

# Using HP NonStop ODBC/MX software to set up and troubleshoot ODBC sessions



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## Introduction

This paper introduces the reader to tested techniques used to document and resolve HP NonStop ODBC/MX software issues. This document is not intended to serve as a detailed reference, but rather as a how-to guide that provides steps to ensure that a customer environment using NonStop ODBC/MX software is set up correctly for successful problem resolution.

Debugging Open Database Connectivity (ODBC)-related issues can be broken down into several discrete parts: the database, the ODBC Server interface, the communications pipe, and the client side.

ODBC-based applications can be part of a multi-tier application architecture. For clarity, this document presents all ODBC installations as two-tiered, even though the implementation at the customer site where these techniques are used has more than three tiers. This customer has a NonStop database, NonStop ODBC/MP and NonStop ODBC/MX layers, a Windows NT Server system-based query scheduler, a Citrix Client farm, and Web-based client access to the Citrix Client farm. You must keep all these components in mind when you attempt to isolate problems.

## Overall steps

When you have a target database for which you would like to enable ODBC access, you should first configure an environment that will enable you to quickly isolate ODBC-based problems. By using NonStop ODBC/MX software, all the information needed to rule out problems or isolate which component is failing is available on the HP NonStop platform. Therefore, configure the NonStop ODBC/MX environment to report session-level statistics, as well as detailed trace information to alternate Event Management Service (EMS) collectors.

Configuring alternate EMS collectors means that you need not sift through the thousands of operational messages on the system (tape mounted, HP NonStop Transaction Management Facility [NonStop TMF] log rolled over, transaction aborted, and so on); however, if you need detailed system information, the timestamp provided to the alternate EMS collector allows you to correlate ODBC problems with potential system problems.

## Step one: Configure alternate EMS collectors

You should configure one EMS collector for the statistics summary, and one EMS collector for detailed tracing.

The following EMS configuration is from an actual customer site. Only the disk names have been changed to support an internal test-machine disk configuration:

```
== Shutdown the Alternate EMS Collectors.
```

```
EMSCCTRL $A0 STOP
```

```
EMSCCTRL $A1 STOP
```

```
== Start the Alternate EMS Collector(s) ($A0 for statistics, $A1 for detailed tracing).
```

```
EMSACOLL/NAME $A0, CPU 1, PRI 190, TERM $ZHOME, NOWAIT/&
```

```
LOGSUBVOL $DSK004.ZLOGA0, ROTATEFILES ON, MAXFILE 10, &
```

```
BUFFERED ON, BLOCKING ON, REFRESH ON, &
```

```
SECURITY NUUU, EXT (20, 100), REPLYAFTERWRITE OFF, BACKUP 0
```

```
EMSACOLL/NAME $A1, CPU 2, PRI 190, TERM $ZHOME, NOWAIT/&  
LOGSUBVOL $DSK004.ZLOGA1, ROTATEFILES ON, MAXFILE 10, &  
BUFFERED ON, BLOCKING ON, REFRESH ON, &  
SECURITY NUUU, EXT (20, 100), REPLYAFTERWRITE OFF, BACKUP 1
```

For more detailed documentation regarding EMS setup, refer to the appropriate EMS manuals.

## Step two: Start the MX ODBC Services

Now that you have EMS set up to support NonStop ODBC/MX software, start up the MX ODBC Services. The following commands start up MXOAS:

```
RUN $SYSTEM.ZMXODBC.MXOAS &  
/NAME $OAS0A, NOWAIT, IN $ZHOME, OUT $ZHOME, TERM $ZHOME, PRI 75,  
CPU 2/ &  
-TCP $ZTC0 -PN 18650 -PR 250 -EMS $A0 -E 2 -RMC $A0 -TMC $A1
```

The run statement above gives you session-level information and EMS events in \$A0, as well as the more detailed tracing in \$A1. The \$A1 trace is similar to traces you might take by using the ODBC tracing capability on the workstation.

Keep in mind, however, that the \$A1 trace is only active when you also turn tracing on from the NonStop System Console. Although it is configured, do not run the \$A1 trace continually, because the \$A1 trace uses a great deal of CPU time.

The following information describes the Run statement above in detail:

### NAME as-name

This specifies the process name of the NonStop ODBC/MX association server.

### TERM terminal-name

This specifies the name of a valid terminal to be used as the home terminal for all NonStop ODBC/MX processes. For this, you should specify a terminal that is always available, for example, \$ZHOME.

If a home terminal is not specified, or the terminal is a dynamic telnet window, the default is the terminal used to start the MXOAS process. If that terminal is a dynamic telnet window and it closes, NonStop ODBC/MX software stops accepting new connections because the window is valid only for current server connections.

### CPU cpu-number

This specifies the primary CPU in which the association server is to run.

### -TCP tcp-process

This specifies the HP Guardian name of the TCP/IP process; the default name is \$ZTC0.

### -EMS collector-name]

This specifies the name of the EMS collector to be used for event messages generated by NonStop ODBC/MX software; the default is \$0.

### -PN port-number

This specifies the starting port number (in decimal) for connections to the NonStop ODBC/MX association server; the default is 18650. This port number is used as the single point of contact for all ODBC applications connecting to that IP address; internally, NonStop ODBC/MX software manages the range of port numbers defined by -PR to ensure that each server has a separate port within the port range.

MXOAS /NAME as-name, NOWAIT, TERM terminal-name,

CPU cpu-number/ [-TCP tcp-process] [-EMS collector-name]

[-PN port-number] [-PR port-range] [-I] [-E detail-level]

[-RMC alternate collector-name]

[-TMC alternate collector-name ]

Note: If the home terminal closes, the NonStop ODBC/MX service cannot create new servers or process new connection requests. The NonStop Software Manager cannot display any configuration data because the MXCMP (SQL compiler) associated with the configuration server is stopped.

-PR port-range

This specifies the number of ports that can be used simultaneously for connections to the NonStop ODBC/MX association server (including the starting port number). The minimum requirement is three-port numbers; the default is 250. The port range specified must not conflict with port numbers used by other applications.

-I

This specifies the interactive startup mode for the association server. When this mode is specified, the association server is created in the STOPPED state and you must use the NonStop Software Manager to enable it. The default is the noninteractive state.

-E detail-level

0 Minimum, critical events only

1 Informational events

2 Internal state transition events

The default value is 0.

-RMC alternate-collector-name

This specifies the name of the alternate EMS collector to be used for resource statistics generated by NonStop ODBC/MX software. If option [-RMC alternate-collector-name] is not provided, NonStop ODBC/MX Server Trace sends trace messages to the primary EMS collector. You must start the alternate collector before starting NonStop ODBC/MX software.

-TMC alternate-collector-name

This specifies the name of the alternate EMS collector to be used for server tracing generated by NonStop ODBC/MX software. If option [-TMC alternate-collector-name] is not provided, NonStop ODBC/MX Server Trace sends trace messages to the primary EMS collector. You must start the alternate collector before starting NonStop ODBC/MX software.

## Step three: Configure server tracing

You must use the Super Group ID or a user ID that is a member of a group authorized to perform management tasks:

1. Configure an alternate collector using the EMSACOLL command. For details on the EMSACOLL command, see the EMS manual.
2. Start the alternate collector before starting the NonStop ODBC/MX service.
3. Use the MXOAS command to start the NonStop ODBC/MX service, and pass the name of the alternate EMS collector to the server in the -TMC parameter.

## Step four: Start server tracing

You must use the Super Group ID or a user ID that is a member of a group authorized to perform management tasks:

1. Using the NonStop Software Manager, right-click on a data source.
2. Click Enable Trace.
3. Click Yes at the warning "Enabling Trace will degrade system performance. Are you sure you want to turn on Server Trace?"

For more information about a screen, click Help.

Note: Use the NonStop Software Manager, Data Sources Status tab, to check enabled or disabled status.

## Step five: Stop server tracing

You must use the Super Group ID or a user ID that is a member of a group authorized to perform management tasks:

1. Using the NonStop Software Manager, right-click on a data source.
2. Click Disable Trace.

## Step six: Use Web ViewPoint software to check for application errors

To quickly check for application errors at the customer site, use HP Web ViewPoint software to search the \$AO log for the text "ErrorCode:-"

To start Web ViewPoint software from an HP NonStop Kernel system, type the following:

```
run webpt/name $wvpt, nowait/-p 7773 -noa (native mode)
```

To use Web ViewPoint software,

1. Start up a Web browser such as Netscape Navigator or Microsoft Internet Explorer.
2. For the Web page address, type

```
HTTP:// IP NAME OR ADDRESS OF THE SYSTEM:7773
```

Note that in example 1 below, error 4083 appears. Error 4083 is an error known to the application provider, but which the application provider chose to ignore rather than fix. This error has no negative effect on the application; however, you need to be aware of such errors when performing error analysis.

## Example 1: \$A0 Trace log searched for "ErrorCode:-" by using Web ViewPoint software

0001

```
<http://gdb2_en1:7773/homepage?TD=&AS=$A0&LO=\GDB2.$DSK104.ZLOGA0.ZZEV0398&RA=1327107&OFF=970&TS=4407> 2003-07-14 08:43:37 \GDB2.$Z2763 TANDEM.ODBCMX.G06 031035
```

ODBC/MX Statistics:

Session ID: \$OAS3A:8:\$Z2763:200371484332

Message Attribute: STATEMENT:SQLExecute

Sequence Number: 0

Message Info:

StatementId:200371484336 ODBCelapsedTime:728969 ODBCExecutionTime:11423

ErrorCode:-4083

0002

```
<http://gdb2_en1:7773/homepage?TD=&AS=$A0&LO=\GDB2.$DSK104.ZLOGA0.ZZEV0396&RA=0&OFF=0&TS=-13584> 2003-07-11 15:53:47 \GDB2.$Z2681 TANDEM.ODBCMX.G06 031035 ODBC/MX
```

Statistics:

Session ID: \$OAS3A:8:\$Z2681:2003711155345

Message Attribute: STATEMENT:SQLPrepare

Sequence Number: 0

Message Info:

StatementId:2003711155345 EstimatedCost:0 StatementType:SELECT SQLCompileTime:2061592

ErrorCode:-4002

0003

```
<http://gdb2_en1:7773/homepage?TD=&AS=$A0&LO=\GDB2.$DSK104.ZLOGA0.ZZEV0396&RA=262144&OFF=0&TS=-11024> 2003-07-11 15:41:06 \GDB2.$Z2664 TANDEM.ODBCMX.G06 031035 ODBC/MX
```

Statistics:

Session ID: \$OAS3A:8:\$Z2664:200371115415

Message Attribute: STATEMENT:SQLPrepare

Sequence Number: 0

Message Info:

StatementId:200371115415 EstimatedCost:0 StatementType:SELECT SQLCompileTime:709110

ErrorCode:-4002

0004

```
<http://gdb2_en1:7773/homepage?TD=&AS=$A0&LO=\GDB2.$DSK104.ZLOGA0.ZZEV0396&RA=217090&OFF=1662&TS=-29519> 2003-07-11 15:37:39 \GDB2.$Z2664 TANDEM.ODBCMX.G06 031035
```

ODBC/MX Statistics:

Session ID: \$OAS3A:8:\$Z2664:2003711153738

Message Attribute: STATEMENT:SQLExecute

Sequence Number: 0

Message Info:

StatementId:2003711153739 ODBCelapsedTime:70438 ODBCExecutionTime:6451

ErrorCode:-4083

## Example 2: Detailed trace from the \$A1 log

The session was started from the NonStop system side while detailed tracing was enabled. The example shows the most recent entry first.

	Generation time	Process ID	Subsystem ID	Event #
Text				
0001	2003-09-12 16:23:11	\HIMDLC.\$Z0287	TANDEM.ODBCMX.G06	031034 ODBC/MX Trace: Session ID: \$OAS0A:3:\$Z0287:2003912162229

Function: EnterDisconnect  
 Sequence Number: 0  
 Dialoguelid:1312047916  
 0002 2003-09-12 16:23:08 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: ExitClose  
 Sequence Number: 0  
 ExceptionNr:0 ExceptionDetail:0 RowsAffected:0  
 0003 2003-09-12 16:23:08 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: EnterClose  
 Sequence Number: 0  
 Dialoguelid:1312047916 StmtLabel:SQL\_CUR\_10 FreeRSOpt:1  
 0004 2003-09-12 16:22:58 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: ExitClose  
 Sequence Number: 0  
 ExceptionNr:0 ExceptionDetail:0 RowsAffected:-1  
 0005 2003-09-12 16:22:58 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: EnterClose  
 Sequence Number: 0  
 Dialoguelid:1312047916 StmtLabel:SQL\_CUR\_10 FreeRSOpt:0  
 0006 2003-09-12 16:22:58 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: ExitFetchRowset  
 Sequence Number: 0  
 ExceptionNr:5 ExceptionDetail:0 RowsAffected:0 OutputData:  
 0007 2003-09-12 16:22:58 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: EnterFetchRowset  
 Sequence Number: 0  
 Dialoguelid:1312047916 StmtLabel:SQL\_CUR\_10 MaxRowCnt:16384 MaxRowLen:0 SqlAsyncEnable:0  
 QueryTimeout:60  
 0008 2003-09-12 16:22:56 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: ExitFetchRowset  
 Sequence Number: 0  
 ExceptionNr:0 ExceptionDetail:0 RowsAffected:1  
 OutputData:0000000001000001D57F000001DAF700000100006300.....c.  
 0009 2003-09-12 16:22:56 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: EnterFetchRowset  
 Sequence Number: 0  
 Dialoguelid:1312047916 StmtLabel:SQL\_CUR\_10 MaxRowCnt:16384 MaxRowLen:0 SqlAsyncEnable:0  
 QueryTimeout:60  
 0010 2003-09-12 16:22:51 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: ExitExecDirectRowset  
 Sequence Number: 0  
 ExceptionNr:0 ExceptionDetail:0 EstCost:0 Version0:0 DataType0:-401 DateTimeCode0:0  
 MaxLen0:4 Precision0:6 Scale0:0 NullInfo0:0 SignType0:0 ColHeadingNm0:ORDERNUM  
 ODBCDataType0:2 ODBCprecision0:6 SQLCharset0:1 ODBCCharset0:1 TableName0:ORDERS  
 CatalogName0:MYCAT SchemaName0:MYSCHEMA Heading0:ORDERNUM Version1:0 DataType1:4  
 DateTimeCode1:0 MaxLen1:4 Precision1:6 Scale1:0 NullInfo1:0 SignType1:1  
 ColHeadingNm1:ORDER\_DATE ODBCDataType1:2 ODBCprecision1:6 SQLCharset1:1  
 ODBCCharset1:1  
 TableName1:ORDERS CatalogName1:MYCAT SchemaName1:MYSCHEMA Heading1:ORDER\_DATE  
 Version2:0

DataType2:4 DateTimeCode2:0 MaxLen2:4 Precision2:6 Scale2:0 NullInfo2:0 SignType2:1  
 ColHeadingNm2:DELIV\_DATE ODBCDataType2:2 ODBCPrecision2:6 SQLCharset2:1 ODBCCharset2:1  
 TableName2:ORDERS CatalogName2:MYCAT SchemaName2:MYSCHEMA Heading2:DELIV\_DATE  
 Version3:0  
 DataType3:-502 DateTimeCode3:0 MaxLen3:2 Precision3:4 Scale3:0 NullInfo3:0 SignType3:0  
 ColHeadingNm3:SALESREP ODBCDataType3:2 ODBCPrecision3:4 SQLCharset3:1 ODBCCharset3:1  
 TableName3:ORDERS CatalogName3:MYCAT SchemaName3:MYSCHEMA Heading3:SALESREP  
 Version4:0  
 DataType4:-502 DateTimeCode4:0 MaxLen4:2 Precision4:4 Scale4:0 NullInfo4:0 SignType4:0  
 ColHeadingNm4:CUSTNUM ODBCDataType4:2 ODBCPrecision4:4 SQLCharset4:1 ODBCCharset4:1  
 TableName4:ORDERS CatalogName4:MYCAT SchemaName4:MYSCHEMA Heading4:CUSTNUM  
 RowsAffected:0

0011 2003-09-12 16:22:50 \HIMDLC.\$Z0287 TANDEM.ODBCMX.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: EnterExecDirectRowset  
 Sequence Number: 0  
 DialoguelD:1312047916 StmtLabel:SQL\_CUR\_10 CursorName: StmtExLabel: StmtType:0  
 SqlStmtType:1 SqlStr:SELECT \* FROM MYCAT.MYSCHEMA.ORDERS SqlAsyncEnable:0  
 QueryTimeout:60 MaxRowCnt:0

0012 2003-09-12 16:22:33 \HIMDLC.\$Z0289 TANDEM.ODBCMX.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0289:2003912162233  
 Function: ExitImplnit  
 Sequence Number: 0  
 ReturnStatus:0

0013 2003-09-12 16:22:33 \HIMDLC.\$Z0289 TANDEM.ODBCMX.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0289:2003912162233  
 Function: EnterImplnit  
 Sequence Number: 0  
 DebugFlag:0 EventFlag:2 ASObjRef:TCP:16.73.8.250/18650:NonStopODBCAS SrvrType:2  
 StartType:0 NumServers:2 CfgSrvrTimeout:120 DSID:3 Transport:3 PortNum:18655  
 IpPortRange:250 TcpProcess:\$ZTC0 ASProcess:\$OAS0A EMSName:\$A0 EmsTimeout:100  
 TraceCollector:\$A1 RSCollector:\$A0 InitIncSrvr:5 InitIncTime:5 DSG:0 SrvrTrace:1  
 MajorVersion:2 EventLogger:0x4ffff91c DSName:himd1c

0014 2003-09-12 16:22:29 \HIMDLC.\$Z0287 TANDEM.ODBCMX.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: ExitConnect  
 Sequence Number: 0  
 ExceptionNr:0 ExceptionDetail:0 Component0:260 Major0:2 Minor0:2 Build0:310 Component1:3  
 Major1:1 Minor1:1 Build1:0 Catalog:TANDEM\_SYSTEM\_NSK Schema:PUBLIC\_ACCESS\_SCHEMA

0015 2003-09-12 16:22:29 \HIMDLC.\$Z0287 TANDEM.ODBCMX.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: EnterConnect  
 Sequence Number: 0  
 UserDescType:2 UserName:super.super Datasource:himd1c Catalog: Schema: AccessMode:0  
 AutoCommit:1 IsolationLevel:2 RowSetSize:0 Component0:7 Major0:3 Minor0:51  
 Build0:12124226 Component1:8 Major1:3 Minor1:0 Build1:0 DialoguelD:1312047916

0016 2003-09-12 16:21:47 \HIMDLC.\$Z0288 TANDEM.ODBCMX.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0288:2003912162147  
 Function: ExitImplnit  
 Sequence Number: 0  
 ReturnStatus:0

0017 2003-09-12 16:21:47 \HIMDLC.\$Z0288 TANDEM.ODBCMX.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0288:2003912162147  
 Function: EnterImplnit  
 Sequence Number: 0  
 DebugFlag:0 EventFlag:2 ASObjRef:TCP:16.73.8.250/18650:NonStopODBCAS SrvrType:2  
 StartType:0 NumServers:2 CfgSrvrTimeout:120 DSID:3 Transport:3 PortNum:18654  
 IpPortRange:250 TcpProcess:\$ZTC0 ASProcess:\$OAS0A EMSName:\$A0 EmsTimeout:100  
 TraceCollector:\$A1 RSCollector:\$A0 InitIncSrvr:5 InitIncTime:5 DSG:0 SrvrTrace:1

```

MajorVersion:2 EventLogger:0x4ffff91c DSName:himd1c
0018 2003-09-12 16:21:37 \HIMDLC.$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:
Session ID: $OAS0A:3:$Z0287:2003912162137
Function: ExitImplInit
Sequence Number: 0
ReturnStatus:0
0019 2003-09-12 16:21:37 \HIMDLC.$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:
Session ID: $OAS0A:3:$Z0287:2003912162137
Function: EnterImplInit
Sequence Number: 0
DebugFlag:0 EventFlag:2 ASObjRef:TCP:16.73.8.250/18650:NonStopODBCAS SrvrType:2
StartType:0 NumServers:2 CfgSrvrTimeout:120 DSID:3 Transport:3 PortNum:18653
IpPortRange:250 TcpProcess:$ZTC0 ASProcess:$OAS0A EMSName:$A0 EmsTimeout:100
TraceCollector:$A1 RSCollector:$A0 InitIncSrvr:5 InitIncTime:5 DSG:0 SrvrTrace:1
MajorVersion:2 EventLogger:0x4ffff91c DSName:himd1c
0020 2003-09-12 14:11:43 \HIMDLC.$A1 TANDEM.EMS.G06 000532 EMS: BACKUP CREATED
IN CPU 1
0021 2003-09-12 14:11:43 \HIMDLC.$A1 TANDEM.EMS.G06 000522 EMS: ALTERNATE
COLLECTOR
\HIMDLC.$A1, DISK EVENT LOGGING STARTED
0022 2003-09-12 14:11:43 \HIMDLC.$A1 *TANDEM.EMS.G06 000514 EMS:
COLLECTOR \HIMDLC.$A1
SWITCHED LOG FILES FROM FILE TO $D0103.ZLOGA1.ZZEV0000 BY OPERATOR

```

### Example 3: The \$A0 log showing a Simple Select\* command

```

0001 2003-09-12 16:03:46 \HIMDLC.$Z0284 TANDEM.ODBCM.G06 031035 ODBC/MX Statistics:
Session ID: $OAS0A:3:$Z0284:200391215484
Message Attribute: STATEMENT:SQLFetch/SQLClose
Sequence Number: 0
Message Info:
StatementId:200391216337 RowsAccessed:1 RowsRetrieved:1 DiscReads:0 MsgsToDisc:2
MsgsBytesToDisc:6448 LockWaits:0 LockEscalation:0 TotalOdbcElapsedTime:303968
TotalOdbcExecutionTime:18501 TotalExecutes:1
0002 2003-09-12 16:03:37 \HIMDLC.$Z0284 TANDEM.ODBCM.G06 031035 ODBC/MX Statistics:
Session ID: $OAS0A:3:$Z0284:200391215484
Message Attribute: STATEMENT:SQLExecDirect
Sequence Number: 0
Message Info:
StatementId:200391216337 EstimatedCost:0 StatementType:SELECT ODBCElapsedTime:240685
ODBCExecutionTime:7397 ErrorCode:0
0003 2003-09-12 16:03:37 \HIMDLC.$Z0284 TANDEM.ODBCM.G06 031035 ODBC/MX Statistics:
Session ID: $OAS0A:3:$Z0284:200391215484
Message Attribute: STATEMENT:SQLStatement
Sequence Number: 0
Message Info: StatementId:200391216337 SqlText:SELECT * FROM MYCAT.MYSCHEMA.ORDERS
0004 2003-09-12 15:48:06 \HIMDLC.$OAS0A TANDEM.ODBCM.G06 031019 ODBC/MX server
TCP:16.73.8.250/18653:NonStopODBC changing state from SRVR_CONNECTING to
SRVR_CONNECTED.
Event Type: 4
Component Name: ODBC/MX Service
Object Reference: TCP:16.73.8.250/18650:NonStopODBCAS
0005 2003-09-12 15:48:04 \HIMDLC.$Z0284 TANDEM.ODBCM.G06 031035 ODBC/MX Statistics:
Session ID: $OAS0A:3:$Z0284:200391215484
Message Attribute: SESSION:ConnectionInformation
Sequence Number: 0
Message Info:
Component:ODBCM_Server UserName:SUPER.SUPER UserId:65535 ClientId:JSLAPTOP2

```

## Example 4: The \$A1 log showing a Simple Select\* command

The trace shows everything down to the fetch of the rowset.

	Generation time	Process ID	Subsystem ID	Event #
Text				
0001	2003-09-18 13:02:31	\HIMDLC.\$Z0294	TANDEM.ODBCM.X.G06	031034 ODBC/MX Trace:
	Session ID: \$OAS0A:3:\$Z0294:200391813150			
	Function: EnterDisconnect			
	Sequence Number: 0			
	Dialoguelid:1488990709			
0002	2003-09-18 13:02:29	\HIMDLC.\$Z0294	TANDEM.ODBCM.X.G06	031034 ODBC/MX Trace:
	Session ID: \$OAS0A:3:\$Z0294:200391813150			
	Function: ExitClose			
	Sequence Number: 0			
	ExceptionNr:0 ExceptionDetail:0 RowsAffected:0			
0003	2003-09-18 13:02:29	\HIMDLC.\$Z0294	TANDEM.ODBCM.X.G06	031034 ODBC/MX Trace:
	Session ID: \$OAS0A:3:\$Z0294:200391813150			
	Function: EnterClose			
	Sequence Number: 0			
	Dialoguelid:1488990709 StmtLabel:SQL_CUR_3 FreeRSOpt:1			
0004	2003-09-18 13:02:20	\HIMDLC.\$Z0294	TANDEM.ODBCM.X.G06	031034 ODBC/MX Trace:
	Session ID: \$OAS0A:3:\$Z0294:200391813150			
	Function: ExitClose			
	Sequence Number: 0			
	ExceptionNr:0 ExceptionDetail:0 RowsAffected:-1			
0005	2003-09-18 13:02:20	\HIMDLC.\$Z0294	TANDEM.ODBCM.X.G06	031034 ODBC/MX Trace:
	Session ID: \$OAS0A:3:\$Z0294:200391813150			
	Function: EnterClose			
	Sequence Number: 0			
	Dialoguelid:1488990709 StmtLabel:SQL_CUR_3 FreeRSOpt:0			
0006	2003-09-18 13:02:18	\HIMDLC.\$Z0294	TANDEM.ODBCM.X.G06	031034 ODBC/MX Trace:
	Session ID: \$OAS0A:3:\$Z0294:200391813150			
	Function: ExitFetchRowset			
	Sequence Number: 0			
	ExceptionNr:5 ExceptionDetail:0 RowsAffected:0 OutputData:			
0007	2003-09-18 13:02:18	\HIMDLC.\$Z0294	TANDEM.ODBCM.X.G06	031034 ODBC/MX Trace:
	Session ID: \$OAS0A:3:\$Z0294:200391813150			
	Function: EnterFetchRowset			
	Sequence Number: 0			
	Dialoguelid:1488990709 StmtLabel:SQL_CUR_3 MaxRowCnt:16384 MaxRowLen:0 SqlAsyncEnable:0			
	QueryTimeout:60			
0008	2003-09-18 13:02:17	\HIMDLC.\$Z0294	TANDEM.ODBCM.X.G06	031034 ODBC/MX Trace:
	Session ID: \$OAS0A:3:\$Z0294:200391813150			
	Function: ExitFetchRowset			
	Sequence Number: 0			
	ExceptionNr:0 ExceptionDetail:0 RowsAffected:1			
	OutputData:0000000001000001D57F000001DAF700000100006300.....c.			
0009	2003-09-18 13:02:17	\HIMDLC.\$Z0294	TANDEM.ODBCM.X.G06	031034 ODBC/MX Trace:
	Session ID: \$OAS0A:3:\$Z0294:200391813150			
	Function: EnterFetchRowset			
	Sequence Number: 0			
	Dialoguelid:1488990709 StmtLabel:SQL_CUR_3 MaxRowCnt:16384 MaxRowLen:0 SqlAsyncEnable:0			
	QueryTimeout:60			
0010	2003-09-18 13:02:14	\HIMDLC.\$Z0294	TANDEM.ODBCM.X.G06	031034 ODBC/MX Trace:
	Session ID: \$OAS0A:3:\$Z0294:200391813150			
	Function: ExitExecDirectRowset			

Sequence Number: 0  
 ExceptionNr:0 ExceptionDetail:0 EstCost:0 Version0:0 DataType0:-401 DateTimeCode0:0  
 MaxLen0:4 Precision0:6 Scale0:0 NullInfo0:0 SignType0:0 ColHeadingNm0:ORDERNUM  
 ODBCDataType0:2 ODBCPrecision0:6 SQLCharset0:1 ODBCCharset0:1 TableName0:ORDERS  
 CatalogName0:MYCAT SchemaName0:MYSCHEMA Heading0:ORDERNUM Version1:0 DataType1:4  
 DateTimeCode1:0 MaxLen1:4 Precision1:6 Scale1:0 NullInfo1:0 SignType1:1  
 ColHeadingNm1:ORDER\_DATE ODBCDataType1:2 ODBCPrecision1:6 SQLCharset1:1  
 ODBCCharset1:1  
 TableName1:ORDERS CatalogName1:MYCAT SchemaName1:MYSCHEMA Heading1:ORDER\_DATE  
 Version2:0  
 DataType2:4 DateTimeCode2:0 MaxLen2:4 Precision2:6 Scale2:0 NullInfo2:0 SignType2:1  
 ColHeadingNm2:DELIV\_DATE ODBCDataType2:2 ODBCPrecision2:6 SQLCharset2:1 ODBCCharset2:1  
 TableName2:ORDERS CatalogName2:MYCAT SchemaName2:MYSCHEMA Heading2:DELIV\_DATE  
 Version3:0  
 DataType3:-502 DateTimeCode3:0 MaxLen3:2 Precision3:4 Scale3:0 NullInfo3:0 SignType3:0  
 ColHeadingNm3:SALESREP ODBCDataType3:2 ODBCPrecision3:4 SQLCharset3:1 ODBCCharset3:1  
 TableName3:ORDERS CatalogName3:MYCAT SchemaName3:MYSCHEMA Heading3:SALESREP  
 Version4:0  
 DataType4:-502 DateTimeCode4:0 MaxLen4:2 Precision4:4 Scale4:0 NullInfo4:0 SignType4:0  
 ColHeadingNm4:CUSTNUM ODBCDataType4:2 ODBCPrecision4:4 SQLCharset4:1 ODBCCharset4:1  
 TableName4:ORDERS CatalogName4:MYCAT SchemaName4:MYSCHEMA Heading4:CUSTNUM  
 RowsAffected:0

0011 2003-09-18 13:02:14 \HIMDLC.\$Z0294 TANDEM.ODBCMX.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0294:200391813150  
 Function: EnterExecDirectRowset  
 Sequence Number: 0  
 Dialoguelid:1488990709 StmtLabel:SQL\_CUR\_3 CursorName: StmtExLabel: StmtType:0  
 SqlStmtType:1 SqlStr:SELECT \* FROM MYCAT.MYSCHEMA.ORDERS SqlAsyncEnable:0  
 QueryTimeout:60 MaxRowCnt:0

0012 2003-09-18 13:01:50 \HIMDLC.\$Z0294 TANDEM.ODBCMX.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0294:200391813150  
 Function: ExitConnect  
 Sequence Number: 0  
 ExceptionNr:0 ExceptionDetail:0 Component0:260 Major0:2 Minor0:2 Build0:310 Component1:3  
 Major1:1 Minor1:1 Build1:0 Catalog:TANDEM\_SYSTEM\_NSK  
 Schema:PUBLIC\_ACCESS\_SCHEMA

0013 2003-09-18 13:01:50 \HIMDLC.\$Z0294 TANDEM.ODBCMX.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0294:200391813150  
 Function: EnterConnect  
 Sequence Number: 0  
 UserDescType:2 UserName:super.super Datasource:himd1c1 Catalog: Schema: AccessMode:0  
 AutoCommit:1 IsolationLevel:2 RowSetSize:0 Component0:7 Major0:3 Minor0:51  
 Build0:12124226 Component1:8 Major1:3 Minor1:0 Build1:0 Dialoguelid:1488990709

0014 2003-09-18 13:01:49 \HIMDLC.\$Z0295 TANDEM.ODBCMX.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0295:200391813149  
 Function: ExitImplnit  
 Sequence Number: 0  
 ReturnStatus:0

0015 2003-09-18 13:01:49 \HIMDLC.\$Z0295 TANDEM.ODBCMX.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0295:200391813149  
 Function: EnterImplnit  
 Sequence Number: 0  
 DebugFlag:0 EventFlag:2 ASObjRef:TCP:16.73.8.250/18650:NonStopODBCAS SrvrType:2  
 StartType:0 NumServers:2 CfgSrvrTimeout:120 DSID:3 Transport:3 PortNum:18655  
 IpPortRange:250 TcpProcess:\$ZTC0 ASProcess:\$OAS0A EMSName:\$A0 EmsTimeout:100  
 TraceCollector:\$A1 RSCollector:\$A0 InitIncSrvr:5 InitIncTime:5 DSG:0 SrvrTrace:1  
 MajorVersion:2 EventLogger:0x4ffff91c DSName:himd1c1

0016 2003-09-18 11:49:39 \HIMDLC.\$Z0294 TANDEM.ODBCMX.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0294:2003918114939

Function: ExitImplInit  
 Sequence Number: 0  
 ReturnStatus:0  
 0017 2003-09-18 11:49:39 \HIMDLC.\$Z0294 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0294:2003918114939  
 Function: EnterImplInit  
 Sequence Number: 0  
 DebugFlag:0 EventFlag:2 ASObjRef:TCP:16.73.8.250/18650:NonStopODBCAS SrvrType:2  
 StartType:0 NumServers:2 CfgSrvrTimeout:120 DSID:3 Transport:3 PortNum:18653  
 IpPortRange:250 TcpProcess:\$ZTC0 ASProcess:\$OAS0A EMSName:\$A0 EmsTimeout:100  
 TraceCollector:\$A1 RSCollector:\$A0 InitIncSrvr:5 InitIncTime:5 DSG:0 SrvrTrace:1  
 MajorVersion:2 EventLogger:0x4ffff91c DSName:himdlc1  
 0018 2003-09-18 11:49:24 \HIMDLC.\$Z0293 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0293:2003918114924  
 Function: ExitImplInit  
 Sequence Number: 0  
 ReturnStatus:0  
 0019 2003-09-18 11:49:24 \HIMDLC.\$Z0293 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0293:2003918114924  
 Function: EnterImplInit  
 Sequence Number: 0  
 DebugFlag:0 EventFlag:2 ASObjRef:TCP:16.73.8.250/18650:NonStopODBCAS SrvrType:2  
 StartType:0 NumServers:2 CfgSrvrTimeout:120 DSID:3 Transport:3 PortNum:18654  
 IpPortRange:250 TcpProcess:\$ZTC0 ASProcess:\$OAS0A EMSName:\$A0 EmsTimeout:100  
 TraceCollector:\$A1 RSCollector:\$A0 InitIncSrvr:5 InitIncTime:5 DSG:0 SrvrTrace:1  
 MajorVersion:2 EventLogger:0x4ffff91c DSName:himdlc1  
 0020 2003-09-12 16:23:11 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: ExitDisconnect  
 Sequence Number: 0  
 ExceptionNr:0 ExceptionDetail:0  
 0021 2003-09-12 16:23:11 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: EnterDisconnect  
 Sequence Number: 0  
 Dialoguelid:1312047916  
 0022 2003-09-12 16:23:08 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: ExitClose  
 Sequence Number: 0  
 ExceptionNr:0 ExceptionDetail:0 RowsAffected:0  
 0023 2003-09-12 16:23:08 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: EnterClose  
 Sequence Number: 0  
 Dialoguelid:1312047916 StmtLabel:SQL\_CUR\_10 FreeRSOpt:1  
 0024 2003-09-12 16:22:58 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: ExitClose  
 Sequence Number: 0  
 ExceptionNr:0 ExceptionDetail:0 RowsAffected:-1  
 0025 2003-09-12 16:22:58 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: EnterClose  
 Sequence Number: 0  
 Dialoguelid:1312047916 StmtLabel:SQL\_CUR\_10 FreeRSOpt:0  
 0026 2003-09-12 16:22:58 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: ExitFetchRowset

Sequence Number: 0  
ExceptionNr:5 ExceptionDetail:0 RowsAffected:0 OutputData:  
0027 2003-09-12 16:22:58 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
Session ID: \$OAS0A:3:\$Z0287:2003912162229  
Function: EnterFetchRowset  
Sequence Number: 0  
Dialoguelid:1312047916 StmtLabel:SQL\_CUR\_10 MaxRowCnt:16384 MaxRowLen:0 SqlAsyncEnable:0  
QueryTimeout:60  
EOF reached  
0028 2003-09-12 16:22:56 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
Session ID: \$OAS0A:3:\$Z0287:2003912162229  
Function: ExitFetchRowset  
Sequence Number: 0  
ExceptionNr:0 ExceptionDetail:0 RowsAffected:1  
OutputData:0000000001000001D57F000001DAF700000100006300.....c.  
0029 2003-09-12 16:22:56 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
Session ID: \$OAS0A:3:\$Z0287:2003912162229  
Function: EnterFetchRowset  
Sequence Number: 0  
Dialoguelid:1312047916 StmtLabel:SQL\_CUR\_10 MaxRowCnt:16384 MaxRowLen:0 SqlAsyncEnable:0  
QueryTimeout:60  
0030 2003-09-12 16:22:51 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
Session ID: \$OAS0A:3:\$Z0287:2003912162229  
Function: ExitExecDirectRowset  
Sequence Number: 0  
ExceptionNr:0 ExceptionDetail:0 EstCost:0 Version0:0 DataType0:-401 DateTimeCode0:0  
MaxLen0:4 Precision0:6 Scale0:0 NullInfo0:0 SignType0:0 ColHeadingNm0:ORDERNUM  
ODBCDataType0:2 ODBCPrecision0:6 SQLCharSet0:1 ODBCCharSet0:1 TableName0:ORDERS  
CatalogName0:MYCAT SchemaName0:MYSCHEMA Heading0:ORDERNUM Version1:0 DataType1:4  
DateTimeCode1:0 MaxLen1:4 Precision1:6 Scale1:0 NullInfo1:0 SignType1:1  
ColHeadingNm1:ORDER\_DATE ODBCDataType1:2 ODBCPrecision1:6 SQLCharSet1:1 ODBCCharSet1:1  
TableName1:ORDERS CatalogName1:MYCAT SchemaName1:MYSCHEMA Heading1:ORDER\_DATE  
Version2:0  
DataType2:4 DateTimeCode2:0 MaxLen2:4 Precision2:6 Scale2:0 NullInfo2:0 SignType2:1  
ColHeadingNm2:DELIV\_DATE ODBCDataType2:2 ODBCPrecision2:6 SQLCharSet2:1 ODBCCharSet2:1  
TableName2:ORDERS CatalogName2:MYCAT SchemaName2:MYSCHEMA Heading2:DELIV\_DATE  
Version3:0  
DataType3:-502 DateTimeCode3:0 MaxLen3:2 Precision3:4 Scale3:0 NullInfo3:0 SignType3:0  
ColHeadingNm3:SALESREP ODBCDataType3:2 ODBCPrecision3:4 SQLCharSet3:1 ODBCCharSet3:1  
TableName3:ORDERS CatalogName3:MYCAT SchemaName3:MYSCHEMA Heading3:SALESREP  
Version4:0  
DataType4:-502 DateTimeCode4:0 MaxLen4:2 Precision4:4 Scale4:0 NullInfo4:0 SignType4:0  
ColHeadingNm4:CUSTNUM ODBCDataType4:2 ODBCPrecision4:4 SQLCharSet4:1 ODBCCharSet4:1  
TableName4:ORDERS CatalogName4:MYCAT SchemaName4:MYSCHEMA Heading4:CUSTNUM  
RowsAffected:0  
0031 2003-09-12 16:22:50 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
Session ID: \$OAS0A:3:\$Z0287:2003912162229  
Function: EnterExecDirectRowset  
Sequence Number: 0  
Dialoguelid:1312047916 StmtLabel:SQL\_CUR\_10 CursorName: StmtExLabel: StmtType:0  
SqlStmtType:1 SqlStr:SELECT \* FROM MYCAT.MYSCHEMA.ORDERS SqlAsyncEnable:0  
QueryTimeout:60 MaxRowCnt:0  
0032 2003-09-12 16:22:33 \HIMDLC.\$Z0289 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
Session ID: \$OAS0A:3:\$Z0289:2003912162233  
Function: ExitImplInit  
Sequence Number: 0  
ReturnStatus:0  
0033 2003-09-12 16:22:33 \HIMDLC.\$Z0289 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
Session ID: \$OAS0A:3:\$Z0289:2003912162233

Function: EnterImplnit  
 Sequence Number: 0  
 DebugFlag:0 EventFlag:2 ASObjRef:TCP:16.73.8.250/18650:NonStopODBCAS SrvrType:2  
 StartType:0 NumServers:2 CfgSrvrTimeout:120 DSID:3 Transport:3 PortNum:18655  
 IpPortRange:250 TcpProcess:\$ZTC0 ASProcess:\$OAS0A EMSName:\$A0 EmsTimeout:100  
 TraceCollector:\$A1 RSCollector:\$A0 InitIncSrvr:5 InitIncTime:5 DSG:0 SrvrTrace:1  
 MajorVersion:2 EventLogger:0x4ffff91c DSName:himd1c1  
 0034 2003-09-12 16:22:29 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: ExitConnect  
 Sequence Number: 0  
 ExceptionNr:0 ExceptionDetail:0 Component0:260 Major0:2 Minor0:2 Build0:310 Component1:3  
 Major1:1 Minor1:1 Build1:0 Catalog:TANDEM\_SYSTEM\_NSK Schema:PUBLIC\_ACCESS\_SCHEMA  
 0035 2003-09-12 16:22:29 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162229  
 Function: EnterConnect  
 Sequence Number: 0  
 UserDescType:2 UserName:super.super Datasource:himd1c1 Catalog: Schema: AccessMode:0  
 AutoCommit:1 IsolationLevel:2 RowSetSize:0 Component0:7 Major0:3 Minor0:51  
 Build0:12124226 Component1:8 Major1:3 Minor1:0 Build1:0 Dialogeld:1312047916  
 0036 2003-09-12 16:21:47 \HIMDLC.\$Z0288 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0288:2003912162147  
 Function: ExitImplnit  
 Sequence Number: 0  
 ReturnStatus:0  
 0037 2003-09-12 16:21:47 \HIMDLC.\$Z0288 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0288:2003912162147  
 Function: EnterImplnit  
 Sequence Number: 0  
 DebugFlag:0 EventFlag:2 ASObjRef:TCP:16.73.8.250/18650:NonStopODBCAS SrvrType:2  
 StartType:0 NumServers:2 CfgSrvrTimeout:120 DSID:3 Transport:3 PortNum:18654  
 IpPortRange:250 TcpProcess:\$ZTC0 ASProcess:\$OAS0A EMSName:\$A0 EmsTimeout:100  
 TraceCollector:\$A1 RSCollector:\$A0 InitIncSrvr:5 InitIncTime:5 DSG:0 SrvrTrace:1  
 MajorVersion:2 EventLogger:0x4ffff91c DSName:himd1c1  
 0038 2003-09-12 16:21:37 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162137  
 Function: ExitImplnit  
 Sequence Number: 0  
 ReturnStatus:0  
 0039 2003-09-12 16:21:37 \HIMDLC.\$Z0287 TANDEM.ODBCM.G06 031034 ODBC/MX Trace:  
 Session ID: \$OAS0A:3:\$Z0287:2003912162137  
 Function: EnterImplnit  
 Sequence Number: 0  
 DebugFlag:0 EventFlag:2 ASObjRef:TCP:16.73.8.250/18650:NonStopODBCAS SrvrType:2  
 StartType:0 NumServers:2 CfgSrvrTimeout:120 DSID:3 Transport:3 PortNum:18653  
 IpPortRange:250 TcpProcess:\$ZTC0 ASProcess:\$OAS0A EMSName:\$A0 EmsTimeout:100  
 TraceCollector:\$A1 RSCollector:\$A0 InitIncSrvr:5 InitIncTime:5 DSG:0 SrvrTrace:1  
 MajorVersion:2 EventLogger:0x4ffff91c DSName:himd1c1  
 0040 2003-09-12 14:11:43 \HIMDLC.\$A1 TANDEM.EMS.G06 000532 EMS: BACKUP CREATED  
 IN CPU  
 0041 2003-09-12 14:11:43 \HIMDLC.\$A1 TANDEM.EMS.G06 000522 EMS: ALTERNATE  
 COLLECTOR  
 \HIMDLC.\$A1, DISK EVENT LOGGING STARTED  
 0042 2003-09-12 14:11:43 \HIMDLC.\$A1 \*TANDEM.EMS.G06 000514 EMS: COLLECTOR  
 \HIMDLC.\$A1  
 SWITCHED LOG FILES FROM FILE TO \$D0103.ZLOGA1.ZZEV0000 BY OPERATOR

## About the author

John Sassaman has been involved in resolving technical issues regarding NonStop ODBC/MP software for more than a decade. Direct questions or comments to the author by contacting him at [john.sassaman@hp.com](mailto:john.sassaman@hp.com).

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