

Overview

In early 2009 I was trialling one of the free Windows Sysinternals tools called "contig.exe" (v1.55) on my home Windows 2003 Domino server to see if I could defragment my NSFs while the Domino server was running and it worked fine. I have since incorporated it with a C++ Lotus Domino server task I developed called DominoDefrag using Visual Studio 2005/2008/2010 and together they've defragged successfully on the R5x (NT4 and Windows 2000), R6x-R7x-R8x (Windows 2003 R2), and R85x (Windows 2008 R2) Domino servers trialled on.

It has grown to defrag a full-text index associated with a Notes database and can now also defrag a Domino server's transaction log and DAOS files. The output is recorded to the Domino server console and miscellaneous events log. Annex B demonstrates new functionality showing examples of Domino server console output with resulting summary e-mails.

The DominoDefrag task has the added functionality of being able to compact a database prior to defragging. This gives more flexibility by not having to wait for an entire database compactor run to complete before running a defragmentation task. It also supports multi-processing (can load multiple times to run concurrently) and use of an indirect file (.ind) to have the same compact batch functionality. See technote <http://www-01.ibm.com/support/docview.wss?rs=0&uid=swg21208136>

Usage and Copyright Disclaimer

This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Please read more about the details of the GNU Affero General Public License @ <http://www.gnu.org/licenses/> and in the distribution's "GNU AFFERO GENERAL PUBLIC LICENSE.txt" file.

Copyright (c) 13 March 2010

Andrew Luder

<http://www.linkedin.com/in/andrewluder>

Andrew Luder

Freelance Lotus Notes Infrastructure Engineer

IBM Certified Advanced Application Developer

Microsoft Certified Systems Engineer and Database Administrator

PO Box 498
Curtin ACT
Australia 2605

Phone: +6 141-016-6636
E-mail: andrewluder@aapt.net.au
<http://www.linkedin.com/in/andrewluder>

Version History

Version	Changes
2.3	<ul style="list-style-type: none"> • Supports multi-processing so now can load multiple times to run concurrently • Supports use of indirect file (.ind) to have same functionality as compact. See technote 1208136 • Fixed bug NOSS-82ZBX5 where Notes INI MailServer parameter not specified • Fixed 64bit termination bug caused by PostedDate LNDatetime memory leak
2.2	<ul style="list-style-type: none"> • DominoDefrag_CompactOptions Notes INI parameter to use "ncompact.exe" options and overrides the default behaviour. Will only work when DominoDefrag_Compact=1 • DominoDefrag_RunTime Notes INI parameter stops the task safely after the specified amount of minutes has elapsed and the current database defrag is completed • DominoDefrag_SummaryEmailFrom Notes INI parameter sends summary e-mail with specified from address • Added 2nd command line parameter to use "ncompact.exe" options and overrides DominoDefrag_CompactOptions and the default behaviour. Will only work when DominoDefrag_Compact=1 • Added "tell domindexdefrag q" functionality that terminates the task safely after the current database defrag is completed • Added summary information counter to report database(s) not able to be defragged due to access problems • Fixed bug NOSS-82MQ3K by changing the error handling behaviour to continue to process after not being able to access a database • Fixed bug NOSS-82E6TX by adding PostedDate item to summary email so can sync with BlackBerry
2.1	<ul style="list-style-type: none"> • Fixed serious bug "is not recognized as an internal or external command" when "contig.exe" has spaces in its file path
2.0	<ul style="list-style-type: none"> • DominoDefrag_DAOS Notes INI parameter allows defragging of files defined by the Notes INI "DAOSBasePath" directory value • Compiled 32bit code now uses "lcppn80.dll" rather than "lcppn30i.dll" because DBCOMPACT definitions contained in header file "nsfdb.h" with associated 8.0 toolkit • Fixed bug to stop transaction log processing when Notes INI "TRANSLOG_Path" value not specified • Fixed bug where didn't defrag full-text index for ".box" file • Fixed bug where Compact summary information was shown when DominoDefrag_Compact=0 (turned off) • Fixed bug where was reporting DominoDefrag_MinuteInterval not found when it was specified
1.9	<ul style="list-style-type: none"> • Fixed bug NOSS-7XFBPW by changing compact style to -b when Transactional logging is enabled • Changed compact style from copy (-c) to full recovery in-place (-B) to reduce fragmentation • DominoDefrag_TransactionLog Notes INI parameter allows defragging of files defined by the Notes INI "TRANSLOG_Path" directory value
1.8	<ul style="list-style-type: none"> • DominoDefrag_SummaryEmailAddress Notes INI parameter sends summary e-mail for server • Included summary information for not enough disk space for full-text indexes

Version	Changes
	<ul style="list-style-type: none"> • Included summary information for partial defrag of databases and full-text indexes • Changed "contig.exe" call execution to not use "cmd.exe" • Fixed bug where not reporting platform 32/64bit version correctly
1.7	<ul style="list-style-type: none"> • Fixed bug "problem executing command" when using the Lotus Domino Console (-jc) with R7x and R8x • Replaced "DominoDefrag.log" file and system() function with _popen() function • Report Domino server version
1.6	<ul style="list-style-type: none"> • DominoDefrag_Compact Notes INI parameter allows copy style compact before defrag • Fixed bug which stops Appcrash STATUS_HEAP_CORRUPTION (0xC0000374) from occurring on Windows 2008 64bit version • Fixed bug which stops access violation reading error from occurring on Windows 2003 64bit version • Fixed bug where DominoDefrag_StartPoint not rounding up the average number of fragments for full-text index to a whole number • Provides summary information to server console for not enough disk space • Fixed bug where didn't recognise ".box" file as database
1.5	<ul style="list-style-type: none"> • Supports Folder and Database Links • DominoDefrag_StartPoint Notes INI parameter specifies the average number of fragments required before a database or full-text index is defragged • DominoDefrag_VerboseLogging Notes INI parameter controls amount of server console information • Provides summary information to server console when completed defragging • Redirects DominoDefrag.log file to server's %TEMP% directory • Fixed bug where not terminating session cleanly in Windows 2008 causing a debug dialog box • Fixed bug where didn't recognise ".ns*" file as database
1.4	<ul style="list-style-type: none"> • Supports Windows 64bit platforms (2003 and 2008) • Reports DominoDefrag and platform 32/64bit version to server console • Fixed bug where didn't display short path on "show tasks" processing full text index folder
1.3	<ul style="list-style-type: none"> • DominoDefrag_FTIndex Notes INI parameter allows defragmentation of associated full text Index • Fixed bug where didn't display where defragging on "show tasks" server console command
1.2	<ul style="list-style-type: none"> • DominoDefrag_Directory parameter supports file name or directory path • DominoDefrag_Directory parameter supports short path (e.g. just use names.nsf or mail) • DominoDefrag_Directory parameter behaviour changed to exit when can't find file or folder • Reports Windows and "contig.exe" versions • Fixed bug where not reporting file already defragmented using "contig.exe" v1.55 • Fixed bug where not reporting not enough disk space to defrag file • Fixed bug where /accepteula flag not valid for versions of "contig.exe" < 1.55
1.1	<ul style="list-style-type: none"> • Supports NT4 and versions of "contig.exe" < 1.55 • Reports to server console when already defragmented • Fixed bug where "contig.exe" would not process file name with spaces
1.0	<ul style="list-style-type: none"> • First release

File Information

The DominoDefrag 32bit server task requires the following files installed in the Domino program directory on a Windows 2000/2003/2008 32 bit server:

File	Source
contig.exe	http://technet.microsoft.com/en-us/sysinternals/bb897428.aspx (must use "contig.exe" version < 1.55 when running on Windows NT4)
lcppn80.dll	See Annex A for instruction on how to get from IBM in Lotus C++ API Toolkit for Notes/Domino 8.0
DominoDefrag.exe	In 32bit folder in "DominoDefrag v2.3.zip" distribution file (13-03-2010 16:00)

The DominoDefrag 64bit server task requires the following files installed in the Domino program directory on a Windows 2003/2008 64bit server:

File	Source
contig.exe	http://technet.microsoft.com/en-us/sysinternals/bb897428.aspx
lcppn801.dll	See Annex A for instruction on how to get from IBM in Lotus C++ API Toolkit for Notes/Domino 8.0.1 for Windows 64 Bit
DominoDefrag.exe	In 64bit folder in "DominoDefrag v2.3.zip" distribution file (13-03-2010 16:00)

Run Information

The DominoDefrag server task can be run from the Domino server console, a program document, or the Notes INI **servertask** line.

Domino server Notes INI parameters are:

Notes INI Parameter	What it does
DominoDefrag_Directory	Defaults to root data directory if not specified
DominoDefrag_Directory = mail	Same as "c:\lotus\domino\data\mail". Exits if not found
DominoDefrag_Directory = names.nsf	Same as "c:\lotus\domino\data\names.nsf". Exits if not found
DominoDefrag_MinuteInterval = 60	Runs the server task continuously to the specified minute interval. Will default to 0 (off) if not specified
DominoDefrag_Runtime = 30	Server task stops safely after the specified amount of minutes has elapsed and when the current database defrag has completed. Will default to 0 (off) if not specified
DominoDefrag_FTIndex = 1	Will defrag associated full text index folder's file(s). Will default to 0 (off) if not specified
DominoDefrag_StartPoint = 10	Specifies the average number of fragments required before a database or full-text index is defragged. Will default to 2 if not specified
DominoDefrag_VerboseLogging = 1	Controls amount of server console information. Will default to 0 (off) if not specified
DominoDefrag_Compact = 1	Allows in-place compact before defrag. Will default to 0 (off) if not specified
DominoDefrag_CompactOptions = -C	Allows use of "ncompact.exe" options and overrides the default behaviour. Will only work when DominoDefrag_Compact=1 and 2nd command line parameter not specified
DominoDefrag_SummaryEmailAddress = World Administrator	Sends summary e-mail for server to specified e-mail address. Will not send email if not specified
DominoDefrag_SummaryEmailFrom = spider.man@acme.com	Sends summary e-mail for server from specified e-mail address. Will default to "DominoDefrag" if not specified
DominoDefrag_TransactionLog = 1	Will defrag transaction log files under the Notes INI "TRANSLOG_Path" directory value. Will default to 0 (off) if not specified
DominoDefrag_DAOS = 1	Will defrag DAOS files under the Notes INI "DAOSBasePath" directory value. Will default to 0 (off) if not specified

Server task parameter is (overrides Notes INI equivalent):

DominoDefrag.exe <DominoDefrag_Directory> <DominoDefrag_CompactOptions>

Defrag/Compact Requirement	Load DominoDefrag statement example
Defrag all directories	Load Dominodefrag
Defrag all directories with compact	Load Dominodefrag " " -c
Defrag all directories with compact containing space(s) in options	Load Dominodefrag " " -B -S 10"

Defrag/Compact Requirement	Load DominoDefrag statement example
Defrag subdirectory	Load Dominodefrag mail
Defrag subdirectory with compact	Load Dominodefrag mail -c
Defrag subdirectory with compact containing space(s) in options	Load Dominodefrag mail "-B -S 10"
Defrag subdirectory containing space(s)	Load Dominodefrag "mail\company x"
Defrag subdirectory containing space(s) with compact	Load Dominodefrag "mail\company x" -c
Defrag subdirectory containing space(s) with compact containing space(s) in options	Load Dominodefrag "mail\company x" "-B -S 10"
Defrag nsf/ntf/dir/box file	Load Dominodefrag names.nsf
Defrag nsf/ntf/dir/box file with compact	Load Dominodefrag mail85.ntf -c
Defrag nsf/ntf/dir/box file with compact containing space(s) in options	Load Dominodefrag mail.box "-B -S 10"
Defrag nsf/ntf/dir/box file containing space(s)	Load Dominodefrag "tdrive link.dir"
Defrag nsf/ntf/dir/box file containing space(s) with compact	Load Dominodefrag "tdrive link.dir" -c
Defrag nsf/ntf/dir/box file containing space(s) with compact containing space(s) in options	Load Dominodefrag "tdrive link.dir" "-B -S 10"

Developer Workstation Setup Information

Server Requirement	Distribution Document Choice(s)
Compile to work with Windows NT4	<ul style="list-style-type: none"> • "DominoDefrag Visual Studio 2005 32bit Workstation Setup.pdf" in 32bit folder
Compile to work with Windows 2000/2003/2008 32bit versions	<ul style="list-style-type: none"> • "DominoDefrag Visual Studio 2005 32bit Workstation Setup.pdf" in 32bit folder • "DominoDefrag Visual Studio 2008 C++ Express Edition 32bit Workstation Setup.pdf" in 32bit folder • "DominoDefrag Visual Studio 2010 32bit Workstation Setup.pdf" in 32bit folder
Compile to work with Windows 2003/2008 64bit versions	<ul style="list-style-type: none"> • "DominoDefrag Visual Studio 2008 64bit Workstation Setup.pdf" in 64bit folder • "DominoDefrag Visual Studio 2010 64bit Workstation Setup.pdf" in 64bit folder

Independent Review

Over a 7 month period, Spanish Lotus User Group (ESLUG) blogger Albert Buendia road tested DominoDefrag (versions 1.4-2.1) and presents his comprehensive findings in the PDF files below @

- English version -> [http://www.slug.es/blogslug.nsf/dx/defragging-domino-servers-v12.pdf/\\$file/defragging-domino-servers-v12.pdf](http://www.slug.es/blogslug.nsf/dx/defragging-domino-servers-v12.pdf/$file/defragging-domino-servers-v12.pdf)
- Spanish version -> [http://slugmail.slug.es/BlogSlug.nsf/dx/desfragmentando-servidores-domino-v2.pdf/\\$file/desfragmentando-servidores-domino-v2.pdf](http://slugmail.slug.es/BlogSlug.nsf/dx/desfragmentando-servidores-domino-v2.pdf/$file/desfragmentando-servidores-domino-v2.pdf)

Other Related information

- Contig.exe (v1.55) By Mark Russinovich (Sysinternals) - <http://technet.microsoft.com/en-us/sysinternals/bb897428.aspx>
- Lotus C++ API toolkits - <http://www.ibm.com/developerworks/lotus/downloads/toolkits.html>
- IBM Technote 1229817 - "Slow response from a Domino server when attempting to open a Lotus Notes database or switch views in the database" - <http://www-01.ibm.com/support/docview.wss?rs=899&uid=swg21229817>
- Lotus Notes and Domino wiki article - "IBM Lotus Domino Server performance: Hard disk fragmentation" - <http://www-10.lotus.com/ldd/dominowiki.nsf/dx/01152009062114PMWEBVDT.htm>
- Greyhawk's Meanderings Blog - "The great defrag debate. Defrag Domino or No" - <http://www.greyhawk68.com/greyhawk68/home.nsf/d6plinks/JROG-7F8TZS>
- The Weird World of Eknori - "Database Defragmentation - Poor Man's Solution" - <http://www.eknori.de/2008-11-29/database-defragmentation-poor-mans-solution/>
- Visual Studio 2008/2010 C++ Express Editions - <http://www.microsoft.com/express/download/>

Annex A – How to get IBM Toolkit DLLs

This instruction covers getting the DominoDefrag 32bit “lcppn80.dll” that comes with the **Lotus C++ API Toolkit for Notes/Domino 8.0** and/or the 64bit “lcppn801.dll” comes with the **Lotus C++ API Toolkit for Notes/Domino 8.0.1 for Windows 64 Bit**. See the following steps:

1. Goto <http://www.ibm.com/developerworks/lotus/downloads/toolkits.html> and click on the **Lotus C++ API toolkit** link (see Figure 1).

The screenshot shows the IBM DeveloperWorks Toolkit web page. The page title is "Lotus downloads" and it features a table of toolkits. The "Lotus C++ API toolkit" link is highlighted in red. The table below is a reproduction of the content shown in the screenshot.

Toolkit/Driver	Description	Documentation
Lotus C API toolkit	A toolkit that lets you control Domino components using Domino's C API	For V8.0 and later, the documentation is included with the toolkit. For earlier versions, see the Lotus C API toolkit documentation .
Lotus C++ API toolkit	A toolkit that lets you control Domino components using Domino's C++ API	For V7.0 and later, the documentation is included with the toolkit. For earlier versions, see the Lotus C++ API toolkit documentation .
Lotus Domino Toolkit for WebSphere Studio	A toolkit that lets you integrate Domino and WebSphere applications using the Domino custom JSP tag libraries.	Documentation is included with the toolkit.

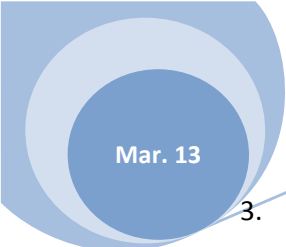
Figure 1 - IBM DeveloperWorks Toolkit web page

2. On the “No-charge products, tools, and toolkits” web page select the link(s) to download each toolkit highlighted in red (see Figure 2).

The screenshot shows the "No-charge products, tools, and toolkits" web page. The search results table is displayed, and the second row is highlighted in red. The table below is a reproduction of the content shown in the screenshot.

Name	Version	Type	Release date	Size	Operating system
1. Lotus C++ API Toolkit for Notes/Domino 8.0.1 for AIX 64 Bit No description available	8.0.1	Tool	10 Mar 2008	10 MB	AIX 5L V5
2. Lotus C++ API Toolkit for Notes/Domino 8.0.1 for Windows 64 Bit No description available	8.0.1	Tool	10 Mar 2008	6 MB	Windows Server 2003
3. Lotus C++ API Toolkit for Notes/Domino 8.0 No description available	8.0	Tool	15 Oct 2007		AIX 5L V5, Linux for System x 86Series, Solaris (Sun), Windows 2000, Windows Server 2003, Windows XP, i5 (formerly i5/OS V5)
4. Lotus C++ API Toolkit for Notes/Domino 3.0i Multiplatform No description available	3.0i	Released product	30 Mar 2007		AIX 5L V5, Linux for System x 86Series, Solaris (Sun), Windows 2000, Windows Server 2003, Windows XP

Figure 2 - “No-charge products, tools, and toolkits” web page



- 3. Click **Continue** on either Figure 3 or Figure 4.

Software >

Lotus C++ API Toolkit for Notes/Domino 8.0.1 for Windows 64 Bit Download

Step 1 of 3

Lotus C++ API Toolkit for Notes/Domino 8.0.1 for Windows 64 Bit, Windows Server 2003, 8.0.1		
	Media	Languages included
Continue	download	English International

Figure 3 – Lotus C++ API Toolkit for Notes/Domino 801 for Windows 64Bit web page (required for DominoDefrag 64bit)

Software >

Tool download: 8.0

This download is available for no fee, but does require registration. If you do not have an userid, please [Register](#) now.

Lotus C++ API Toolkit for Notes/Domino 8.0	
Operating system	AIX 5L V5, Linux for System x 86Series, Solaris (Sun), Windows 2000, Windows Server 2003, Windows XP, i 5 (formerly i5/OS V5)
Version	8.0
Language	English International
Media type	download

Continue

Software download FAQ's

Can't find what you are looking for?

[→ View our FAQ's](#)

Related resources

[→ Software Evaluation Kit \(SEK\)](#)

[→ IBM software early programs](#)

Figure 4 – Lotus C++ Toolkit for Notes/Domino 8.0 web page (required for DominoDefrag 32bit)

4. Sign into Lotus Support with your IBM ID (see Figure 5).

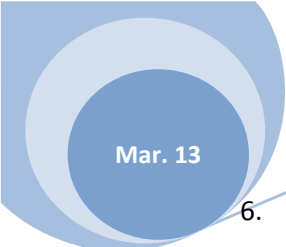
The screenshot shows the Lotus Support web page. At the top, there is a navigation bar with the IBM logo on the left and a search bar on the right. Below the navigation bar, there is a main header area with the text "Lotus Support" and "Lotus Support" in large font. On the left side, there is a "Related links" section with a link to "Warranties and maintenance". The main content area is divided into two columns. The left column is titled "Returning visitors" and contains a form for signing in. The form has two input fields: "IBM ID: (usually e-mail address)*" and "Password*", each with a "Forgot your..." link below it. At the bottom of the form is a "Sign in" button. The right column is titled "Not registered?" and contains text explaining that users without a universal IBM user ID should register. It also provides a link to "IBM ID Help and FAQ" for more information.

Figure 5 - Lotus Support web page

5. Read the **Privacy** and **License** information and at a minimum click **I agree** and then click **I confirm** (see Figure 6)

The screenshot shows the Privacy and License information web page. It is divided into two main sections: "Privacy" and "License". The "Privacy" section contains a warning that data is stored on international servers and can be used by IBM or affiliates. It also includes an email opt-in section with a checkbox for "E-mail: Yes, please have IBM or an affiliate send me e-mail." and another checkbox for "Other communications: Please do not use the information I have provided here." Below this is a statement about the user's agreement to the privacy policy. The "License" section contains a link to "View license" and a section for the "I agree" checkbox. Below the "I agree" checkbox is a statement about the user's agreement to the license terms. At the bottom of the page, there are two buttons: "I confirm" and "I cancel".

Figure 6 - Privacy and License information web page



- 6. Click **Download now** on either Figure 7 or Figure 8.

Lotus Support

Downloads	
Lotus Support for Windows Server 2003 Lotus C++ API Toolkit for Notes/Domino 8.0.1 for Windows 64 Bit English International	
To download using http, click on 'Download now'.	
<hr/>	
IBM Lotus C++ API Toolkit for Notes/Domino 8.0.1 for Windows 64 Bit C19PBEN.zip (6 MB)	Download now

Figure 7 - Lotus C++ API Toolkit for Notes/Domino 8.0.1 for Windows 64 Bit (C19PBEN.zip) download web page

Downloads	
Lotus Support for AIX 5L V5, i 5 (formerly i5/OS V5), Linux for System x 86 Series, Solaris (Sun), Windows 2000, Windows Server 2003, Windows XP Lotus C++ API Toolkit for Notes/Domino 8.0 English International	
To download using http, click on 'Download now'.	
<hr/>	
Lotus C++ API Toolkit for Notes/Domino 8.0 for Windows English C99N6EN.zip (16 MB)	Download now
Lotus C++ API Toolkit for Notes/Domino 8.0 for UNIX English C99N7EN.tar.Z (24 MB)	Download now
<hr/>	
Lotus C++ API Toolkit for Notes/Domino 8.0 for i5/OS English C99N8EN.zip (21 MB)	Download now
<hr/>	

Figure 8 - Lotus C++ API Toolkit for Notes/Domino 8.0 Windows English (C99N6EN.zip) download web page

- 7. Click **Save** on either Figure 9 or Figure 10.

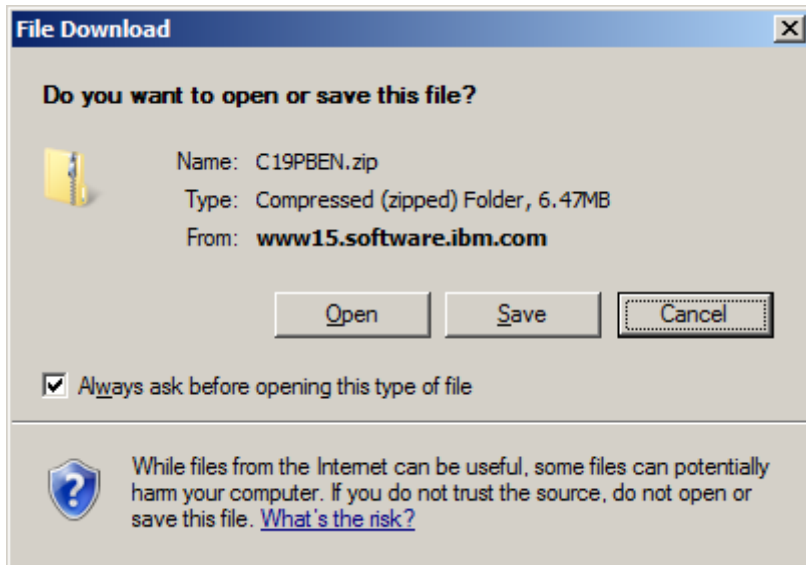


Figure 9 - C19PBEN.zip File Download prompt

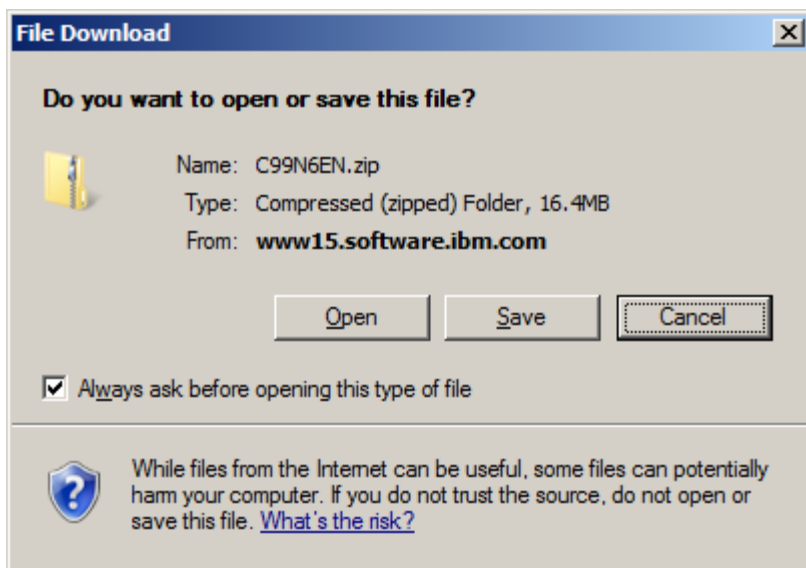


Figure 10 - C99N6EN.zip File Download prompt

8. Choose folder to store file and click **Save** in Figure 11.

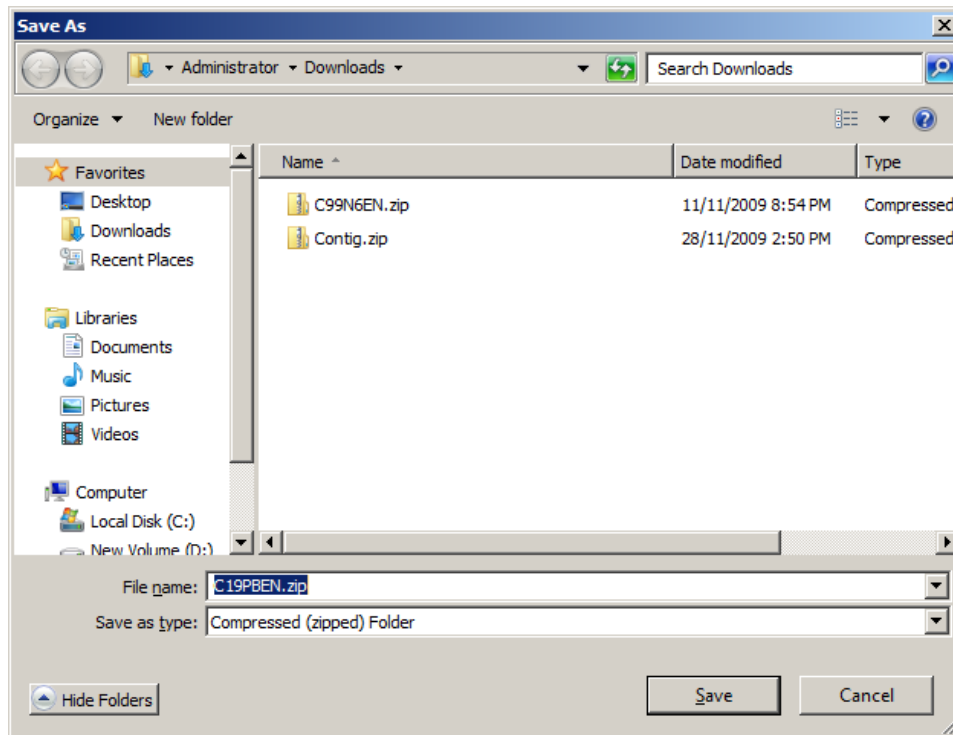


Figure 11 - Save As Dialog Box

9. Once download is complete – click **Open** in Figure 12.

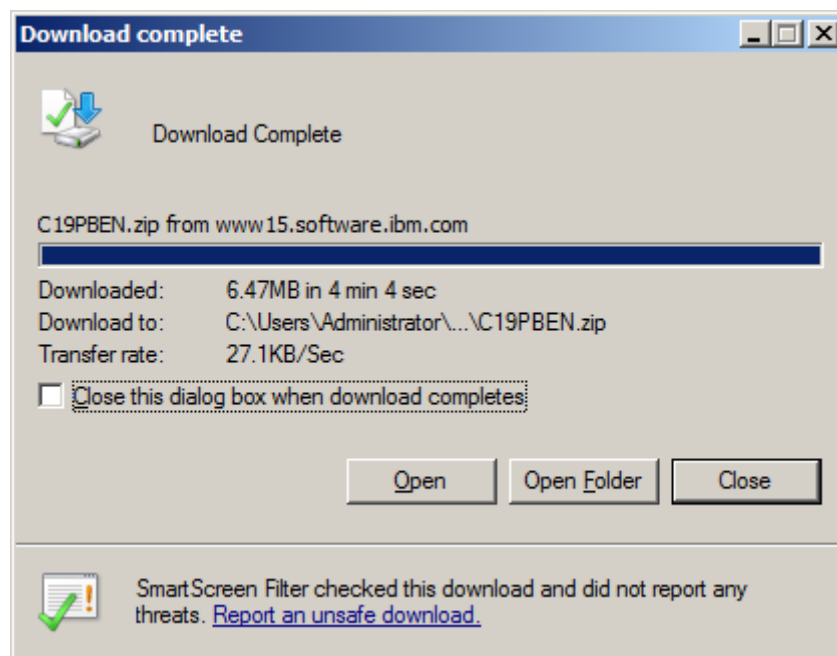


Figure 12 - Download complete dialog box

- After opening “C19PBEN.zip”, navigate to the “notescpp\lib\mswin64” folder and copy the “lcppn801.dll” file from Figure 13 into your DominoDefrag 64bit Lotus Domino server program directory.

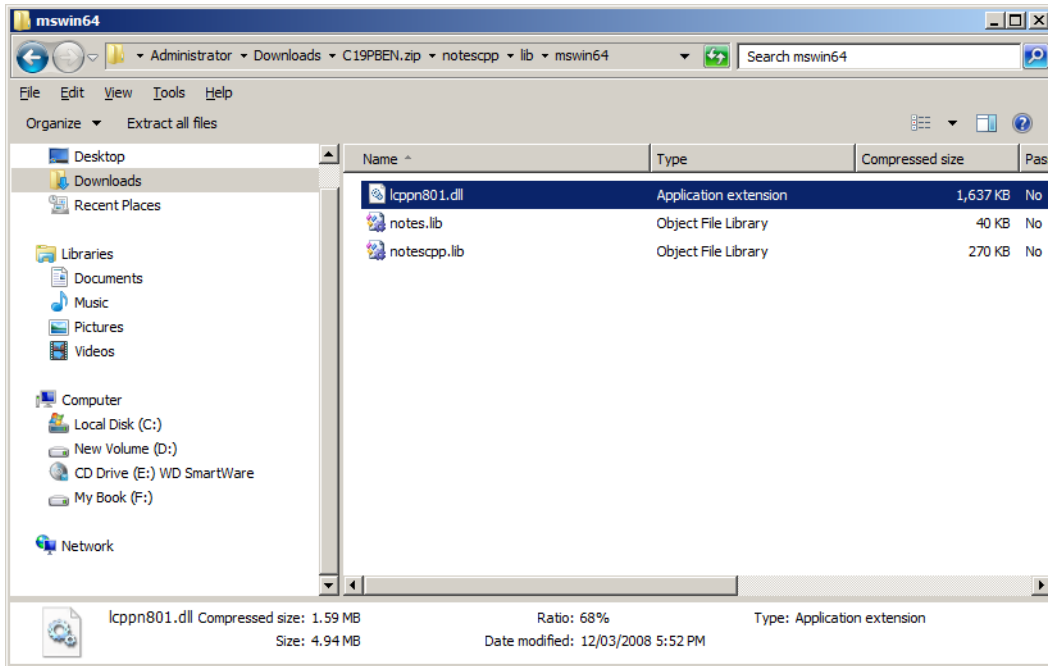


Figure 13 – C19PBEN.zip notescpp\lib\mswin64 folder containing lcppn801.dll

- After opening “C99N6EN.zip”, navigate to the “notescpp\lib\mswin32” folder and copy the “lcppn80.dll” file from Figure 14 into your DominoDefrag 32bit Lotus Domino server program directory.

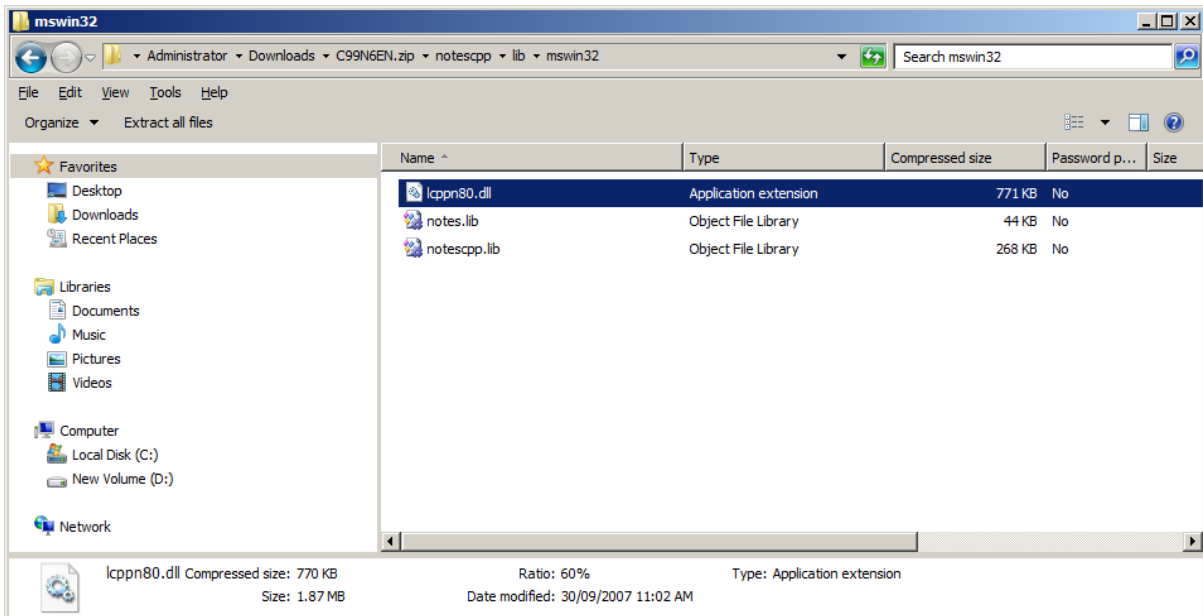


Figure 14 - C99N6EN.zip notescpp\lib\mswin32 folder containing lcppn80.dll

Annex B – Examples of latest functionality

```

THUNDERSTRUCK/ACDC: Lotus Domino Server (64 Bit)
13/03/2010 05:42:06 PM DominoDefrag: admin4.ntf Already being processed
13/03/2010 05:42:06 PM DominoDefrag: agentrunner.nsf Started Compact
13/03/2010 05:42:07 PM DominoDefrag: admin4.ntf Completed Compact. No change in
size
13/03/2010 05:42:07 PM DominoDefrag: admin4.ntf Started Defrag
13/03/2010 05:42:10 PM DominoDefrag: activity.ntf File Size -> 1474560 bytes
13/03/2010 05:42:10 PM DominoDefrag: activity.ntf Before Fragments -> 16
13/03/2010 05:42:10 PM DominoDefrag: activity.ntf After Fragments -> 1
13/03/2010 05:42:10 PM DominoDefrag: activity.ntf Completed Defrag
13/03/2010 05:42:10 PM DominoDefrag: admin4.nsf Already being processed
13/03/2010 05:42:10 PM DominoDefrag: admin4.ntf Already being processed
13/03/2010 05:42:10 PM DominoDefrag: agentrunner.nsf Already being processed
13/03/2010 05:42:10 PM DominoDefrag: alog4.ntf Started Compact
13/03/2010 05:42:10 PM DominoDefrag: agentrunner.nsf Completed Compact. No chan
ge in size
13/03/2010 05:42:10 PM DominoDefrag: agentrunner.nsf Started Defrag
13/03/2010 05:42:12 PM DominoDefrag: admin4.nsf File Size -> 2138112 bytes
13/03/2010 05:42:12 PM DominoDefrag: admin4.nsf Before Fragments -> 21
13/03/2010 05:42:12 PM DominoDefrag: admin4.nsf After Fragments -> 1
13/03/2010 05:42:12 PM DominoDefrag: admin4.nsf Completed Defrag
13/03/2010 05:42:12 PM DominoDefrag: admin4.ntf Already being processed
13/03/2010 05:42:12 PM DominoDefrag: agentrunner.nsf Already being processed
13/03/2010 05:42:12 PM DominoDefrag: alog4.ntf Already being processed
13/03/2010 05:42:12 PM DominoDefrag: archlg50.ntf Started Compact
>
    
```

Figure 15 – Example 1 showing the latest multi-processing functionality (can load multiple times to run concurrently)

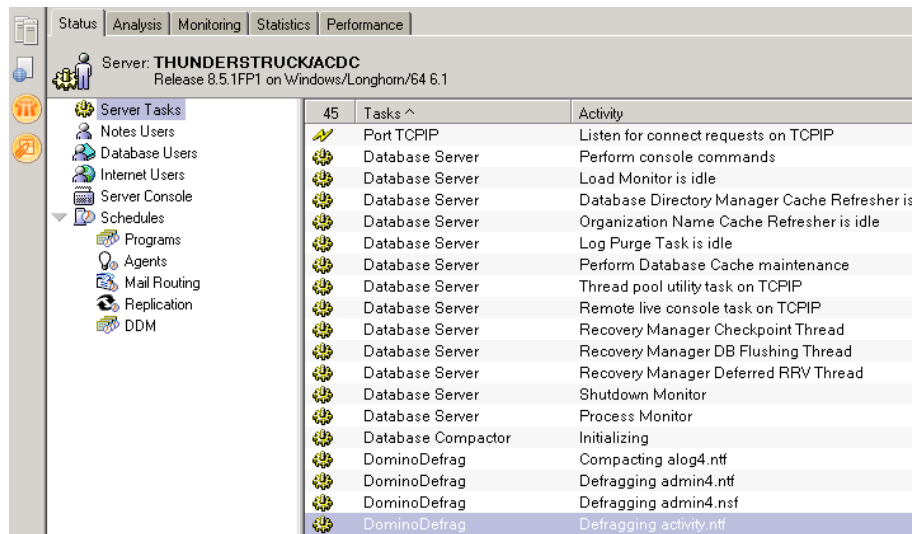


Figure 16 - Example 1 Domino Administrator showing the 4 x load DominoDefrag commands running concurrently

Mar. 13

```

THUNDERSTRUCK/ACDC: Lotus Domino Server
> load dominodefrag tryme.ind
13/03/2010 05:25:08 PM DominoDefrag: v2.3 (13 Mar 2010)
13/03/2010 05:25:08 PM DominoDefrag: Initializing...
13/03/2010 05:25:08 PM DominoDefrag: Running on Windows 5.2.3790.Service Pack 2
13/03/2010 05:25:08 PM DominoDefrag: Running on Domino 368
13/03/2010 05:25:08 PM DominoDefrag: Using contig.exe 1.55
13/03/2010 05:25:08 PM DominoDefrag: 32bit version running on 32bit platform
13/03/2010 05:25:08 PM DominoDefrag: File -> tryme.ind
13/03/2010 05:25:08 PM DominoDefrag: Process Full Text Index -> On
13/03/2010 05:25:08 PM DominoDefrag: DominoDefrag_MinuteInterval parameter not found. Task
k will only run once
13/03/2010 05:25:08 PM DominoDefrag: DominoDefrag_RunTime parameter not found. No time li
mit on task execution
13/03/2010 05:25:08 PM DominoDefrag: DominoDefrag_StartPoint not found. Defaulting to 2
13/03/2010 05:25:08 PM DominoDefrag: Verbose Logging -> Off
13/03/2010 05:25:08 PM DominoDefrag: Compact Database Before Defrag -> On
13/03/2010 05:25:08 PM DominoDefrag: Compact Database Options -> -C
13/03/2010 05:25:08 PM DominoDefrag: Summary Email Address -> world administrator
13/03/2010 05:25:08 PM DominoDefrag: Transaction Log -> Off
13/03/2010 05:25:08 PM DominoDefrag: DAOS -> Off
13/03/2010 05:25:08 PM DominoDefrag: Initialization complete
13/03/2010 05:25:09 PM DominoDefrag: admin4.nsf Compacting
13/03/2010 05:25:14 PM DominoDefrag: admin4.nsf Defragging
13/03/2010 05:25:21 PM DominoDefrag: admin4.ft Directory does not exist
13/03/2010 05:25:21 PM DominoDefrag: mail\wadminis.nsf Compacting
13/03/2010 05:25:35 PM DominoDefrag: mail\wadminis.nsf Defragging
13/03/2010 05:25:43 PM DominoDefrag: mail\wadminis.ft Directory does not exist
13/03/2010 05:25:43 PM DominoDefrag: webadmin.ntf Compacting
13/03/2010 05:25:50 PM DominoDefrag: webadmin.ntf Defragging
13/03/2010 05:25:57 PM DominoDefrag: webadmin.ft Directory does not exist
13/03/2010 05:25:57 PM DominoDefrag: dfc\dfc100.nsf Compacting
13/03/2010 05:26:01 PM DominoDefrag: dfc\dfc100.nsf Defragging
13/03/2010 05:26:08 PM DominoDefrag: dfc\dfc100.ft Directory does not exist
13/03/2010 05:26:08 PM DominoDefrag: mail.box Compacting
13/03/2010 05:26:11 PM DominoDefrag: mail.box Compact error: Database is currently in use
by you or another user
13/03/2010 05:26:13 PM DominoDefrag: mail.box Already Defragmented
13/03/2010 05:26:13 PM DominoDefrag: mail.ft Directory does not exist
13/03/2010 05:26:13 PM DominoDefrag: Total databases to be processed -> 5
13/03/2010 05:26:13 PM DominoDefrag: Total databases defragged -> 4
13/03/2010 05:26:13 PM DominoDefrag: Total databases partially defragged -> 0
13/03/2010 05:26:13 PM DominoDefrag: Total databases already defragged -> 1
13/03/2010 05:26:13 PM DominoDefrag: Total databases below start point -> 0
13/03/2010 05:26:13 PM DominoDefrag: Total databases with not enough disk space to defrag
-> 0
13/03/2010 05:26:13 PM DominoDefrag: Total databases with no access to defrag -> 0
13/03/2010 05:26:13 PM DominoDefrag: Total databases compacted before defrag -> 4
13/03/2010 05:26:13 PM DominoDefrag: Total full-text indexes defragged -> 0
13/03/2010 05:26:13 PM DominoDefrag: Total full-text indexes partially defragged -> 0
13/03/2010 05:26:13 PM DominoDefrag: Total full-text indexes already defragged -> 0
13/03/2010 05:26:13 PM DominoDefrag: Total full-text indexes below start point -> 0
13/03/2010 05:26:13 PM DominoDefrag: Total full-text indexes with not enough disk space t
o defrag -> 0
13/03/2010 05:26:13 PM DominoDefrag: Termination complete
13/03/2010 05:26:13 PM Router: Message 00235C03 delivered to World Administrator/ACDC
>

```

Figure 17 – Example 2 showing the latest indirect file (.ind) functionality using the “tryme.ind” file below

```

tryme.ind - Notepad
File Edit Format View Help
admin4.nsf
mail
webadmin.ntf
dfc
mail.box|

```

Mar. 13



DominoDefrag Summary Report for THUNDERSTRUCK/ACDC
DominoDefrag to: world administrator

- * Total databases to be processed -> 5
- * Total databases defragged -> 4
- * Total databases partially defragged -> 0
- * Total databases already defragged -> 1
- * Total databases below start point -> 0
- * Total databases with not enough disk space to defrag -> 0
- * Total databases with no access to defrag -> 0
- * Total databases compacted before defrag -> 4
- * Total full-text indexes defragged -> 0
- * Total full-text indexes partially defragged -> 0
- * Total full-text indexes already defragged -> 0
- * Total full-text indexes below start point -> 0
- * Total full-text indexes with not enough disk space to defrag -> 0
- * Start date and time -> 13/03/2010 05:25:09 PM
- * End date and time -> 13/03/2010 05:26:13 PM

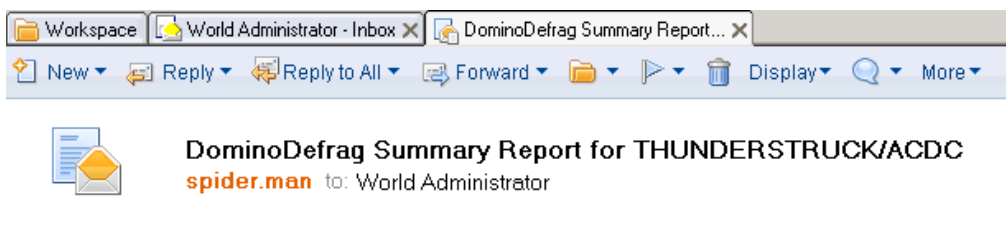
Figure 18 - Example 2 Summary Email sent to World Administrator

```

THUNDERSTRUCK/ACDC: Lotus Domino Server
Indexer           Idle
Schedule Manager  Idle
Event Monitor     Idle

> load dominodefrag "test dbs"
14/02/2010 03:08:24 PM DominoDefrag: v2.2 (14 Feb 2010)
14/02/2010 03:08:24 PM DominoDefrag: Initializing...
14/02/2010 03:08:24 PM DominoDefrag: Running on Windows 5.2.3790.Service Pack 2
14/02/2010 03:08:24 PM DominoDefrag: Running on Domino 368
14/02/2010 03:08:24 PM DominoDefrag: Using contig.exe 1.55
14/02/2010 03:08:24 PM DominoDefrag: 32bit version running on 32bit platform
14/02/2010 03:08:24 PM DominoDefrag: Directory -> test dbs
14/02/2010 03:08:24 PM DominoDefrag: Process Full Text Index -> Off
14/02/2010 03:08:24 PM DominoDefrag: DominoDefrag_MinuteInterval parameter not found. Task will only run once
14/02/2010 03:08:24 PM DominoDefrag: Run Time -> 1
14/02/2010 03:08:24 PM DominoDefrag: DominoDefrag_StartPoint not found. Defaulting to 2
14/02/2010 03:08:24 PM DominoDefrag: Verbose Logging -> On
14/02/2010 03:08:24 PM DominoDefrag: Compact Database Before Defrag -> On
14/02/2010 03:08:24 PM DominoDefrag: Compact Database Options -> -C
14/02/2010 03:08:24 PM DominoDefrag: Summary Email Address -> World Administrator
14/02/2010 03:08:24 PM DominoDefrag: Summary Email From -> spider.man
14/02/2010 03:08:24 PM DominoDefrag: Transaction Log -> Off
14/02/2010 03:08:24 PM DominoDefrag: DAOS -> Off
14/02/2010 03:08:24 PM DominoDefrag: Initialization complete
14/02/2010 03:08:25 PM DominoDefrag: test dbs\bookmarkencrypted.nsf Error defragging because: This database has local access protection (encrypted) and you are not authorized to access it
14/02/2010 03:08:25 PM DominoDefrag: test dbs\lotuskb.nsf Started Compact
14/02/2010 03:12:11 PM DominoDefrag: test dbs\lotuskb.nsf Completed Compact. increased by 1024K bytes (<1%>)
14/02/2010 03:12:16 PM DominoDefrag: test dbs\lotuskb.nsf Started Defrag
14/02/2010 03:13:33 PM DominoDefrag: test dbs\lotuskb.nsf File Size -> 1277952000 bytes
14/02/2010 03:13:33 PM DominoDefrag: test dbs\lotuskb.nsf Before Fragments -> 80
14/02/2010 03:13:33 PM DominoDefrag: test dbs\lotuskb.nsf After Fragments -> 1
14/02/2010 03:13:33 PM DominoDefrag: test dbs\lotuskb.nsf Completed Defrag
14/02/2010 03:13:33 PM DominoDefrag: test dbs\LotusKB.nsf 1 run time minute(s) have elapsed. Will stop now having completed defrag
14/02/2010 03:13:33 PM DominoDefrag: Total databases to be processed -> 3
14/02/2010 03:13:33 PM DominoDefrag: Total databases defragged -> 1
14/02/2010 03:13:33 PM DominoDefrag: Total databases partially defragged -> 0
14/02/2010 03:13:33 PM DominoDefrag: Total databases already defragged -> 0
14/02/2010 03:13:33 PM DominoDefrag: Total databases below start point -> 0
14/02/2010 03:13:33 PM DominoDefrag: Total databases with not enough disk space to defrag -> 0
14/02/2010 03:13:33 PM DominoDefrag: Total databases with no access to defrag -> 1
14/02/2010 03:13:33 PM DominoDefrag: Total databases compacted before defrag -> 1
14/02/2010 03:13:33 PM DominoDefrag: Termination complete
14/02/2010 03:13:33 PM Router: Message 0017369B delivered to World Administrator/ACDC
    
```

Figure 19 – Example 3 showing the latest DominoDefrag_CompactOptions, DominoDefrag_Runtime, DominoDefrag_SummaryEmailFrom and error handling functionality



- * Total databases to be processed -> 3
- * Total databases defragged -> 1
- * Total databases partially defragged -> 0
- * Total databases already defragged -> 0
- * Total databases below start point -> 0
- * Total databases with not enough disk space to defrag -> 0
- * Total databases with no access to defrag -> 1
- * Total databases compacted before defrag -> 1
- * Start date and time -> 14/02/2010 03:08:24 PM
- * End date and time -> 14/02/2010 03:13:33 PM

Figure 20 - Example 3 Summary Email sent to World Administrator

```

THUNDERSTRUCK/ACDC: Lotus Domino Server
Router                               Main: Idle
Calendar Connector                   Idle
Replicator                           Idle
Stats                                Idle
Admin Process                        Idle
Indexer                              Idle
Schedule Manager                    Idle
Event Monitor                        Idle

> load dominodefrag " " "-B -S 10"
14/02/2010 03:29:28 PM DominoDefrag: v2.2 (14 Feb 2010)
14/02/2010 03:29:28 PM DominoDefrag: Initializing...
14/02/2010 03:29:28 PM DominoDefrag: Running on Windows 5.2.3790.Service Pack 2
14/02/2010 03:29:28 PM DominoDefrag: Running on Domino 368
14/02/2010 03:29:28 PM DominoDefrag: Using contig.exe 1.55
14/02/2010 03:29:28 PM DominoDefrag: 32bit version running on 32bit platform
14/02/2010 03:29:28 PM DominoDefrag: Directory ->
14/02/2010 03:29:28 PM DominoDefrag: Process Full Text Index -> Off
14/02/2010 03:29:28 PM DominoDefrag: DominoDefrag_MinuteInterval parameter not found. Task will only run once
14/02/2010 03:29:28 PM DominoDefrag: DominoDefrag_RunTime parameter not found. No time limit on task execution
14/02/2010 03:29:28 PM DominoDefrag: DominoDefrag_StartPoint not found. Defaulting to 2
14/02/2010 03:29:28 PM DominoDefrag: Verbose Logging -> On
14/02/2010 03:29:28 PM DominoDefrag: Compact Database Before Defrag -> On
14/02/2010 03:29:28 PM DominoDefrag: Compact Database Options -> -B -S 10
14/02/2010 03:29:28 PM DominoDefrag: Summary Email Address -> World Administrator
14/02/2010 03:29:28 PM DominoDefrag: Transaction Log -> Off
14/02/2010 03:29:28 PM DominoDefrag: DAOS -> Off
14/02/2010 03:29:28 PM DominoDefrag: Initialization complete
14/02/2010 03:29:29 PM DominoDefrag: activity.ntf Started Compact
14/02/2010 03:29:34 PM DominoDefrag: activity.ntf Completed Compact. No change in size
14/02/2010 03:29:34 PM DominoDefrag: activity.ntf Already Defragmented
14/02/2010 03:29:34 PM DominoDefrag: admin4.nsf Started Compact
> tell dominodefrag q
14/02/2010 03:29:39 PM DominoDefrag: admin4.nsf Completed Compact. No change in size
14/02/2010 03:29:39 PM DominoDefrag: admin4.nsf Already Defragmented
14/02/2010 03:29:39 PM DominoDefrag: admin4.nsf Will terminate now having completed defrag
14/02/2010 03:29:39 PM DominoDefrag: Total databases to be processed -> 113
14/02/2010 03:29:39 PM DominoDefrag: Total databases defragged -> 0
14/02/2010 03:29:39 PM DominoDefrag: Total databases partially defragged -> 0
14/02/2010 03:29:39 PM DominoDefrag: Total databases already defragged -> 2
14/02/2010 03:29:39 PM DominoDefrag: Total databases below start point -> 0
14/02/2010 03:29:39 PM DominoDefrag: Total databases with not enough disk space to defrag -> 0
14/02/2010 03:29:39 PM DominoDefrag: Total databases with no access to defrag -> 0
14/02/2010 03:29:39 PM DominoDefrag: Total databases compacted before defrag -> 2
14/02/2010 03:29:39 PM DominoDefrag: Termination complete
>

```

Figure 21 – Example 4 showing the latest command line and “tell dominodefrag q” functionality. Notice that the command line has overridden the DominoDefrag_CompactOptions=-C used in Example 3.



DominoDefrag Summary Report for THUNDERSTRUCK/ACDC
DominoDefrag to: World Administrator

- * Total databases to be processed -> 113
- * Total databases defragged -> 0
- * Total databases partially defragged -> 0
- * Total databases already defragged -> 2
- * Total databases below start point -> 0
- * Total databases with not enough disk space to defrag -> 0
- * Total databases with no access to defrag -> 0
- * Total databases compacted before defrag -> 2
- * Start date and time -> 14/02/2010 03:29:29 PM
- * End date and time -> 14/02/2010 03:29:39 PM

Figure 22 - Example 4 Summary Email sent to World Administrator

```

User: localAdmin
Platform: Windows/Longhorn/64 6.1
Server: THUNDERSTRUCK/ACDC,Release 8.5.1

load dominodefrag mail

03/12/2009 02:15:29 PM DominoDefrag: v2.1 (3 Dec 2009)
03/12/2009 02:15:29 PM DominoDefrag: Initializing...
03/12/2009 02:15:29 PM DominoDefrag: Running on Windows 6.1.7600.
03/12/2009 02:15:29 PM DominoDefrag: Running on Domino 368
03/12/2009 02:15:29 PM DominoDefrag: Using contig.exe 1.55
03/12/2009 02:15:29 PM DominoDefrag: 64bit version running on 64bit platform
03/12/2009 02:15:29 PM DominoDefrag: Directory -> mail
03/12/2009 02:15:29 PM DominoDefrag: Process Full Text Index -> On
03/12/2009 02:15:29 PM DominoDefrag: DominoDefrag_MinuteInterval parameter not found. Task will only run once
03/12/2009 02:15:29 PM DominoDefrag: DominoDefrag_StartPoint not found. Defaulting to 2
03/12/2009 02:15:29 PM DominoDefrag: Verbose Logging -> On
03/12/2009 02:15:29 PM DominoDefrag: Compact Database Before Defrag -> Off
03/12/2009 02:15:29 PM DominoDefrag: Summary Email Address -> World Administrator
03/12/2009 02:15:29 PM DominoDefrag: Transaction Log -> On. Will defrag directory D:\logdir
03/12/2009 02:15:29 PM DominoDefrag: DAOS -> On. Will defrag directory D:\DAOS
03/12/2009 02:15:29 PM DominoDefrag: Initialization complete
03/12/2009 02:15:31 PM DominoDefrag: mail\wadminis.nsf Started Defrag
03/12/2009 02:15:36 PM DominoDefrag: mail\wadminis.nsf File Size -> 12058624 bytes
03/12/2009 02:15:36 PM DominoDefrag: mail\wadminis.nsf Before Fragments -> 8
03/12/2009 02:15:36 PM DominoDefrag: mail\wadminis.nsf After Fragments -> 1
03/12/2009 02:15:36 PM DominoDefrag: mail\wadminis.nsf Completed Defrag
03/12/2009 02:15:37 PM DominoDefrag: mail\wadminis.ft Started FT Index Defrag
03/12/2009 02:15:49 PM DominoDefrag: mail\wadminis.ft Files Processed -> 23
03/12/2009 02:15:49 PM DominoDefrag: mail\wadminis.ft Files Defragmented -> 6
03/12/2009 02:15:49 PM DominoDefrag: mail\wadminis.ft Average Before Fragments -> 5.43478
03/12/2009 02:15:49 PM DominoDefrag: mail\wadminis.ft Average After Fragments -> 1
03/12/2009 02:15:50 PM DominoDefrag: mail\wadminis.ft Completed FT Index Defrag
03/12/2009 02:15:50 PM DominoDefrag: D:\logdir Started Transaction Log Defrag
03/12/2009 02:17:31 PM DominoDefrag: D:\logdir Files Processed -> 8
03/12/2009 02:17:31 PM DominoDefrag: D:\logdir Files Defragmented -> 7
03/12/2009 02:17:31 PM DominoDefrag: D:\logdir Average Before Fragments -> 20.5
03/12/2009 02:17:31 PM DominoDefrag: D:\logdir Average After Fragments -> 1
03/12/2009 02:17:31 PM DominoDefrag: D:\logdir Completed Transaction Log Defrag
03/12/2009 02:17:31 PM DominoDefrag: D:\DAOS Started DAOS Files Defrag
03/12/2009 02:17:32 PM DominoDefrag: D:\DAOS Files Processed -> 6
03/12/2009 02:17:32 PM DominoDefrag: D:\DAOS Files Defragmented -> 0
03/12/2009 02:17:32 PM DominoDefrag: D:\DAOS Already Defragmented
03/12/2009 02:17:32 PM DominoDefrag: D:\DAOS Completed DAOS Files Defrag
03/12/2009 02:17:32 PM DominoDefrag: Total databases to be processed -> 1
03/12/2009 02:17:32 PM DominoDefrag: Total databases defragged -> 1
03/12/2009 02:17:32 PM DominoDefrag: Total databases partially defragged -> 0
03/12/2009 02:17:32 PM DominoDefrag: Total databases already defragged -> 0
03/12/2009 02:17:32 PM DominoDefrag: Total databases below start point -> 0
03/12/2009 02:17:32 PM DominoDefrag: Total databases with not enough disk space to defrag -> 0
03/12/2009 02:17:32 PM DominoDefrag: Total full-text indexes defragged -> 1
03/12/2009 02:17:32 PM DominoDefrag: Total full-text indexes partially defragged -> 0
03/12/2009 02:17:32 PM DominoDefrag: Total full-text indexes already defragged -> 0
03/12/2009 02:17:32 PM DominoDefrag: Total full-text indexes below start point -> 0
03/12/2009 02:17:32 PM DominoDefrag: Total full-text indexes with not enough disk space to defrag -> 0
03/12/2009 02:17:32 PM DominoDefrag: Total transaction log files to be processed -> 8
03/12/2009 02:17:32 PM DominoDefrag: Total transaction log files defragmented -> 7
03/12/2009 02:17:32 PM DominoDefrag: Average transaction log before fragments -> 20
03/12/2009 02:17:32 PM DominoDefrag: Average transaction log after fragments -> 1
03/12/2009 02:17:32 PM DominoDefrag: Total DAOS files to be processed -> 6
03/12/2009 02:17:32 PM DominoDefrag: Total DAOS files defragmented -> 0
03/12/2009 02:17:32 PM DominoDefrag: Average DAOS before fragments -> 1
03/12/2009 02:17:32 PM DominoDefrag: Average DAOS after fragments -> 1
03/12/2009 02:17:32 PM DominoDefrag: Termination complete
03/12/2009 02:17:32 PM Router: Message 001215DA delivered to World Administrator/ACDC

```

Figure 23 – Example 5 is the Lotus Domino server is showing the summary information at end of processing using Notes INI parameters DominoDefrag_VerboseLogging=1, DominoDefrag_FTIndex=1, DominoDefrag_TransactionLog=1, DominoDefrag_DAOS=1 and DominoDefrag_SummaryEmailAddress=World Administrator

Mar. 13

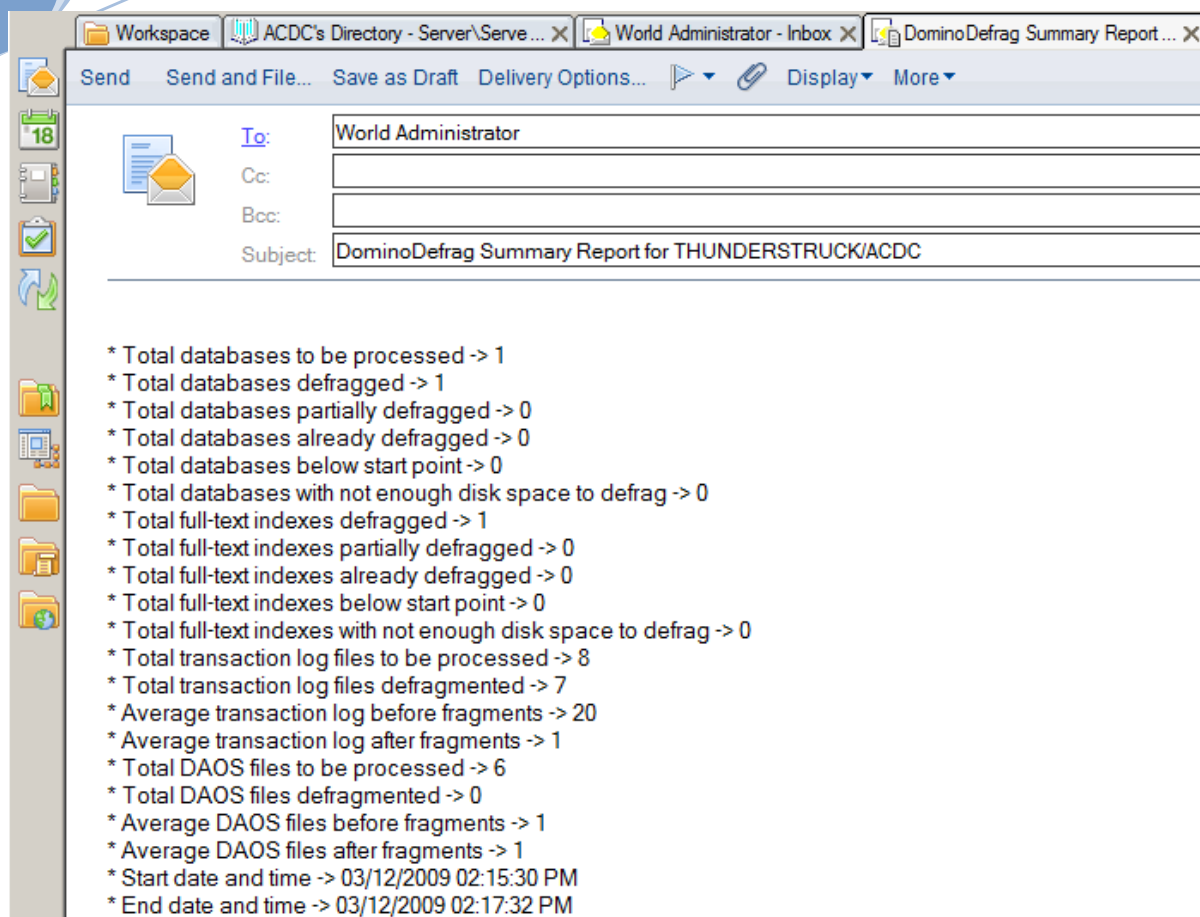


Figure 24 – Example 5 Summary Email sent to World Administrator

Annex C - Other Screen Shots

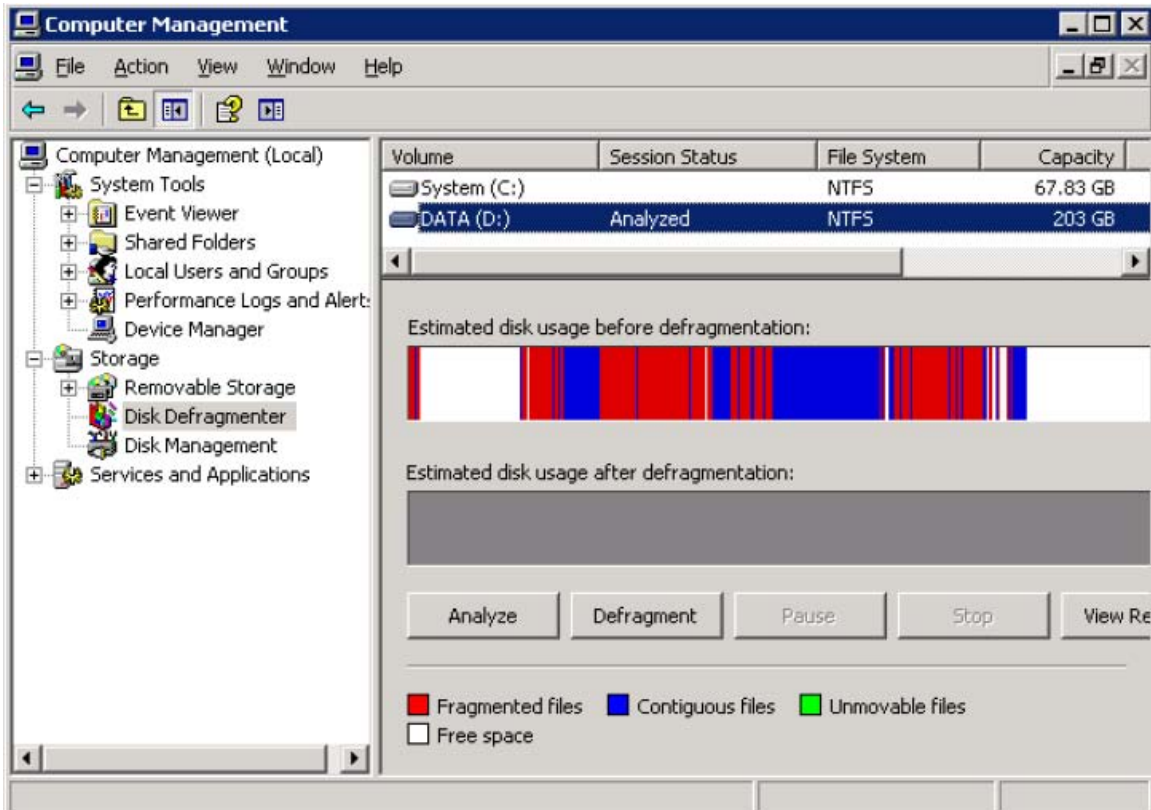


Figure 25 - Windows 2003 Domino server data partition fragmentation before DominoDefrag

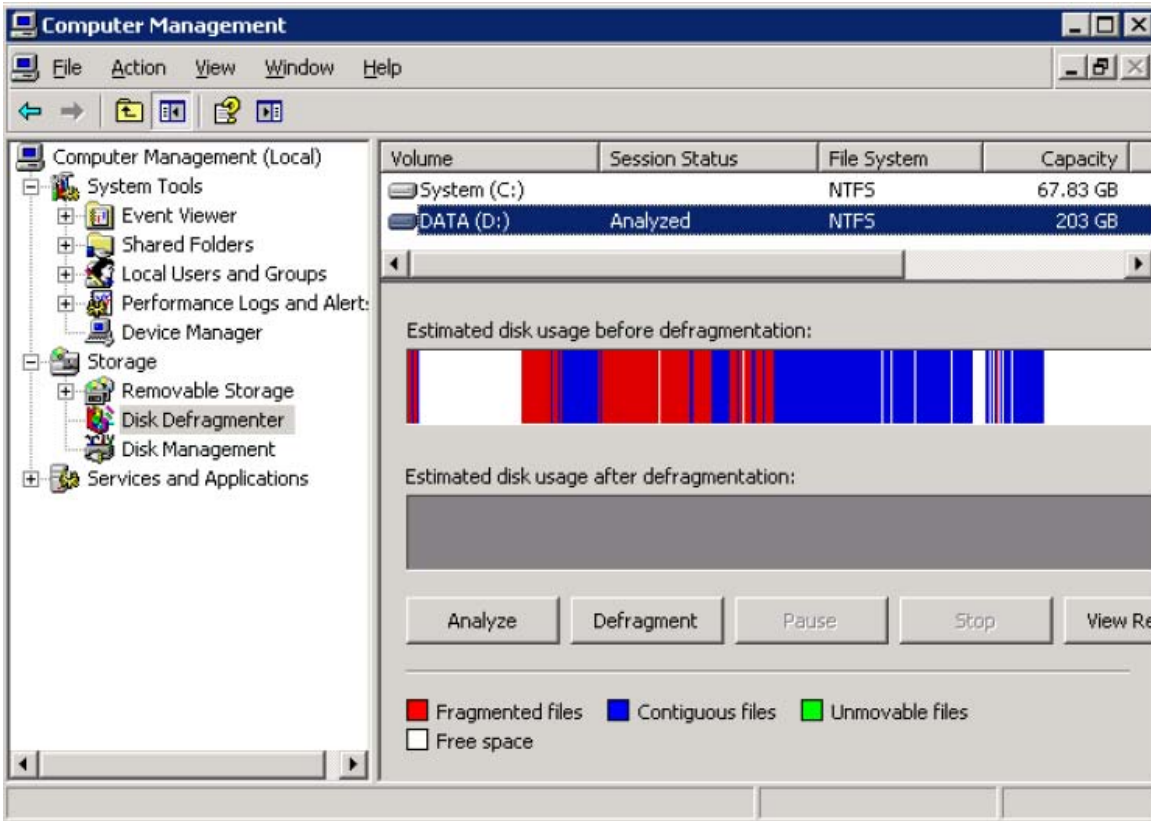


Figure 26 - Windows 2003 Domino server data partition fragmentation after DominoDefrag

```

Lotus Domino Server: OLD THUNDERSTRUCK/ACDC/AU
> load dominodefrag mail
12/03/2009 05:26:40 PM DominoDefrag: v2.1 (3 Dec 2009)
12/03/2009 05:26:40 PM DominoDefrag: Initializing...
12/03/2009 05:26:40 PM DominoDefrag: Running on Windows 4.0.1381.Service Pack 6
12/03/2009 05:26:40 PM DominoDefrag: Running on Domino 166
12/03/2009 05:26:40 PM DominoDefrag: Using contig.exe 1.53
12/03/2009 05:26:40 PM DominoDefrag: NT4 compatible contig.exe version detected
12/03/2009 05:26:40 PM DominoDefrag: 32bit version running on 32bit platform
12/03/2009 05:26:40 PM DominoDefrag: Directory -> mail
12/03/2009 05:26:40 PM DominoDefrag: Process Full Text Index -> On
12/03/2009 05:26:40 PM DominoDefrag: DominoDefrag_MinuteInterval parameter not found. Task will
only run once
12/03/2009 05:26:40 PM DominoDefrag: DominoDefrag_StartPoint not found. Defaulting to 2
12/03/2009 05:26:40 PM DominoDefrag: Verbose Logging -> On
12/03/2009 05:26:40 PM DominoDefrag: Compact Database Before Defrag -> On
12/03/2009 05:26:40 PM DominoDefrag: Compact -B will occur as Transactional logging is disabled
12/03/2009 05:26:40 PM DominoDefrag: Summary Email Address -> World Administrator
12/03/2009 05:26:40 PM DominoDefrag: Transaction Log -> Off because Notes INI TRANSLOG_Path
variable not specified
12/03/2009 05:26:40 PM DominoDefrag: DAOS -> Off
12/03/2009 05:26:40 PM DominoDefrag: Initialization complete
12/03/2009 05:26:42 PM DominoDefrag: mail\wadminis.nsf Started Compact
12/03/2009 05:26:50 PM DominoDefrag: mail\wadminis.nsf Completed Compact. Reduced from 8126464 to
7602176 bytes
12/03/2009 05:26:50 PM DominoDefrag: mail\wadminis.nsf Started Defrag
12/03/2009 05:26:51 PM DominoDefrag: mail\wadminis.nsf File Size -> 7602176 bytes
12/03/2009 05:26:51 PM DominoDefrag: mail\wadminis.nsf Before Fragments -> 3
12/03/2009 05:26:51 PM DominoDefrag: mail\wadminis.nsf After Fragments -> 1
12/03/2009 05:26:52 PM DominoDefrag: mail\wadminis.nsf Completed Defrag
12/03/2009 05:26:52 PM DominoDefrag: mail\wadminis.ft Already Defragmented
12/03/2009 05:26:52 PM DominoDefrag: Total databases to be processed -> 1
12/03/2009 05:26:52 PM DominoDefrag: Total databases defragged -> 1
12/03/2009 05:26:52 PM DominoDefrag: Total databases partially defragged -> 0
12/03/2009 05:26:52 PM DominoDefrag: Total databases already defragged -> 0
12/03/2009 05:26:52 PM DominoDefrag: Total databases below start point -> 0
12/03/2009 05:26:52 PM DominoDefrag: Total databases with not enough disk space to defrag -> 0
12/03/2009 05:26:52 PM DominoDefrag: Total databases compacted before defrag -> 1
12/03/2009 05:26:52 PM DominoDefrag: Total full-text indexes defragged -> 0
12/03/2009 05:26:52 PM DominoDefrag: Total full-text indexes partially defragged -> 0
12/03/2009 05:26:52 PM DominoDefrag: Total full-text indexes already defragged -> 1
12/03/2009 05:26:52 PM DominoDefrag: Total full-text indexes below start point -> 0
12/03/2009 05:26:52 PM DominoDefrag: Total full-text indexes with not enough disk space to defrag
-> 0
12/03/2009 05:26:52 PM DominoDefrag: Termination complete
12/03/2009 05:26:52 PM Router: Message 00236B53 delivered to World Administrator/ACDC/AU
>
    
```

Figure 27 - Example when processing "mail" short directory path

```

Lotus Domino Server: OLD THUNDERSTRUCK/ACDC/AU
> load dominodefrag log.nsf
03/12/2009 17:45:30 DominoDefrag: v2.1 (3 Dec 2009)
03/12/2009 17:45:30 DominoDefrag: Initializing...
03/12/2009 17:45:30 DominoDefrag: Running on Windows 4.0.1381.Service Pack 6
03/12/2009 17:45:30 DominoDefrag: Running on Domino 166
03/12/2009 17:45:30 DominoDefrag: Using contig.exe 1.53
03/12/2009 17:45:30 DominoDefrag: NT4 compatible contig.exe version detected
03/12/2009 17:45:30 DominoDefrag: 32bit version running on 32bit platform
03/12/2009 17:45:30 DominoDefrag: File -> log.nsf
03/12/2009 17:45:30 DominoDefrag: Process Full Text Index -> On
03/12/2009 17:45:30 DominoDefrag: DominoDefrag_MinuteInterval parameter not found. Task will
only run once
03/12/2009 17:45:30 DominoDefrag: Start Point -> 3
03/12/2009 17:45:30 DominoDefrag: Verbose Logging -> Off
03/12/2009 17:45:30 DominoDefrag: Compact Database Before Defrag -> On
03/12/2009 17:45:30 DominoDefrag: Compact -B will occur as Transactional logging is disabled
03/12/2009 17:45:30 DominoDefrag: Summary Email Address -> World Administrator
03/12/2009 17:45:30 DominoDefrag: Transaction Log -> Off because Notes INI TRANSLOG_Path
variable not specified
03/12/2009 17:45:30 DominoDefrag: DAOS -> Off
03/12/2009 17:45:30 DominoDefrag: Initialization complete
03/12/2009 17:45:32 DominoDefrag: log.nsf Compacting
03/12/2009 17:45:32 DominoDefrag: log.nsf (2) Below Start Point
03/12/2009 17:45:32 DominoDefrag: log.ft Directory does not exist
03/12/2009 17:45:32 DominoDefrag: Total databases to be processed -> 1
03/12/2009 17:45:32 DominoDefrag: Total databases defragged -> 0
03/12/2009 17:45:32 DominoDefrag: Total databases partially defragged -> 0
03/12/2009 17:45:32 DominoDefrag: Total databases already defragged -> 0
03/12/2009 17:45:32 DominoDefrag: Total databases below start point -> 1
03/12/2009 17:45:32 DominoDefrag: Total databases with not enough disk space to defrag -> 0
03/12/2009 17:45:32 DominoDefrag: Total databases compacted before defrag -> 1
03/12/2009 17:45:32 DominoDefrag: Total full-text indexes defragged -> 0
03/12/2009 17:45:32 DominoDefrag: Total full-text indexes partially defragged -> 0
03/12/2009 17:45:32 DominoDefrag: Total full-text indexes already defragged -> 0
03/12/2009 17:45:32 DominoDefrag: Total full-text indexes below start point -> 0
03/12/2009 17:45:32 DominoDefrag: Total full-text indexes with not enough disk space to defrag
-> 0
03/12/2009 17:45:32 DominoDefrag: Termination complete
03/12/2009 17:45:33 Router: Message 002520E6 delivered to World Administrator/ACDC/AU
    
```

Figure 28 - Example showing trying to defrag "log.nsf" with a DominoDefrag_StartPoint=3 (only defrag databases and full-text indexes starting with an average of 3 fragments), verbose logging turned off and summary information at end of processing

```

NEW SERVER/ACDC: Lotus Domino Server
> load dominodefrag otherhelp_link.dir
03/12/2009 04:00:30 PM DominoDefrag: v2.1 (3 Dec 2009)
03/12/2009 04:00:30 PM DominoDefrag: Initializing...
03/12/2009 04:00:30 PM DominoDefrag: Running on Windows 5.2.3790.Service Pack 2
03/12/2009 04:00:30 PM DominoDefrag: Running on Domino 368
03/12/2009 04:00:30 PM DominoDefrag: Using contig.exe 1.55
03/12/2009 04:00:30 PM DominoDefrag: 32bit version running on 32bit platform
03/12/2009 04:00:30 PM DominoDefrag: Directory -> otherhelp_link.dir
03/12/2009 04:00:30 PM DominoDefrag: Process Full Text Index -> On
03/12/2009 04:00:30 PM DominoDefrag: DominoDefrag_MinuteInterval parameter not found. Task will only run once
03/12/2009 04:00:30 PM DominoDefrag: DominoDefrag_StartPoint not found. Defaulting to 2
03/12/2009 04:00:30 PM DominoDefrag: Verbose Logging -> On
03/12/2009 04:00:30 PM DominoDefrag: Compact Database Before Defrag -> On
03/12/2009 04:00:30 PM DominoDefrag: Compact -b will occur as Transactional logging is enabled
03/12/2009 04:00:30 PM DominoDefrag: Summary Email Address -> World Administrator
03/12/2009 04:00:30 PM DominoDefrag: Transaction Log -> On. Will defrag directory d:\lotus\domino\data\logdir
03/12/2009 04:00:30 PM DominoDefrag: DAOS -> On. Will defrag directory d:\lotus\domino\data\DAOS
03/12/2009 04:00:30 PM DominoDefrag: Initialization complete
03/12/2009 04:00:31 PM DominoDefrag: otherhelp_link\lotuskb.nsf Started Compact
03/12/2009 04:00:59 PM DominoDefrag: otherhelp_link\lotuskb.nsf Completed Compact. No change in size
03/12/2009 04:01:00 PM DominoDefrag: otherhelp_link\lotuskb.nsf Started Defrag
03/12/2009 04:09:09 PM DominoDefrag: otherhelp_link\lotuskb.nsf File Size -> 974127104 bytes
03/12/2009 04:09:09 PM DominoDefrag: otherhelp_link\lotuskb.nsf Before Fragments -> 257
03/12/2009 04:09:09 PM DominoDefrag: otherhelp_link\lotuskb.nsf After Fragments -> 1
03/12/2009 04:09:09 PM DominoDefrag: otherhelp_link\lotuskb.nsf Completed Defrag
03/12/2009 04:09:09 PM DominoDefrag: otherhelp_link\lotuskb.ft Started FT Index Defrag
03/12/2009 04:09:53 PM DominoDefrag: otherhelp_link\lotuskb.ft Files Processed -> 23
03/12/2009 04:09:53 PM DominoDefrag: otherhelp_link\lotuskb.ft Files Defragmented -> 10
03/12/2009 04:09:53 PM DominoDefrag: otherhelp_link\lotuskb.ft Average Before Fragments -> 23.087
03/12/2009 04:09:53 PM DominoDefrag: otherhelp_link\lotuskb.ft Average After Fragments -> 1
03/12/2009 04:09:53 PM DominoDefrag: otherhelp_link\lotuskb.ft Completed FT Index Defrag
03/12/2009 04:09:53 PM DominoDefrag: d:\lotus\domino\data\logdir Started Transaction Log Defrag
03/12/2009 04:09:53 PM DominoDefrag: d:\lotus\domino\data\logdir Files Processed -> 8
03/12/2009 04:09:53 PM DominoDefrag: d:\lotus\domino\data\logdir Files Defragmented -> 0
03/12/2009 04:09:53 PM DominoDefrag: d:\lotus\domino\data\logdir Already Defragmented
03/12/2009 04:09:53 PM DominoDefrag: d:\lotus\domino\data\logdir Completed Transaction Log Defrag
03/12/2009 04:09:53 PM DominoDefrag: d:\lotus\domino\data\DAOS Started DAOS Files Defrag
03/12/2009 04:09:55 PM DominoDefrag: d:\lotus\domino\data\DAOS Files Processed -> 413
03/12/2009 04:09:55 PM DominoDefrag: d:\lotus\domino\data\DAOS Files Defragmented -> 1
03/12/2009 04:09:55 PM DominoDefrag: d:\lotus\domino\data\DAOS Average Before Fragments -> 1.06538
03/12/2009 04:09:55 PM DominoDefrag: d:\lotus\domino\data\DAOS Average After Fragments -> 1
03/12/2009 04:09:55 PM DominoDefrag: d:\lotus\domino\data\DAOS Completed DAOS Files Defrag
03/12/2009 04:09:55 PM DominoDefrag: Total databases to be processed -> 1
03/12/2009 04:09:55 PM DominoDefrag: Total databases defragged -> 1
03/12/2009 04:09:55 PM DominoDefrag: Total databases partially defragged -> 0
03/12/2009 04:09:55 PM DominoDefrag: Total databases already defragged -> 0
03/12/2009 04:09:55 PM DominoDefrag: Total databases below start point -> 0
03/12/2009 04:09:55 PM DominoDefrag: Total databases with not enough disk space to defrag -> 0
03/12/2009 04:09:55 PM DominoDefrag: Total databases compacted before defrag -> 1
03/12/2009 04:09:55 PM DominoDefrag: Total full-text indexes defragged -> 1
03/12/2009 04:09:55 PM DominoDefrag: Total full-text indexes partially defragged -> 0
03/12/2009 04:09:55 PM DominoDefrag: Total full-text indexes already defragged -> 0
03/12/2009 04:09:55 PM DominoDefrag: Total full-text indexes below start point -> 0
03/12/2009 04:09:55 PM DominoDefrag: Total full-text indexes with not enough disk space to defrag -> 0
03/12/2009 04:09:55 PM DominoDefrag: Total transaction log files to be processed -> 8
03/12/2009 04:09:55 PM DominoDefrag: Total transaction log files defragmented -> 0
03/12/2009 04:09:55 PM DominoDefrag: Average transaction log before fragments -> 1
03/12/2009 04:09:55 PM DominoDefrag: Average transaction log after fragments -> 1
03/12/2009 04:09:55 PM DominoDefrag: Total DAOS files to be processed -> 413
03/12/2009 04:09:55 PM DominoDefrag: Total DAOS files defragmented -> 1
03/12/2009 04:09:55 PM DominoDefrag: Average DAOS before fragments -> 1
03/12/2009 04:09:55 PM DominoDefrag: Average DAOS after fragments -> 1
03/12/2009 04:09:55 PM DominoDefrag: Termination complete
03/12/2009 04:10:11 PM Router: Message 001C5FB7 delivered to World Administrator/ACDC

```

Figure 29 - Example showing processing folder link "otherhelp_link.dir"

```

NEW SERVER/ACDC: Lotus Domino Server
> load dominodefrag xxx
03/12/2009 06:09:26 PM DominoDefrag: v2.1 (3 Dec 2009)
03/12/2009 06:09:26 PM DominoDefrag: Initializing...
03/12/2009 06:09:27 PM DominoDefrag: Running on Windows 5.2.3790.Service Pack 2
03/12/2009 06:09:27 PM DominoDefrag: Running on Domino 368
03/12/2009 06:09:27 PM DominoDefrag: Using contig.exe 1.55
03/12/2009 06:09:27 PM DominoDefrag: 32bit version running on 32bit platform
03/12/2009 06:09:27 PM DominoDefrag: DominoDefrag_Directory folder not found. Exiting...
> load dominodefrag xxx.nsf
03/12/2009 06:09:39 PM DominoDefrag: v2.1 (3 Dec 2009)
03/12/2009 06:09:39 PM DominoDefrag: Initializing...
03/12/2009 06:09:40 PM DominoDefrag: Running on Windows 5.2.3790.Service Pack 2
03/12/2009 06:09:40 PM DominoDefrag: Running on Domino 368
03/12/2009 06:09:40 PM DominoDefrag: Using contig.exe 1.55
03/12/2009 06:09:40 PM DominoDefrag: 32bit version running on 32bit platform
03/12/2009 06:09:40 PM DominoDefrag: DominoDefrag_Directory file not found. Exiting...

```

Figure 30 - Examples of when can't find the "xxx" directory and can't find the "xxx.nsf" database file

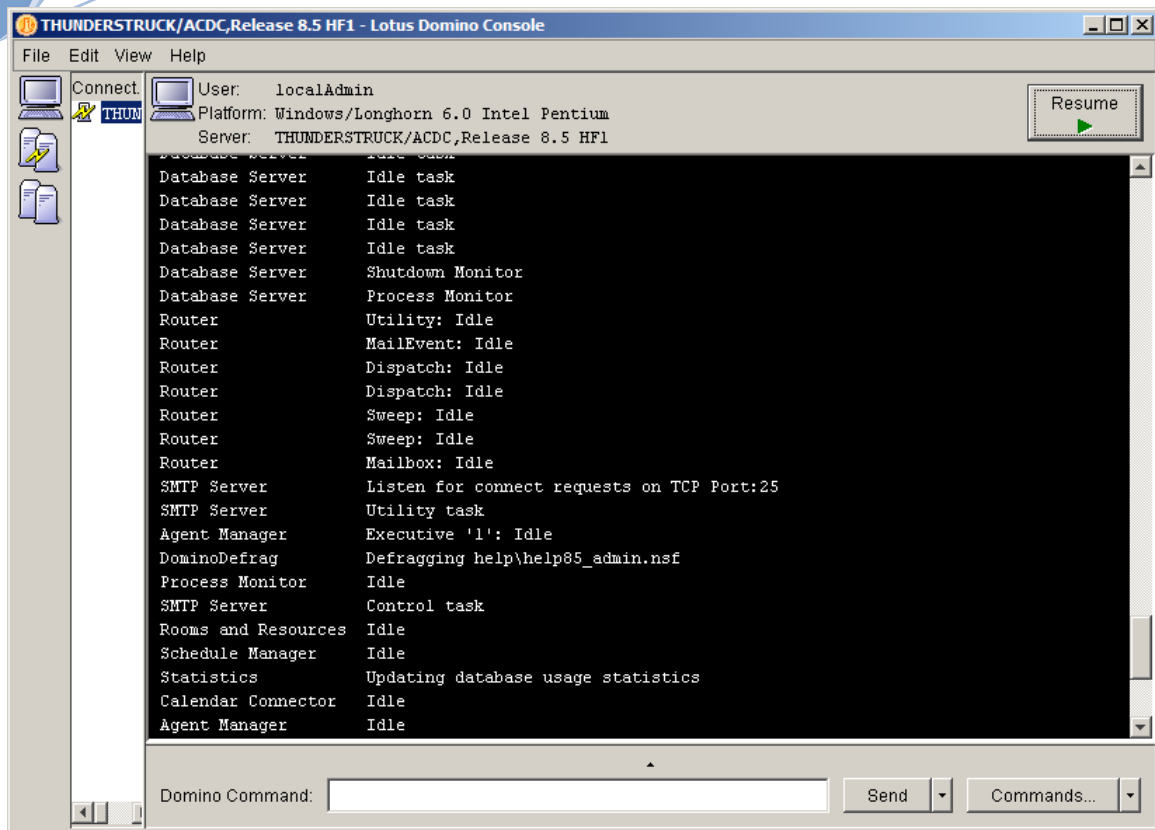


Figure 31 - Example showing DominoDefrag status from “show tasks” command when defragging a Notes database.