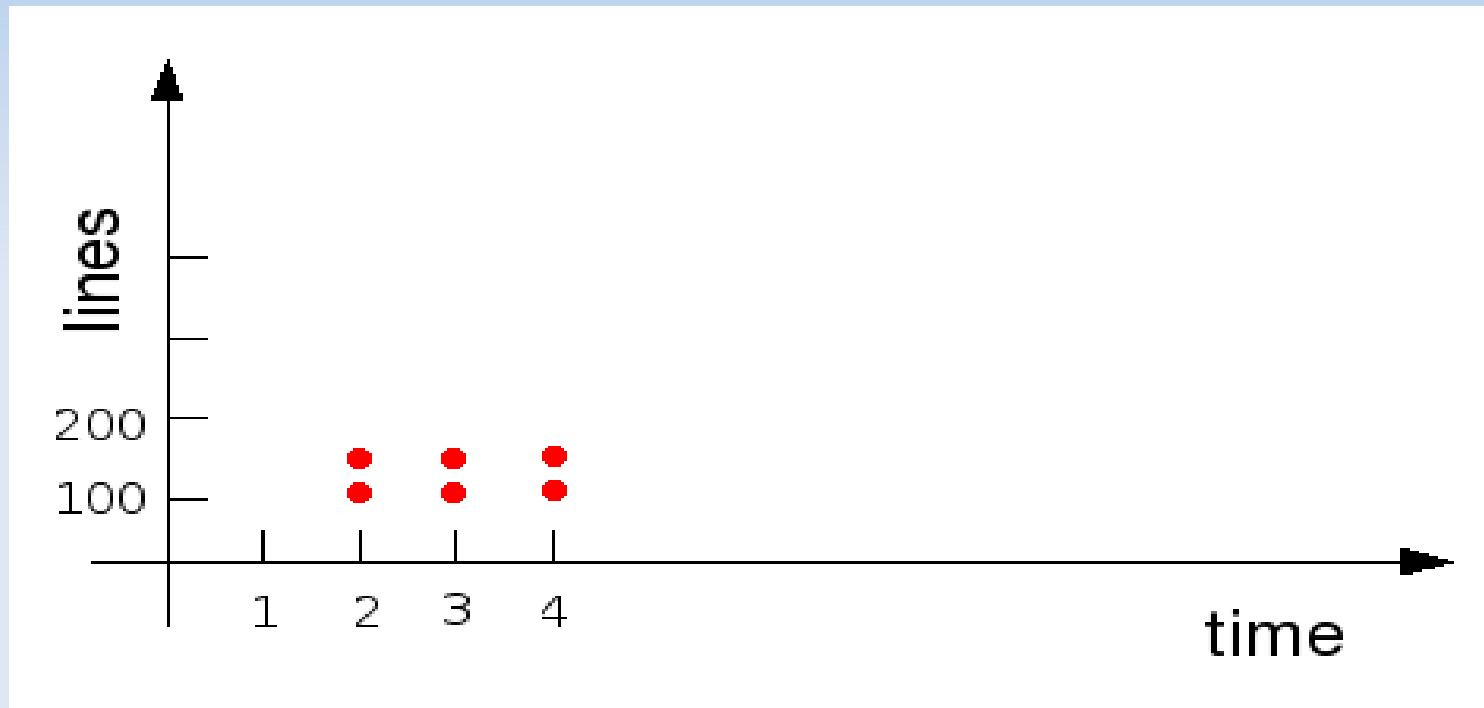
Internet Censorship Detection and Data Recovery



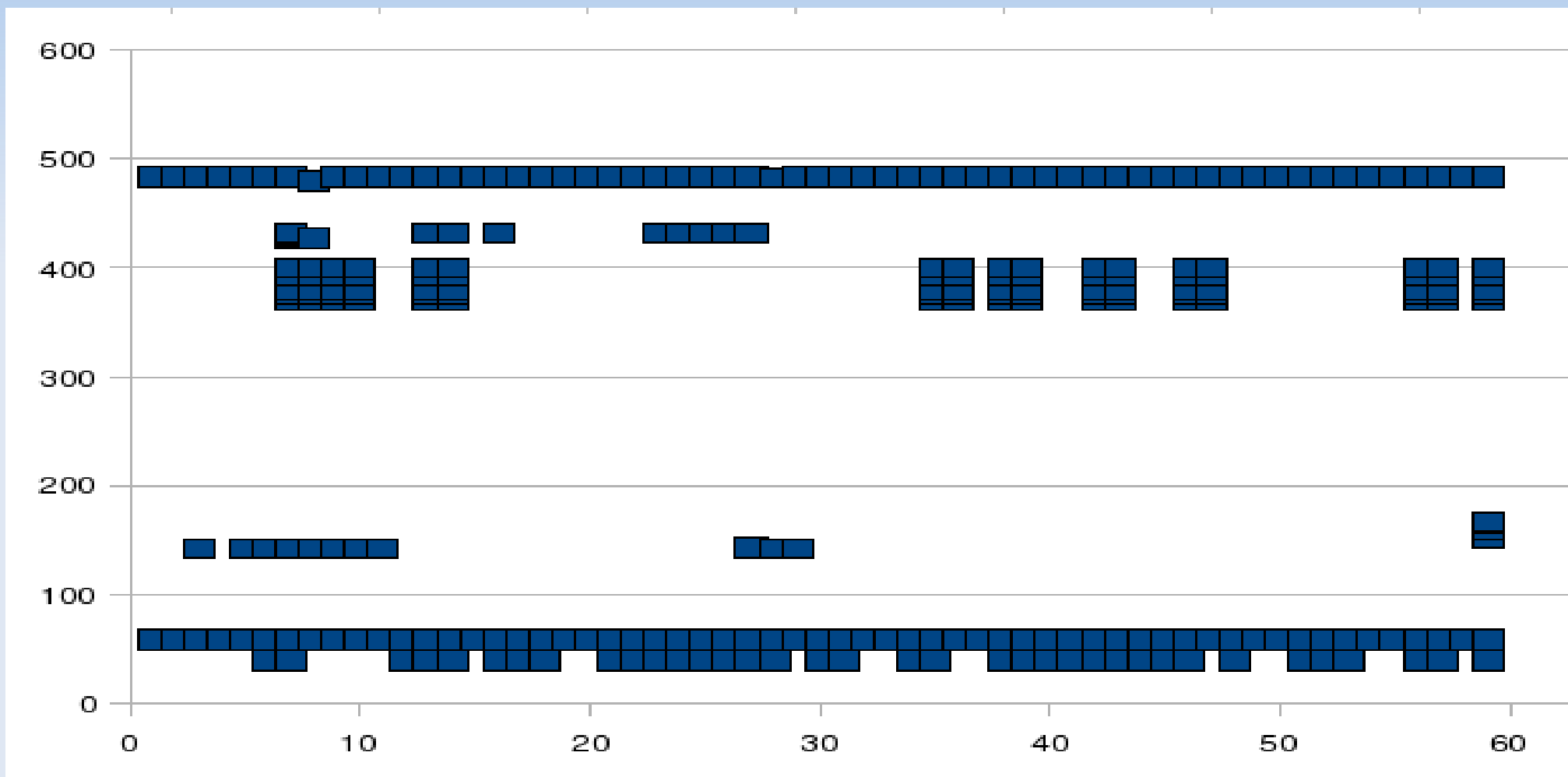
Internet Censorship Detection and Data Recovery



Internet Censorship Detection and Data Recovery



Internet Censorship Detection and Data Recovery



Internet Censorship Detection and Data Recovery

BBC NEWS | Business | Iraqi oil exceeds pre-war output - Konqueror

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BBC NEWS | Business | Iraqi...

UK version **International version**

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Last Updated: Friday, 14 December 2007, 17:31 GMT

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Iraqi oil exceeds pre-war output
Iraqi oil production is above the levels seen before the US-led invasion of the country in 2003, according to the International Energy Agency (IEA).

The IEA said Iraqi crude production is now running at 2.3 million barrels per day, compared with 1.9 million barrels at the start of this year.

It puts the rise down to the improving security situation in Iraq, especially in the north of the country.

But the IEA warned that attacks on Iraqi oil facilities remain a threat.

In southern Iraq, more than 85% of the residents of Basra believe British troops have had a negative effect on the Iraqi province since 2003, according to a BBC poll.

The survey for BBC Newsnight of nearly 1,000 people also suggests that 56% believe their presence has increased the overall level of militia violence.

Sabotage attacks

In its latest monthly Oil Market Report, the IEA puts the Iraqi




Iraq's oil infrastructure appears to be getting back on track

THE STRUGGLE FOR IRAQ

KEY STORIES

- [Zawahiri says UK 'fleeing Basra'](#)
- [UK troops return Basra to Iraqis](#)
- [Iraqi oil exceeds pre-war output](#)
- [US marine guilty of Iraq killing](#)
- [US Senate passes Iraq funds bill](#)
- [Basra residents blame UK troops](#)
- [Triple car bombs hit south Iraq](#)

BACKGROUND AND ANALYSIS

-  **Basra uncertainty**
- [The future for the city as British troops hand over control](#)
- [Basra's new era](#)
- [Heading back home to Iraq](#)
- [Sunni 'neighbourhood watch'](#)
- [Political delay on death row](#)
- [Is Iraq getting better?](#)
- [Iraq violence in figures](#)

ANDREW NORTH DIARY

Surface security Go

file:///2/hi/in_depth/middle_east/2002/conflict_with_iraq/default.stm Amiga Soundtracker Audio

Internet Censorship Detection and Data Recovery

BBC NEWS | Business | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX - Konqueror

Location Edit View Bookmarks Tools Settings Help

Google Search

BBC NEWS | Business | XXXXX...
UK version International version

BBC NEWS [Watch](#) [One-Minute World News](#)
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[News Front Page](#) Last Updated: Friday, 14 December 2007, 17:31 GMT
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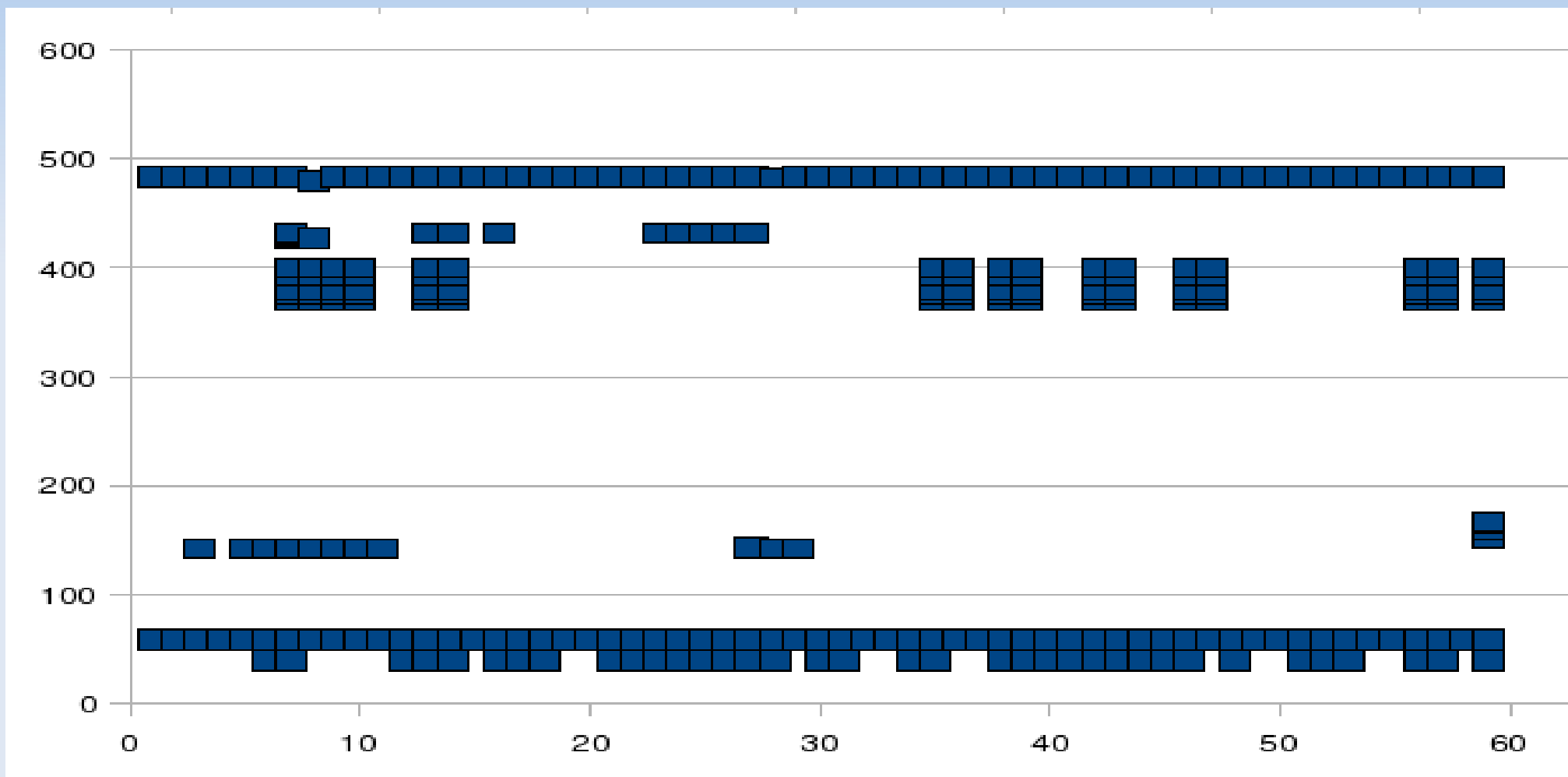
BACKGROUND AND ANALYSIS
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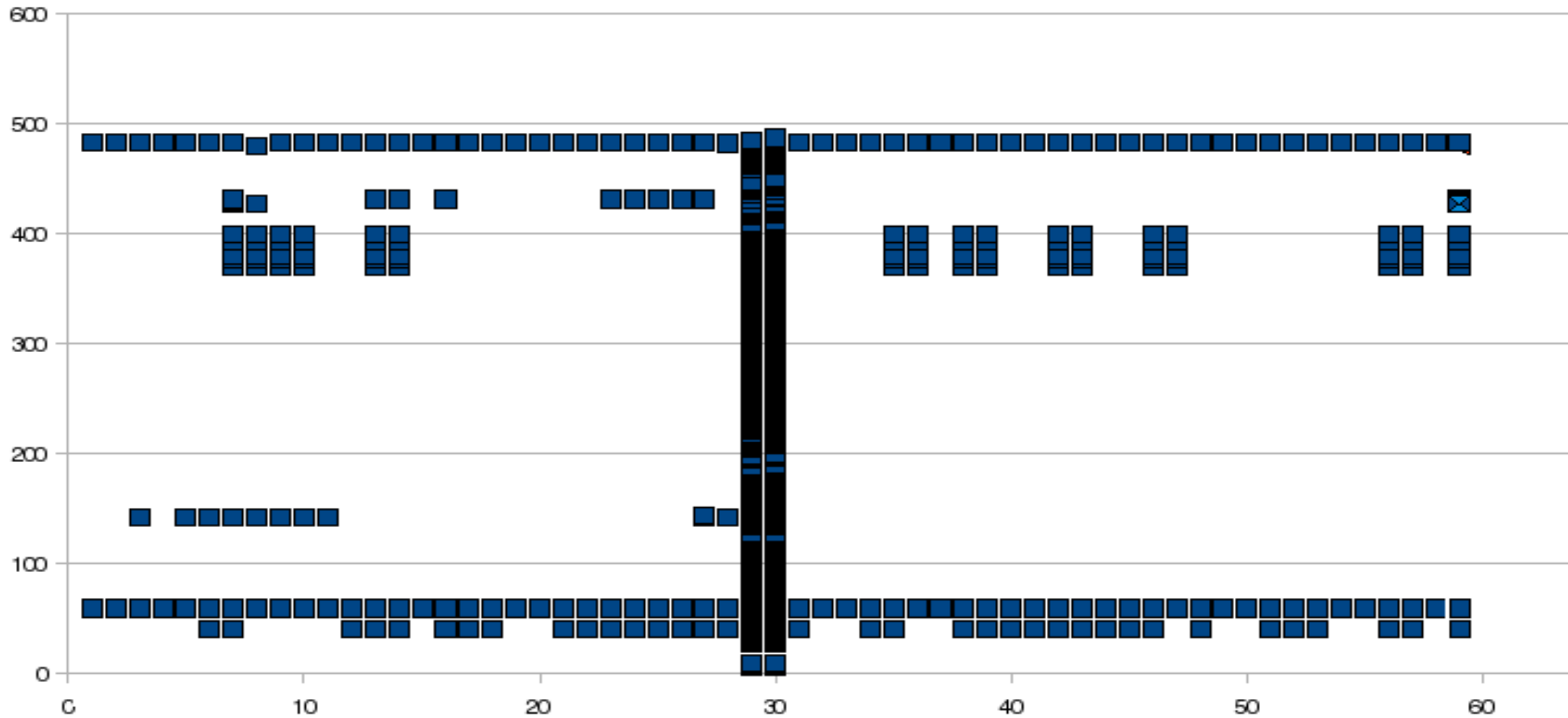
“ The [XXX] xxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx ”
[BBC poll: UK troops](#)

file:///2/hi/in_depth/middle_east/2002/conflict_with_iraq/default.stm Amiga Soundtracker Audio

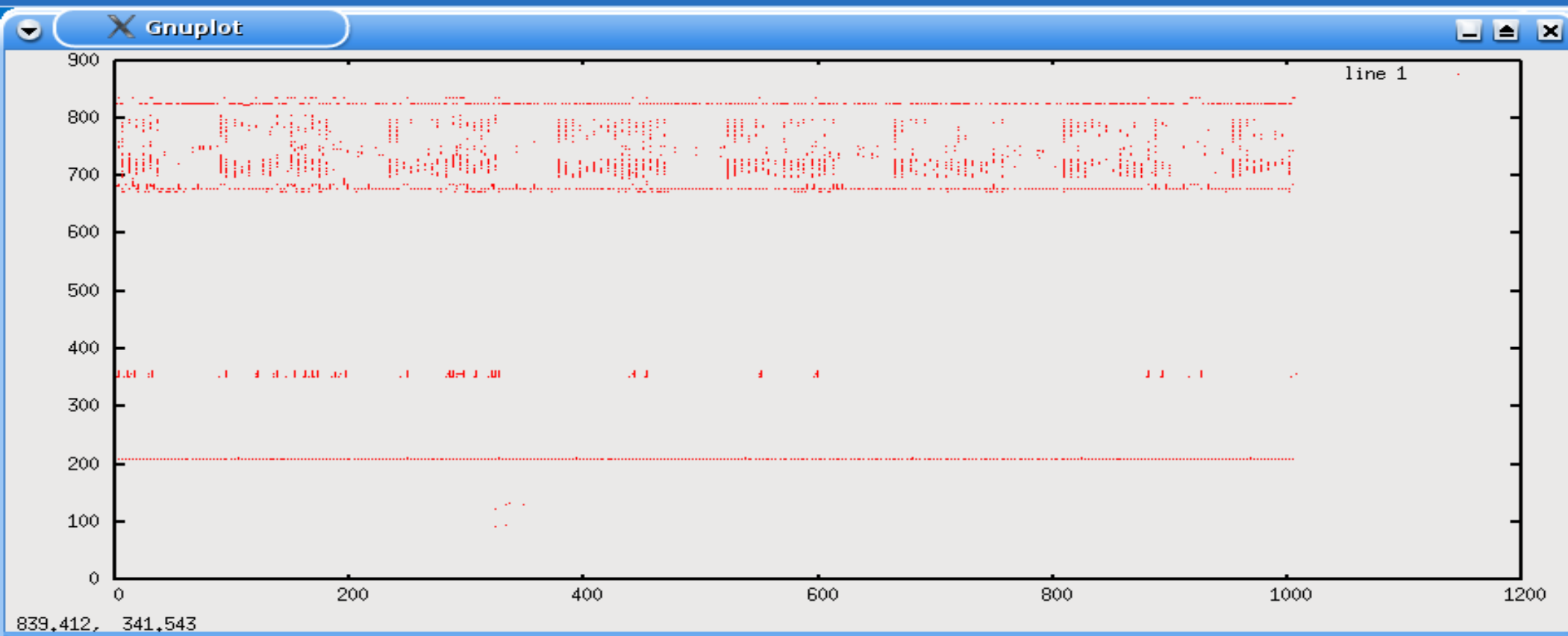
Internet Censorship Detection and Data Recovery



Internet Censorship Detection and Data Recovery



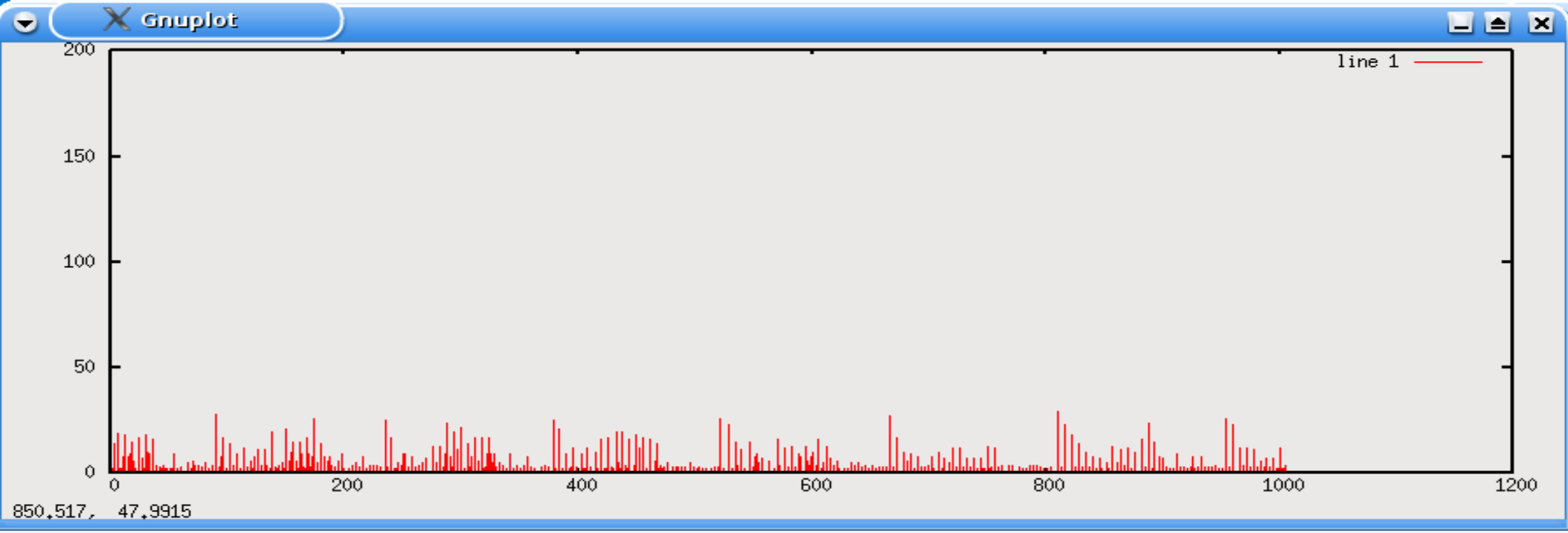
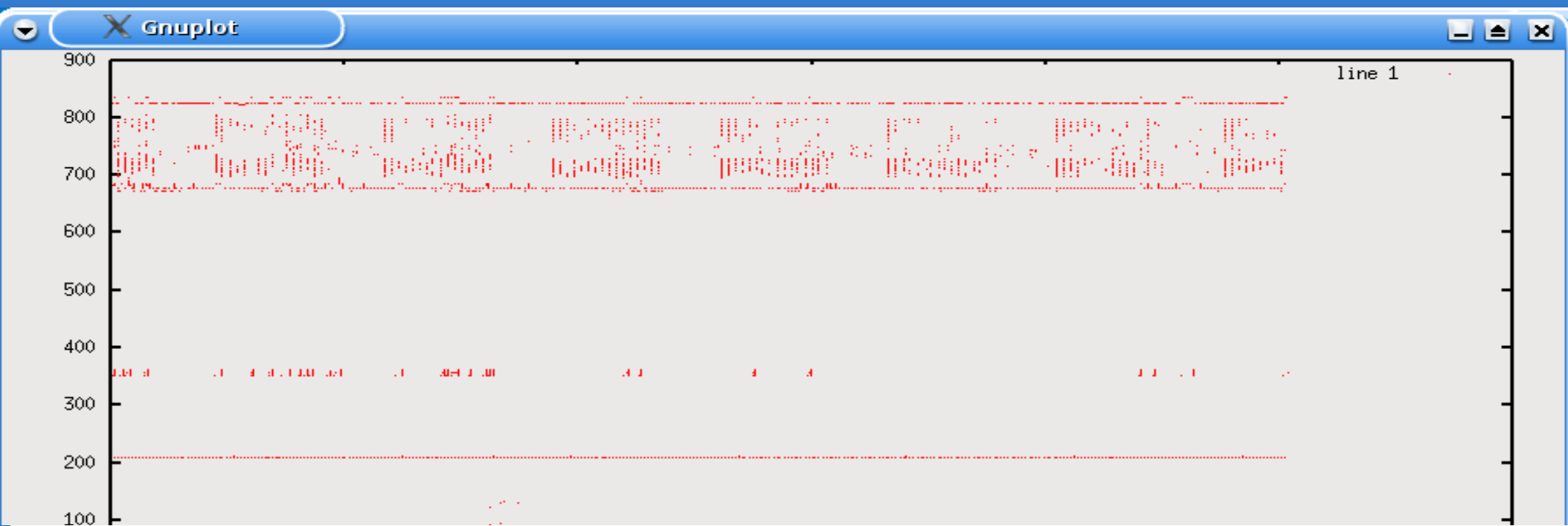
Internet Censorship Detection and Data Recovery



<http://news.bbc.co.uk/2/hi/technology/7149588.stm>

2007-12-18 15:25 -> 2007-12-25 15:16

step: 10 minutes



Internet Censorship Detection and Data Recovery

Algorithm

[\[edit\]](#)

The operation of diff is based on solving the [Longest Common Subsequence](#) (LCS) problem.

In the LCS problem, you have two sequences of items:

```
a b c d f g h j q z
```

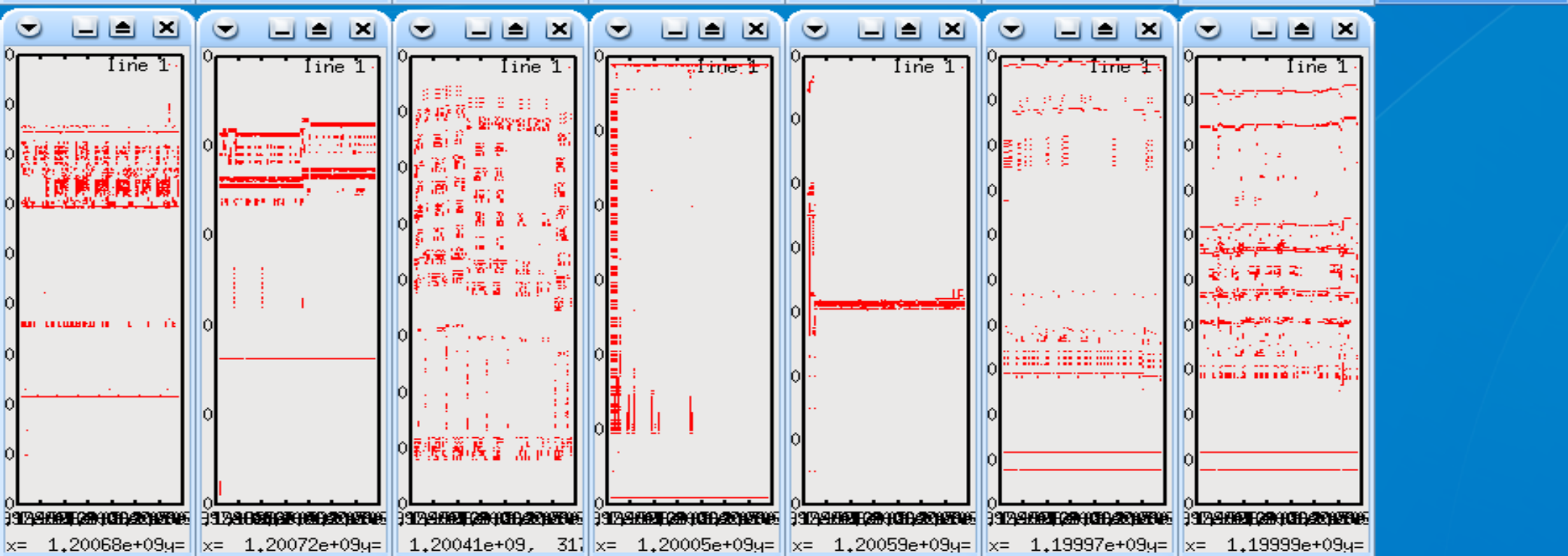
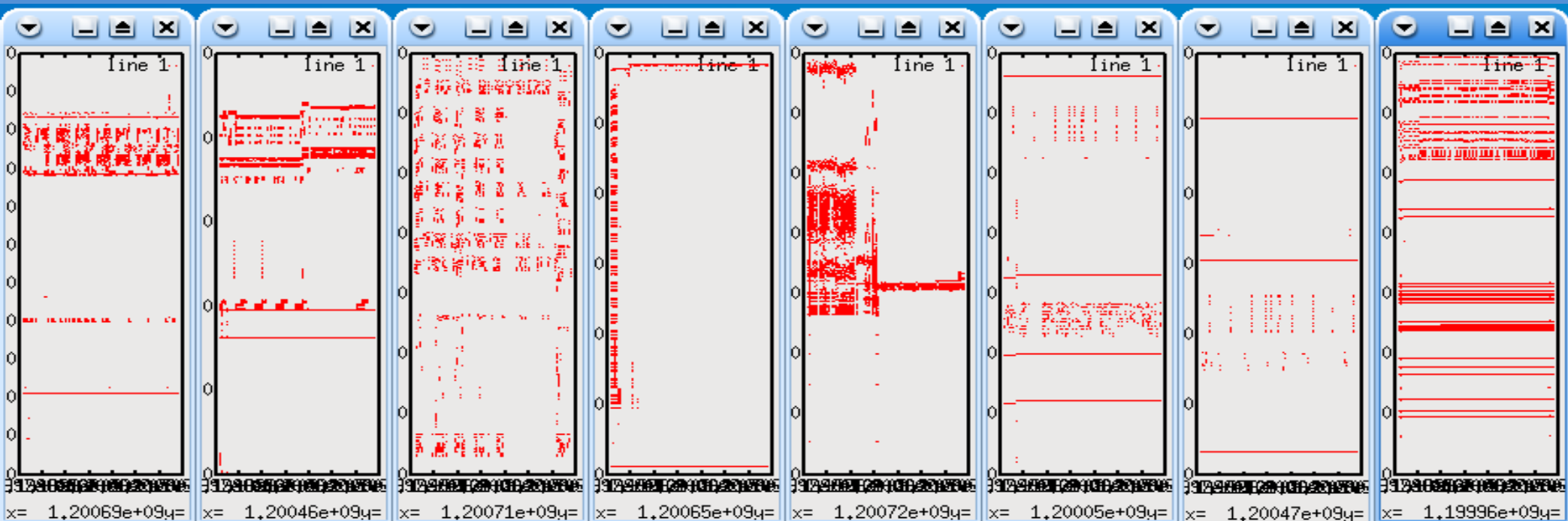
```
a b c d e f g i j k r x y z
```

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want this sequence to be as long as possible. In this case it is

```
a b c d f g j z
```

From the longest common subsequence it's only a small step to get diff-like output:

```
e   h i   k   q r x y  
+   - +   +   - + + +
```



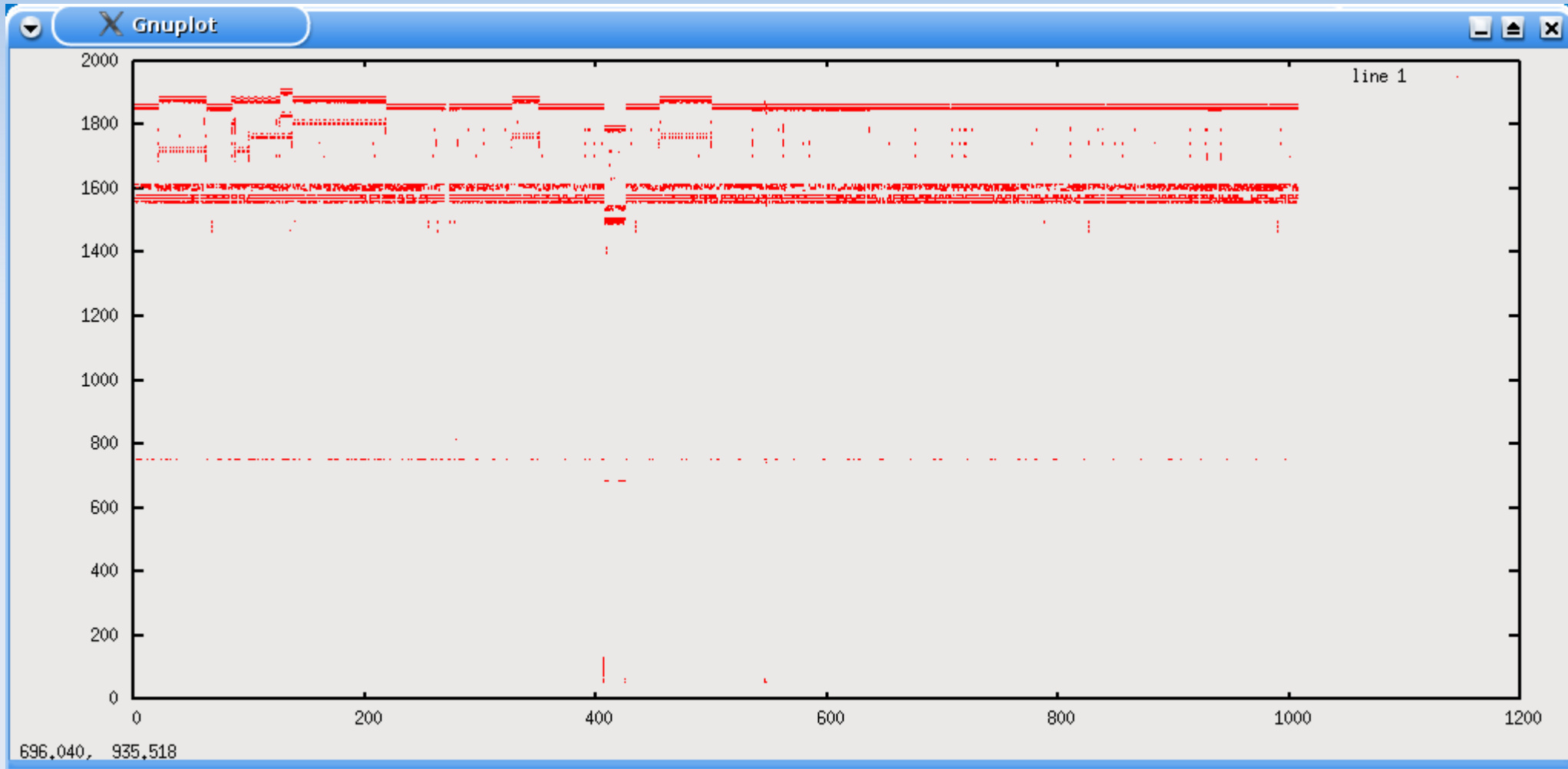
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<http://news.bbc.co.uk/2/hi/technology/7149588.stm>

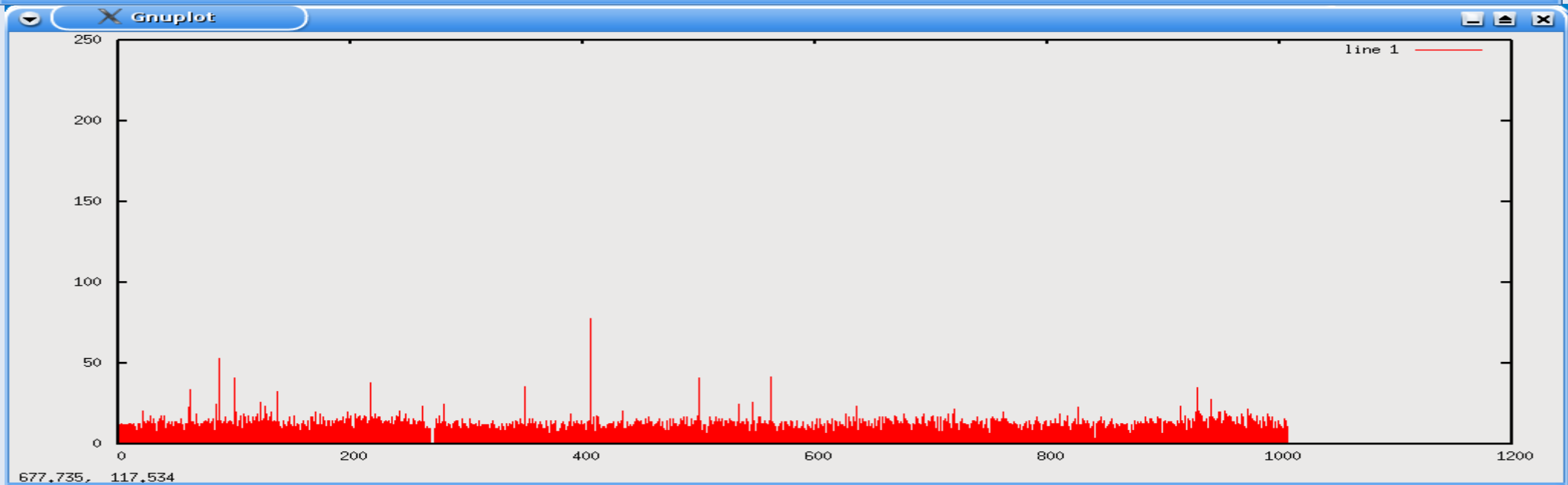
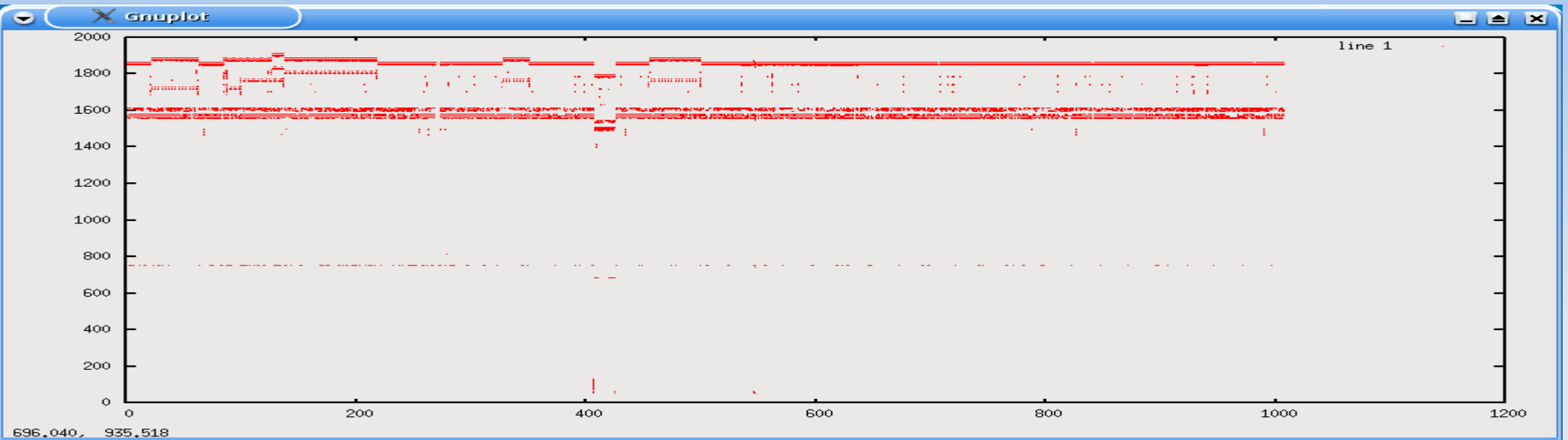
2007-12-18 15:25 -> 2007-12-25 15:16

step: 10 minutes

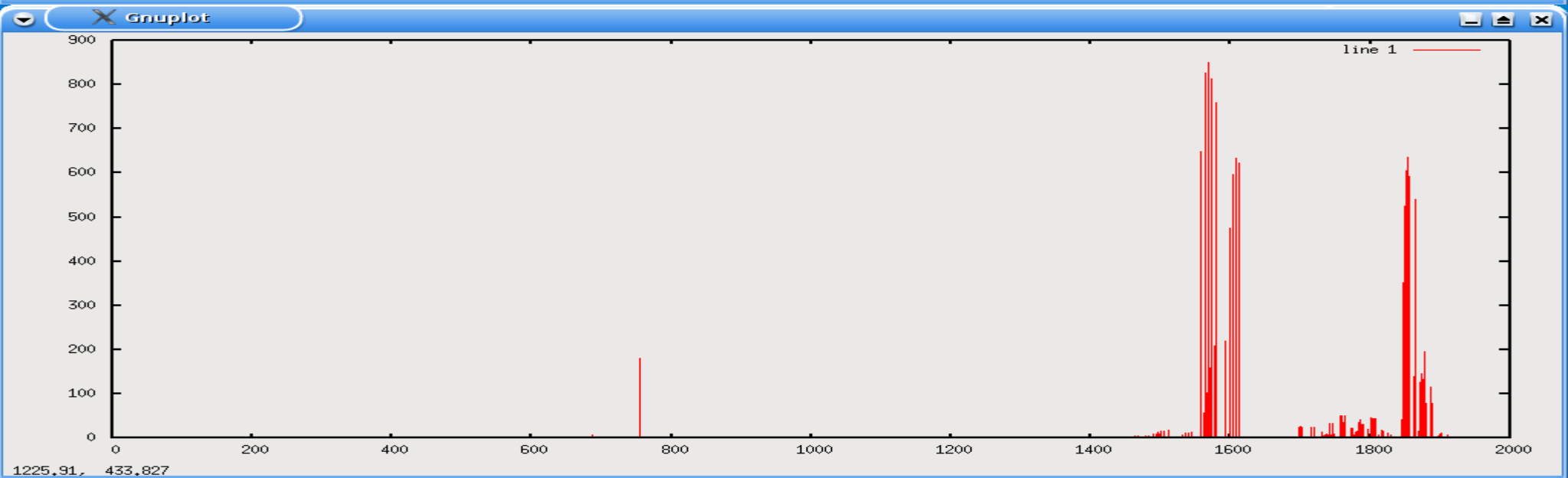
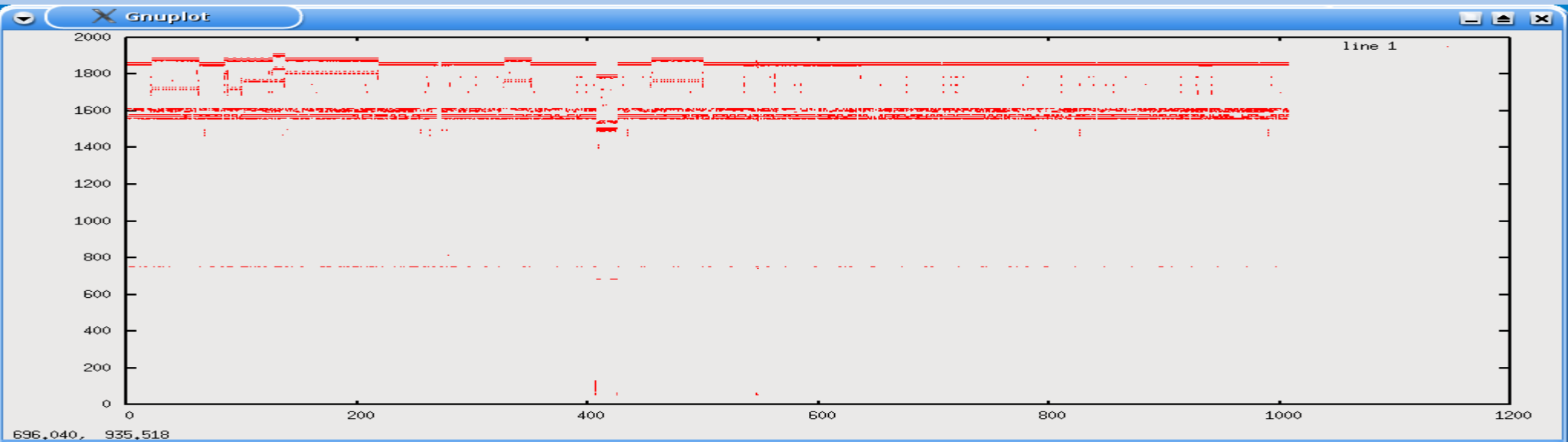
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French Embassy site for Libya said to be serving malware

The French Embassy website for Libya has been compromised and is serving up malware to visitors, according to McAfee.

By Ellen Messmer Framingham | Monday, 17 December, 2007

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McAfee researcher Francois Paget discovered this on Thursday and the company says it has reported its findings to the French government. The site has been attacked using an [iFrame exploit](#) that inserts an invisible frame in the page in order to re-direct some web browser connections to another location, which serves up a "downloader," code that attempts to reside on the victim machine. If the downloader is successful, the attacker can then remotely attempt to download other malware, "typically a bot or a password-stealing Trojan," says Dave Marcus, McAfee security researcher and communications manager.

Marcus says Paget, a researcher with tools to scan scripts and investigate code behaviour, happened by chance to be looking at the French Embassy website for Libya and discovered the attack code on it. The incident is similar to discoveries made by security researchers of other compromised websites spewing attack code, including that of the [Bank of India](#) and the [MySpace page of Alicia Keys](#).

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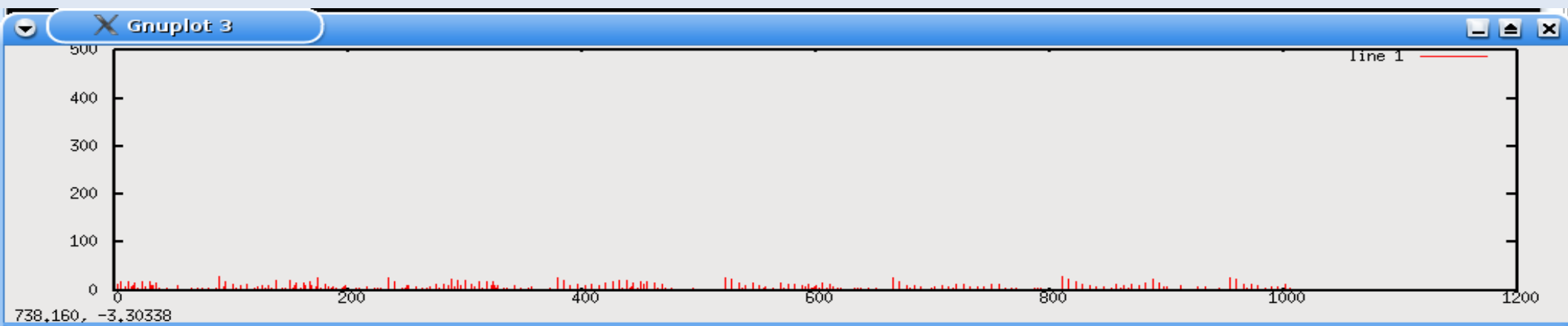
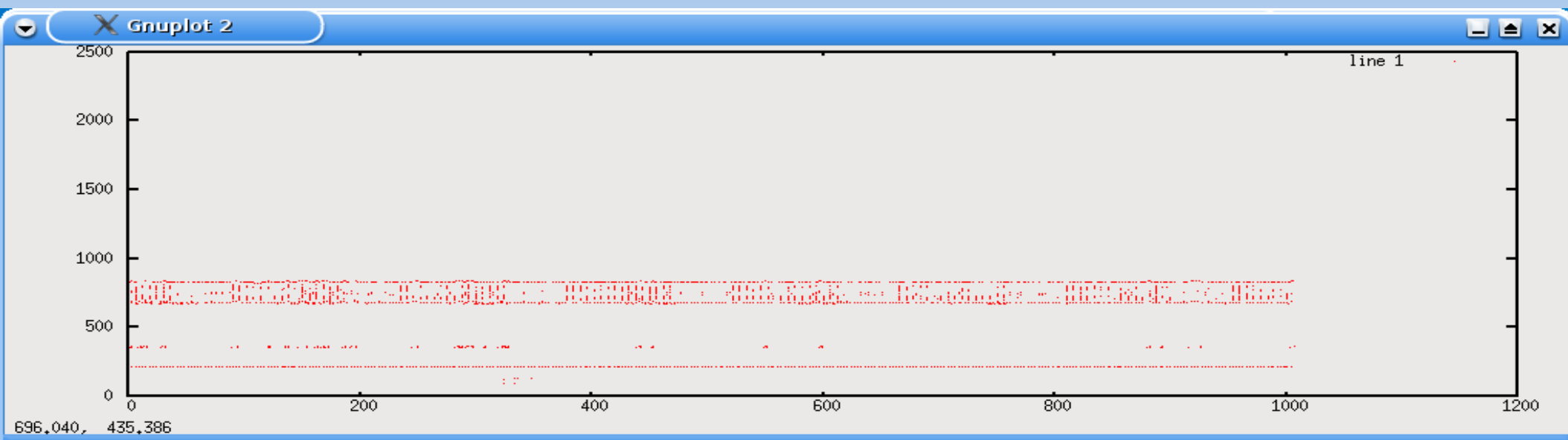
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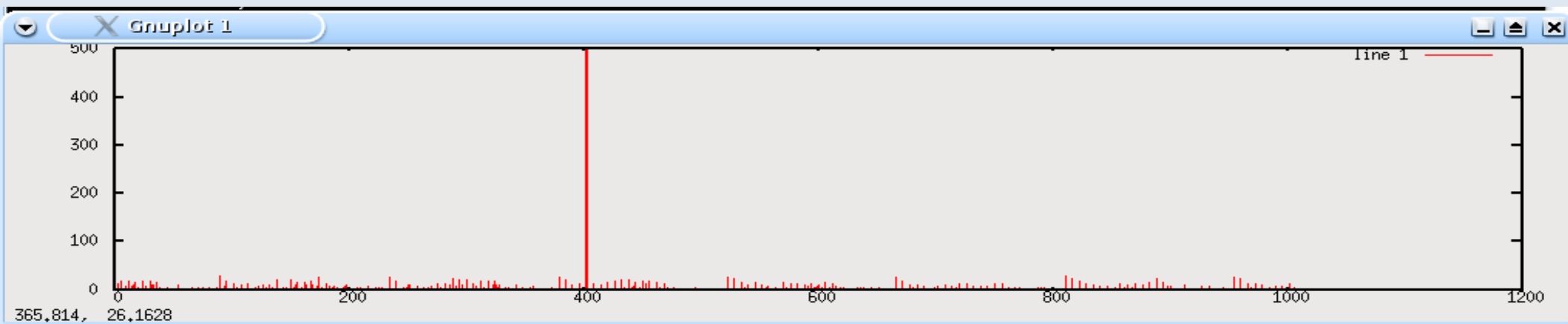
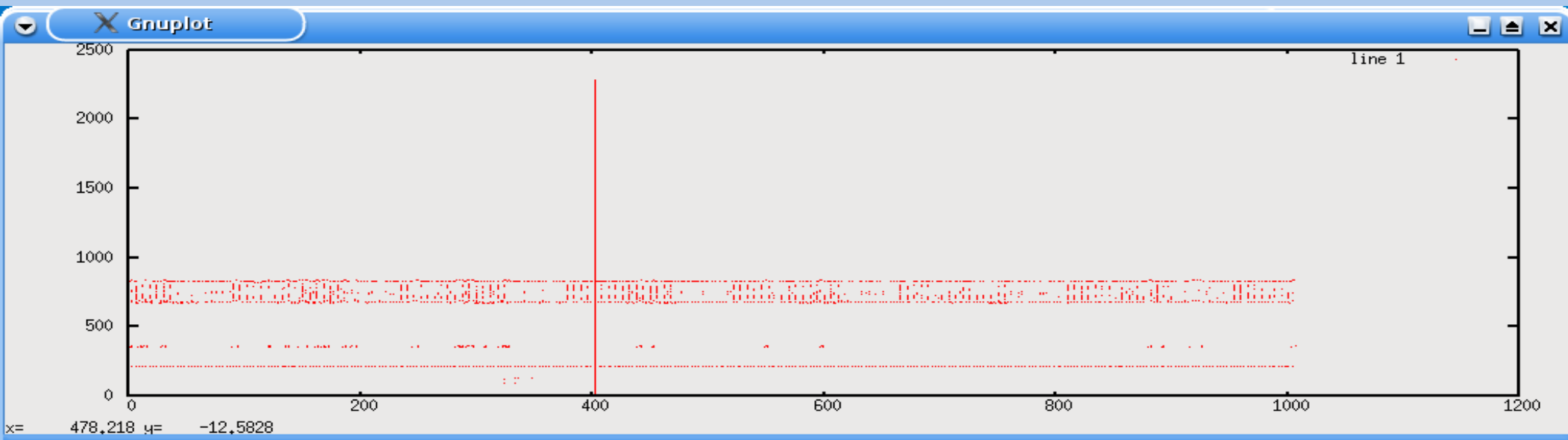
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http://inl.adbureau.net/accipiter/adclick/CID=00003498d34d7eed0000...007506443/pageid=8007506443/site=CW/area=E.CW.scri (In new window)

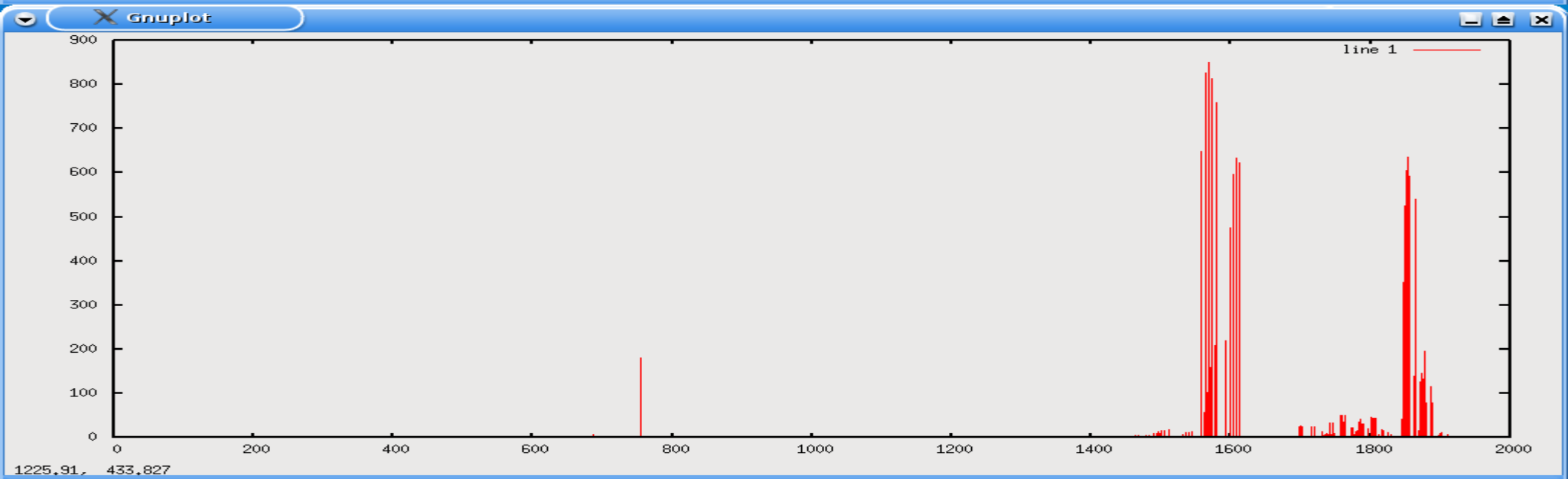
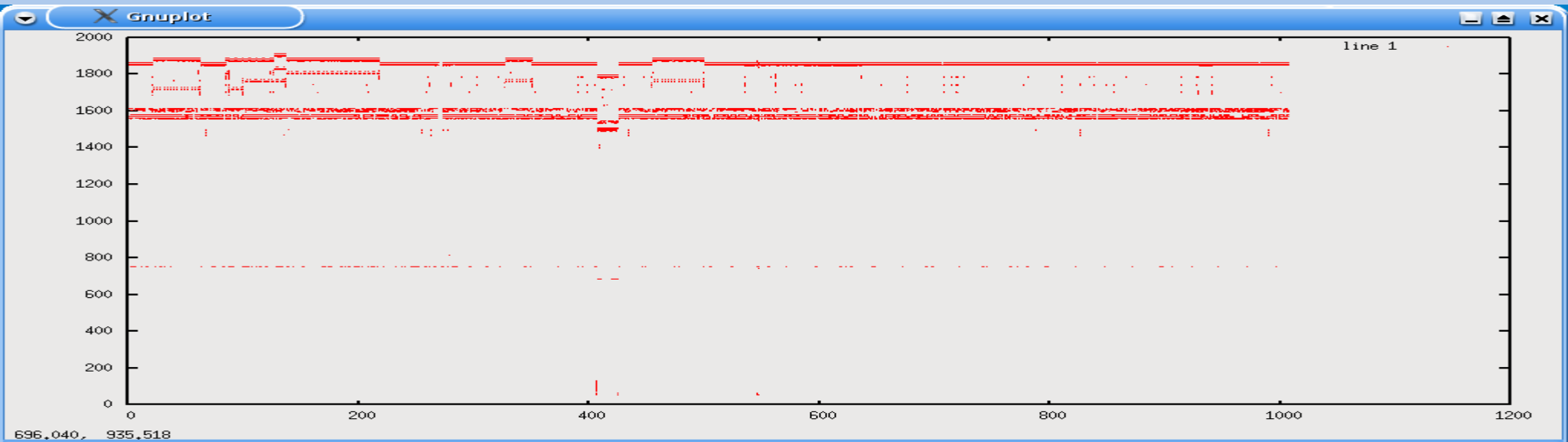
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Thank you