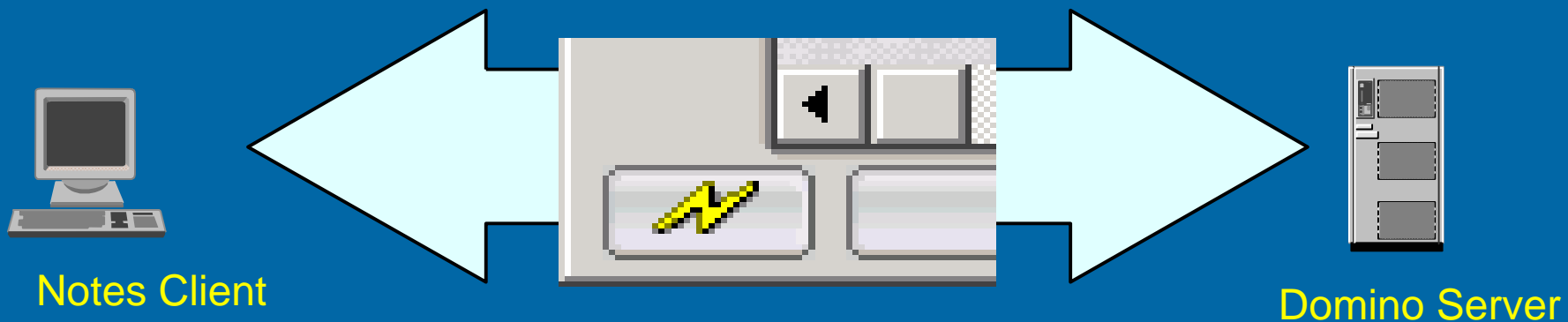


Undocumented Notes Feature: Uncover Performance Bottlenecks

- Watch behind the scenes rendering of forms, subforms, views (not just code)
 - Remote Procedure Calls (RPCs) = Notes-to-Domino talk
 - See <http://MartinScott.com> \ Resources \ Articles



Undocumented Notes Feature: Uncover Performance Bottlenecks

- Enable RPC watching on Notes client
 - NOTES.INI file on Notes client/Designer
 - Client_Clock=1
 - Debug_Console=1
 - Debug_Outfile=<path to filename> (optional)
 - Restart Notes client
 - Remove from NOTES.INI and restart to disable RPC watching

```
notes.ini - Notepad
File Edit Format View Help
[Notes]
KitType=1
Directory=c:\data\Notes7
InstallType=2
Client_Clock=1
Debug_Console=1
Debug_Outfile=c:\data\Notes7\RPCLog.txt
FaultRecovery Build=Release 7 0 1
```

Watching Notes RPCs – Opening my mail

The image shows two overlapping windows from a Lotus Notes client. The background window is a command prompt titled "C:\ Jamie Magee/MS: Notes Debug Window" which displays a log of RPCs. The foreground window is the Lotus Notes interface titled "Workspace - IBM Lotus Notes", showing the inbox for "Jamie Magee - Inbox" with a message from "Jamie Magee on Vienna01" with ID 7235.

Notes Debug Window Log:

```
01/24/2007 04:40:31 PM Lotus Notes client started
(1-14 [1]) OPEN_DB(CN=Vienna01/0=MSC!!mail\jmagee2.nsf): (Connect to Vienna01/MS: 0 ms) (Exch names: 0 ms)(A
thenticate: (1-14 [1]) OPEN_DB(CN=Vienna01/0=MSC!!): (Connect to Vienna01/MS: 0 ms) (Exch names: 0 ms)(Authe
ticate: 10 ms.)
571 ms.)
(OPEN_SESSION: 0 ms)
(OPEN_SESSION: 561 ms)
561 ms. [134+290=424]
(2-16 [3]) GET_UNREAD_NOTE_TABLE: 571 ms. [134+290=424]
(2-17 [4]) DBGETREPLICAMATCHES: 1692 ms. [290+17452=17742]
(3-17 [5]) OPEN_NOTE(REP85257246:005DD81C-NTFFFF0010,03000400): 841 ms. [176+780=956]
(3-18 [6]) OPEN_DB(CN=Vienna01/0=MSC!!mail\jmagee2.nsf): 621 ms. [48+1886=1934]
(4-18 [7]) GET_NAMED_OBJECT_ID($profile_015calendarprofile_): 641 ms
(4-18 [8]) READ_REPLICATION_HISTORY: 541 ms. [54+24=78]
(5-18 [9]) OPEN_NOTE(REP85257246:005DD81C-NT00002FE6,00400020): (6-1
4) (Cache entry not found)
(5-19 [10]) DB_REPLINFO_GET: 821 ms. [14+32=46]
1342 ms. [48+9050=9098]
(7-20 [11]) GET_NAMED_OBJECT_ID($profile_024archive database profile
01/MS: 1382 ms) 581 ms. [64+24=88]
(8-20 [13]) OPEN_NOTE(REP85257246:005DD81C-NT000010F2,00400020): (OP
520 ms. [48+214=262]
(9-21 [15]) OPEN_COLLECTION(REP85257246:005DD81C-NT0000073E,0040,400
(7-21 [16]) OPEN_NOTE(REP85257246:005DD81C-NTFFFF0040,03000400): 551
1061 ms. [48+1534=1582]
(8-22 [17]) GETNOTES_RQST: RCV_UNREAD[17407] 9634 ms. [250+110922=11
(10-31 [18]) GET_NOTE_INFO: 701 ms. [18+102=120]
(11-31 [19]) SET_COLLATION: 691 ms. [14+12=26]
(12-33 [20]) READ_ENTRIES(REP85257246:005DD81C-NT0000073E): 3325 ms.
(13-36 [21]) GET_ALLFOLDERCHANGES_RQST: 191 ms. [62+150=212]
(14-36 [22]) GET_LAST INDEX TIME: 210 ms. [14+60=74]
(15-36 [23]) GET_DBINFO: 14551 ms. [254+156374=156628]
```

Lotus Notes Interface:

- Workspace - IBM Lotus Notes
- File Edit View Create Actions Help
- EDIT MULTI DIFF DESIGN ACL
- Workspace Jamie Magee - Inbox
- MartinScott BK BKMail RCP MBUSI
- Message: 7235, Jamie Magee on Vienna01
- NoteMan 2.0 on Local

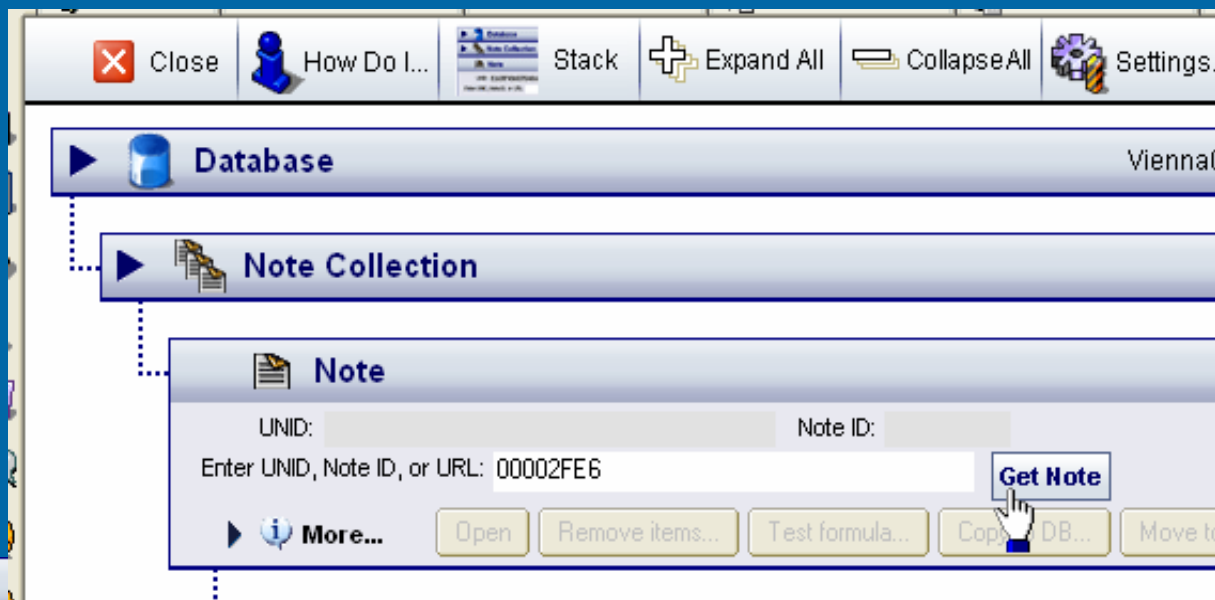
Watching Notes RPCs

(1-14 [1]) OPEN_DB(CN=Vienna01/O=MSC!!mail\jmagee2.nsf): (Connect to Vienna01/MS: 0 ms) (Exchange names: 0 ms)
(OPEN_SESSION: 561 ms)
(2-16 [3]) GET_UNREAD_NOTE_TABLE: 571 ms. [134+290=424]
(2-17 [4]) DBGETREPLICAMATCHES: 1692 ms. [290+17452=17742]
(3-17 [5]) OPEN_NOTE(REP85257246:005DD81C-NTFFFF0010,03000400): **841 ms.** [176+780=956]
(3-18 [6]) OPEN_DB(CN=Vienna01/O=MSC!!mail\jmagee2.nsf): 621 ms. [48+1886=1934]
(4-18 [7]) GET_NAMED_OBJECT_ID(\$profile_015calendarprofile_): 641 ms. [134+290=424]
(4-18 [8]) READ REPLICATION HISTORY: 541 ms. [54+24=78]
(5-18 [9]) OPEN_NOTE(REP85257246:005DD81C-NT00002FE6,00400020): (6-19 [10])
POLL_DEL_SEQNUM: **571 ms.** [60+64=124]
(Cache entry not found)
(5-19 [10]) DB_REPLINFO_GET: 821 ms. [14+32=46]
1342 ms. [48+9050=9098]
(7-20 [11]) GET_NAMED_OBJECT_ID(\$profile_024archive database profile_): (6-20 [12]) SEARCH:
(Connect to Vienna
01/MS: 1382 ms) 581 ms. [64+24=88]
(8-20 [13]) OPEN_NOTE(REP85257246:005DD81C-NT000010F2,00400020): (OPEN_SESSION: 531 ms)
520 ms. [48+214=262]
(9-21 [15]) OPEN_COLLECTION(REP85257246:005DD81C-NT0000073E,0040,4008): 1292 ms.
[70+782=852]
(7-21 [16]) OPEN_NOTE(REP85257246:005DD81C-NTFFFF0040,03000400): 551 ms. [110+28=138]
1061 ms. [48+1534=1582]

How to see what the NoteIDs are...

(5-18 [9]) OPEN_NOTE(REP85257246:005DD81C-NT00002FE6,00400020): (6-19 [10])
POLL_DEL_SEQNUM: 571 ms.

- Use a free tool like NoteMan to look up the NoteID 00002FE6



▼ Modify Items

Item Name	Dup	Ip	#	Data
EventLead	1	NU	1	1
evF	1	TE	1	00000000
ExcludeFromAll	1	TE	0	
ExcludeFromSent	1	TE	1	1
Form	1	TE	1	CalendarPro
FormatReplies	1	TE	0	
Friday	1	TE	1	6
HideToDosFromCalendar	1	TE	0	
IMAPNSOtherUsers	1	NA	0	
ImplodeSender1List	1	TE	1	" "
ImplodeSender2List	1	TE	1	" "
ImplodeSender2List	1	TE	1	" "

Item Details

Name: Form

Summary Encrypted

Length: 15 Last

Values: CalendarProfile

- This item is a Calendar Profile doc, and took .571 seconds of my DB open time.

NoteMan – use the free version as a better Notes “Document Properties” box...

- <http://NoteMan.com>
- FREE read-only features include:
 - Searching for docs by NoteID, UNID, formula, profile, URL
 - Seeing all readers, authors on a doc
 - Seeing a view of all profile documents and deletion stubs
 - Comparing differences between any documents
- Premium version includes:
 - Change any value on any doc(s) in 5 clicks (no agents!)
 - Compare, save, copy, merge DB ACL's
 - Unhide db designs
 - Merge conflict doc values field-by-field
 - Ad hoc display and export of DXL for anything in Notes
 - Dozens more features

We welcome any
follow-ups for any
reason...



www.MartinScott.com

*Lotus Notes/Domino
Products and Services*



Jamie Magee
Director

Tel: 703.281.6724
Fax: 703.995.4738
Jamie.Magee@MartinScott.com
Jamie@MartinScott@Notes Net

MartinScott Consulting
333 East Maple Ave, #600
Vienna, VA 22180

Lotus. Principal CLP

BY Domino.com

Custom Internet Application Development & Hosting Solutions

Kevin Marshall
President

kevin@bydomino.com
p: (800) mywebco
c: (805) 807-3355

Lotus. CLP™

2899 Agoura Rd. #280
Westlake Village, CA 91361

POWERED BY
.domino

FUTUREINSIGHT

Lotus **here** 2006

Lotus. software